Appendix A – Test result

Test campaign report

Test Case ID	Sample		Date	Conf	Verdict	Observations
TP_A_EU868_ED_MAC_104_BV_000	Device ID		2023-11-27	Yes	PASS	
	App ID					
	Sw ver					
	Hw ver					
TP_A_EU868_ED_MAC_104_BV_001_A	Device ID		2023-11-27	Yes	PASS	
	App ID					
	Sw ver					
	Hw ver					
TP_A_EU868_ED_MAC_104_BV_002	Device ID		2023-11-27	Yes	PASS	
	App ID					
	Sw ver					
	Hw ver					
TP_A_EU868_ED_MAC_104_BV_003	Device ID		2023-11-27	Yes	PASS	
	App ID					
	Sw ver					
	Hw ver					
TP_A_EU868_ED_MAC_104_BV_004	Device ID		2023-11-27	Yes	PASS	
	App ID					
	Sw ver					
	Hw ver					
TP_A_EU868_ED_MAC_104_BV_005	Device ID		2023-11-27	Yes	PASS	
	App ID					
	Sw ver					
	Hw ver					
TP_A_EU868_ED_MAC_104_BV_006	Device ID		2023-11-27	Yes	PASS	
	App ID					
	Sw ver					
	Hw ver					
TP_A_EU868_ED_MAC_104_BV_007	Device ID		2023-11-27	Yes	PASS	
	App ID					
	Sw ver					
	Hw ver					
TP_A_EU868_ED_MAC_104_BV_008	Device ID		2023-11-27	Yes	PASS	
	App ID					
	Sw ver					
	Hw ver					
TP_A_EU868_ED_MAC_104_BV_009	Device ID		2023-11-27	Yes	PASS	
	App ID					
	Sw ver					
	Hw ver					
	Device ID		2023-11-27	Yes	PASS	

TP_A_EU868_ED_MAC_104_BV_010	App ID					
	Sw ver					
	Hw ver					
TP_A_EU868_ED_MAC_104_BV_011	Device ID		2023-11-27	Yes	PASS	
	App ID					
	Sw ver					
	Hw ver					
TP_A_EU868_ED_MAC_104_BV_012_A	Device ID		2023-11-27	Yes	PASS	
	App ID					
	Sw ver					
	Hw ver					
TP_A_EU868_ED_MAC_104_BV_012_B	Device ID		2023-11-27	Yes	PASS	
	App ID					
	Sw ver					
	Hw ver					
TP_A_EU868_ED_MAC_104_BV_013	Device ID		2023-11-27	Yes	PASS	
	App ID					
	Sw ver					
	Hw ver					
TP_A_EU868_ED_MAC_104_BV_014	Device ID		2023-11-27	Yes	PASS	
	App ID					
	Sw ver					
	Hw ver					
TP_A_EU868_ED_MAC_104_BV_015_A	Device ID		2023-11-27	Yes	PASS	
	App ID					
	Sw ver					
	Hw ver					
TP_A_EU868_ED_MAC_104_BV_015_B	Device ID		2023-11-27	Yes	PASS	
	App ID					
	Sw ver					
	Hw ver					
TP_A_EU868_ED_MAC_104_BV_016	Device ID		2023-11-27	Yes	PASS	
	App ID					
	Sw ver					
	Hw ver					
TP_A_EU868_ED_MAC_104_BV_017	Device ID		2023-11-27	Yes	PASS	
	App ID					
	Sw ver					
	Hw ver					
TP_A_EU868_ED_MAC_104_BV_018	Device ID		2023-11-27	Yes	PASS	
	App ID					
	Sw ver					
	Hw ver					
TP_A_EU868_ED_MAC_104_BV_019_A	Device ID		2023-11-27	Yes	PASS	
	App ID					
	Sw ver					
	Hw ver					
TP_A_EU868_ED_MAC_104_BV_019_B	Device ID		2023-11-27	Yes	PASS	
	App ID					
	Sw ver					
	Hw ver					
TP_A_EU868_ED_MAC_104_BV_020	Device ID		2023-11-27	Yes	PASS	
	App ID					
	Sw ver					

	Hw ver					
TP_A_EU868_ED_MAC_104_BV_021	**Device ID**		2023-11-27	Yes	**PASS**	
	App ID					
	Sw ver					
	Hw ver					

Test Case	TP_A_EU868_ED_MAC_104_BV_000	
Verdict	PASS	
Date	2023-11-27 08:56:21	
Description		
Technology Version	LCTT v3.11.0_R1 | GUI v2.6.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.3	
Test Specs Version	USv1.5.1/EUv1.6.2/KRv1.2.1/ASv1.1.1/INv1.1.1/ALL_Av1.6/ALL_Cv1.0/ ALL_Bv1.0/SCHCv1.1/ALPv1.0	
Project	ref-stack	
Project Creation Date	2023-10-04 09:10:20	
Sample Parameters		
	Conformance	TRUE

Time Stamp (ms)	Event	Summary
0:00:00.008730	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_000
0:00:00.075499	LOG	==========
0:00:00.077503	LOG	Start Test Step: Device activation
0:00:00.090507	LOG	Over-The-Air Activation (OTAA) process starts
0:00:00.105058	LOG	Waiting GPS time...
0:00:00.764984	LOG	GPS Time updated: 1385107007268
0:00:00.766999	LOG	PULL_DATA: 02 85f1 02 0016c001ff1025bf
0:00:00.767986	LOG	PULL_ACK: 02 85f1 04
0:00:09.484198	LOG	Multiple frames received. Selecting the correct frame...
0:00:09.486233	LOG	Frame selected: {'jver': 1, 'tmst': 1471518924, 'time': '2023-11-27T07:56:38.441190Z', 'tmms': 1385107017441, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.0, 'foff': -3414, 'rssi': -49, 'size': 23, 'data': 'AAAAAAAAAAAAAAAAAAAAAABAMHxTDM='}
0:00:09.488198	LOG	First uplink received. Open reception window.
0:00:09.593189	LOG	PUSH_ACK: 02 66f1 01
0:00:09.597162	LOG	GPS Time from gateway: 1385107017441
0:00:09.598162	LOG	First BEACON scheduled at GPS Time (ms): 1385107072000
0:00:09.608212	LOG	#**********FIRST BEACON QUEUED**********#
0:00:09.609215	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385107072000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACADo9SKLcAAAAAAAAAAA='}}
0:00:09.611214	LOG	Server ----------> DUT
0:00:09.612216	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 800e8f52, CRC1: 28b7, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385107072000
0:00:09.613216	LOG	#**********#
0:00:09.615215	LOG	Next BEACON scheduled at GPS time (ms): 1385107200000
0:00:09.616220	LOG	PUSH_DATA: Protocol version = 02, Token = 66f1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1471518924, 'time': '2023-11-27T07:56:38.441190Z',

		'tmms': 1385107017441, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.0, 'foff': -3414, 'rssi': -49, 'size': 23, 'data': 'AAAAAAAAAAAAAAAAAAAAAAABAMHxTDM='}, {'jver': 1, 'tmst': 1471518924, 'time': '2023-11-27T07:56:38.441190Z', 'tmms': 1385107017441, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.0, 'foff': -3414, 'rssi': -113, 'size': 23, 'data': 'AAAAAAAAAAAAAAAAAAAAAAABAMHxTDM='}]}
0:00:09.617221	LOG	DATA: (MHDR: 00, Join-Request: (AppEUI: 0000000000000000, DevEUI: 0000000000000000, DevNonce: 0001),MIC: c1f14c33)
0:00:09.619220	LOG	Server <---------- DUT
0:00:09.620223	LOG	GPS Time locked
0:00:09.622220	LOG	PHYPayload: (MHDR: 20, Join-Response: (JoinNonce: 010000, NetID: 000000, DevAddr: 00000000, DLSettings: 00, RxDelay: 01, CFList:), MIC: ddaad1a0)
0:00:09.624222	LOG	PULL_RESP: Protocol version = 02, Token = 857f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1477518924, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'IGy9J69z5ufQ8Zd3iKpSFcE='}}
0:00:09.625254	LOG	Server ----------> DUT
0:00:09.629220	LOG	TX_ACK: 02 857f 05 0016c001ff1025bf
0:00:10.884882	LOG	GPS Time updated: 1385107018837
0:00:10.885881	LOG	PULL_DATA: 02 7cc0 02 0016c001ff1025bf
0:00:10.886881	LOG	PULL_ACK: 02 7cc0 04
0:00:20.975194	LOG	GPS Time updated: 1385107028929
0:00:20.976231	LOG	PULL_DATA: 02 7cbb 02 0016c001ff1025bf
0:00:20.978200	LOG	PULL_ACK: 02 7cbb 04
0:00:21.630975	LOG	First uplink received. Open reception window.
0:00:21.742738	LOG	PUSH_ACK: 02 22fc 01
0:00:21.744705	LOG	GPS Time from gateway: 1385107029584
0:00:21.745705	LOG	PUSH_DATA: Protocol version = 02, Token = 22fc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1483661961, 'time': '2023-11-27T07:56:50.584225Z', 'tmms': 1385107029584, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 8.2, 'foff': -3411, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAAQACSlsWxxLSRVKqj08='}]}
0:00:21.746710	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0001, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 52aa8f4f)
0:00:21.748716	LOG	Server <---------- DUT
0:00:21.752711	LOG	Over-The-Air Activation (OTAA) process has finished successfully
0:00:21.754711	LOG	Activation process has finished successfully
0:00:21.757257	LOG	Data stored in the DUT after Activation:
0:00:21.760990	LOG	DevAddr: 00000000
0:00:21.763983	LOG	AppEUI: 0000000000000000
0:00:21.767949	LOG	NwkSKey: 4ba84e2d3796ed7ab366ba541a6ef5f2
0:00:21.769949	LOG	AppSKey: 79882f871aab5762043dc0311d1f5ce5
0:00:21.773020	LOG	End Test Step: Device activation
0:00:21.776988	LOG	Partial Verdict: PASS
0:00:21.780988	LOG	==========
0:00:21.785022	LOG	==========
0:00:21.787557	LOG	Start Test Step: DUT Pre-condition settings
0:00:21.798564	LOG	DUT Pre-condition activation process starts
0:00:21.801637	LOG	Check FCntUp after reset process starts
0:00:21.809639	LOG	Check FCntUp after reset process complete
0:00:21.816107	LOG	Send Test Command DutResetReq process starts
0:00:21.819696	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0000, FOpts:), FPort: e0, FRMPayload: 01), MIC: b2c786aa)
0:00:21.821696	LOG	Frame command sent to the DUT

0:00:21.822695	LOG	PULL_RESP: Protocol version = 02, Token = 6dc0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1485661961, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAAADgxLLHhqo='}}
0:00:21.824697	LOG	Server ----------> DUT
0:00:21.828696	LOG	Send Test Command DutResetReq process completed
0:00:21.840701	LOG	Over-The-Air Activation (OTAA) process starts
0:00:21.855800	LOG	Waiting GPS time...
0:00:28.678827	LOG	First uplink received. Open reception window.
0:00:28.780269	LOG	PUSH_ACK: 02 e466 01
0:00:28.782269	LOG	GPS Time from gateway: 1385107036629
0:00:28.783268	LOG	PUSH_DATA: Protocol version = 02, Token = e466, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1490706504, 'time': '2023-11-27T07:56:57.628766Z', 'tmms': 1385107036629, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3407, 'rssi': -49, 'size': 23, 'data': 'AAAAAAAAAAAAAAAAAAAAAACAFkMecY='}]}
0:00:28.784268	LOG	DATA: (MHDR: 00, Join-Request: (AppEUI: 0000000000000000, DevEUI: 0000000000000000, DevNonce: 0002),MIC: 590c79c6)
0:00:28.786269	LOG	Server <---------- DUT
0:00:28.787775	LOG	DevNonce is greater than the previous in Join Request
0:00:28.788781	LOG	Previous DevNonce: 1
0:00:28.790782	LOG	Actual DevNonce: 2
0:00:28.791782	LOG	PHYPayload: (MHDR: 20, Join-Response: (JoinNonce: 020000, NetID: 000000, DevAddr: 00000000, DLSettings: 00, RxDelay: 01, CFList:), MIC: 1e8313f2)
0:00:28.794788	LOG	PULL_RESP: Protocol version = 02, Token = e008, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1495706504, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'IO+U5c8ZAc8EMP6XGVeC+n0='}}
0:00:28.795783	LOG	Server ----------> DUT
0:00:28.798784	LOG	TX_ACK: 02 e008 05 0016c001ff1025bf
0:00:31.105663	LOG	GPS Time updated: 1385107039056
0:00:31.106667	LOG	PULL_DATA: 02 da61 02 0016c001ff1025bf
0:00:31.108665	LOG	PULL_ACK: 02 da61 04
0:00:36.713951	LOG	First uplink received. Open reception window.
0:00:36.821429	LOG	PUSH_ACK: 02 0b63 01
0:00:36.823396	LOG	GPS Time from gateway: 1385107044671
0:00:36.824396	LOG	PUSH_DATA: Protocol version = 02, Token = 0b63, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1498748678, 'time': '2023-11-27T07:57:05.670939Z', 'tmms': 1385107044671, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 8.0, 'foff': -3412, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAAQACeEotR41EHnwiasI='}]}
0:00:36.825396	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0001, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7c226ac2)
0:00:36.827396	LOG	Server <---------- DUT
0:00:36.829908	LOG	Over-The-Air Activation (OTAA) process has finished successfully
0:00:36.832915	LOG	Activation process has finished successfully
0:00:36.834942	LOG	Data stored in the DUT after Activation:
0:00:36.837974	LOG	DevAddr: 00000000
0:00:36.840946	LOG	AppEUI: 0000000000000000
0:00:36.843947	LOG	NwkSKey: 8c24b0b872ab1846f5fd325913f72dcc
0:00:36.845981	LOG	AppSKey: 5041553c6e7e92892888d3813e4b531f
0:00:36.860525	LOG	Check FCntUp after reset process starts
0:00:36.867592	LOG	Check FCntUp after reset process complete
0:00:36.878562	LOG	Send Test Command TxPeriodicityChange process starts
0:00:36.880594	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0000, FOpts:), FPort: e0, FRMPayload: 0601), MIC: fad6440d)

0:00:36.883170	LOG	Frame command sent to the DUT
0:00:36.885147	LOG	PULL_RESP: Protocol version = 02, Token = ee4e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1500748678, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAAADgZFH61kQN'}}
0:00:36.886170	LOG	Server ----------> DUT
0:00:36.890138	LOG	Send Test Command TxPeriodicityChange process completed
0:00:36.894172	LOG	Check uplink frame type process starts
0:00:41.295840	LOG	GPS Time updated: 1385107049254
0:00:41.297839	LOG	PULL_DATA: 02 bc83 02 0016c001ff1025bf
0:00:41.298841	LOG	PULL_ACK: 02 bc83 04
0:00:46.237041	LOG	First uplink received. Open reception window.
0:00:46.341107	LOG	PUSH_ACK: 02 b469 01
0:00:46.343076	LOG	GPS Time from gateway: 1385107054184
0:00:46.344076	LOG	PUSH_DATA: Protocol version = 02, Token = b469, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1508261863, 'time': '2023-11-27T07:57:15.184122Z', 'tmms': 1385107054184, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.8, 'foff': -3403, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAAgAC3evELL7rf1EAEBM='}]}
0:00:46.345077	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0002, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 51001013)
0:00:46.347090	LOG	Server <---------- DUT
0:00:46.353585	LOG	Check ADR bit process starts
0:00:51.230319	LOG	First uplink received. Open reception window.
0:00:51.339070	LOG	PUSH_ACK: 02 2f3a 01
0:00:51.341038	LOG	GPS Time from gateway: 1385107059184
0:00:51.342071	LOG	PUSH_DATA: Protocol version = 02, Token = 2f3a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1513261609, 'time': '2023-11-27T07:57:20.183867Z', 'tmms': 1385107059184, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.2, 'foff': -3399, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAAwACeMKsjzJmq7qFdF8='}]}
0:00:51.343621	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0003, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ba85745f)
0:00:51.344661	LOG	Server <---------- DUT
0:00:51.347629	LOG	ADR bit in FCtrl field is set
0:00:51.353170	LOG	Send LinkADRReq process starts
0:00:51.377174	LOG	GPS Time updated: 1385107059330
0:00:51.378174	LOG	PULL_DATA: 02 ffaf 02 0016c001ff1025bf
0:00:51.380175	LOG	PULL_ACK: 02 ffaf 04
0:00:56.230922	LOG	Multiple frames received. Selecting the correct frame...
0:00:56.232907	LOG	Frame selected: {'jver': 1, 'tmst': 1518261356, 'time': '2023-11-27T07:57:25.183613Z', 'tmms': 1385107064183, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.2, 'foff': -3394, 'rssi': -49, 'size': 20, 'data': 'QAAAAACABAAC/R4ETlDMPNsi/B4='}
0:00:56.234912	LOG	#**********CURRENT BEACON SENT**********#
0:00:56.235917	LOG	PULL_RESP: Protocol version = 02, Token = ad35, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385107072000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACADo9SKLcAAAAAAAAAAA='}}
0:00:56.237918	LOG	Server ----------> DUT
0:00:56.238916	LOG	#**********#
0:00:56.248916	LOG	#**********NEXT BEACON QUEUED**********#

0:00:56.250420	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385107200000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAD49SIF0AAAAAAAAAAA='}}
0:00:56.252497	LOG	Server ----------> DUT
0:00:56.253461	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 000f8f52, CRC1: 205d, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385107200000
0:00:56.255462	LOG	#**********# ******#
0:00:56.256459	LOG	Next BEACON scheduled at GPS time (ms): 1385107328000
0:00:56.258463	LOG	First uplink received. Open reception window.
0:00:56.259585	LOG	TX_ACK: 02 ad35 05 0016c001ff1025bf
0:00:56.371079	LOG	PUSH_ACK: 02 2716 01
0:00:56.373047	LOG	GPS Time from gateway: 1385107064183
0:00:56.374047	LOG	PUSH_DATA: Protocol version = 02, Token = 2716, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1518261356, 'time': '2023-11-27T07:57:25.183613Z', 'tmms': 1385107064183, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -124, 'lsnr': -11.8, 'foff': -3393, 'rssi': -113, 'size': 20, 'data': 'QAAAAACABAAC/R4ETlDMPNsi/B4='}, {'jver': 1, 'tmst': 1518261356, 'time': '2023-11-27T07:57:25.183613Z', 'tmms': 1385107064183, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.2, 'foff': -3394, 'rssi': -49, 'size': 20, 'data': 'QAAAAACABAAC/R4ETlDMPNsi/B4='}]}
0:00:56.376060	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0004, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: db22fc1e)
0:00:56.378062	LOG	Server <---------- DUT
0:00:56.380063	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0001, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: b63d4ffc)
0:00:56.382063	LOG	PULL_RESP: Protocol version = 02, Token = 9685, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1520261356, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAAQAA6LTVNv22PU/8'}}
0:00:56.383570	LOG	Server ----------> DUT
0:00:56.386578	LOG	TX_ACK: 02 9685 05 0016c001ff1025bf
0:00:59.957820	LOG	First uplink received. Open reception window.
0:01:00.068826	LOG	PUSH_ACK: 02 93ac 01
0:01:00.071422	LOG	GPS Time from gateway: 1385107067921
0:01:00.073164	LOG	PUSH_DATA: Protocol version = 02, Token = 93ac, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1521999133, 'time': '2023-11-27T07:57:28.921388Z', 'tmms': 1385107067921, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3415, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCBQADBwLyZpZtoGd99sdlLg=='}]}
0:01:00.074671	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0005, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: f6c7652e)
0:01:00.075838	LOG	Server <---------- DUT
0:01:00.077879	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:00.078879	LOG	Command Answer: 0307
0:01:00.086436	LOG	MAC command communication completed
0:01:00.091485	LOG	Send Test Command DutVersionsReq process starts
0:01:01.417348	LOG	GPS Time updated: 1385107069381
0:01:01.418314	LOG	PULL_DATA: 02 071f 02 0016c001ff1025bf
0:01:01.420314	LOG	PULL_ACK: 02 071f 04
0:01:04.959865	LOG	First uplink received. Open reception window.
0:01:05.070032	LOG	PUSH_ACK: 02 b86d 01

0:01:05.071565	LOG	GPS Time from gateway: 1385107072921
0:01:05.072604	LOG	PUSH_DATA: Protocol version = 02, Token = b86d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1526998773, 'time': '2023-11-27T07:57:33.921029Z', 'tmms': 1385107072921, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3412, 'rssi': -50, 'size': 20, 'data': 'QAAAAACABgACEcuMPvBUzmC7+cA='}]}
0:01:05.074620	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0006, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 60bbf9c0)
0:01:05.075603	LOG	Server <---------- DUT
0:01:05.077604	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0002, FOpts:), FPort: e0, FRMPayload: 7f), MIC: cf6a3ca8)
0:01:05.078600	LOG	Frame command sent to the DUT
0:01:05.080614	LOG	PULL_RESP: Protocol version = 02, Token = c691, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1528998773, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAAgDg9M9qPKg='}}
0:01:05.081604	LOG	Server ----------> DUT
0:01:05.084604	LOG	TX_ACK: 02 c691 05 0016c001ff1025bf
0:01:08.227817	LOG	First uplink received. Open reception window.
0:01:08.341320	LOG	PUSH_ACK: 02 1134 01
0:01:08.343322	LOG	GPS Time from gateway: 1385107076190
0:01:08.344321	LOG	PUSH_DATA: Protocol version = 02, Token = 1134, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1530267764, 'time': '2023-11-27T07:57:37.190019Z', 'tmms': 1385107076190, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3419, 'rssi': -50, 'size': 26, 'data': 'QAAAAACABwDgbqfYeCLqoleQWYlb2PHiSkc='}]}
0:01:08.345320	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0007, FOpts:), FPort: e0, FRMPayload: 7f0103000001000400020100 03, MIC: f1e24a47)
0:01:08.346320	LOG	Server <---------- DUT
0:01:08.348336	LOG	Frame Command Payload in the Answer: 7f0103000001000400020100 03
0:01:08.351339	LOG	DUT Version received: 0103000001000400020100 03
0:01:08.354885	LOG	Send Test Command DutVersionsReq completed
0:01:08.357850	LOG	DUT Pre-condition activation completed
0:01:08.360452	LOG	End Test Step: DUT Pre-condition settings
0:01:08.365494	LOG	Partial Verdict: PASS
0:01:08.368496	LOG	==========
0:01:08.372501	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_000
0:01:08.374503	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_001_A	
Verdict	PASS	
Date	2023-11-27 08:57:39	
Description		
Technology Version	LCTT v3.11.0_R1 | GUI v2.6.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.3	
Test Specs Version	USv1.5.1/EUv1.6.2/KRv1.2.1/ASv1.1.1/INv1.1.1/ALL_Av1.6/ALL_Cv1.0/ ALL_Bv1.0/SCHCv1.1/ALPv1.0	
Project	ref-stack	
Project Creation Date	2023-10-04 09:10:20	
Sample		
Parameters	Addition of a single channel frequency	867.700
	Conformance	TRUE

Time Stamp (ms)	Event	Summary
0:00:00.008796	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_001_A
0:00:00.065417	LOG	==========
0:00:00.067551	LOG	Start Test Step: Device activation
0:00:00.155547	LOG	Activation process has finished successfully
0:00:00.157579	LOG	Data stored in the DUT after Activation:
0:00:00.160125	LOG	DevAddr: 00000000
0:00:00.163124	LOG	AppEUI: 0000000000000000
0:00:00.167125	LOG	NwkSKey: 8c24b0b872ab1846f5fd325913f72dcc
0:00:00.169629	LOG	AppSKey: 5041553c6e7e92892888d3813e4b531f
0:00:00.172669	LOG	End Test Step: Device activation
0:00:00.176673	LOG	Partial Verdict: PASS
0:00:00.180677	LOG	==========
0:00:00.185673	LOG	==========
0:00:00.187643	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.197217	LOG	DUT Pre-condition activation process starts
0:00:00.200251	LOG	DUT Pre-condition activation completed
0:00:00.203251	LOG	End Test Step: DUT Pre-condition settings
0:00:00.207297	LOG	Partial Verdict: PASS
0:00:00.211295	LOG	==========
0:00:00.216264	LOG	==========
0:00:00.218262	LOG	Start Test Step: Pre-Join Behaviour for Dynamic Channel (DC) plan devices
0:00:00.228883	LOG	Step 01
0:00:00.231860	LOG	Send Test Command JoinReq process starts
0:00:00.394209	LOG	GPS Time updated: 1385107076190
0:00:00.396250	LOG	PULL_DATA: 02 ef4f 02 0016c001ff1025bf
0:00:00.398216	LOG	PULL_ACK: 02 ef4f 04
0:00:03.759320	LOG	First uplink received. Open reception window.
0:00:03.872604	LOG	PUSH_ACK: 02 89d4 01
0:00:03.874071	LOG	GPS Time from gateway: 1385107082920
0:00:03.876081	LOG	PUSH_DATA: Protocol version = 02, Token = 89d4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1536998314, 'time': '2023-11-27T07:57:43.920568Z', 'tmms': 1385107082920, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3415, 'rssi': -50, 'size': 20, 'data': 'QAAAAACACAACMc0YlLPmlrTVoME='}]}
0:00:03.877081	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0008, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b4d5a0c1)
0:00:03.878586	LOG	Server <---------- DUT
0:00:03.880593	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0003, FOpts:), FPort: e0, FRMPayload: 02), MIC: 6d538ce8)
0:00:03.882592	LOG	Frame command sent to the DUT
0:00:03.884593	LOG	PULL_RESP: Protocol version = 02, Token = 18ea, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1538998314, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAAwDg0m1TjOg='}}
0:00:03.885625	LOG	Server ----------> DUT
0:00:03.910728	LOG	Send Test Command JoinReq process completed
0:00:03.915728	LOG	Step 02
0:00:03.918738	LOG	Expected frequencies to receive: {868.1, 868.3, 868.5}
0:00:08.450829	LOG	First uplink received. Open reception window.
0:00:08.565724	LOG	PUSH_ACK: 02 b663 01
0:00:08.567155	LOG	GPS Time from gateway: 1385107087599
0:00:08.569193	LOG	PUSH_DATA: Protocol version = 02, Token = b663, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1541677275, 'time': '2023-11-27T07:57:48.599528Z',

		'tmms': 1385107087599, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3423, 'rssi': -50, 'size': 23, 'data': 'AAAAAAAAAAAAAAAAAAAAAADAK3rsUk='}]}
0:00:08.570188	LOG	DATA: (MHDR: 00, Join-Request: (AppEUI: 0000000000000000, DevEUI: 0000000000000000, DevNonce: 0003),MIC: adebb149)
0:00:08.571187	LOG	Server <---------- DUT
0:00:08.573156	LOG	Correct RFU and Major bits in MHDR field
0:00:08.574187	LOG	868.5 MHz has been added to the received frequencies list
0:00:08.576160	LOG	Actual list: {868.5}
0:00:08.577188	LOG	Expected frequencies to receive: {868.1, 868.3, 868.5}
0:00:08.578195	LOG	Attempt 1/9
0:00:10.604223	LOG	GPS Time updated: 1385107089754
0:00:10.606191	LOG	PULL_DATA: 02 35c1 02 0016c001ff1025bf
0:00:10.607191	LOG	PULL_ACK: 02 35c1 04
0:00:16.171701	LOG	First uplink received. Open reception window.
0:00:16.278216	LOG	PUSH_ACK: 02 c7e4 01
0:00:16.280185	LOG	GPS Time from gateway: 1385107095315
0:00:16.281185	LOG	PUSH_DATA: Protocol version = 02, Token = c7e4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1549392963, 'time': '2023-11-27T07:57:56.315213Z', 'tmms': 1385107095315, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.0, 'foff': -3403, 'rssi': -49, 'size': 23, 'data': 'AAAAAAAAAAAAAAAAAAAAAAEAIRj+jA='}]}
0:00:16.282190	LOG	DATA: (MHDR: 00, Join-Request: (AppEUI: 0000000000000000, DevEUI: 0000000000000000, DevNonce: 0004),MIC: 8463fa30)
0:00:16.283190	LOG	Server <---------- DUT
0:00:16.285695	LOG	Correct RFU and Major bits in MHDR field
0:00:16.287205	LOG	DevNonce is greater than the previous in Join Request
0:00:16.288206	LOG	Previous DevNonce: 3
0:00:16.289208	LOG	Actual DevNonce: 4
0:00:16.291206	LOG	868.3 MHz has been added to the received frequencies list
0:00:16.293206	LOG	Actual list: {868.3, 868.5}
0:00:16.295207	LOG	Expected frequencies to receive: {868.1, 868.3, 868.5}
0:00:16.296206	LOG	Attempt 2/9
0:00:20.684811	LOG	GPS Time updated: 1385107099828
0:00:20.686774	LOG	PULL_DATA: 02 2483 02 0016c001ff1025bf
0:00:20.687773	LOG	PULL_ACK: 02 2483 04
0:00:23.885546	LOG	First uplink received. Open reception window.
0:00:24.001518	LOG	PUSH_ACK: 02 67d8 01
0:00:24.003486	LOG	GPS Time from gateway: 1385107103031
0:00:24.004992	LOG	PUSH_DATA: Protocol version = 02, Token = 67d8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1557108630, 'time': '2023-11-27T07:58:04.030880Z', 'tmms': 1385107103031, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.0, 'foff': -3397, 'rssi': -49, 'size': 23, 'data': 'AAAAAAAAAAAAAAAAAAAAAAFAOSy2eo='}]}
0:00:24.005999	LOG	DATA: (MHDR: 00, Join-Request: (AppEUI: 0000000000000000, DevEUI: 0000000000000000, DevNonce: 0005),MIC: e4b2d9ea)
0:00:24.006998	LOG	Server <---------- DUT
0:00:24.008999	LOG	Correct RFU and Major bits in MHDR field
0:00:24.011008	LOG	DevNonce is greater than the previous in Join Request
0:00:24.013006	LOG	Previous DevNonce: 4
0:00:24.014999	LOG	Actual DevNonce: 5
0:00:24.016004	LOG	868.1 MHz has been added to the received frequencies list
0:00:24.018015	LOG	Actual list: {868.1, 868.3, 868.5}
0:00:24.019000	LOG	Expected frequencies to receive: {868.1, 868.3, 868.5}
0:00:24.020035	LOG	Attempt 3/9

0:00:24.021072	LOG	Data Rates saved from the valid Join Requests: {'packet_0': 'SF12BW125', 'packet_1': 'SF12BW125', 'packet_2': 'SF12BW125'}
0:00:24.026252	LOG	Step 03-04
0:00:24.034295	LOG	Over-The-Air Activation (OTAA) process starts
0:00:24.048668	LOG	Waiting GPS time...
0:00:30.766070	LOG	GPS Time updated: 1385107109963
0:00:30.767954	LOG	PULL_DATA: 02 12ec 02 0016c001ff1025bf
0:00:30.769462	LOG	PULL_ACK: 02 12ec 04
0:00:31.606772	LOG	First uplink received. Open reception window.
0:00:31.709501	LOG	PUSH_ACK: 02 4539 01
0:00:31.711502	LOG	GPS Time from gateway: 1385107110746
0:00:31.712503	LOG	PUSH_DATA: Protocol version = 02, Token = 4539, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1564823868, 'time': '2023-11-27T07:58:11.746117Z', 'tmms': 1385107110746, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3392, 'rssi': -49, 'size': 23, 'data': 'AAAAAAAAAAAAAAAAAAAAAAGAJibruo='}]}
0:00:31.713502	LOG	DATA: (MHDR: 00, Join-Request: (AppEUI: 0000000000000000, DevEUI: 0000000000000000, DevNonce: 0006),MIC: 989baeea)
0:00:31.715470	LOG	Server <---------- DUT
0:00:31.716503	LOG	DevNonce is greater than the previous in Join Request
0:00:31.717502	LOG	Previous DevNonce: 5
0:00:31.718503	LOG	Actual DevNonce: 6
0:00:31.720502	LOG	PHYPayload: (MHDR: 20, Join-Response: (JoinNonce: 030000, NetID: 000000, DevAddr: 00000000, DLSettings: 00, RxDelay: 01, CFList:), MIC: 06a9ea9a)
0:00:31.721502	LOG	PULL_RESP: Protocol version = 02, Token = bee0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1569823868, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'IJOcZrz9h5G3lOUm+NsQcw4='}}
0:00:31.723502	LOG	Server ----------> DUT
0:00:31.731643	LOG	TX_ACK: 02 bee0 05 0016c001ff1025bf
0:00:40.837967	LOG	Multiple frames received. Selecting the correct frame...
0:00:40.838998	LOG	Frame selected: {'jver': 1, 'tmst': 1574054296, 'time': '2023-11-27T07:58:20.976543Z', 'tmms': 1385107119976, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3395, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAAQAC28kU0zc9U8EznTk='}
0:00:40.840968	LOG	First uplink received. Open reception window.
0:00:40.948407	LOG	PUSH_ACK: 02 e50a 01
0:00:40.950377	LOG	GPS Time from gateway: 1385107119976
0:00:40.951407	LOG	PUSH_DATA: Protocol version = 02, Token = e50a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1574054296, 'time': '2023-11-27T07:58:20.976543Z', 'tmms': 1385107119976, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3395, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAAQAC28kU0zc9U8EznTk='}, {'jver': 1, 'tmst': 1574054297, 'time': '2023-11-27T07:58:20.976544Z', 'tmms': 1385107119976, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -126, 'lsnr': -13.5, 'foff': -3395, 'rssi': -113, 'size': 20, 'data': 'QAAAAACAAQAC28kU0zc9U8EznTk='}]}
0:00:40.953375	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0001, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c1339d39)
0:00:40.954408	LOG	Server <---------- DUT
0:00:40.957408	LOG	Over-The-Air Activation (OTAA) process has finished successfully
0:00:40.959792	LOG	Activation process has finished successfully
0:00:40.961861	LOG	Data stored in the DUT after Activation:
0:00:40.963904	LOG	DevAddr: 00000000
0:00:40.966906	LOG	AppEUI: 0000000000000000

0:00:40.969904	LOG	NwkSKey: d958bf3ab5f354d1ce07e5909746391b
0:00:40.972909	LOG	AppSKey: fe6e4e9491ac355e00219d50bdadce33
0:00:40.977422	LOG	Step 04-08
0:00:40.981428	LOG	Check FCntUp after reset process starts
0:00:40.989421	LOG	Check FCntUp after reset process complete
0:00:41.001373	LOG	Send Test Command TxPeriodicityChange process starts
0:00:41.004210	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0000, FOpts:), FPort: e0, FRMPayload: 0601), MIC: be22c03a)
0:00:41.005754	LOG	Frame command sent to the DUT
0:00:41.006793	LOG	PULL_RESP: Protocol version = 02, Token = ce94, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1576054296, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAAADgO0C+IsA6'}}
0:00:41.008792	LOG	Server ----------> DUT
0:00:41.012287	LOG	Send Test Command TxPeriodicityChange process completed
0:00:41.016276	LOG	Check uplink frame type process starts
0:00:50.347678	LOG	First uplink received. Open reception window.
0:00:50.453636	LOG	PUSH_ACK: 02 7709 01
0:00:50.456182	LOG	GPS Time from gateway: 1385107129490
0:00:50.457782	LOG	PUSH_DATA: Protocol version = 02, Token = 7709, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1583567660, 'time': '2023-11-27T07:58:30.489905Z', 'tmms': 1385107129490, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.0, 'foff': -3396, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAAgAC/+vyavx87Gu1m/E='}]}
0:00:50.459519	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0002, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6bb59bf1)
0:00:50.460644	LOG	Server <---------- DUT
0:00:50.467456	LOG	Check ADR bit process starts
0:00:51.087342	LOG	GPS Time updated: 1385107130229
0:00:51.088335	LOG	PULL_DATA: 02 d1a5 02 0016c001ff1025bf
0:00:51.090337	LOG	PULL_ACK: 02 d1a5 04
0:00:55.344076	LOG	Multiple frames received. Selecting the correct frame...
0:00:55.346077	LOG	Frame selected: {'jver': 1, 'tmst': 1588567414, 'time': '2023-11-27T07:58:35.489658Z', 'tmms': 1385107134489, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3391, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAAwAC7+LqOzXmux0RFzY='}
0:00:55.347702	LOG	First uplink received. Open reception window.
0:00:55.449870	LOG	PUSH_ACK: 02 96c1 01
0:00:55.451838	LOG	GPS Time from gateway: 1385107134489
0:00:55.452838	LOG	PUSH_DATA: Protocol version = 02, Token = 96c1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1588567414, 'time': '2023-11-27T07:58:35.489658Z', 'tmms': 1385107134489, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3391, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAAwAC7+LqOzXmux0RFzY='}, {'jver': 1, 'tmst': 1588567423, 'time': '2023-11-27T07:58:35.489667Z', 'tmms': 1385107134489, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.2, 'foff': -3420, 'rssi': -113, 'size': 20, 'data': 'QAAAAACAAwAC7+LqOzXmux0RFzY='}]}
0:00:55.453838	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0003, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1d111736)
0:00:55.455839	LOG	Server <---------- DUT
0:00:55.458839	LOG	ADR bit in FCtrl field is set
0:00:55.463844	LOG	Send LinkADRReq process starts
0:01:00.348924	LOG	Multiple frames received. Selecting the correct frame...

0:01:00.350926	LOG	Frame selected: {'jver': 1, 'tmst': 1593567157, 'time': '2023-11-27T07:58:40.489400Z', 'tmms': 1385107139489, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.0, 'foff': -3387, 'rssi': -49, 'size': 20, 'data': 'QAAAAACABAACaQhDmkMsY8OAH7s='}
0:01:00.351925	LOG	First uplink received. Open reception window.
0:01:00.456016	LOG	PUSH_ACK: 02 95aa 01
0:01:00.458764	LOG	GPS Time from gateway: 1385107139489
0:01:00.460386	LOG	PUSH_DATA: Protocol version = 02, Token = 95aa, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1593567157, 'time': '2023-11-27T07:58:40.489400Z', 'tmms': 1385107139489, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.0, 'foff': -3387, 'rssi': -49, 'size': 20, 'data': 'QAAAAACABAACaQhDmkMsY8OAH7s='}, {'jver': 1, 'tmst': 1593567158, 'time': '2023-11-27T07:58:40.489401Z', 'tmms': 1385107139489, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.0, 'foff': -3386, 'rssi': -113, 'size': 20, 'data': 'QAAAAACABAACaQhDmkMsY8OAH7s='}]}
0:01:00.462208	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0004, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c3801fbb)
0:01:00.463752	LOG	Server <---------- DUT
0:01:00.465931	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0001, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: 928dc731)
0:01:00.467637	LOG	PULL_RESP: Protocol version = 02, Token = 1d31, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1595567157, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAAQAAksGuwNCSjccx'}}
0:01:00.468750	LOG	Server ----------> DUT
0:01:00.472001	LOG	TX_ACK: 02 1d31 05 0016c001ff1025bf
0:01:01.096964	LOG	GPS Time updated: 1385107140234
0:01:01.098930	LOG	PULL_DATA: 02 82ca 02 0016c001ff1025bf
0:01:01.101440	LOG	PULL_ACK: 02 82ca 04
0:01:05.341229	LOG	First uplink received. Open reception window.
0:01:05.446888	LOG	PUSH_ACK: 02 6c49 01
0:01:05.448855	LOG	GPS Time from gateway: 1385107144498
0:01:05.449855	LOG	PUSH_DATA: Protocol version = 02, Token = 6c49, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1598576421, 'time': '2023-11-27T07:58:45.498662Z', 'tmms': 1385107144498, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3393, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCBQADBwKqtHvXkccMFRWD5g=='}]}
0:01:05.451855	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0005, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 151583e6)
0:01:05.452855	LOG	Server <---------- DUT
0:01:05.454863	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:05.456854	LOG	Command Answer: 0307
0:01:05.463922	LOG	MAC command communication completed
0:01:05.469898	LOG	Step 09
0:01:05.472899	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:01:10.127596	LOG	First uplink received. Open reception window.
0:01:10.235963	LOG	PUSH_ACK: 02 ae90 01
0:01:10.237930	LOG	GPS Time from gateway: 1385107149280
0:01:10.238930	LOG	PUSH_DATA: Protocol version = 02, Token = ae90, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1603358257, 'time': '2023-11-27T07:58:50.280497Z', 'tmms': 1385107149280, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3400, 'rssi': -50, 'size': 20, 'data': 'QAAAAACABgACOUz2aHhxiDHWcNc='}]}

0:01:10.239931	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0006, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 31d670d7)
0:01:10.241931	LOG	Server <---------- DUT
0:01:10.242931	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0002, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 5e4673b4)
0:01:10.245442	LOG	Frame command sent to the DUT
0:01:10.246442	LOG	PULL_RESP: Protocol version = 02, Token = 1f59, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1605358257, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAAgDgz8BeRnO0'}}
0:01:10.247442	LOG	Server ----------> DUT
0:01:10.250444	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:01:10.254444	LOG	Step 10-13
0:01:10.257518	LOG	Send Test Command JoinReq process starts
0:01:11.298483	LOG	GPS Time updated: 1385107150450
0:01:11.299484	LOG	PULL_DATA: 02 cd16 02 0016c001ff1025bf
0:01:11.300484	LOG	PULL_ACK: 02 cd16 04
0:01:15.124740	LOG	First uplink received. Open reception window.
0:01:15.233791	LOG	PUSH_ACK: 02 68ba 01
0:01:15.235795	LOG	GPS Time from gateway: 1385107154280
0:01:15.236796	LOG	PUSH_DATA: Protocol version = 02, Token = 68ba, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1608358019, 'time': '2023-11-27T07:58:55.280260Z', 'tmms': 1385107154280, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3400, 'rssi': -51, 'size': 20, 'data': 'QAAAAACABwACU78S0VhkyhXqYBE='}]}
0:01:15.237796	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0007, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 15ea6011)
0:01:15.238795	LOG	Server <---------- DUT
0:01:15.240797	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0003, FOpts:), FPort: e0, FRMPayload: 02), MIC: 3275bd60)
0:01:15.242796	LOG	Frame command sent to the DUT
0:01:15.243801	LOG	PULL_RESP: Protocol version = 02, Token = abf0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1610358019, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAAwDgpTJ1vWA='}}
0:01:15.244797	LOG	Server ----------> DUT
0:01:15.271842	LOG	Send Test Command JoinReq process completed
0:01:15.275912	LOG	Step 13-14
0:01:15.281910	LOG	Send Join Accept process starts
0:01:15.288913	LOG	Waiting GPS time...
0:01:19.823692	LOG	Multiple frames received. Selecting the correct frame...
0:01:19.824691	LOG	Frame selected: {'jver': 1, 'tmst': 1613036792, 'time': '2023-11-27T07:58:59.959032Z', 'tmms': 1385107158959, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.8, 'foff': -3417, 'rssi': -49, 'size': 23, 'data': 'AAAAAAAAAAAAAAAAAAAAAAAHANm7gZM='}
0:01:19.826729	LOG	First uplink received. Open reception window.
0:01:19.929663	LOG	PUSH_ACK: 02 ac7a 01
0:01:19.931631	LOG	GPS Time from gateway: 1385107158959
0:01:19.932633	LOG	PUSH_DATA: Protocol version = 02, Token = ac7a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1613036792, 'time': '2023-11-27T07:58:59.959032Z', 'tmms': 1385107158959, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.8, 'foff': -3417, 'rssi': -49, 'size': 23, 'data': 'AAAAAAAAAAAAAAAAAAAAAAAHANm7gZM='}, {'jver': 1, 'tmst': 1613036793, 'time': '2023-11-27T07:58:59.959033Z', 'tmms': 1385107158959, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 3, 'stat': 1, 'modu': 'LORA',

		'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -126, 'lsnr': -13.5, 'foff': -3417, 'rssi': -113, 'size': 23, 'data': 'AAAAAAAAAAAAAAAAAAAAAAAHANm7gZM='}]}
0:01:19.933637	LOG	DATA: (MHDR: 00, Join-Request: (AppEUI: 0000000000000000, DevEUI: 0000000000000000, DevNonce: 0007),MIC: d9bb8193)
0:01:19.935648	LOG	Server <---------- DUT
0:01:19.936638	LOG	DevNonce is greater than the previous in Join Request
0:01:19.937671	LOG	Previous DevNonce: 6
0:01:19.939670	LOG	Actual DevNonce: 7
0:01:19.940675	LOG	PHYPayload: (MHDR: 20, Join-Response: (JoinNonce: 030000, NetID: 000000, DevAddr: 00000000, DLSettings: 00, RxDelay: 01, CFList:), MIC: 06a9ea9a)
0:01:19.942660	LOG	PULL_RESP: Protocol version = 02, Token = 23ce, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1619036792, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'IJOcZrz9h5G3lOUm+NsQcw4='}}
0:01:19.943640	LOG	Server ----------> DUT
0:01:19.949738	LOG	TX_ACK: 02 23ce 05 0016c001ff1025bf
0:01:21.408413	LOG	GPS Time updated: 1385107160542
0:01:21.410384	LOG	PULL_DATA: 02 a6f2 02 0016c001ff1025bf
0:01:21.411661	LOG	PULL_ACK: 02 a6f2 04
0:01:28.494990	LOG	First uplink received. Open reception window.
0:01:28.607950	LOG	PUSH_ACK: 02 ca99 01
0:01:28.609917	LOG	GPS Time from gateway: 1385107167635
0:01:28.610917	LOG	PUSH_DATA: Protocol version = 02, Token = ca99, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1621713029, 'time': '2023-11-27T07:59:08.635267Z', 'tmms': 1385107167635, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3414, 'rssi': -50, 'size': 23, 'data': 'AAAAAAAAAAAAAAAAAAAAAAIADVXhPw='}]}
0:01:28.611917	LOG	DATA: (MHDR: 00, Join-Request: (AppEUI: 0000000000000000, DevEUI: 0000000000000000, DevNonce: 0008),MIC: 355784fc)
0:01:28.613918	LOG	Server <---------- DUT
0:01:28.614918	LOG	DevNonce is greater than the previous in Join Request
0:01:28.616918	LOG	Previous DevNonce: 7
0:01:28.617918	LOG	Actual DevNonce: 8
0:01:28.623925	LOG	Step 14-15
0:01:28.628924	LOG	Send Join Accept process starts
0:01:28.636437	LOG	Waiting GPS time...
0:01:31.489353	LOG	GPS Time updated: 1385107170665
0:01:31.490353	LOG	PULL_DATA: 02 b2c2 02 0016c001ff1025bf
0:01:31.492322	LOG	PULL_ACK: 02 b2c2 04
0:01:36.207918	LOG	First uplink received. Open reception window.
0:01:36.315502	LOG	PUSH_ACK: 02 372a 01
0:01:36.317469	LOG	GPS Time from gateway: 1385107175351
0:01:36.318502	LOG	PUSH_DATA: Protocol version = 02, Token = 372a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1629428924, 'time': '2023-11-27T07:59:16.351161Z', 'tmms': 1385107175351, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3397, 'rssi': -50, 'size': 23, 'data': 'AAAAAAAAAAAAAAAAAAAAAAJAFG2g/M='}]}
0:01:36.319501	LOG	DATA: (MHDR: 00, Join-Request: (AppEUI: 0000000000000000, DevEUI: 0000000000000000, DevNonce: 0009),MIC: 51b683f3)
0:01:36.321502	LOG	Server <---------- DUT
0:01:36.323051	LOG	DevNonce is greater than the previous in Join Request
0:01:36.324079	LOG	Previous DevNonce: 8
0:01:36.326050	LOG	Actual DevNonce: 9
0:01:36.328051	LOG	PHYPayload: (MHDR: 20, Join-Response: (JoinNonce: 210000, NetID: 000000, DevAddr: 00000000, DLSettings: 00, RxDelay: 01, CFList:), MIC: 30dc369e)

0:01:36.330051	LOG	PULL_RESP: Protocol version = 02, Token = 95ad, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1635428924, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'IFo4ou1FpmBwXTnw+Rv+CUo='}}
0:01:36.332051	LOG	Server ----------> DUT
0:01:36.335050	LOG	TX_ACK: 02 95ad 05 0016c001ff1025bf
0:01:41.579544	LOG	GPS Time updated: 1385107180723
0:01:41.581518	LOG	PULL_DATA: 02 cb08 02 0016c001ff1025bf
0:01:41.583520	LOG	PULL_ACK: 02 cb08 04
0:01:46.404725	LOG	Multiple frames received. Selecting the correct frame...
0:01:46.406725	LOG	Frame selected: {'jver': 1, 'tmst': 1639618599, 'time': '2023-11-27T07:59:26.540834Z', 'tmms': 1385107185541, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 8.5, 'foff': -3399, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAAQACKIhbcwurvJFZHx4='}
0:01:46.408730	LOG	First uplink received. Open reception window.
0:01:46.513179	LOG	PUSH_ACK: 02 cf61 01
0:01:46.515179	LOG	GPS Time from gateway: 1385107185541
0:01:46.516176	LOG	PUSH_DATA: Protocol version = 02, Token = cf61, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1639618599, 'time': '2023-11-27T07:59:26.540834Z', 'tmms': 1385107185541, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 8.5, 'foff': -3399, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAAQACKIhbcwurvJFZHx4='}, {'jver': 1, 'tmst': 1639618602, 'time': '2023-11-27T07:59:26.540837Z', 'tmms': 1385107185541, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -127, 'lsnr': -15.0, 'foff': -3398, 'rssi': -113, 'size': 20, 'data': 'QAAAAACAAQACKIhbcwurvJFZHx4='}]}
0:01:46.517177	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0001, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 91591f1e)
0:01:46.519178	LOG	Server <---------- DUT
0:01:46.522373	LOG	Join Accept message has been sent successfully
0:01:46.524415	LOG	Check FCntUp after reset process starts
0:01:46.531422	LOG	Check FCntUp after reset process complete
0:01:46.535422	LOG	Step 15-18
0:01:46.548937	LOG	Send Test Command TxPeriodicityChange process starts
0:01:46.552934	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0000, FOpts:), FPort: e0, FRMPayload: 0601), MIC: 37d3872a)
0:01:46.554970	LOG	Frame command sent to the DUT
0:01:46.555972	LOG	PULL_RESP: Protocol version = 02, Token = c76b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1641618599, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAAADgC7c304cq'}}
0:01:46.558012	LOG	Server ----------> DUT
0:01:46.560007	LOG	Send Test Command TxPeriodicityChange process completed
0:01:46.563976	LOG	Check uplink frame type process starts
0:01:51.600632	LOG	#**********CURRENT BEACON SENT**********#
0:01:51.601638	LOG	PULL_RESP: Protocol version = 02, Token = 621d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385107200000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAD49SIF0AAAAAAAAAAA='}}
0:01:51.602632	LOG	Server ----------> DUT
0:01:51.605142	LOG	#**********#
0:01:51.615141	LOG	#**********NEXT BEACON QUEUED**********#

0:01:51.616141	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385107328000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAD49SGIAAAAAAAAAAAAA='}}
0:01:51.618193	LOG	Server --------------------> DUT
0:01:51.619176	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 800f8f52, CRC1: 1880, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385107328000
0:01:51.620180	LOG	#**#
0:01:51.622187	LOG	Next BEACON scheduled at GPS time (ms): 1385107456000
0:01:51.623218	LOG	GPS Time updated: 1385107190756
0:01:51.624217	LOG	PULL_DATA: 02 c9c3 02 0016c001ff1025bf
0:01:51.625218	LOG	PULL_ACK: 02 c9c3 04
0:01:51.627222	LOG	TX_ACK: 02 621d 05 0016c001ff1025bf
0:01:55.919239	LOG	Multiple frames received. Selecting the correct frame...
0:01:55.920256	LOG	Frame selected: {'jver': 1, 'tmst': 1649131775, 'time': '2023-11-27T07:59:36.054006Z', 'tmms': 1385107195054, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.2, 'foff': -3394, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAAgACgBI++/cWR+kpG9s='}
0:01:55.922237	LOG	First uplink received. Open reception window.
0:01:56.037566	LOG	PUSH_ACK: 02 805e 01
0:01:56.039534	LOG	GPS Time from gateway: 1385107195054
0:01:56.040553	LOG	PUSH_DATA: Protocol version = 02, Token = 805e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1649131775, 'time': '2023-11-27T07:59:36.054006Z', 'tmms': 1385107195054, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.2, 'foff': -3394, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAAgACgBI++/cWR+kpG9s='}, {'jver': 1, 'tmst': 1649131776, 'time': '2023-11-27T07:59:36.054007Z', 'tmms': 1385107195054, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -126, 'lsnr': -13.2, 'foff': -3393, 'rssi': -113, 'size': 20, 'data': 'QAAAAACAAgACgBI++/cWR+kpG9s='}]}
0:01:56.042635	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0002, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e9291bdb)
0:01:56.043637	LOG	Server <-------------------- DUT
0:01:56.050150	LOG	Check ADR bit process starts
0:02:00.915172	LOG	First uplink received. Open reception window.
0:02:01.017574	LOG	PUSH_ACK: 02 28da 01
0:02:01.019542	LOG	GPS Time from gateway: 1385107200053
0:02:01.020543	LOG	PUSH_DATA: Protocol version = 02, Token = 28da, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1654131520, 'time': '2023-11-27T07:59:41.053750Z', 'tmms': 1385107200053, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 7.2, 'foff': -3389, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAAwACO4CJ6FBwDv5mTDw='}]}
0:02:01.022543	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0003, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fe664c3c)
0:02:01.023544	LOG	Server <-------------------- DUT
0:02:01.026575	LOG	ADR bit in FCtrl field is set
0:02:01.031613	LOG	Send LinkADRReq process starts
0:02:01.700542	LOG	GPS Time updated: 1385107200838
0:02:01.702541	LOG	PULL_DATA: 02 4cd7 02 0016c001ff1025bf
0:02:01.704511	LOG	PULL_ACK: 02 4cd7 04
0:02:05.915473	LOG	Multiple frames received. Selecting the correct frame...
0:02:05.916471	LOG	Frame selected: {'jver': 1, 'tmst': 1659131279, 'time': '2023-11-27T07:59:46.053508Z', 'tmms': 1385107205053, 'chan': 1, 'rfch': 1, 'freq': 868.3,

		'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3386, 'rssi': -50, 'size': 20, 'data': 'QAAAAACABAACDzrmUR+ZER718nU='}
0:02:05.919472	LOG	First uplink received. Open reception window.
0:02:06.030394	LOG	PUSH_ACK: 02 6a19 01
0:02:06.032363	LOG	GPS Time from gateway: 1385107205053
0:02:06.034368	LOG	PUSH_DATA: Protocol version = 02, Token = 6a19, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1659131279, 'time': '2023-11-27T07:59:46.053508Z', 'tmms': 1385107205053, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3386, 'rssi': -50, 'size': 20, 'data': 'QAAAAACABAACDzrmUR+ZER718nU='}, {'jver': 1, 'tmst': 1659131279, 'time': '2023-11-27T07:59:46.053508Z', 'tmms': 1385107205053, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -126, 'lsnr': -13.2, 'foff': -3385, 'rssi': -113, 'size': 20, 'data': 'QAAAAACABAACDzrmUR+ZER718nU='}]}
0:02:06.035367	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0004, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1ef5f275)
0:02:06.036368	LOG	Server <---------- DUT
0:02:06.038368	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0001, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: a93312b9)
0:02:06.040368	LOG	PULL_RESP: Protocol version = 02, Token = 6745, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1661131279, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAAQAA1i2oD32pMxK5'}}
0:02:06.041367	LOG	Server ----------> DUT
0:02:06.043910	LOG	TX_ACK: 02 6745 05 0016c001ff1025bf
0:02:10.941627	LOG	First uplink received. Open reception window.
0:02:11.044043	LOG	PUSH_ACK: 02 edd2 01
0:02:11.046054	LOG	GPS Time from gateway: 1385107210094
0:02:11.048044	LOG	PUSH_DATA: Protocol version = 02, Token = edd2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1664171625, 'time': '2023-11-27T07:59:51.093855Z', 'tmms': 1385107210094, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3396, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCBQADBwJ+TGdv1FL0KQ2NQg=='}]}
0:02:11.050047	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0005, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 290d8d42)
0:02:11.051077	LOG	Server <---------- DUT
0:02:11.053045	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:11.054079	LOG	Command Answer: 0307
0:02:11.061085	LOG	MAC command communication completed
0:02:11.067084	LOG	Step 19
0:02:11.070084	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:02:11.711987	LOG	GPS Time updated: 1385107210863
0:02:11.712987	LOG	PULL_DATA: 02 d399 02 0016c001ff1025bf
0:02:11.714987	LOG	PULL_ACK: 02 d399 04
0:02:15.719050	LOG	First uplink received. Open reception window.
0:02:15.824313	LOG	PUSH_ACK: 02 4c79 01
0:02:15.826350	LOG	GPS Time from gateway: 1385107214875
0:02:15.827352	LOG	PUSH_DATA: Protocol version = 02, Token = 4c79, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1668953588, 'time': '2023-11-27T07:59:55.875818Z', 'tmms': 1385107214875, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3393, 'rssi': -51, 'size': 20, 'data': 'QAAAAACABgACtstuuqev6kPBpNA='}]}
0:02:15.828351	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0006, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 43c1a4d0)

0:02:15.830319	LOG	Server <---------- DUT
0:02:15.831318	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0002, FOpts:), FPort: e0, FRMPayload: 0501), MIC: 8d3e0432)
0:02:15.833318	LOG	Frame command sent to the DUT
0:02:15.834352	LOG	PULL_RESP: Protocol version = 02, Token = 326d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1670953588, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAAgDgGiyNPgQy'}}
0:02:15.835351	LOG	Server ----------> DUT
0:02:15.838321	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:02:15.843323	LOG	End Test Step: Pre-Join Behaviour for Dynamic Channel (DC) plan devices
0:02:15.846323	LOG	Partial Verdict: PASS
0:02:15.850324	LOG	==========
0:02:15.854324	LOG	==========
0:02:15.857845	LOG	Start Test Step: LinkADRReq Join-Accept with DLSettings
0:02:15.869837	LOG	Step 01
0:02:15.872842	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:02:20.724387	LOG	First uplink received. Open reception window.
0:02:20.828977	LOG	PUSH_ACK: 02 8b00 01
0:02:20.830978	LOG	GPS Time from gateway: 1385107219875
0:02:20.831977	LOG	PUSH_DATA: Protocol version = 02, Token = 8b00, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1673953327, 'time': '2023-11-27T08:00:00.875556Z', 'tmms': 1385107219875, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3392, 'rssi': -50, 'size': 20, 'data': 'QAAAAACABwACXiaYWqc4EL1Bpk4='}]}
0:02:20.832978	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0007, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: bd41a64e)
0:02:20.834976	LOG	Server <---------- DUT
0:02:20.835978	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0003, FOpts:), FPort: e0, FRMPayload: 0500), MIC: b5753d3e)
0:02:20.837979	LOG	Frame command sent to the DUT
0:02:20.839947	LOG	PULL_RESP: Protocol version = 02, Token = 0942, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1675953327, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAAwDgiCO1dT0+'}}
0:02:20.840988	LOG	Server ----------> DUT
0:02:20.842984	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:02:20.846954	LOG	Step 02
0:02:20.849987	LOG	Send Test Command JoinReq process starts
0:02:21.892140	LOG	GPS Time updated: 1385107221043
0:02:21.893142	LOG	PULL_DATA: 02 2256 02 0016c001ff1025bf
0:02:21.895108	LOG	PULL_ACK: 02 2256 04
0:02:25.724146	LOG	First uplink received. Open reception window.
0:02:25.830360	LOG	PUSH_ACK: 02 9ad4 01
0:02:25.832359	LOG	GPS Time from gateway: 1385107224875
0:02:25.833360	LOG	PUSH_DATA: Protocol version = 02, Token = 9ad4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1678953093, 'time': '2023-11-27T08:00:05.875321Z', 'tmms': 1385107224875, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3407, 'rssi': -50, 'size': 20, 'data': 'QAAAAACACAACkYlPlAGCyXB9fEs='}]}
0:02:25.834360	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0008, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 707d7c4b)
0:02:25.835360	LOG	Server <---------- DUT
0:02:25.837360	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0004, FOpts:), FPort: e0, FRMPayload: 02), MIC: cf78f2dd)
0:02:25.839328	LOG	Frame command sent to the DUT

0:02:25.840359	LOG	PULL_RESP: Protocol version = 02, Token = c9b2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1680953093, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAABADgEs948t0='}}
0:02:25.841400	LOG	Server ----------> DUT
0:02:25.866981	LOG	Send Test Command JoinReq process completed
0:02:25.870906	LOG	Step 03
0:02:25.876941	LOG	Over-The-Air Activation (OTAA) process starts
0:02:25.891523	LOG	Waiting GPS time...
0:02:30.421200	LOG	Multiple frames received. Selecting the correct frame...
0:02:30.423169	LOG	Frame selected: {'jver': 1, 'tmst': 1683631636, 'time': '2023-11-27T08:00:10.553863Z', 'tmms': 1385107229554, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.5, 'foff': -3414, 'rssi': -50, 'size': 23, 'data': 'AAAAAAAAAAAAAAAAAAAAAAKADGi6YU='}
0:02:30.424168	LOG	First uplink received. Open reception window.
0:02:30.536401	LOG	PUSH_ACK: 02 fee4 01
0:02:30.538368	LOG	GPS Time from gateway: 1385107229554
0:02:30.539369	LOG	PUSH_DATA: Protocol version = 02, Token = fee4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1683631636, 'time': '2023-11-27T08:00:10.553863Z', 'tmms': 1385107229554, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.5, 'foff': -3414, 'rssi': -50, 'size': 23, 'data': 'AAAAAAAAAAAAAAAAAAAAAAKADGi6YU='}, {'jver': 1, 'tmst': 1683631645, 'time': '2023-11-27T08:00:10.553872Z', 'tmms': 1385107229554, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -128, 'lsnr': -15.5, 'foff': -3445, 'rssi': -113, 'size': 23, 'data': 'AAAAAAAAAAAAAAAAAAAAAAKADGi6YU='}]}
0:02:30.540374	LOG	DATA: (MHDR: 00, Join-Request: (AppEUI: 0000000000000000, DevEUI: 0000000000000000, DevNonce: 000a),MIC: 31a2e985)
0:02:30.542383	LOG	Server <---------- DUT
0:02:30.543890	LOG	DevNonce is greater than the previous in Join Request
0:02:30.544930	LOG	Previous DevNonce: 9
0:02:30.545928	LOG	Actual DevNonce: 10
0:02:30.547896	LOG	PHYPayload: (MHDR: 20, Join-Response: (JoinNonce: 220000, NetID: 000000, DevAddr: 00000000, DLSettings: 23, RxDelay: 01, CFList:), MIC: e6275449)
0:02:30.549909	LOG	PULL_RESP: Protocol version = 02, Token = 7771, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1689631636, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'ICAs4KtsMYk7WH7VF1q4hlw='}}
0:02:30.550929	LOG	Server ----------> DUT
0:02:30.555253	LOG	TX_ACK: 02 7771 05 0016c001ff1025bf
0:02:32.022541	LOG	GPS Time updated: 1385107231152
0:02:32.024508	LOG	PULL_DATA: 02 d9cd 02 0016c001ff1025bf
0:02:32.025512	LOG	PULL_ACK: 02 d9cd 04
0:02:42.001349	LOG	Multiple frames received. Selecting the correct frame...
0:02:42.003362	LOG	Frame selected: {'jver': 1, 'tmst': 1695214438, 'time': '2023-11-27T08:00:22.136663Z', 'tmms': 1385107241136, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3398, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAAQACSoOHmRvd3jDv+8Q='}
0:02:42.005352	LOG	First uplink received. Open reception window.
0:02:42.103010	LOG	PULL_DATA: 02 91c6 02 0016c001ff1025bf
0:02:42.104980	LOG	PULL_ACK: 02 91c6 04
0:02:42.106012	LOG	PUSH_ACK: 02 45a3 01
0:02:42.108098	LOG	GPS Time from gateway: 1385107241136

0:02:42.109129	LOG	PUSH_DATA: Protocol version = 02, Token = 45a3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1695214438, 'time': '2023-11-27T08:00:22.136663Z', 'tmms': 1385107241136, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3398, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAAQACSoOHmRvd3jDv+8Q='}, {'jver': 1, 'tmst': 1695214446, 'time': '2023-11-27T08:00:22.136671Z', 'tmms': 1385107241136, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -127, 'lsnr': -14.0, 'foff': -3396, 'rssi': -113, 'size': 20, 'data': 'QAAAAACAAQACSoOHmRvd3jDv+8Q='}]}
0:02:42.111129	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0001, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 30effbc4)
0:02:42.113098	LOG	Server <---------- DUT
0:02:42.117097	LOG	Over-The-Air Activation (OTAA) process has finished successfully
0:02:42.119124	LOG	Activation process has finished successfully
0:02:42.122098	LOG	Data stored in the DUT after Activation:
0:02:42.124427	LOG	DevAddr: 00000000
0:02:42.127069	LOG	AppEUI: 0000000000000000
0:02:42.129111	LOG	NwkSKey: 37ed3e6f6ea1f90d535bce1ffaf74518
0:02:42.132113	LOG	AppSKey: 1ebb135336d9eaabb8a4273878d80c56
0:02:42.135113	LOG	Check FCntUp after reset process starts
0:02:42.143138	LOG	Check FCntUp after reset process complete
0:02:42.148138	LOG	Step 04-08
0:02:42.158177	LOG	Send Test Command TxPeriodicityChange process starts
0:02:42.161145	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0000, FOpts:), FPort: e0, FRMPayload: 0601), MIC: 91e83703)
0:02:42.163185	LOG	Frame command sent to the DUT
0:02:42.164151	LOG	PULL_RESP: Protocol version = 02, Token = d1af, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1697214438, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAAADg4wqR6DcD'}}
0:02:42.166151	LOG	Server ----------> DUT
0:02:42.168190	LOG	Send Test Command TxPeriodicityChange process completed
0:02:42.171762	LOG	Check uplink frame type process starts
0:02:50.494772	LOG	First uplink received. Open reception window.
0:02:50.608133	LOG	PUSH_ACK: 02 01ff 01
0:02:50.610138	LOG	GPS Time from gateway: 1385107249631
0:02:50.611137	LOG	PUSH_DATA: Protocol version = 02, Token = 01ff, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1703709112, 'time': '2023-11-27T08:00:30.631334Z', 'tmms': 1385107249631, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.5, 'foff': -3392, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAAgACkisk3r8lCe9XoTo='}]}
0:02:50.613140	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0002, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ef57a13a)
0:02:50.614139	LOG	Server <---------- DUT
0:02:50.620139	LOG	Check ADR bit process starts
0:02:52.243763	LOG	GPS Time updated: 1385107251380
0:02:52.245728	LOG	PULL_DATA: 02 c92a 02 0016c001ff1025bf
0:02:52.246760	LOG	PULL_ACK: 02 c92a 04
0:02:55.495066	LOG	Multiple frames received. Selecting the correct frame...
0:02:55.496097	LOG	Frame selected: {'jver': 1, 'tmst': 1708708861, 'time': '2023-11-27T08:00:35.631084Z', 'tmms': 1385107254631, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.5, 'foff': -3388, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAAwAC/f+Jnpa0cD9KrCM='}
0:02:55.498068	LOG	First uplink received. Open reception window.
0:02:55.602729	LOG	PUSH_ACK: 02 d915 01

0:02:55.604696	LOG	GPS Time from gateway: 1385107254631
0:02:55.605697	LOG	PUSH_DATA: Protocol version = 02, Token = d915, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1708708854, 'time': '2023-11-27T08:00:35.631077Z', 'tmms': 1385107254631, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -126, 'lsnr': -13.8, 'foff': -3355, 'rssi': -113, 'size': 20, 'data': 'QAAAAACAAwAC/f+Jnpa0cD9KrCM='}, {'jver': 1, 'tmst': 1708708861, 'time': '2023-11-27T08:00:35.631084Z', 'tmms': 1385107254631, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.5, 'foff': -3388, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAAwAC/f+Jnpa0cD9KrCM='}]}
0:02:55.606701	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0003, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3f4aac23)
0:02:55.608205	LOG	Server <---------- DUT
0:02:55.611211	LOG	ADR bit in FCtrl field is set
0:02:55.618215	LOG	Send LinkADRReq process starts
0:03:00.498268	LOG	Multiple frames received. Selecting the correct frame...
0:03:00.499300	LOG	Frame selected: {'jver': 1, 'tmst': 1713708608, 'time': '2023-11-27T08:00:40.630830Z', 'tmms': 1385107259630, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.8, 'foff': -3384, 'rssi': -50, 'size': 20, 'data': 'QAAAAACABAACcBQU6gZpK4H8kVo='}
0:03:00.501286	LOG	First uplink received. Open reception window.
0:03:00.613662	LOG	PUSH_ACK: 02 2fee 01
0:03:00.615630	LOG	GPS Time from gateway: 1385107259630
0:03:00.616630	LOG	PUSH_DATA: Protocol version = 02, Token = 2fee, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1713708608, 'time': '2023-11-27T08:00:40.630830Z', 'tmms': 1385107259630, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.8, 'foff': -3384, 'rssi': -50, 'size': 20, 'data': 'QAAAAACABAACcBQU6gZpK4H8kVo='}, {'jver': 1, 'tmst': 1713708617, 'time': '2023-11-27T08:00:40.630839Z', 'tmms': 1385107259630, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -128, 'lsnr': -15.5, 'foff': -3414, 'rssi': -113, 'size': 20, 'data': 'QAAAAACABAACcBQU6gZpK4H8kVo='}]}
0:03:00.618631	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0004, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 81fc915a)
0:03:00.620631	LOG	Server <---------- DUT
0:03:00.622630	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0001, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: f7784fdc)
0:03:00.624631	LOG	PULL_RESP: Protocol version = 02, Token = 047f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1715708608, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAAQAAGlvkOwf3eE/c'}}
0:03:00.625636	LOG	Server ----------> DUT
0:03:00.628670	LOG	TX_ACK: 02 047f 05 0016c001ff1025bf
0:03:02.304015	LOG	GPS Time updated: 1385107261433
0:03:02.306015	LOG	PULL_DATA: 02 1502 02 0016c001ff1025bf
0:03:02.307985	LOG	PULL_ACK: 02 1502 04
0:03:04.309461	LOG	First uplink received. Open reception window.
0:03:04.420987	LOG	PUSH_ACK: 02 8761 01
0:03:04.422495	LOG	GPS Time from gateway: 1385107263459
0:03:04.424496	LOG	PUSH_DATA: Protocol version = 02, Token = 8761, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1717537072, 'time': '2023-11-27T08:00:44.459293Z', 'tmms': 1385107263459, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3381, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCBQADBwIc7dX992JgKQ4Ztg=='}]}
0:03:04.425496	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0005, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 290e19b6)

0:03:04.427497	LOG	Server <---------- DUT
0:03:04.428496	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:03:04.430496	LOG	Command Answer: 0307
0:03:04.437502	LOG	MAC command communication completed
0:03:04.443764	LOG	Step 08-09
0:03:04.448230	LOG	Send Test Command EchoPayloadReq process starts
0:03:09.216820	LOG	First uplink received. Open reception window.
0:03:09.327479	LOG	PUSH_ACK: 02 7c13 01
0:03:09.329671	LOG	GPS Time from gateway: 1385107268368
0:03:09.330670	LOG	PUSH_DATA: Protocol version = 02, Token = 7c13, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1722446013, 'time': '2023-11-27T08:00:49.368233Z', 'tmms': 1385107268368, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3385, 'rssi': -50, 'size': 20, 'data': 'QAAAAACABgACMgX1eJ2l0La86vE='}]}
0:03:09.331670	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0006, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b6bceaf1)
0:03:09.333638	LOG	Server <---------- DUT
0:03:09.334671	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0002, FOpts:), FPort: e0, FRMPayload: 08010203), MIC: a5577698)
0:03:09.336670	LOG	Frame command sent to the DUT
0:03:09.338638	LOG	PULL_RESP: Protocol version = 02, Token = 8521, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1723446013, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YAAAAAAAAgDg0j5F0KVXdpg='}}
0:03:09.339640	LOG	Server ----------> DUT
0:03:09.342672	LOG	TX_ACK: 02 8521 05 0016c001ff1025bf
0:03:10.463998	LOG	First uplink received. Open reception window.
0:03:10.566672	LOG	PUSH_ACK: 02 629e 01
0:03:10.568709	LOG	GPS Time from gateway: 1385107269609
0:03:10.569712	LOG	PUSH_DATA: Protocol version = 02, Token = 629e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1723686719, 'time': '2023-11-27T08:00:50.608939Z', 'tmms': 1385107269609, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3400, 'rssi': -50, 'size': 17, 'data': 'QAAAAACABwDgIrK1cCaYfJg='}]}
0:03:10.571678	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0007, FOpts:), FPort: e0, FRMPayload: 08020304, MIC: 26987c98)
0:03:10.572711	LOG	Server <---------- DUT
0:03:10.574726	LOG	Frame Command Payload in the Answer: 08020304
0:03:10.578973	LOG	Checking if the payload of the EchoPayloadAns is correct
0:03:10.583012	LOG	Send Test Command EchoPayloadReq process completed
0:03:10.586972	LOG	Step 09-10
0:03:10.593349	LOG	Send Test Command EchoPayloadReq process starts
0:03:12.485047	LOG	GPS Time updated: 1385107271631
0:03:12.486047	LOG	PULL_DATA: 02 69fc 02 0016c001ff1025bf
0:03:12.488047	LOG	PULL_ACK: 02 69fc 04
0:03:14.222856	LOG	First uplink received. Open reception window.
0:03:14.333443	LOG	PUSH_ACK: 02 7281 01
0:03:14.335447	LOG	GPS Time from gateway: 1385107273368
0:03:14.336448	LOG	PUSH_DATA: Protocol version = 02, Token = 7281, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1727445791, 'time': '2023-11-27T08:00:54.368010Z', 'tmms': 1385107273368, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3400, 'rssi': -50, 'size': 20, 'data': 'QAAAAACACAACKdSUZ4DNtmmSHIs='}]}
0:03:14.337444	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0008, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 69921c8b)

0:03:14.339412	LOG	Server <---------- DUT
0:03:14.341444	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0003, FOpts:), FPort: e0, FRMPayload: 080a0b0c), MIC: f64190eb)
0:03:14.342412	LOG	Frame command sent to the DUT
0:03:14.344451	LOG	PULL_RESP: Protocol version = 02, Token = 1a24, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1729445791, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YAAAAAAAAwDgo7eFcPZBkOs='}}
0:03:14.345486	LOG	Server ----------> DUT
0:03:14.347477	LOG	TX_ACK: 02 1a24 05 0016c001ff1025bf
0:03:16.460026	LOG	First uplink received. Open reception window.
0:03:16.577701	LOG	PUSH_ACK: 02 cd71 01
0:03:16.579706	LOG	GPS Time from gateway: 1385107275608
0:03:16.580705	LOG	PUSH_DATA: Protocol version = 02, Token = cd71, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1729686598, 'time': '2023-11-27T08:00:56.608817Z', 'tmms': 1385107275608, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3404, 'rssi': -49, 'size': 17, 'data': 'QAAAAACACQDgsia7j14XzFc='}]}
0:03:16.582706	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0009, FOpts:), FPort: e0, FRMPayload: 080b0c0d, MIC: 5e17cc57)
0:03:16.583706	LOG	Server <---------- DUT
0:03:16.585757	LOG	Frame Command Payload in the Answer: 080b0c0d
0:03:16.589705	LOG	Checking if the payload of the EchoPayloadAns is correct
0:03:16.593708	LOG	Send Test Command EchoPayloadReq process completed
0:03:16.596714	LOG	Step 11
0:03:16.599749	LOG	Send Test Command JoinReq process starts
0:03:19.216064	LOG	First uplink received. Open reception window.
0:03:19.318090	LOG	PUSH_ACK: 02 65a6 01
0:03:19.320092	LOG	GPS Time from gateway: 1385107278367
0:03:19.321092	LOG	PUSH_DATA: Protocol version = 02, Token = 65a6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1732445564, 'time': '2023-11-27T08:00:59.367782Z', 'tmms': 1385107278367, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3393, 'rssi': -50, 'size': 20, 'data': 'QAAAAACACgACkJ7MUBcsHck0n90='}]}
0:03:19.322096	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 000a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c9349fdd)
0:03:19.323096	LOG	Server <---------- DUT
0:03:19.325096	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0004, FOpts:), FPort: e0, FRMPayload: 02), MIC: 7f816bdd)
0:03:19.327131	LOG	Frame command sent to the DUT
0:03:19.328129	LOG	PULL_RESP: Protocol version = 02, Token = 9f2f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1734445564, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAABADgWX+Ba90='}}
0:03:19.329215	LOG	Server ----------> DUT
0:03:19.355267	LOG	Send Test Command JoinReq process completed
0:03:19.359222	LOG	Step 12
0:03:19.362731	LOG	Send Join Accept process starts
0:03:19.371732	LOG	Waiting GPS time...
0:03:22.684901	LOG	GPS Time updated: 1385107281872
0:03:22.686902	LOG	PULL_DATA: 02 3eab 02 0016c001ff1025bf
0:03:22.687936	LOG	PULL_ACK: 02 3eab 04
0:03:22.872100	LOG	First uplink received. Open reception window.
0:03:22.977616	LOG	PUSH_ACK: 02 49cf 01
0:03:22.979621	LOG	GPS Time from gateway: 1385107282008

0:03:22.980621	LOG	PUSH_DATA: Protocol version = 02, Token = 49cf, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1736086621, 'time': '2023-11-27T08:01:03.008839Z', 'tmms': 1385107282008, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3407, 'rssi': -49, 'size': 23, 'data': 'AAAAAAAAAAAAAAAAAAAAAALAF5e5bY='}]}
0:03:22.981626	LOG	DATA: (MHDR: 00, Join-Request: (AppEUI: 0000000000000000, DevEUI: 0000000000000000, DevNonce: 000b),MIC: 5e5ee5b6)
0:03:22.983627	LOG	Server <---------- DUT
0:03:22.985131	LOG	DevNonce is greater than the previous in Join Request
0:03:22.986137	LOG	Previous DevNonce: 10
0:03:22.987138	LOG	Actual DevNonce: 11
0:03:22.989137	LOG	PHYPayload: (MHDR: 20, Join-Response: (JoinNonce: 230000, NetID: 000000, DevAddr: 00000000, DLSettings: 00, RxDelay: 01, CFList:), MIC: 8732a92c)
0:03:22.991140	LOG	PULL_RESP: Protocol version = 02, Token = ceaf, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1742086621, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'IEZj5ZCK8ihKr2MOfpJbakc='}}
0:03:22.993173	LOG	Server ----------> DUT
0:03:22.995800	LOG	TX_ACK: 02 ceaf 05 0016c001ff1025bf
0:03:32.865125	LOG	GPS Time updated: 1385107292001
0:03:32.867126	LOG	PULL_DATA: 02 ce3a 02 0016c001ff1025bf
0:03:32.869163	LOG	PULL_ACK: 02 ce3a 04
0:03:35.492165	LOG	Multiple frames received. Selecting the correct frame...
0:03:35.493219	LOG	Frame selected: {'jver': 1, 'tmst': 1748706866, 'time': '2023-11-27T08:01:15.629081Z', 'tmms': 1385107294629, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.0, 'foff': -3407, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAAQAC6I6FBhkpt8dN1LI='}
0:03:35.495164	LOG	First uplink received. Open reception window.
0:03:35.598046	LOG	PUSH_ACK: 02 75a7 01
0:03:35.600031	LOG	GPS Time from gateway: 1385107294629
0:03:35.602011	LOG	PUSH_DATA: Protocol version = 02, Token = 75a7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1748706866, 'time': '2023-11-27T08:01:15.629081Z', 'tmms': 1385107294629, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.0, 'foff': -3407, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAAQAC6I6FBhkpt8dN1LI='}, {'jver': 1, 'tmst': 1748706867, 'time': '2023-11-27T08:01:15.629082Z', 'tmms': 1385107294629, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -13.0, 'foff': -3407, 'rssi': -113, 'size': 20, 'data': 'QAAAAACAAQAC6I6FBhkpt8dN1LI='}]}
0:03:35.603036	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0001, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c74dd4b2)
0:03:35.604036	LOG	Server <---------- DUT
0:03:35.607959	LOG	Join Accept message has been sent successfully
0:03:35.612109	LOG	Step 13-17
0:03:35.622144	LOG	Send Test Command TxPeriodicityChange process starts
0:03:35.625143	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0000, FOpts:), FPort: e0, FRMPayload: 0601), MIC: 836fc77b)
0:03:35.627188	LOG	Frame command sent to the DUT
0:03:35.629146	LOG	PULL_RESP: Protocol version = 02, Token = 3c68, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1750706866, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAAADgSvaDb8d7'}}
0:03:35.630147	LOG	Server ----------> DUT
0:03:35.633147	LOG	Send Test Command TxPeriodicityChange process completed
0:03:35.636147	LOG	Check uplink frame type process starts

0:03:42.975789	LOG	GPS Time updated: 1385107302109
0:03:42.977757	LOG	PULL_DATA: 02 4f76 02 0016c001ff1025bf
0:03:42.979342	LOG	PULL_ACK: 02 4f76 04
0:03:45.008137	LOG	First uplink received. Open reception window.
0:03:45.116484	LOG	PUSH_ACK: 02 ea7e 01
0:03:45.118452	LOG	GPS Time from gateway: 1385107304141
0:03:45.119452	LOG	PUSH_DATA: Protocol version = 02, Token = ea7e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1758219066, 'time': '2023-11-27T08:01:25.141278Z', 'tmms': 1385107304141, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.8, 'foff': -3405, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAAgAC/XkXA+18sMxKf3M='}]}
0:03:45.120452	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0002, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: cc4a7f73)
0:03:45.122453	LOG	Server <---------- DUT
0:03:45.128078	LOG	Check ADR bit process starts
0:03:50.012937	LOG	First uplink received. Open reception window.
0:03:50.121196	LOG	PUSH_ACK: 02 64ff 01
0:03:50.124807	LOG	GPS Time from gateway: 1385107309141
0:03:50.125984	LOG	PUSH_DATA: Protocol version = 02, Token = 64ff, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1763218816, 'time': '2023-11-27T08:01:30.141029Z', 'tmms': 1385107309141, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3399, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAAwACor7dc/yrZWaHBGo='}]}
0:03:50.127099	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0003, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6687046a)
0:03:50.128795	LOG	Server <---------- DUT
0:03:50.132501	LOG	ADR bit in FCtrl field is set
0:03:50.137815	LOG	Send LinkADRReq process starts
0:03:53.056687	LOG	GPS Time updated: 1385107312184
0:03:53.057688	LOG	PULL_DATA: 02 81eb 02 0016c001ff1025bf
0:03:53.059656	LOG	PULL_ACK: 02 81eb 04
0:03:55.007300	LOG	First uplink received. Open reception window.
0:03:55.111154	LOG	PUSH_ACK: 02 61fd 01
0:03:55.113158	LOG	GPS Time from gateway: 1385107314140
0:03:55.115159	LOG	PUSH_DATA: Protocol version = 02, Token = 61fd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1768218561, 'time': '2023-11-27T08:01:35.140773Z', 'tmms': 1385107314140, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.0, 'foff': -3396, 'rssi': -49, 'size': 20, 'data': 'QAAAAACABAAC0ONV8XvyfyzGMyM='}]}
0:03:55.116158	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0004, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2cc63323)
0:03:55.117159	LOG	Server <---------- DUT
0:03:55.119159	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0001, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: 11677e92)
0:03:55.121183	LOG	PULL_RESP: Protocol version = 02, Token = 2626, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1770218561, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAAQAAeAETqRYRZ36S'}}
0:03:55.123174	LOG	Server ----------> DUT
0:03:55.125199	LOG	TX_ACK: 02 2626 05 0016c001ff1025bf
0:03:58.732653	LOG	First uplink received. Open reception window.
0:03:58.835927	LOG	PUSH_ACK: 02 9b67 01
0:03:58.837893	LOG	GPS Time from gateway: 1385107317878
0:03:58.838894	LOG	PUSH_DATA: Protocol version = 02, Token = 9b67, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1771956337, 'time': '2023-11-27T08:01:38.878548Z', 'tmms': 1385107317878, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3415, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCBQADBwIKMso+l/vAyG1A2g=='}]}
0:03:58.840930	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0005, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: c86d40da)
0:03:58.841927	LOG	Server <---------- DUT
0:03:58.843923	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:03:58.845896	LOG	Command Answer: 0307
0:03:58.852902	LOG	MAC command communication completed
0:03:58.859903	LOG	Step 17
0:03:58.862445	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:04:03.096511	LOG	#**********CURRENT BEACON SENT**********#
0:04:03.098512	LOG	PULL_RESP: Protocol version = 02, Token = 138e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385107328000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAD49SGIAAAAAAAAAAAA='}}
0:04:03.099518	LOG	Server ----------> DUT
0:04:03.101517	LOG	#**********#
0:04:03.110519	LOG	#**********NEXT BEACON QUEUED**********#
0:04:03.112571	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385107456000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAEI9ScjIAAAAAAAAAAA='}}
0:04:03.112571	LOG	Server ----------> DUT
0:04:03.115082	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 00108f52, CRC1: 7232, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385107456000
0:04:03.117084	LOG	#**********#
0:04:03.118083	LOG	Next BEACON scheduled at GPS time (ms): 1385107584000
0:04:03.119081	LOG	GPS Time updated: 1385107322265
0:04:03.120081	LOG	PULL_DATA: 02 bf0d 02 0016c001ff1025bf
0:04:03.122081	LOG	PULL_ACK: 02 bf0d 04
0:04:03.123081	LOG	TX_ACK: 02 138e 05 0016c001ff1025bf
0:04:03.730244	LOG	First uplink received. Open reception window.
0:04:03.842194	LOG	PUSH_ACK: 02 e98c 01
0:04:03.844162	LOG	GPS Time from gateway: 1385107322878
0:04:03.845162	LOG	PUSH_DATA: Protocol version = 02, Token = e98c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1776955964, 'time': '2023-11-27T08:01:43.878174Z', 'tmms': 1385107322878, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3407, 'rssi': -49, 'size': 20, 'data': 'QAAAAACABgACYV5xuEJdexrVJ9g='}]}
0:04:03.846162	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0006, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1ad527d8)
0:04:03.848175	LOG	Server <---------- DUT
0:04:03.850167	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0002, FOpts:), FPort: e0, FRMPayload: 0501), MIC: 349694a1)
0:04:03.851167	LOG	Frame command sent to the DUT
0:04:03.852167	LOG	PULL_RESP: Protocol version = 02, Token = 9d93, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1778955964, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAAgDg3r00lpSh'}}
0:04:03.854167	LOG	Server ----------> DUT

0:04:03.856167	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:04:03.859200	LOG	End Test Step: LinkADRReq Join-Accept with DLSettings
0:04:03.863284	LOG	Partial Verdict: PASS
0:04:03.867320	LOG	==========
0:04:03.872285	LOG	==========
0:04:03.875316	LOG	Start Test Step: Join-Accept with Delay Settings
0:04:03.886291	LOG	Step 01
0:04:03.889293	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:04:08.736796	LOG	First uplink received. Open reception window.
0:04:08.848389	LOG	PUSH_ACK: 02 7e4e 01
0:04:08.850357	LOG	GPS Time from gateway: 1385107327878
0:04:08.851365	LOG	PUSH_DATA: Protocol version = 02, Token = 7e4e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1781955750, 'time': '2023-11-27T08:01:48.877959Z', 'tmms': 1385107327878, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3416, 'rssi': -50, 'size': 20, 'data': 'QAAAAACABwACHZSRp/1nFK6hyAg='}]}
0:04:08.852370	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0007, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: aea1c808)
0:04:08.854371	LOG	Server <---------- DUT
0:04:08.855371	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0003, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 39f8cac8)
0:04:08.857375	LOG	Frame command sent to the DUT
0:04:08.858371	LOG	PULL_RESP: Protocol version = 02, Token = ee93, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1783955750, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAAwDgMpM5+MrI'}}
0:04:08.860371	LOG	Server ----------> DUT
0:04:08.862883	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:04:08.867887	LOG	Step 02
0:04:08.871897	LOG	Send Test Command JoinReq process starts
0:04:13.267474	LOG	GPS Time updated: 1385107332409
0:04:13.268474	LOG	PULL_DATA: 02 32bd 02 0016c001ff1025bf
0:04:13.270477	LOG	PULL_ACK: 02 32bd 04
0:04:13.735506	LOG	First uplink received. Open reception window.
0:04:13.838558	LOG	PUSH_ACK: 02 f97c 01
0:04:13.840525	LOG	GPS Time from gateway: 1385107332877
0:04:13.841525	LOG	PUSH_DATA: Protocol version = 02, Token = f97c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1786955473, 'time': '2023-11-27T08:01:53.877680Z', 'tmms': 1385107332877, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3412, 'rssi': -49, 'size': 20, 'data': 'QAAAAACACAACMoA/OkfvIhde7zI='}]}
0:04:13.842526	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0008, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 175eef32)
0:04:13.844525	LOG	Server <---------- DUT
0:04:13.845559	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0004, FOpts:), FPort: e0, FRMPayload: 02), MIC: 2236e24a)
0:04:13.847545	LOG	Frame command sent to the DUT
0:04:13.848531	LOG	PULL_RESP: Protocol version = 02, Token = e668, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1788955473, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAABADgvyI24ko='}}
0:04:13.850531	LOG	Server ----------> DUT
0:04:13.876530	LOG	Send Test Command JoinReq process completed
0:04:13.880568	LOG	Step 03
0:04:13.886707	LOG	Over-The-Air Activation (OTAA) process starts
0:04:13.901035	LOG	Waiting GPS time...

0:04:18.423408	LOG	First uplink received. Open reception window.
0:04:18.537003	LOG	PUSH_ACK: 02 8c6a 01
0:04:18.539018	LOG	GPS Time from gateway: 1385107337556
0:04:18.540018	LOG	PUSH_DATA: Protocol version = 02, Token = 8c6a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1791634084, 'time': '2023-11-27T08:01:58.556292Z', 'tmms': 1385107337556, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3424, 'rssi': -49, 'size': 23, 'data': 'AAAAAAAAAAAAAAAAAAAAAAMAJwnJjI='}]}
0:04:18.541019	LOG	DATA: (MHDR: 00, Join-Request: (AppEUI: 0000000000000000, DevEUI: 0000000000000000, DevNonce: 000c),MIC: 9c272632)
0:04:18.542985	LOG	Server <---------- DUT
0:04:18.543985	LOG	DevNonce is greater than the previous in Join Request
0:04:18.545984	LOG	Previous DevNonce: 11
0:04:18.546985	LOG	Actual DevNonce: 12
0:04:18.547984	LOG	PHYPayload: (MHDR: 20, Join-Response: (JoinNonce: 240000, NetID: 000000, DevAddr: 00000000, DLSettings: 00, RxDelay: 02, CFList:), MIC: 318ae8db)
0:04:18.550495	LOG	PULL_RESP: Protocol version = 02, Token = 4c00, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1797634084, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'INZpAyWGdqZz3esJVdNn/ew='}}
0:04:18.551495	LOG	Server ----------> DUT
0:04:18.556534	LOG	TX_ACK: 02 4c00 05 0016c001ff1025bf
0:04:23.377367	LOG	GPS Time updated: 1385107342510
0:04:23.378367	LOG	PULL_DATA: 02 c75b 02 0016c001ff1025bf
0:04:23.379944	LOG	PULL_ACK: 02 c75b 04
0:04:30.011423	LOG	First uplink received. Open reception window.
0:04:30.123417	LOG	PUSH_ACK: 02 02f4 01
0:04:30.124923	LOG	GPS Time from gateway: 1385107349139
0:04:30.126928	LOG	PUSH_DATA: Protocol version = 02, Token = 02f4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1803216821, 'time': '2023-11-27T08:02:10.139025Z', 'tmms': 1385107349139, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.2, 'foff': -3409, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAAQACM80nwc7oAi5JmZ4='}]}
0:04:30.127929	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0001, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2e49999e)
0:04:30.128929	LOG	Server <---------- DUT
0:04:30.131929	LOG	Over-The-Air Activation (OTAA) process has finished successfully
0:04:30.138903	LOG	Activation process has finished successfully
0:04:30.143542	LOG	Data stored in the DUT after Activation:
0:04:30.146841	LOG	DevAddr: 00000000
0:04:30.150266	LOG	AppEUI: 0000000000000000
0:04:30.153517	LOG	NwkSKey: b17ec79a7aacc925f57992064c504db0
0:04:30.157489	LOG	AppSKey: a15471b0c9311647492e7e3ee3bbff25
0:04:30.160421	LOG	Check FCntUp after reset process starts
0:04:30.166381	LOG	Check FCntUp after reset process complete
0:04:30.170380	LOG	Step 04-05
0:04:30.180926	LOG	Send Test Command TxPeriodicityChange process starts
0:04:30.184942	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0000, FOpts:), FPort: e0, FRMPayload: 0601), MIC: 846b64d2)
0:04:30.186927	LOG	Frame command sent to the DUT
0:04:30.188928	LOG	PULL_RESP: Protocol version = 02, Token = 6645, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1806216821, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAAADgPXmEa2TS'}}
0:04:30.189925	LOG	Server ----------> DUT
0:04:30.193932	LOG	Send Test Command TxPeriodicityChange process completed

0:04:30.197199	LOG	Check uplink frame type process starts
0:04:33.547627	LOG	GPS Time updated: 1385107352675
0:04:33.549597	LOG	PULL_DATA: 02 b2ed 02 0016c001ff1025bf
0:04:33.550596	LOG	PULL_ACK: 02 b2ed 04
0:04:40.524694	LOG	Multiple frames received. Selecting the correct frame...
0:04:40.525661	LOG	Frame selected: {'jver': 1, 'tmst': 1813729952, 'time': '2023-11-27T08:02:20.652156Z', 'tmms': 1385107359652, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3411, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAAgACHldtk6I+egPmkoI='}
0:04:40.527666	LOG	First uplink received. Open reception window.
0:04:40.633696	LOG	PUSH_ACK: 02 7216 01
0:04:40.635238	LOG	GPS Time from gateway: 1385107359652
0:04:40.636270	LOG	PUSH_DATA: Protocol version = 02, Token = 7216, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1813729952, 'time': '2023-11-27T08:02:20.652156Z', 'tmms': 1385107359652, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3411, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAAgACHldtk6I+egPmkoI='}, {'jver': 1, 'tmst': 1813729952, 'time': '2023-11-27T08:02:20.652156Z', 'tmms': 1385107359652, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -127, 'lsnr': -15.0, 'foff': -3411, 'rssi': -113, 'size': 20, 'data': 'QAAAAACAAgACHldtk6I+egPmkoI='}]}
0:04:40.638238	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0002, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 03e69282)
0:04:40.639287	LOG	Server <---------- DUT
0:04:40.648403	LOG	Step 06
0:04:40.654883	LOG	Send Test Command EchoPayloadReq process starts
0:04:43.627796	LOG	GPS Time updated: 1385107362752
0:04:43.629795	LOG	PULL_DATA: 02 ecf3 02 0016c001ff1025bf
0:04:43.631797	LOG	PULL_ACK: 02 ecf3 04
0:04:45.525972	LOG	Multiple frames received. Selecting the correct frame...
0:04:45.527004	LOG	Frame selected: {'jver': 1, 'tmst': 1818729694, 'time': '2023-11-27T08:02:25.651897Z', 'tmms': 1385107364651, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3404, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAAwACvYFWtvasQoxV5wk='}
0:04:45.528971	LOG	First uplink received. Open reception window.
0:04:45.638911	LOG	PUSH_ACK: 02 014d 01
0:04:45.640879	LOG	GPS Time from gateway: 1385107364651
0:04:45.642884	LOG	PUSH_DATA: Protocol version = 02, Token = 014d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1818729693, 'time': '2023-11-27T08:02:25.651896Z', 'tmms': 1385107364651, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -13.5, 'foff': -3404, 'rssi': -113, 'size': 20, 'data': 'QAAAAACAAwACvYFWtvasQoxV5wk='}, {'jver': 1, 'tmst': 1818729694, 'time': '2023-11-27T08:02:25.651897Z', 'tmms': 1385107364651, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3404, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAAwACvYFWtvasQoxV5wk='}]}
0:04:45.642884	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0003, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8c55e709)
0:04:45.645394	LOG	Server <---------- DUT
0:04:45.647401	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0001, FOpts:), FPort: e0, FRMPayload: 08010203), MIC: 57c80085)
0:04:45.649408	LOG	Frame command sent to the DUT
0:04:45.651394	LOG	PULL_RESP: Protocol version = 02, Token = 668f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1820729694, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YAAAAAAAAQDg86k67lfIAIU='}}
0:04:45.652427	LOG	Server ----------> DUT
0:04:45.655397	LOG	TX_ACK: 02 668f 05 0016c001ff1025bf
0:04:50.048902	LOG	First uplink received. Open reception window.
0:04:50.163993	LOG	PUSH_ACK: 02 108b 01
0:04:50.166210	LOG	GPS Time from gateway: 1385107369177
0:04:50.167244	LOG	PUSH_DATA: Protocol version = 02, Token = 108b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1823255106, 'time': '2023-11-27T08:02:30.177308Z', 'tmms': 1385107369177, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 7.8, 'foff': -3417, 'rssi': -49, 'size': 17, 'data': 'QAAAAACABADgYHZDFk02gws='}]}
0:04:50.169215	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0004, FOpts:), FPort: e0, FRMPayload: 08020304, MIC: 4d36830b)
0:04:50.170241	LOG	Server <---------- DUT
0:04:50.172216	LOG	Frame Command Payload in the Answer: 08020304
0:04:50.176215	LOG	Checking if the payload of the EchoPayloadAns is correct
0:04:50.179724	LOG	Send Test Command EchoPayloadReq process completed
0:04:50.184757	LOG	Step 07-08
0:04:50.190769	LOG	Send Test Command EchoPayloadReq process starts
0:04:53.638842	LOG	GPS Time updated: 1385107372767
0:04:53.639826	LOG	PULL_DATA: 02 67cf 02 0016c001ff1025bf
0:04:53.641826	LOG	PULL_ACK: 02 67cf 04
0:04:55.526551	LOG	Multiple frames received. Selecting the correct frame...
0:04:55.527550	LOG	Frame selected: {'jver': 1, 'tmst': 1828729184, 'time': '2023-11-27T08:02:35.651385Z', 'tmms': 1385107374651, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.0, 'foff': -3398, 'rssi': -49, 'size': 20, 'data': 'QAAAAACABQACYwXyCYH9VASuPi8='}
0:04:55.529551	LOG	First uplink received. Open reception window.
0:04:55.639817	LOG	PUSH_ACK: 02 9950 01
0:04:55.641816	LOG	GPS Time from gateway: 1385107374651
0:04:55.643833	LOG	PUSH_DATA: Protocol version = 02, Token = 9950, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1828729184, 'time': '2023-11-27T08:02:35.651385Z', 'tmms': 1385107374651, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.0, 'foff': -3398, 'rssi': -49, 'size': 20, 'data': 'QAAAAACABQACYwXyCYH9VASuPi8='}, {'jver': 1, 'tmst': 1828729184, 'time': '2023-11-27T08:02:35.651385Z', 'tmms': 1385107374651, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -13.2, 'foff': -3397, 'rssi': -113, 'size': 20, 'data': 'QAAAAACABQACYwXyCYH9VASuPi8='}]}
0:04:55.644823	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0005, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 04ae3e2f)
0:04:55.646367	LOG	Server <---------- DUT
0:04:55.648366	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0002, FOpts:), FPort: e0, FRMPayload: 080a0b0c), MIC: 98e2d07b)
0:04:55.650397	LOG	Frame command sent to the DUT
0:04:55.651397	LOG	PULL_RESP: Protocol version = 02, Token = 90ce, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1831729184, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YAAAAAAAAgDg1TsK45ji0Hs='}}
0:04:55.652397	LOG	Server ----------> DUT
0:04:55.655442	LOG	TX_ACK: 02 90ce 05 0016c001ff1025bf
0:05:01.051636	LOG	First uplink received. Open reception window.
0:05:01.160192	LOG	PUSH_ACK: 02 9f8e 01
0:05:01.162159	LOG	GPS Time from gateway: 1385107380177

0:05:01.164186	LOG	PUSH_DATA: Protocol version = 02, Token = 9f8e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1834254879, 'time': '2023-11-27T08:02:41.177079Z', 'tmms': 1385107380177, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 8.2, 'foff': -3416, 'rssi': -49, 'size': 17, 'data': 'QAAAAACABgDgZ6VGuupWFPY='}]}
0:05:01.165160	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0006, FOpts:), FPort: e0, FRMPayload: 080b0c0d, MIC: ea5614f6)
0:05:01.167197	LOG	Server <---------- DUT
0:05:01.169194	LOG	Frame Command Payload in the Answer: 080b0c0d
0:05:01.173162	LOG	Checking if the payload of the EchoPayloadAns is correct
0:05:01.176678	LOG	Send Test Command EchoPayloadReq process completed
0:05:01.181260	LOG	Step 08
0:05:01.184308	LOG	Send Test Command JoinReq process starts
0:05:03.839280	LOG	GPS Time updated: 1385107382965
0:05:03.840279	LOG	PULL_DATA: 02 d498 02 0016c001ff1025bf
0:05:03.842284	LOG	PULL_ACK: 02 d498 04
0:05:10.524050	LOG	Multiple frames received. Selecting the correct frame...
0:05:10.525061	LOG	Frame selected: {'jver': 1, 'tmst': 1843728446, 'time': '2023-11-27T08:02:50.650644Z', 'tmms': 1385107389650, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.2, 'foff': -3406, 'rssi': -49, 'size': 20, 'data': 'QAAAAACABwAC7+aFA5KawscbQRw='}
0:05:10.527078	LOG	First uplink received. Open reception window.
0:05:10.631424	LOG	PUSH_ACK: 02 0a61 01
0:05:10.633458	LOG	GPS Time from gateway: 1385107389650
0:05:10.634426	LOG	PUSH_DATA: Protocol version = 02, Token = 0a61, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1843728446, 'time': '2023-11-27T08:02:50.650644Z', 'tmms': 1385107389650, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.2, 'foff': -3406, 'rssi': -49, 'size': 20, 'data': 'QAAAAACABwAC7+aFA5KawscbQRw='}, {'jver': 1, 'tmst': 1843728447, 'time': '2023-11-27T08:02:50.650645Z', 'tmms': 1385107389650, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -124, 'lsnr': -12.2, 'foff': -3405, 'rssi': -113, 'size': 20, 'data': 'QAAAAACABwAC7+aFA5KawscbQRw='}]}
0:05:10.636425	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0007, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c71b411c)
0:05:10.637425	LOG	Server <---------- DUT
0:05:10.639426	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0003, FOpts:), FPort: e0, FRMPayload: 02), MIC: defce09f)
0:05:10.641459	LOG	Frame command sent to the DUT
0:05:10.642458	LOG	PULL_RESP: Protocol version = 02, Token = 6106, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1846728446, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAAwDgSt784J8='}}
0:05:10.643458	LOG	Server ----------> DUT
0:05:10.671499	LOG	Send Test Command JoinReq process completed
0:05:10.675502	LOG	Step 09
0:05:10.678976	LOG	Send Join Accept process starts
0:05:10.689057	LOG	Waiting GPS time...
0:05:13.999556	LOG	GPS Time updated: 1385107393194
0:05:14.000550	LOG	PULL_DATA: 02 03d1 02 0016c001ff1025bf
0:05:14.002519	LOG	PULL_ACK: 02 03d1 04
0:05:16.201829	LOG	Multiple frames received. Selecting the correct frame...
0:05:16.202859	LOG	Frame selected: {'jver': 1, 'tmst': 1849407493, 'time': '2023-11-27T08:02:56.329690Z', 'tmms': 1385107395329, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr':

		9.5, 'foff': -3421, 'rssi': -49, 'size': 23, 'data': 'AAAAAAAAAAAAAAAAAAAAAANAJolj5I='}
0:05:16.204845	LOG	First uplink received. Open reception window.
0:05:16.315263	LOG	PUSH_ACK: 02 bca7 01
0:05:16.317262	LOG	GPS Time from gateway: 1385107395329
0:05:16.318260	LOG	PUSH_DATA: Protocol version = 02, Token = bca7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1849407493, 'time': '2023-11-27T08:02:56.329690Z', 'tmms': 1385107395329, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.5, 'foff': -3421, 'rssi': -49, 'size': 23, 'data': 'AAAAAAAAAAAAAAAAAAAAAANAJolj5I='}, {'jver': 1, 'tmst': 1849407503, 'time': '2023-11-27T08:02:56.329700Z', 'tmms': 1385107395329, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -126, 'lsnr': -13.5, 'foff': -3450, 'rssi': -113, 'size': 23, 'data': 'AAAAAAAAAAAAAAAAAAAAAANAJolj5I='}]}
0:05:16.320265	LOG	DATA: (MHDR: 00, Join-Request: (AppEUI: 0000000000000000, DevEUI: 0000000000000000, DevNonce: 000d),MIC: 9a258f92)
0:05:16.321267	LOG	Server <---------- DUT
0:05:16.323297	LOG	DevNonce is greater than the previous in Join Request
0:05:16.324266	LOG	Previous DevNonce: 12
0:05:16.326264	LOG	Actual DevNonce: 13
0:05:16.327300	LOG	PHYPayload: (MHDR: 20, Join-Response: (JoinNonce: 250000, NetID: 000000, DevAddr: 00000000, DLSettings: 00, RxDelay: 01, CFList:), MIC: 5b7b74d5)
0:05:16.328297	LOG	PULL_RESP: Protocol version = 02, Token = c39e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1855407493, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'IHFRClXz/j+leDzpNzC31tw='}}
0:05:16.330298	LOG	Server ----------> DUT
0:05:16.332270	LOG	TX_ACK: 02 c39e 05 0016c001ff1025bf
0:05:24.100240	LOG	GPS Time updated: 1385107403224
0:05:24.101232	LOG	PULL_DATA: 02 0dbe 02 0016c001ff1025bf
0:05:24.103267	LOG	PULL_ACK: 02 0dbe 04
0:05:26.397088	LOG	Multiple frames received. Selecting the correct frame...
0:05:26.398094	LOG	Frame selected: {'jver': 1, 'tmst': 1859606025, 'time': '2023-11-27T08:03:06.528219Z', 'tmms': 1385107405528, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 8.8, 'foff': -3413, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAAQAC7zMoC5D3/aKjTHQ='}
0:05:26.400095	LOG	First uplink received. Open reception window.
0:05:26.502828	LOG	PUSH_ACK: 02 9bbf 01
0:05:26.504859	LOG	GPS Time from gateway: 1385107405528
0:05:26.506847	LOG	PUSH_DATA: Protocol version = 02, Token = 9bbf, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1859606025, 'time': '2023-11-27T08:03:06.528219Z', 'tmms': 1385107405528, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 8.8, 'foff': -3413, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAAQAC7zMoC5D3/aKjTHQ='}, {'jver': 1, 'tmst': 1859606026, 'time': '2023-11-27T08:03:06.528220Z', 'tmms': 1385107405528, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -128, 'lsnr': -15.8, 'foff': -3413, 'rssi': -113, 'size': 20, 'data': 'QAAAAACAAQAC7zMoC5D3/aKjTHQ='}]}
0:05:26.508846	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0001, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a2a34c74)
0:05:26.509848	LOG	Server <---------- DUT
0:05:26.513848	LOG	Join Accept message has been sent successfully
0:05:26.519847	LOG	Step 10-14
0:05:26.530381	LOG	Send Test Command TxPeriodicityChange process starts
0:05:26.534383	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0000, FOpts:), FPort: e0, FRMPayload: 0601), MIC: 1fa0532c)

0:05:26.536384	LOG	Frame command sent to the DUT
0:05:26.538395	LOG	PULL_RESP: Protocol version = 02, Token = 37b1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1861606025, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAAADgGkIfoFMs'}}
0:05:26.540397	LOG	Server ----------> DUT
0:05:26.543397	LOG	Send Test Command TxPeriodicityChange process completed
0:05:26.547397	LOG	Check uplink frame type process starts
0:05:34.310475	LOG	GPS Time updated: 1385107413438
0:05:34.311475	LOG	PULL_DATA: 02 d598 02 0016c001ff1025bf
0:05:34.313480	LOG	PULL_ACK: 02 d598 04
0:05:35.910711	LOG	First uplink received. Open reception window.
0:05:36.027573	LOG	PUSH_ACK: 02 01d6 01
0:05:36.029538	LOG	GPS Time from gateway: 1385107415040
0:05:36.030537	LOG	PUSH_DATA: Protocol version = 02, Token = 01d6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1869118753, 'time': '2023-11-27T08:03:16.040947Z', 'tmms': 1385107415040, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.8, 'foff': -3412, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAAgACsJzEbx/dLp5sEFs='}]}
0:05:36.031538	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0002, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9e6c105b)
0:05:36.032537	LOG	Server <---------- DUT
0:05:36.039546	LOG	Check ADR bit process starts
0:05:40.910542	LOG	First uplink received. Open reception window.
0:05:41.022191	LOG	PUSH_ACK: 02 e5f2 01
0:05:41.024196	LOG	GPS Time from gateway: 1385107420040
0:05:41.025197	LOG	PUSH_DATA: Protocol version = 02, Token = e5f2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1874118498, 'time': '2023-11-27T08:03:21.040691Z', 'tmms': 1385107420040, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.2, 'foff': -3403, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAAwACwHFnMTO9hQxpgOw='}]}
0:05:41.026197	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0003, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0c6980ec)
0:05:41.028197	LOG	Server <---------- DUT
0:05:41.030197	LOG	ADR bit in FCtrl field is set
0:05:41.036197	LOG	Send LinkADRReq process starts
0:05:44.390367	LOG	GPS Time updated: 1385107423521
0:05:44.392367	LOG	PULL_DATA: 02 d6f6 02 0016c001ff1025bf
0:05:44.394369	LOG	PULL_ACK: 02 d6f6 04
0:05:45.982352	LOG	Multiple frames received. Selecting the correct frame...
0:05:45.984319	LOG	Frame selected: {'jver': 1, 'tmst': 1879189463, 'time': '2023-11-27T08:03:26.111655Z', 'tmms': 1385107425111, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.5, 'foff': -3398, 'rssi': -49, 'size': 20, 'data': 'QAAAAACABAACO4hTDruGMx6n1EQ='}
0:05:45.986328	LOG	First uplink received. Open reception window.
0:05:46.091018	LOG	PUSH_ACK: 02 7d3e 01
0:05:46.093019	LOG	GPS Time from gateway: 1385107425111
0:05:46.094018	LOG	PUSH_DATA: Protocol version = 02, Token = 7d3e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1879189463, 'time': '2023-11-27T08:03:26.111655Z', 'tmms': 1385107425111, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.5, 'foff': -3398, 'rssi': -49, 'size': 20, 'data': 'QAAAAACABAACO4hTDruGMx6n1EQ='}, {'jver': 1, 'tmst': 1879189463, 'time': '2023-11-27T08:03:26.111655Z', 'tmms': 1385107425111, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 3, 'stat': 1, 'modu': 'LORA',

		'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -126, 'lsnr': -13.2, 'foff': -3398, 'rssi': -113, 'size': 20, 'data': 'QAAAAACABAACO4hTDruGMx6n1EQ='}]}
0:05:46.095986	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0004, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1ea7d444)
0:05:46.097020	LOG	Server <---------- DUT
0:05:46.098993	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0001, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: e68ed1ab)
0:05:46.100988	LOG	PULL_RESP: Protocol version = 02, Token = 035a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1881189463, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAAQAAOYt2LTTmjtGr'}}
0:05:46.102025	LOG	Server ----------> DUT
0:05:46.104756	LOG	TX_ACK: 02 035a 05 0016c001ff1025bf
0:05:49.634820	LOG	First uplink received. Open reception window.
0:05:49.738925	LOG	PUSH_ACK: 02 c516 01
0:05:49.739892	LOG	GPS Time from gateway: 1385107428778
0:05:49.742402	LOG	PUSH_DATA: Protocol version = 02, Token = c516, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1882856000, 'time': '2023-11-27T08:03:29.778191Z', 'tmms': 1385107428778, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3416, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCBQADBwJ1MocZXKLP8DOU7A=='}]}
0:05:49.743402	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0005, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: f03394ec)
0:05:49.745403	LOG	Server <---------- DUT
0:05:49.746402	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:05:49.748403	LOG	Command Answer: 0307
0:05:49.755403	LOG	MAC command communication completed
0:05:49.761234	LOG	Step 14
0:05:49.763275	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:05:54.501383	LOG	GPS Time updated: 1385107433644
0:05:54.502414	LOG	PULL_DATA: 02 8e21 02 0016c001ff1025bf
0:05:54.504383	LOG	PULL_ACK: 02 8e21 04
0:05:54.635296	LOG	First uplink received. Open reception window.
0:05:54.739226	LOG	PUSH_ACK: 02 2e2d 01
0:05:54.740190	LOG	GPS Time from gateway: 1385107433777
0:05:54.741695	LOG	PUSH_DATA: Protocol version = 02, Token = 2e2d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1887855641, 'time': '2023-11-27T08:03:34.777830Z', 'tmms': 1385107433777, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3404, 'rssi': -49, 'size': 20, 'data': 'QAAAAACABgACCgQCRLHYw3rZLKo='}]}
0:05:54.743737	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0006, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7ad92caa)
0:05:54.744733	LOG	Server <---------- DUT
0:05:54.746747	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0002, FOpts:), FPort: e0, FRMPayload: 0501), MIC: 4321d86e)
0:05:54.747734	LOG	Frame command sent to the DUT
0:05:54.749733	LOG	PULL_RESP: Protocol version = 02, Token = d313, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1889855641, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAAgDgp65DIdhu'}}
0:05:54.750735	LOG	Server ----------> DUT
0:05:54.753700	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:05:54.756734	LOG	End Test Step: Join-Accept with Delay Settings
0:05:54.759772	LOG	Partial Verdict: PASS
0:05:54.763741	LOG	==========

0:05:54.767773	LOG	==========
0:05:54.769774	LOG	Start Test Step: Join-Accept with CFList for Dynamic Channel (DC) plan
0:05:54.783356	LOG	Step 01
0:05:54.786274	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:05:59.638570	LOG	First uplink received. Open reception window.
0:05:59.750199	LOG	PUSH_ACK: 02 c6b9 01
0:05:59.752202	LOG	GPS Time from gateway: 1385107438777
0:05:59.753234	LOG	PUSH_DATA: Protocol version = 02, Token = c6b9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1892855389, 'time': '2023-11-27T08:03:39.777577Z', 'tmms': 1385107438777, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3412, 'rssi': -49, 'size': 20, 'data': 'QAAAAACABwAC1X+NOFN1qX41/x4='}]}
0:05:59.754233	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0007, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7e35ff1e)
0:05:59.755240	LOG	Server <---------- DUT
0:05:59.757201	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0003, FOpts:), FPort: e0, FRMPayload: 0500), MIC: c1eccbaa)
0:05:59.759206	LOG	Frame command sent to the DUT
0:05:59.760206	LOG	PULL_RESP: Protocol version = 02, Token = 5af6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1894855389, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAAwDg743B7Muq'}}
0:05:59.761206	LOG	Server ----------> DUT
0:05:59.764207	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:05:59.768242	LOG	Step 02
0:05:59.770283	LOG	Send Test Command JoinReq process starts
0:06:04.591133	LOG	GPS Time updated: 1385107443730
0:06:04.593100	LOG	PULL_DATA: 02 63c9 02 0016c001ff1025bf
0:06:04.594101	LOG	PULL_ACK: 02 63c9 04
0:06:04.632284	LOG	First uplink received. Open reception window.
0:06:04.746957	LOG	PUSH_ACK: 02 8a1f 01
0:06:04.748922	LOG	GPS Time from gateway: 1385107443777
0:06:04.749922	LOG	PUSH_DATA: Protocol version = 02, Token = 8a1f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1897855158, 'time': '2023-11-27T08:03:44.777347Z', 'tmms': 1385107443777, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3416, 'rssi': -49, 'size': 20, 'data': 'QAAAAACACAAC/VSAneEvsGESUs4='}]}
0:06:04.750921	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0008, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 611252ce)
0:06:04.752922	LOG	Server <---------- DUT
0:06:04.754921	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0004, FOpts:), FPort: e0, FRMPayload: 02), MIC: 1a6afe87)
0:06:04.755923	LOG	Frame command sent to the DUT
0:06:04.756922	LOG	PULL_RESP: Protocol version = 02, Token = f69f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1899855158, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAABADgTBpq/oc='}}
0:06:04.758927	LOG	Server ----------> DUT
0:06:04.783471	LOG	Send Test Command JoinReq process completed
0:06:04.787505	LOG	Step 03
0:06:04.797478	LOG	Over-The-Air Activation (OTAA) process starts
0:06:04.811510	LOG	Waiting GPS time...
0:06:09.325666	LOG	Multiple frames received. Selecting the correct frame...
0:06:09.326667	LOG	Frame selected: {'jver': 1, 'tmst': 1902534315, 'time': '2023-11-27T08:03:49.456503Z', 'tmms': 1385107448456, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr':

		11.5, 'foff': -3423, 'rssi': -49, 'size': 23, 'data': 'AAAAAAAAAAAAAAAAAAAAAAOAMk1AWM='}
0:06:09.328668	LOG	#**********CURRENT BEACON SENT**********#
0:06:09.329671	LOG	PULL_RESP: Protocol version = 02, Token = 24d6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385107456000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAEI9ScjIAAAAAAAAAAA='}}
0:06:09.331670	LOG	Server ----------> DUT
0:06:09.332704	LOG	#**********#
0:06:09.342277	LOG	#**********NEXT BEACON QUEUED**********#
0:06:09.344246	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385107584000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAEI9SSu8AAAAAAAAAAA='}}
0:06:09.345277	LOG	Server ----------> DUT
0:06:09.346783	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 80108f52, CRC1: 4aef, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385107584000
0:06:09.347821	LOG	#**********#
0:06:09.348823	LOG	Next BEACON scheduled at GPS time (ms): 1385107712000
0:06:09.349821	LOG	First uplink received. Open reception window.
0:06:09.350820	LOG	TX_ACK: 02 24d6 05 0016c001ff1025bf
0:06:09.458397	LOG	PUSH_ACK: 02 7097 01
0:06:09.460924	LOG	GPS Time from gateway: 1385107448456
0:06:09.462933	LOG	PUSH_DATA: Protocol version = 02, Token = 7097, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1902534314, 'time': '2023-11-27T08:03:49.456502Z', 'tmms': 1385107448456, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -124, 'lsnr': -12.0, 'foff': -3423, 'rssi': -113, 'size': 23, 'data': 'AAAAAAAAAAAAAAAAAAAAAAOAMk1AWM='}, {'jver': 1, 'tmst': 1902534315, 'time': '2023-11-27T08:03:49.456503Z', 'tmms': 1385107448456, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.5, 'foff': -3423, 'rssi': -49, 'size': 23, 'data': 'AAAAAAAAAAAAAAAAAAAAAAOAMk1AWM='}]}
0:06:09.463929	LOG	DATA: (MHDR: 00, Join-Request: (AppEUI: 0000000000000000, DevEUI: 0000000000000000, DevNonce: 000e),MIC: c9350163)
0:06:09.465931	LOG	Server <---------- DUT
0:06:09.467932	LOG	DevNonce is greater than the previous in Join Request
0:06:09.469942	LOG	Previous DevNonce: 13
0:06:09.470929	LOG	Actual DevNonce: 14
0:06:09.471966	LOG	PHYPayload: (MHDR: 20, Join-Response: (JoinNonce: 260000, NetID: 000000, DevAddr: 00000000, DLSettings: 00, RxDelay: 01, CFList: 886684000000000000000000000000), MIC: 138eda1f)
0:06:09.473931	LOG	PULL_RESP: Protocol version = 02, Token = 3e2a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1908534315, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 33, 'data': 'INc5wGQilz+TxlvarCate+5bia2o1k70TF/sbJi+50dQ'}}
0:06:09.474966	LOG	Server ----------> DUT
0:06:09.477792	LOG	GW Message b'{"txpk_ack":{"error":"COLLISION_PACKET"}}'
0:06:09.478801	LOG	Waiting a new Uplink to send the frame again
0:06:14.721502	LOG	GPS Time updated: 1385107453827
0:06:14.723501	LOG	PULL_DATA: 02 de0c 02 0016c001ff1025bf
0:06:14.724502	LOG	PULL_ACK: 02 de0c 04

0:06:24.756142	LOG	Multiple frames received. Selecting the correct frame...
0:06:24.757174	LOG	Frame selected: {'jver': 1, 'tmst': 1917964946, 'time': '2023-11-27T08:04:04.887131Z', 'tmms': 1385107463887, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 14.2, 'foff': -3401, 'rssi': -49, 'size': 23, 'data': 'AAAAAAAAAAAAAAAAAAAAAAQACYH4bs='}
0:06:24.759143	LOG	First uplink received. Open reception window.
0:06:24.802448	LOG	PULL_DATA: 02 211b 02 0016c001ff1025bf
0:06:24.804414	LOG	PULL_ACK: 02 211b 04
0:06:24.867858	LOG	PUSH_ACK: 02 1a2b 01
0:06:24.869365	LOG	GPS Time from gateway: 1385107463887
0:06:24.871366	LOG	PUSH_DATA: Protocol version = 02, Token = 1a2b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1917964946, 'time': '2023-11-27T08:04:04.887131Z', 'tmms': 1385107463887, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 14.2, 'foff': -3401, 'rssi': -49, 'size': 23, 'data': 'AAAAAAAAAAAAAAAAAAAAAAQACYH4bs='}, {'jver': 1, 'tmst': 1917964946, 'time': '2023-11-27T08:04:04.887131Z', 'tmms': 1385107463887, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -124, 'lsnr': -12.0, 'foff': -3401, 'rssi': -113, 'size': 23, 'data': 'AAAAAAAAAAAAAAAAAAAAAAQACYH4bs='}]}
0:06:24.872366	LOG	DATA: (MHDR: 00, Join-Request: (AppEUI: 0000000000000000, DevEUI: 0000000000000000, DevNonce: 0010),MIC: 2607e1bb)
0:06:24.874404	LOG	Server <---------- DUT
0:06:24.876368	LOG	DevNonce is greater than the previous in Join Request
0:06:24.877400	LOG	Previous DevNonce: 14
0:06:24.879368	LOG	Actual DevNonce: 16
0:06:24.880369	LOG	PHYPayload: (MHDR: 20, Join-Response: (JoinNonce: 270000, NetID: 000000, DevAddr: 00000000, DLSettings: 00, RxDelay: 01, CFList: 886684000000000000000000000000), MIC: 7b9103ca)
0:06:24.882368	LOG	PULL_RESP: Protocol version = 02, Token = e89c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1923964946, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 33, 'data': 'IOrcGK3wuP4XkyXAN6lRwnLu7Bwor2tMjZ9dIXPOpi5u'}}
0:06:24.883401	LOG	Server ----------> DUT
0:06:24.886600	LOG	TX_ACK: 02 e89c 05 0016c001ff1025bf
0:06:34.972709	LOG	GPS Time updated: 1385107474100
0:06:34.973703	LOG	PULL_DATA: 02 0dd8 02 0016c001ff1025bf
0:06:34.975241	LOG	PULL_ACK: 02 0dd8 04
0:06:35.916023	LOG	Multiple frames received. Selecting the correct frame...
0:06:35.917023	LOG	Frame selected: {'jver': 1, 'tmst': 1929115732, 'time': '2023-11-27T08:04:16.037914Z', 'tmms': 1385107475037, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 11.2, 'foff': -3406, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAAQACWfwCO4VCHbEV2eA='}
0:06:35.919024	LOG	First uplink received. Open reception window.
0:06:36.028501	LOG	PUSH_ACK: 02 fd8b 01
0:06:36.030503	LOG	GPS Time from gateway: 1385107475037
0:06:36.031505	LOG	PUSH_DATA: Protocol version = 02, Token = fd8b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1929115724, 'time': '2023-11-27T08:04:16.037906Z', 'tmms': 1385107475037, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -126, 'lsnr': -13.5, 'foff': -3375, 'rssi': -113, 'size': 20, 'data': 'QAAAAACAAQACWfwCO4VCHbEV2eA='}, {'jver': 1, 'tmst': 1929115732, 'time': '2023-11-27T08:04:16.037914Z', 'tmms': 1385107475037, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 11.2, 'foff': -3406, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAAQACWfwCO4VCHbEV2eA='}]}

0:06:36.032536	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0001, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b115d9e0)
0:06:36.034536	LOG	Server <---------- DUT
0:06:36.038504	LOG	Over-The-Air Activation (OTAA) process has finished successfully
0:06:36.041547	LOG	Activation process has finished successfully
0:06:36.043547	LOG	Data stored in the DUT after Activation:
0:06:36.046546	LOG	DevAddr: 00000000
0:06:36.049546	LOG	AppEUI: 0000000000000000
0:06:36.051790	LOG	NwkSKey: 12557b2832af58037f60ff628db651fc
0:06:36.054426	LOG	AppSKey: 004a0bf4c72d99f38fd1a50e3432972a
0:06:36.056939	LOG	Check FCntUp after reset process starts
0:06:36.065994	LOG	Check FCntUp after reset process complete
0:06:36.069769	LOG	Step 04-06
0:06:36.079337	LOG	Send Test Command TxPeriodicityChange process starts
0:06:36.082328	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0000, FOpts:), FPort: e0, FRMPayload: 0601), MIC: 6df06598)
0:06:36.084323	LOG	Frame command sent to the DUT
0:06:36.085322	LOG	PULL_RESP: Protocol version = 02, Token = 0457, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1931115732, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAAADgLDxt8GWY'}}
0:06:36.086323	LOG	Server ----------> DUT
0:06:36.089472	LOG	Send Test Command TxPeriodicityChange process completed
0:06:36.094475	LOG	Check uplink frame type process starts
0:06:45.113097	LOG	GPS Time updated: 1385107484232
0:06:45.114063	LOG	PULL_DATA: 02 16c2 02 0016c001ff1025bf
0:06:45.116064	LOG	PULL_ACK: 02 16c2 04
0:06:45.427872	LOG	First uplink received. Open reception window.
0:06:45.531553	LOG	PUSH_ACK: 02 a1a4 01
0:06:45.533520	LOG	GPS Time from gateway: 1385107484550
0:06:45.534521	LOG	PUSH_DATA: Protocol version = 02, Token = a1a4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1938627930, 'time': '2023-11-27T08:04:25.550111Z', 'tmms': 1385107484550, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.0, 'foff': -3407, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAAgACr7B65SXUa+7VWu0='}]}
0:06:45.535521	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0002, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: eed55aed)
0:06:45.537522	LOG	Server <---------- DUT
0:06:45.546561	LOG	Step 07
0:06:45.549560	LOG	Receive frame on specific channels process starts
0:06:45.555200	LOG	Attempt 1/20
0:06:50.424704	LOG	Multiple frames received. Selecting the correct frame...
0:06:50.426725	LOG	Frame selected: {'jver': 1, 'tmst': 1943627676, 'time': '2023-11-27T08:04:30.549855Z', 'tmms': 1385107489549, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3398, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAAwACTj6VMgK+JylnFsw='}
0:06:50.428695	LOG	First uplink received. Open reception window.
0:06:50.535719	LOG	PUSH_ACK: 02 e3cf 01
0:06:50.537684	LOG	GPS Time from gateway: 1385107489549
0:06:50.539685	LOG	PUSH_DATA: Protocol version = 02, Token = e3cf, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1943627665, 'time': '2023-11-27T08:04:30.549844Z', 'tmms': 1385107489549, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -112, 'lsnr': -19.5, 'foff': -28367, 'rssi': -93, 'size': 20, 'data': 'QAAAAACAAwACTj6VMgK+JylnFsw='}, {'jver': 1, 'tmst': 1943627676, 'time': '2023-11-27T08:04:30.549855Z', 'tmms':

		1385107489549, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3398, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAAwACTj6VMgK+JylnFsw='}]}
0:06:50.540717	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0003, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 296716cc)
0:06:50.541716	LOG	Server <---------- DUT
0:06:50.544761	LOG	Receive frame on specific channels process tested successfully
0:06:50.548906	LOG	Step 08
0:06:50.551677	LOG	Send Test Command JoinReq process starts
0:06:55.203070	LOG	GPS Time updated: 1385107494324
0:06:55.205079	LOG	PULL_DATA: 02 d292 02 0016c001ff1025bf
0:06:55.206072	LOG	PULL_ACK: 02 d292 04
0:06:55.428537	LOG	First uplink received. Open reception window.
0:06:55.536587	LOG	PUSH_ACK: 02 d298 01
0:06:55.538587	LOG	GPS Time from gateway: 1385107494549
0:06:55.539557	LOG	PUSH_DATA: Protocol version = 02, Token = d298, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1948627423, 'time': '2023-11-27T08:04:35.549601Z', 'tmms': 1385107494549, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3393, 'rssi': -49, 'size': 20, 'data': 'QAAAAACABAAC7s07sfHcoWVYEtQ='}]}
0:06:55.541585	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0004, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 655812d4)
0:06:55.542589	LOG	Server <---------- DUT
0:06:55.544590	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0001, FOpts:), FPort: e0, FRMPayload: 02), MIC: 16e8a45c)
0:06:55.545590	LOG	Frame command sent to the DUT
0:06:55.546588	LOG	PULL_RESP: Protocol version = 02, Token = a484, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1950627423, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAAQDg+hbopFw='}}
0:06:55.548642	LOG	Server ----------> DUT
0:06:55.574605	LOG	Send Test Command JoinReq process completed
0:06:55.578168	LOG	Step 09
0:06:55.587202	LOG	Over-The-Air Activation (OTAA) process starts
0:06:55.602864	LOG	Waiting GPS time...
0:07:00.100260	LOG	First uplink received. Open reception window.
0:07:00.205882	LOG	PUSH_ACK: 02 61d5 01
0:07:00.207456	LOG	GPS Time from gateway: 1385107499228
0:07:00.208425	LOG	PUSH_DATA: Protocol version = 02, Token = 61d5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1953306563, 'time': '2023-11-27T08:04:40.228742Z', 'tmms': 1385107499228, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.5, 'foff': -3411, 'rssi': -49, 'size': 23, 'data': 'AAAAAAAAAAAAAAAAAAAAAARACwKmaw='}]}
0:07:00.210459	LOG	DATA: (MHDR: 00, Join-Request: (AppEUI: 0000000000000000, DevEUI: 0000000000000000, DevNonce: 0011),MIC: 2c0a99ac)
0:07:00.211461	LOG	Server <---------- DUT
0:07:00.212457	LOG	DevNonce is greater than the previous in Join Request
0:07:00.213972	LOG	Previous DevNonce: 16
0:07:00.216013	LOG	Actual DevNonce: 17
0:07:00.217979	LOG	PHYPayload: (MHDR: 20, Join-Response: (JoinNonce: 280000, NetID: 000000, DevAddr: 00000000, DLSettings: 00, RxDelay: 01, CFList: 886684000000000000000000000001), MIC: e210950d)
0:07:00.220011	LOG	PULL_RESP: Protocol version = 02, Token = 5cbf, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1959306563, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 33, 'data': 'IElHR40Ag6xrVhRB6i10MMwQtiwfz4tz7V/w7rmQDXPb'}}

0:07:00.221154	LOG	Server ----------> DUT
0:07:00.224357	LOG	TX_ACK: 02 5cbf 05 0016c001ff1025bf
0:07:05.263903	LOG	GPS Time updated: 1385107504391
0:07:05.264902	LOG	PULL_DATA: 02 55d1 02 0016c001ff1025bf
0:07:05.266906	LOG	PULL_ACK: 02 55d1 04
0:07:10.875748	LOG	Multiple frames received. Selecting the correct frame...
0:07:10.876747	LOG	Frame selected: {'jver': 1, 'tmst': 1964072464, 'time': '2023-11-27T08:04:50.994641Z', 'tmms': 1385107509994, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 8.8, 'foff': -3404, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAAQACPv9rkiv/0WQOgQk='}
0:07:10.878748	LOG	First uplink received. Open reception window.
0:07:10.985955	LOG	PUSH_ACK: 02 6c33 01
0:07:10.987923	LOG	GPS Time from gateway: 1385107509994
0:07:10.988924	LOG	PUSH_DATA: Protocol version = 02, Token = 6c33, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1964072464, 'time': '2023-11-27T08:04:50.994641Z', 'tmms': 1385107509994, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 8.8, 'foff': -3404, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAAQACPv9rkiv/0WQOgQk='}, {'jver': 1, 'tmst': 1964072473, 'time': '2023-11-27T08:04:50.994650Z', 'tmms': 1385107509994, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -127, 'lsnr': -15.8, 'foff': -3434, 'rssi': -113, 'size': 20, 'data': 'QAAAAACAAQACPv9rkiv/0WQOgQk='}]}
0:07:10.990963	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0001, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 640e8109)
0:07:10.991964	LOG	Server <---------- DUT
0:07:10.994967	LOG	Over-The-Air Activation (OTAA) process has finished successfully
0:07:10.998279	LOG	Activation process has finished successfully
0:07:11.000288	LOG	Data stored in the DUT after Activation:
0:07:11.003278	LOG	DevAddr: 00000000
0:07:11.006246	LOG	AppEUI: 0000000000000000
0:07:11.008280	LOG	NwkSKey: 6bfb58c6a233389e6e66450a9e520a70
0:07:11.011279	LOG	AppSKey: ded4e508ab9cede444c3765e0533fcac
0:07:11.013854	LOG	Check FCntUp after reset process starts
0:07:11.020896	LOG	Check FCntUp after reset process complete
0:07:11.025033	LOG	Step 10-12
0:07:11.035554	LOG	Send Test Command TxPeriodicityChange process starts
0:07:11.039555	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0000, FOpts:), FPort: e0, FRMPayload: 0601), MIC: 3a954cc3)
0:07:11.040554	LOG	Frame command sent to the DUT
0:07:11.042554	LOG	PULL_RESP: Protocol version = 02, Token = 055c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1966072464, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAAADgJ7U6lUzD'}}
0:07:11.043559	LOG	Server ----------> DUT
0:07:11.045559	LOG	Send Test Command TxPeriodicityChange process completed
0:07:11.049595	LOG	Check uplink frame type process starts
0:07:15.453705	LOG	GPS Time updated: 1385107514569
0:07:15.455705	LOG	PULL_DATA: 02 ddc2 02 0016c001ff1025bf
0:07:15.456706	LOG	PULL_ACK: 02 ddc2 04
0:07:20.385774	LOG	Multiple frames received. Selecting the correct frame...
0:07:20.387774	LOG	Frame selected: {'jver': 1, 'tmst': 1973585132, 'time': '2023-11-27T08:05:00.507306Z', 'tmms': 1385107519507, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 11.8, 'foff': -3405, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAAgACcDz79raAf+YbJJw='}

0:07:20.389531	LOG	First uplink received. Open reception window.
0:07:20.491948	LOG	PUSH_ACK: 02 bcf7 01
0:07:20.493947	LOG	GPS Time from gateway: 1385107519507
0:07:20.495452	LOG	PUSH_DATA: Protocol version = 02, Token = bcf7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1973585132, 'time': '2023-11-27T08:05:00.507306Z', 'tmms': 1385107519507, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -13.5, 'foff': -3404, 'rssi': -113, 'size': 20, 'data': 'QAAAAACAAgACcDz79raAf+YbJJw='}, {'jver': 1, 'tmst': 1973585132, 'time': '2023-11-27T08:05:00.507306Z', 'tmms': 1385107519507, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 11.8, 'foff': -3405, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAAgACcDz79raAf+YbJJw='}]}
0:07:20.496458	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0002, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e61b249c)
0:07:20.498459	LOG	Server <---------- DUT
0:07:20.508042	LOG	Step 13
0:07:20.511211	LOG	Receive frame on specific channels process starts
0:07:20.519241	LOG	Attempt 1/15
0:07:25.385498	LOG	First uplink received. Open reception window.
0:07:25.494870	LOG	PUSH_ACK: 02 edde 01
0:07:25.497345	LOG	GPS Time from gateway: 1385107524506
0:07:25.498347	LOG	PUSH_DATA: Protocol version = 02, Token = edde, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1978584872, 'time': '2023-11-27T08:05:05.507046Z', 'tmms': 1385107524506, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 8.2, 'foff': -3400, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAAwACAkANsJnSreRRxNw='}]}
0:07:25.500393	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0003, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e451c4dc)
0:07:25.501381	LOG	Server <---------- DUT
0:07:25.503347	LOG	Attempt 2/15
0:07:25.534162	LOG	GPS Time updated: 1385107524656
0:07:25.536145	LOG	PULL_DATA: 02 13ef 02 0016c001ff1025bf
0:07:25.538137	LOG	PULL_ACK: 02 13ef 04
0:07:30.380408	LOG	Multiple frames received. Selecting the correct frame...
0:07:30.381441	LOG	Frame selected: {'jver': 1, 'tmst': 1983584621, 'time': '2023-11-27T08:05:10.506793Z', 'tmms': 1385107529506, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 12.2, 'foff': -3393, 'rssi': -49, 'size': 20, 'data': 'QAAAAACABAACz1UofwynYtBx0dA='}
0:07:30.383411	LOG	First uplink received. Open reception window.
0:07:30.488343	LOG	PUSH_ACK: 02 c7e2 01
0:07:30.490371	LOG	GPS Time from gateway: 1385107529506
0:07:30.491340	LOG	PUSH_DATA: Protocol version = 02, Token = c7e2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1983584621, 'time': '2023-11-27T08:05:10.506793Z', 'tmms': 1385107529506, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 12.2, 'foff': -3393, 'rssi': -49, 'size': 20, 'data': 'QAAAAACABAACz1UofwynYtBx0dA='}, {'jver': 1, 'tmst': 1983584621, 'time': '2023-11-27T08:05:10.506793Z', 'tmms': 1385107529506, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -124, 'lsnr': -11.5, 'foff': -3393, 'rssi': -113, 'size': 20, 'data': 'QAAAAACABAACz1UofwynYtBx0dA='}]}
0:07:30.493340	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0004, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d071d1d0)
0:07:30.494371	LOG	Server <---------- DUT
0:07:30.495377	LOG	Attempt 3/15
0:07:35.383202	LOG	First uplink received. Open reception window.
0:07:35.485001	LOG	PUSH_ACK: 02 abdd 01

0:07:35.487002	LOG	GPS Time from gateway: 1385107534506
0:07:35.488004	LOG	PUSH_DATA: Protocol version = 02, Token = abdd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1988584356, 'time': '2023-11-27T08:05:15.506528Z', 'tmms': 1385107534506, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3390, 'rssi': -49, 'size': 20, 'data': 'QAAAAACABQACy9cWzn1FSMLxpBQ='}]}
0:07:35.489007	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0005, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c2f1a414)
0:07:35.491024	LOG	Server <---------- DUT
0:07:35.492003	LOG	Attempt 4/15
0:07:35.634501	LOG	GPS Time updated: 1385107534757
0:07:35.636501	LOG	PULL_DATA: 02 a44d 02 0016c001ff1025bf
0:07:35.638052	LOG	PULL_ACK: 02 a44d 04
0:07:40.378477	LOG	Multiple frames received. Selecting the correct frame...
0:07:40.380477	LOG	Frame selected: {'jver': 1, 'tmst': 1993584109, 'time': '2023-11-27T08:05:20.506279Z', 'tmms': 1385107539506, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 11.5, 'foff': -3391, 'rssi': -49, 'size': 20, 'data': 'QAAAAACABgACVkcrZyXkRnqTm5I='}
0:07:40.381445	LOG	First uplink received. Open reception window.
0:07:40.490453	LOG	PUSH_ACK: 02 8188 01
0:07:40.492420	LOG	GPS Time from gateway: 1385107539506
0:07:40.493419	LOG	PUSH_DATA: Protocol version = 02, Token = 8188, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1993584109, 'time': '2023-11-27T08:05:20.506279Z', 'tmms': 1385107539506, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 11.5, 'foff': -3391, 'rssi': -49, 'size': 20, 'data': 'QAAAAACABgACVkcrZyXkRnqTm5I='}, {'jver': 1, 'tmst': 1993584109, 'time': '2023-11-27T08:05:20.506279Z', 'tmms': 1385107539506, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -127, 'lsnr': -15.5, 'foff': -3391, 'rssi': -113, 'size': 20, 'data': 'QAAAAACABgACVkcrZyXkRnqTm5I='}]}
0:07:40.494420	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0006, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7a939b92)
0:07:40.496420	LOG	Server <---------- DUT
0:07:40.497420	LOG	Attempt 5/15
0:07:45.382546	LOG	Multiple frames received. Selecting the correct frame...
0:07:45.383546	LOG	Frame selected: {'jver': 1, 'tmst': 1998583851, 'time': '2023-11-27T08:05:25.506020Z', 'tmms': 1385107544505, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.5, 'foff': -3389, 'rssi': -50, 'size': 20, 'data': 'QAAAAACABwAC6/mhNyTV1Qi3zRw='}
0:07:45.385581	LOG	First uplink received. Open reception window.
0:07:45.488745	LOG	PUSH_ACK: 02 1c53 01
0:07:45.490710	LOG	GPS Time from gateway: 1385107544505
0:07:45.491710	LOG	PUSH_DATA: Protocol version = 02, Token = 1c53, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1998583851, 'time': '2023-11-27T08:05:25.506020Z', 'tmms': 1385107544505, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.5, 'foff': -3389, 'rssi': -50, 'size': 20, 'data': 'QAAAAACABwAC6/mhNyTV1Qi3zRw='}, {'jver': 1, 'tmst': 1998583851, 'time': '2023-11-27T08:05:25.506020Z', 'tmms': 1385107544505, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -128, 'lsnr': -15.5, 'foff': -3387, 'rssi': -113, 'size': 20, 'data': 'QAAAAACABwAC6/mhNyTV1Qi3zRw='}]}
0:07:45.493711	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0007, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 08b7cd1c)
0:07:45.494710	LOG	Server <---------- DUT
0:07:45.496711	LOG	Attempt 6/15

0:07:45.715928	LOG	GPS Time updated: 1385107544835
0:07:45.716896	LOG	PULL_DATA: 02 1aee 02 0016c001ff1025bf
0:07:45.718897	LOG	PULL_ACK: 02 1aee 04
0:07:50.383923	LOG	Multiple frames received. Selecting the correct frame...
0:07:50.384923	LOG	Frame selected: {'jver': 1, 'tmst': 2003583599, 'time': '2023-11-27T08:05:30.505769Z', 'tmms': 1385107549505, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3387, 'rssi': -49, 'size': 20, 'data': 'QAAAAACACAACzLblJKW90NXgiK0='}
0:07:50.386925	LOG	First uplink received. Open reception window.
0:07:50.495800	LOG	PUSH_ACK: 02 eb66 01
0:07:50.497764	LOG	GPS Time from gateway: 1385107549505
0:07:50.498766	LOG	PUSH_DATA: Protocol version = 02, Token = eb66, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2003583599, 'time': '2023-11-27T08:05:30.505769Z', 'tmms': 1385107549505, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3387, 'rssi': -49, 'size': 20, 'data': 'QAAAAACACAACzLblJKW90NXgiK0='}, {'jver': 1, 'tmst': 2003583600, 'time': '2023-11-27T08:05:30.505770Z', 'tmms': 1385107549505, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -124, 'lsnr': -12.2, 'foff': -3386, 'rssi': -113, 'size': 20, 'data': 'QAAAAACACAACzLblJKW90NXgiK0='}]}
0:07:50.499765	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0008, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d5e088ad)
0:07:50.501766	LOG	Server <---------- DUT
0:07:50.503768	LOG	Attempt 7/15
0:07:55.384148	LOG	First uplink received. Open reception window.
0:07:55.492801	LOG	PUSH_ACK: 02 244c 01
0:07:55.494799	LOG	GPS Time from gateway: 1385107554505
0:07:55.495799	LOG	PUSH_DATA: Protocol version = 02, Token = 244c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2008583349, 'time': '2023-11-27T08:05:35.505518Z', 'tmms': 1385107554505, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3387, 'rssi': -49, 'size': 20, 'data': 'QAAAAACACQACO2BhrmHmN2N11Bc='}]}
0:07:55.496799	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0009, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6375d417)
0:07:55.498799	LOG	Server <---------- DUT
0:07:55.500769	LOG	Attempt 8/15
0:07:55.795699	LOG	GPS Time updated: 1385107554916
0:07:55.797734	LOG	PULL_DATA: 02 3b79 02 0016c001ff1025bf
0:07:55.798748	LOG	PULL_ACK: 02 3b79 04
0:08:00.380694	LOG	Multiple frames received. Selecting the correct frame...
0:08:00.381694	LOG	Frame selected: {'jver': 1, 'tmst': 2013583082, 'time': '2023-11-27T08:05:40.505250Z', 'tmms': 1385107559505, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.8, 'foff': -3386, 'rssi': -49, 'size': 20, 'data': 'QAAAAACACgACTaoColbPgKZfDPo='}
0:08:00.383696	LOG	First uplink received. Open reception window.
0:08:00.486811	LOG	PUSH_ACK: 02 acfb 01
0:08:00.488843	LOG	GPS Time from gateway: 1385107559505
0:08:00.489810	LOG	PUSH_DATA: Protocol version = 02, Token = acfb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2013583082, 'time': '2023-11-27T08:05:40.505250Z', 'tmms': 1385107559505, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.8, 'foff': -3386, 'rssi': -49, 'size': 20, 'data': 'QAAAAACACgACTaoColbPgKZfDPo='}, {'jver': 1, 'tmst': 2013583083, 'time': '2023-11-27T08:05:40.505251Z', 'tmms': 1385107559505, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr':

		'SF12BW125', 'codr': '4/5', 'rssis': -127, 'lsnr': -15.0, 'foff': -3386, 'rssi': -113, 'size': 20, 'data': 'QAAAAACACgACTaoColbPgKZfDPo='}]}
0:08:00.490843	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 000a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a65f0cfa)
0:08:00.492843	LOG	Server <---------- DUT
0:08:00.494810	LOG	Attempt 9/15
0:08:05.621300	LOG	First uplink received. Open reception window.
0:08:05.726273	LOG	PUSH_ACK: 02 6a68 01
0:08:05.728241	LOG	GPS Time from gateway: 1385107564744
0:08:05.729241	LOG	PUSH_DATA: Protocol version = 02, Token = 6a68, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2018822444, 'time': '2023-11-27T08:05:45.744611Z', 'tmms': 1385107564744, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3385, 'rssi': -49, 'size': 20, 'data': 'QAAAAACACwACdQqcv+5bggdLC3A='}]}
0:08:05.730242	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 000b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 074b0b70)
0:08:05.732241	LOG	Server <---------- DUT
0:08:05.733241	LOG	Attempt 10/15
0:08:05.886123	LOG	GPS Time updated: 1385107565009
0:08:05.887124	LOG	PULL_DATA: 02 f358 02 0016c001ff1025bf
0:08:05.889125	LOG	PULL_ACK: 02 f358 04
0:08:10.402135	LOG	First uplink received. Open reception window.
0:08:10.506918	LOG	PUSH_ACK: 02 4606 01
0:08:10.508886	LOG	GPS Time from gateway: 1385107569520
0:08:10.509886	LOG	PUSH_DATA: Protocol version = 02, Token = 4606, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2023598202, 'time': '2023-11-27T08:05:50.520368Z', 'tmms': 1385107569520, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.5, 'foff': -3382, 'rssi': -49, 'size': 20, 'data': 'QAAAAACADAACMJ/7ixJykb0yLmU='}]}
0:08:10.510887	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 000c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: bd322e65)
0:08:10.512894	LOG	Server <---------- DUT
0:08:10.514887	LOG	Attempt 11/15
0:08:15.394123	LOG	Multiple frames received. Selecting the correct frame...
0:08:15.396124	LOG	Frame selected: {'jver': 1, 'tmst': 2028597941, 'time': '2023-11-27T08:05:55.520105Z', 'tmms': 1385107574520, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.0, 'foff': -3380, 'rssi': -49, 'size': 20, 'data': 'QAAAAACADQACP3CoW+7gxTF8btk='}
0:08:15.397125	LOG	#**********CURRENT BEACON SENT**********#
0:08:15.399173	LOG	PULL_RESP: Protocol version = 02, Token = 4438, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385107584000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAEI9SSu8AAAAAAAAAAA='}}
0:08:15.400160	LOG	Server ----------> DUT
0:08:15.402146	LOG	#**********#
0:08:15.412151	LOG	#**********NEXT BEACON QUEUED**********#
0:08:15.414198	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385107712000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAEY9SQgUAAAAAAAAAAA='}}
0:08:15.415822	LOG	Server ----------> DUT

0:08:15.417468	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 00118f52, CRC1: 4205, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385107712000
0:08:15.418593	LOG	#**#
0:08:15.419699	LOG	Next BEACON scheduled at GPS time (ms): 1385107840000
0:08:15.421429	LOG	First uplink received. Open reception window.
0:08:15.422500	LOG	TX_ACK: 02 4438 05 0016c001ff1025bf
0:08:15.536324	LOG	PUSH_ACK: 02 472b 01
0:08:15.538084	LOG	GPS Time from gateway: 1385107574520
0:08:15.540048	LOG	PUSH_DATA: Protocol version = 02, Token = 472b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2028597941, 'time': '2023-11-27T08:05:55.520105Z', 'tmms': 1385107574520, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.0, 'foff': -3380, 'rssi': -49, 'size': 20, 'data': 'QAAAAACADQACP3CoW+7gxTF8btk='}, {'jver': 1, 'tmst': 2028597942, 'time': '2023-11-27T08:05:55.520107Z', 'tmms': 1385107574520, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -126, 'lsnr': -14.0, 'foff': -3379, 'rssi': -113, 'size': 20, 'data': 'QAAAAACADQACP3CoW+7gxTF8btk='}]}
0:08:15.542049	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 000d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 317c6ed9)
0:08:15.543082	LOG	Server <-------------------- DUT
0:08:15.545047	LOG	Attempt 12/15
0:08:16.026758	LOG	GPS Time updated: 1385107575124
0:08:16.070766	LOG	PULL_DATA: 02 260e 02 0016c001ff1025bf
0:08:16.071764	LOG	PULL_ACK: 02 260e 04
0:08:20.393904	LOG	First uplink received. Open reception window.
0:08:20.507886	LOG	PUSH_ACK: 02 0dd2 01
0:08:20.509887	LOG	GPS Time from gateway: 1385107579519
0:08:20.510887	LOG	PUSH_DATA: Protocol version = 02, Token = 0dd2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2033597686, 'time': '2023-11-27T08:06:00.519850Z', 'tmms': 1385107579519, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.8, 'foff': -3373, 'rssi': -49, 'size': 20, 'data': 'QAAAAACADgACQjS2JP9qabAuWvQ='}]}
0:08:20.512864	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 000e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b02e5af4)
0:08:20.513887	LOG	Server <-------------------- DUT
0:08:20.515856	LOG	Attempt 13/15
0:08:26.146905	LOG	GPS Time updated: 1385107585273
0:08:26.148867	LOG	PULL_DATA: 02 1f6c 02 0016c001ff1025bf
0:08:26.149869	LOG	PULL_ACK: 02 1f6c 04
0:08:30.394489	LOG	First uplink received. Open reception window.
0:08:30.508031	LOG	PUSH_ACK: 02 c054 01
0:08:30.509999	LOG	GPS Time from gateway: 1385107589519
0:08:30.510998	LOG	PUSH_DATA: Protocol version = 02, Token = c054, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2043597191, 'time': '2023-11-27T08:06:10.519352Z', 'tmms': 1385107589519, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3375, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAEAAC48aDiZXXTUBOx4Y='}]}
0:08:30.511999	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0010, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 404ec786)
0:08:30.513999	LOG	Server <-------------------- DUT
0:08:30.514999	LOG	Attempt 14/15
0:08:35.392579	LOG	First uplink received. Open reception window.
0:08:35.505571	LOG	PUSH_ACK: 02 2aab 01
0:08:35.507539	LOG	GPS Time from gateway: 1385107594519

0:08:35.508541	LOG	PUSH_DATA: Protocol version = 02, Token = 2aab, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2048596934, 'time': '2023-11-27T08:06:15.519095Z', 'tmms': 1385107594519, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.2, 'foff': -3372, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAEQACIs2iaZENvS64p5c='}]}
0:08:35.509539	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0011, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2eb8a797)
0:08:35.511539	LOG	Server <---------- DUT
0:08:35.512539	LOG	Attempt 15/15
0:08:36.237614	LOG	GPS Time updated: 1385107595364
0:08:36.239581	LOG	PULL_DATA: 02 ba4e 02 0016c001ff1025bf
0:08:36.240581	LOG	PULL_ACK: 02 ba4e 04
0:08:40.402491	LOG	First uplink received. Open reception window.
0:08:40.505113	LOG	PUSH_ACK: 02 f8f6 01
0:08:40.507200	LOG	GPS Time from gateway: 1385107599518
0:08:40.508230	LOG	PUSH_DATA: Protocol version = 02, Token = f8f6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2053596675, 'time': '2023-11-27T08:06:20.518834Z', 'tmms': 1385107599518, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 8.5, 'foff': -3372, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAEgAC5UnQ3rIXvmz4Ahs='}]}
0:08:40.509231	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0012, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6cf8021b)
0:08:40.511232	LOG	Server <---------- DUT
0:08:40.518199	LOG	Receive frame on specific channels process tested successfully
0:08:40.524015	LOG	End Test Step: Join-Accept with CFList for Dynamic Channel (DC) plan
0:08:40.527017	LOG	Partial Verdict: PASS
0:08:40.531016	LOG	==========
0:08:40.534984	LOG	==========
0:08:40.536983	LOG	Start Test Step: Restore default parameters
0:08:40.548016	LOG	Send MAC command block process starts
0:08:45.398885	LOG	First uplink received. Open reception window.
0:08:45.501092	LOG	PUSH_ACK: 02 c716 01
0:08:45.503057	LOG	GPS Time from gateway: 1385107604518
0:08:45.505059	LOG	PUSH_DATA: Protocol version = 02, Token = c716, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2058596412, 'time': '2023-11-27T08:06:25.518570Z', 'tmms': 1385107604518, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3370, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAEwACWi8a3KdadFkOfkA='}]}
0:08:45.506061	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0013, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 590e7e40)
0:08:45.507058	LOG	Server <---------- DUT
0:08:45.509060	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0001, FOpts:), FPort: 00, FRMPayload: 03500700010500d2ad84), MIC: 81dfd119)
0:08:45.511059	LOG	PULL_RESP: Protocol version = 02, Token = 0766, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2060596412, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAAQAA3611Q7AVJeLsW4Hf0Rk='}}
0:08:45.512568	LOG	Server ----------> DUT
0:08:45.515568	LOG	TX_ACK: 02 0766 05 0016c001ff1025bf
0:08:46.347769	LOG	GPS Time updated: 1385107605467
0:08:46.349732	LOG	PULL_DATA: 02 9e73 02 0016c001ff1025bf
0:08:46.350733	LOG	PULL_ACK: 02 9e73 04
0:08:49.126977	LOG	First uplink received. Open reception window.
0:08:49.237524	LOG	PUSH_ACK: 02 1108 01
0:08:49.239492	LOG	GPS Time from gateway: 1385107608261

0:08:49.240491	LOG	PUSH_DATA: Protocol version = 02, Token = 1108, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2062339329, 'time': '2023-11-27T08:06:29.261488Z', 'tmms': 1385107608261, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3396, 'rssi': -49, 'size': 24, 'data': 'QAAAAACEFAADBwUHApsIUIkoBveWrJvD'}]}
0:08:49.241492	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0014, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 96ac9bc3)
0:08:49.243492	LOG	Server <---------- DUT
0:08:49.245508	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:08:49.246492	LOG	Command Answer: 03070507
0:08:49.308775	LOG	MAC command communication completed
0:08:49.320361	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:08:54.123914	LOG	First uplink received. Open reception window.
0:08:54.236656	LOG	PUSH_ACK: 02 db04 01
0:08:54.238624	LOG	GPS Time from gateway: 1385107613255
0:08:54.239662	LOG	PUSH_DATA: Protocol version = 02, Token = db04, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2067333928, 'time': '2023-11-27T08:06:34.256085Z', 'tmms': 1385107613255, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3377, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCFQAFBwJHOoXTDheeuIRZLQ=='}]}
0:08:54.240657	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0015, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: b884592d)
0:08:54.242623	LOG	Server <---------- DUT
0:08:54.243623	LOG	MAC Command RXParamSetupAns received
0:08:54.245661	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0002, FOpts:), FPort: e0, FRMPayload: 0501), MIC: 17f45d5c)
0:08:54.246626	LOG	Frame command sent to the DUT
0:08:54.248683	LOG	PULL_RESP: Protocol version = 02, Token = 576e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2069333928, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAAgDgXYQX9F1c'}}
0:08:54.249657	LOG	Server ----------> DUT
0:08:54.252625	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:08:54.255624	LOG	End Test Step: Restore default parameters
0:08:54.258657	LOG	Partial Verdict: PASS
0:08:54.262657	LOG	==========
0:08:54.265658	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_001_A
0:08:54.267639	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_002	
Verdict	PASS	
Date	2023-11-27 09:06:36	
Description		
Technology Version	LCTT v3.11.0_R1 | GUI v2.6.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.3	
Test Specs Version	USv1.5.1/EUv1.6.2/KRv1.2.1/ASv1.1.1/INv1.1.1/ALL_Av1.6/ALL_Cv1.0/ALL_Bv1.0/SCHCv1.1/ALPv1.0	
Project	ref-stack	
Project Creation Date	2023-10-04 09:10:20	
Sample Parameters		
	Conformance	TRUE

Time Stamp (ms)	Event	Summary

0:00:00.009210	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_002
0:00:00.066942	LOG	==========
0:00:00.068947	LOG	Start Test Step: Device activation
0:00:00.153469	LOG	Activation process has finished successfully
0:00:00.155470	LOG	Data stored in the DUT after Activation:
0:00:00.158472	LOG	DevAddr: 00000000
0:00:00.161470	LOG	AppEUI: 0000000000000000
0:00:00.163470	LOG	NwkSKey: 6bfb58c6a233389e6e66450a9e520a70
0:00:00.166470	LOG	AppSKey: ded4e508ab9cede444c3765e0533fcac
0:00:00.170475	LOG	End Test Step: Device activation
0:00:00.174476	LOG	Partial Verdict: PASS
0:00:00.178476	LOG	==========
0:00:00.182981	LOG	==========
0:00:00.184987	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.194019	LOG	DUT Pre-condition activation process starts
0:00:00.197021	LOG	DUT Pre-condition activation completed
0:00:00.199987	LOG	End Test Step: DUT Pre-condition settings
0:00:00.203987	LOG	Partial Verdict: PASS
0:00:00.206987	LOG	==========
0:00:00.211989	LOG	==========
0:00:00.213989	LOG	Start Test Step: AES Encryption
0:00:00.226884	LOG	Step 01
0:00:00.228916	LOG	Send Test Command EchoPayloadReq process starts
0:00:02.378256	LOG	PUSH_DATA received while waiting first PULL_DATA
0:00:07.383578	LOG	PUSH_DATA received while waiting first PULL_DATA
0:00:09.907804	LOG	GPS Time updated: 1385107622091
0:00:09.909772	LOG	PULL_DATA: 02 03a0 02 0016c001ff1025bf
0:00:09.910772	LOG	PULL_ACK: 02 03a0 04
0:00:12.383937	LOG	First uplink received. Open reception window.
0:00:12.494554	LOG	PUSH_ACK: 02 0d22 01
0:00:12.496559	LOG	GPS Time from gateway: 1385107628255
0:00:12.498608	LOG	PUSH_DATA: Protocol version = 02, Token = 0d22, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2082333080, 'time': '2023-11-27T08:06:49.255235Z', 'tmms': 1385107628255, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3385, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAGAACfjQXp3EVRSfTBSg='}]}
0:00:12.499629	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0018, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 27d30528)
0:00:12.500595	LOG	Server <---------- DUT
0:00:12.503595	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0003, FOpts:), FPort: e0, FRMPayload: 0801), MIC: ee6873f0)
0:00:12.505595	LOG	Frame command sent to the DUT
0:00:12.506595	LOG	PULL_RESP: Protocol version = 02, Token = d65a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2084333080, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAAwDgoMjuaHPw'}}
0:00:12.508595	LOG	Server ----------> DUT
0:00:12.510596	LOG	TX_ACK: 02 d65a 05 0016c001ff1025bf
0:00:15.633198	LOG	First uplink received. Open reception window.
0:00:15.743465	LOG	PUSH_ACK: 02 0d47 01
0:00:15.745435	LOG	GPS Time from gateway: 1385107631508
0:00:15.746479	LOG	PUSH_DATA: Protocol version = 02, Token = 0d47, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2085586507, 'time': '2023-11-27T08:06:52.508660Z', 'tmms': 1385107631508, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3407, 'rssi': -50, 'size': 15, 'data': 'QAAAAACAGQDgqOAoE82V'}]}
0:00:15.748466	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0019, FOpts:), FPort: e0, FRMPayload: 0802, MIC: 2813cd95)
0:00:15.749433	LOG	Server <---------- DUT
0:00:15.751435	LOG	Frame Command Payload in the Answer: 0802
0:00:15.755435	LOG	Checking if the payload of the EchoPayloadAns is correct
0:00:15.758434	LOG	Send Test Command EchoPayloadReq process completed
0:00:15.762464	LOG	Step 02-03
0:00:15.765473	LOG	Send Test Command EchoPayloadReq process starts
0:00:20.068034	LOG	GPS Time updated: 1385107635944
0:00:20.069067	LOG	PULL_DATA: 02 5dcd 02 0016c001ff1025bf
0:00:20.071035	LOG	PULL_ACK: 02 5dcd 04
0:00:22.376490	LOG	First uplink received. Open reception window.
0:00:22.480511	LOG	PUSH_ACK: 02 9b87 01
0:00:22.482478	LOG	GPS Time from gateway: 1385107638254
0:00:22.483481	LOG	PUSH_DATA: Protocol version = 02, Token = 9b87, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2092332587, 'time': '2023-11-27T08:06:59.254740Z', 'tmms': 1385107638254, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3385, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAGgACHW+kGgALOud+nCM='}]}
0:00:22.485481	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 001a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e77e9c23)
0:00:22.486479	LOG	Server <---------- DUT
0:00:22.488482	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0004, FOpts:), FPort: e0, FRMPayload: 080f0f0f0f0f0f0f0f0f0f0f0f0f0f0f), MIC: c59f3e19)
0:00:22.490482	LOG	Frame command sent to the DUT
0:00:22.491520	LOG	PULL_RESP: Protocol version = 02, Token = 7ae4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2094332587, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 29, 'data': 'YAAAAAAABADgS2mhf5EtzDa4NiPZcuC9gcWfPhk='}}
0:00:22.492487	LOG	Server ----------> DUT
0:00:22.496490	LOG	TX_ACK: 02 7ae4 05 0016c001ff1025bf
0:00:26.143349	LOG	First uplink received. Open reception window.
0:00:26.257929	LOG	PUSH_ACK: 02 7856 01
0:00:26.259930	LOG	GPS Time from gateway: 1385107642021
0:00:26.260930	LOG	PUSH_DATA: Protocol version = 02, Token = 7856, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2096099202, 'time': '2023-11-27T08:07:03.021355Z', 'tmms': 1385107642021, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3412, 'rssi': -49, 'size': 29, 'data': 'QAAAAACAGwDg9a9oHvTQx81ZR5DOFSHuEW6T1ug='}]}
0:00:26.261931	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 001b, FOpts:), FPort: e0, FRMPayload: 08101010101010101010101010101010, MIC: 6e93d6e8)
0:00:26.263932	LOG	Server <---------- DUT
0:00:26.265932	LOG	Frame Command Payload in the Answer: 08101010101010101010101010101010
0:00:26.269933	LOG	Checking if the payload of the EchoPayloadAns is correct
0:00:26.272966	LOG	Send Test Command EchoPayloadReq process completed
0:00:26.276931	LOG	Send Test Command EchoPayloadReq process starts
0:00:30.268963	LOG	GPS Time updated: 1385107646146
0:00:30.269962	LOG	PULL_DATA: 02 d570 02 0016c001ff1025bf
0:00:30.271981	LOG	PULL_ACK: 02 d570 04
0:00:32.381563	LOG	First uplink received. Open reception window.
0:00:32.496881	LOG	PUSH_ACK: 02 86ea 01

0:00:32.498849	LOG	GPS Time from gateway: 1385107648254
0:00:32.499848	LOG	PUSH_DATA: Protocol version = 02, Token = 86ea, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2102332077, 'time': '2023-11-27T08:07:09.254227Z', 'tmms': 1385107648254, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3396, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAHAACMJIpI9RVlfQIpl8='}]}
0:00:32.500849	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 001c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f408a65f)
0:00:32.502854	LOG	Server <---------- DUT
0:00:32.504854	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0005, FOpts:), FPort: e0, FRMPayload: 08202020202020202020202020202020202020202020), MIC: 223ac5bf)
0:00:32.505854	LOG	Frame command sent to the DUT
0:00:32.507854	LOG	PULL_RESP: Protocol version = 02, Token = 3902, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2104332077, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 34, 'data': 'YAAAAAAABQDgDiEeQgvZWTfMRO7c1gJJaDF+e1/9IjrFvw=='}}
0:00:32.508854	LOG	Server ----------> DUT
0:00:32.512982	LOG	TX_ACK: 02 3902 05 0016c001ff1025bf
0:00:36.317453	LOG	First uplink received. Open reception window.
0:00:36.422560	LOG	PUSH_ACK: 02 0f98 01
0:00:36.424528	LOG	GPS Time from gateway: 1385107652195
0:00:36.425527	LOG	PUSH_DATA: Protocol version = 02, Token = 0f98, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2106273142, 'time': '2023-11-27T08:07:13.195293Z', 'tmms': 1385107652195, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3423, 'rssi': -49, 'size': 34, 'data': 'QAAAAACAHQDgB/fP5rr5Jo3T9y/usbbXPzPblr+4GMm8tw==''}]}
0:00:36.426528	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 001d, FOpts:), FPort: e0, FRMPayload: 08212121212121212121212121212121212121212121, MIC: 18c9bcb7)
0:00:36.428533	LOG	Server <---------- DUT
0:00:36.430528	LOG	Frame Command Payload in the Answer: 08212121212121212121212121212121212121212121
0:00:36.434531	LOG	Checking if the payload of the EchoPayloadAns is correct
0:00:36.437528	LOG	Send Test Command EchoPayloadReq process completed
0:00:36.441528	LOG	Send Test Command EchoPayloadReq process starts
0:00:40.288888	LOG	GPS Time updated: 1385107656166
0:00:40.290855	LOG	PULL_DATA: 02 f2eb 02 0016c001ff1025bf
0:00:40.291886	LOG	PULL_ACK: 02 f2eb 04
0:00:42.374105	LOG	First uplink received. Open reception window.
0:00:42.480809	LOG	PUSH_ACK: 02 9c53 01
0:00:42.482809	LOG	GPS Time from gateway: 1385107658253
0:00:42.483811	LOG	PUSH_DATA: Protocol version = 02, Token = 9c53, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2112331587, 'time': '2023-11-27T08:07:19.253737Z', 'tmms': 1385107658253, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3393, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAHgACtJU/GPEfsaeg3Qo='}]}
0:00:42.485777	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 001e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a7a0dd0a)
0:00:42.486780	LOG	Server <---------- DUT
0:00:42.488778	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0006, FOpts:), FPort: e0, FRMPayload: 08010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c5c12640)
0:00:42.489809	LOG	Frame command sent to the DUT

0:00:42.491810	LOG	PULL_RESP: Protocol version = 02, Token = 4576, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2114331587, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAABgDgUCKwkCCc659lBuBsjO7kDKVZk2OGmC7HNY/Z2eKDhf5wep9/LMscdkx9XTVtpv/JhVFRxcEmQA==''}}
0:00:42.492813	LOG	Server ----------> DUT
0:00:42.495778	LOG	TX_ACK: 02 4576 05 0016c001ff1025bf
0:00:47.351446	LOG	First uplink received. Open reception window.
0:00:47.466982	LOG	PUSH_ACK: 02 0da7 01
0:00:47.468948	LOG	GPS Time from gateway: 1385107663221
0:00:47.469980	LOG	PUSH_DATA: Protocol version = 02, Token = 0da7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2117299397, 'time': '2023-11-27T08:07:24.221546Z', 'tmms': 1385107663221, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3423, 'rssi': -49, 'size': 64, 'data': 'QAAAAACAHwDgA5Z+jq4ufCc5yFkCDHovqUWg7UHunGUC4Esesie9tE5WD0QRBYQDsR0xHbKWHI1VXn7cn6gUvg==''}]}
0:00:47.471957	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 001f, FOpts:), FPort: e0, FRMPayload: 08020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202, MIC: 9fa814be)
0:00:47.472980	LOG	Server <---------- DUT
0:00:47.474950	LOG	Frame Command Payload in the Answer: 08020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202
0:00:47.478686	LOG	Checking if the payload of the EchoPayloadAns is correct
0:00:47.481728	LOG	Send Test Command EchoPayloadReq process completed
0:00:47.484698	LOG	End Test Step: AES Encryption
0:00:47.488697	LOG	Partial Verdict: PASS
0:00:47.492728	LOG	==========
0:00:47.496738	LOG	==========
0:00:47.498696	LOG	Start Test Step: Message Integrity Code
0:00:47.512729	LOG	Step 01
0:00:47.514729	LOG	Send Test Command EchoPayloadReq (with bad MIC) process starts
0:00:50.469210	LOG	GPS Time updated: 1385107666339
0:00:50.471261	LOG	PULL_DATA: 02 fa5a 02 0016c001ff1025bf
0:00:50.472210	LOG	PULL_ACK: 02 fa5a 04
0:00:52.380445	LOG	First uplink received. Open reception window.
0:00:52.484081	LOG	PUSH_ACK: 02 d8b0 01
0:00:52.486100	LOG	GPS Time from gateway: 1385107668253
0:00:52.487050	LOG	PUSH_DATA: Protocol version = 02, Token = d8b0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2122331108, 'time': '2023-11-27T08:07:29.253255Z', 'tmms': 1385107668253, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3396, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAIAACIUvSJatgMJ3qVcY='}]}
0:00:52.489049	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0020, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9dea55c6)
0:00:52.490051	LOG	Server <---------- DUT
0:00:52.492051	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0007, FOpts:), FPort: e0, FRMPayload: 0801), MIC: 7e0c2b30)
0:00:52.493049	LOG	Frame command sent to the DUT
0:00:52.495050	LOG	PULL_RESP: Protocol version = 02, Token = d151, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2124331108, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAABwDgNtp+DCsw''}}

0:00:52.496051	LOG	Server ----------> DUT
0:00:52.500051	LOG	TX_ACK: 02 d151 05 0016c001ff1025bf
0:00:57.374265	LOG	First uplink received. Open reception window.
0:00:57.485900	LOG	PUSH_ACK: 02 b5db 01
0:00:57.487898	LOG	GPS Time from gateway: 1385107673252
0:00:57.488898	LOG	PUSH_DATA: Protocol version = 02, Token = b5db, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2127330845, 'time': '2023-11-27T08:07:34.252992Z', 'tmms': 1385107673252, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3404, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAIQACAjKUUmRZIR/cLvQ='}]}
0:00:57.489899	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0021, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1fdc2ef4)
0:00:57.490899	LOG	Server <---------- DUT
0:00:57.492899	LOG	Command Sent header: 08
0:00:57.493899	LOG	Payload received from the DUT (bad MIC sent): 00000001020000
0:00:57.495899	LOG	Payload sent by the DUT before send the command: 00000001020000
0:00:57.496899	LOG	Echo with bad mic has been sent. DUT must ignore it
0:00:57.497900	LOG	Frame Command Payload in the Answer: 00000001020000
0:00:57.502459	LOG	Checking if the payload of the EchoPayloadAns is not correct (bad MIC)
0:00:57.505695	LOG	Send Test Command EchoPayloadReq (with bad MIC) process completed
0:00:57.508759	LOG	Step 02-03
0:00:57.511694	LOG	Send Test Command EchoPayloadReq (with bad MIC) process starts
0:01:00.479819	LOG	GPS Time updated: 1385107676357
0:01:00.480818	LOG	PULL_DATA: 02 50c2 02 0016c001ff1025bf
0:01:00.482821	LOG	PULL_ACK: 02 50c2 04
0:01:02.380074	LOG	First uplink received. Open reception window.
0:01:02.488101	LOG	PUSH_ACK: 02 095a 01
0:01:02.490101	LOG	GPS Time from gateway: 1385107678252
0:01:02.491103	LOG	PUSH_DATA: Protocol version = 02, Token = 095a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2132330608, 'time': '2023-11-27T08:07:39.252753Z', 'tmms': 1385107678252, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3392, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAIgACrfcJzwfXXErE9Rs='}]}
0:01:02.492103	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0022, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4ac4f51b)
0:01:02.494103	LOG	Server <---------- DUT
0:01:02.495103	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0008, FOpts:), FPort: e0, FRMPayload: 080f0f0f0f0f0f0f0f0f0f0f0f0f0f), MIC: f12263aa)
0:01:02.497105	LOG	Frame command sent to the DUT
0:01:02.499106	LOG	PULL_RESP: Protocol version = 02, Token = efd2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2134330608, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 29, 'data': 'YAAAAAAACADg4tI5/ajQEmK626kOm+PajPEiY6o='}}
0:01:02.500103	LOG	Server ----------> DUT
0:01:02.503751	LOG	TX_ACK: 02 efd2 05 0016c001ff1025bf
0:01:07.379051	LOG	First uplink received. Open reception window.
0:01:07.491669	LOG	PUSH_ACK: 02 2aa5 01
0:01:07.493675	LOG	GPS Time from gateway: 1385107683252
0:01:07.494669	LOG	PUSH_DATA: Protocol version = 02, Token = 2aa5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2137330392, 'time': '2023-11-27T08:07:44.252536Z', 'tmms': 1385107683252, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3404, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAIwACF3P4h9KCpc/uOp4='}]}
0:01:07.495637	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0023, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: cfee3a9e)

0:01:07.497653	LOG	Server <---------- DUT
0:01:07.498669	LOG	Command Sent header: 08
0:01:07.500673	LOG	Payload received from the DUT (bad MIC sent): 00000001020000
0:01:07.501671	LOG	Payload sent by the DUT before send the command: 00000001020000
0:01:07.502669	LOG	Echo with bad mic has been sent. DUT must ignore it
0:01:07.503672	LOG	Frame Command Payload in the Answer: 00000001020000
0:01:07.507638	LOG	Checking if the payload of the EchoPayloadAns is not correct (bad MIC)
0:01:07.511638	LOG	Send Test Command EchoPayloadReq (with bad MIC) process completed
0:01:07.514104	LOG	Send Test Command EchoPayloadReq (with bad MIC) process starts
0:01:10.689971	LOG	GPS Time updated: 1385107686562
0:01:10.691971	LOG	PULL_DATA: 02 e2a3 02 0016c001ff1025bf
0:01:10.692973	LOG	PULL_ACK: 02 e2a3 04
0:01:12.378151	LOG	First uplink received. Open reception window.
0:01:12.492430	LOG	PUSH_ACK: 02 fbb7 01
0:01:12.494433	LOG	GPS Time from gateway: 1385107688252
0:01:12.495430	LOG	PUSH_DATA: Protocol version = 02, Token = fbb7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2142330130, 'time': '2023-11-27T08:07:49.252273Z', 'tmms': 1385107688252, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3385, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAJAACQEcrLz97ukAs06k='}]}
0:01:12.496431	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0024, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 402cd3a9)
0:01:12.498450	LOG	Server <---------- DUT
0:01:12.499398	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0009, FOpts:), FPort: e0, FRMPayload: 08202020202020202020202020202020202020202020), MIC: 8d6fd3f9)
0:01:12.501398	LOG	Frame command sent to the DUT
0:01:12.502399	LOG	PULL_RESP: Protocol version = 02, Token = 6d45, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2144330130, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 34, 'data': 'YAAAAAAACQDg51yHd0bEiMmBGIQFtSHr354yK1K0jW/T+Q=='}}
0:01:12.504430	LOG	Server ----------> DUT
0:01:12.507495	LOG	TX_ACK: 02 6d45 05 0016c001ff1025bf
0:01:17.381976	LOG	First uplink received. Open reception window.
0:01:17.495621	LOG	PUSH_ACK: 02 1347 01
0:01:17.497582	LOG	GPS Time from gateway: 1385107693251
0:01:17.498614	LOG	PUSH_DATA: Protocol version = 02, Token = 1347, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2147329898, 'time': '2023-11-27T08:07:54.252042Z', 'tmms': 1385107693251, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3393, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAJQACe8M6oQAM3a8zBTE='}]}
0:01:17.499619	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0025, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: af330531)
0:01:17.500613	LOG	Server <---------- DUT
0:01:17.502628	LOG	Command Sent header: 08
0:01:17.504583	LOG	Payload received from the DUT (bad MIC sent): 00000001020000
0:01:17.505614	LOG	Payload sent by the DUT before send the command: 00000001020000
0:01:17.506617	LOG	Echo with bad mic has been sent. DUT must ignore it
0:01:17.508583	LOG	Frame Command Payload in the Answer: 00000001020000
0:01:17.511604	LOG	Checking if the payload of the EchoPayloadAns is not correct (bad MIC)
0:01:17.515203	LOG	Send Test Command EchoPayloadReq (with bad MIC) process completed
0:01:17.517781	LOG	Send Test Command EchoPayloadReq (with bad MIC) process starts
0:01:20.700074	LOG	GPS Time updated: 1385107696570
0:01:20.701071	LOG	PULL_DATA: 02 549a 02 0016c001ff1025bf
0:01:20.703072	LOG	PULL_ACK: 02 549a 04

0:01:22.373475	LOG	First uplink received. Open reception window.
0:01:22.478658	LOG	PUSH_ACK: 02 3163 01
0:01:22.480695	LOG	GPS Time from gateway: 1385107698251
0:01:22.481696	LOG	PUSH_DATA: Protocol version = 02, Token = 3163, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2152329677, 'time': '2023-11-27T08:07:59.251820Z', 'tmms': 1385107698251, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3385, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAJgACBJH0HXydF6s3Zck='}]}
0:01:22.482701	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0026, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ab3765c9)
0:01:22.484660	LOG	Server <---------- DUT
0:01:22.485691	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 000a, FOpts:), FPort: e0, FRMPayload: 08010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: b7367c91)
0:01:22.487698	LOG	Frame command sent to the DUT
0:01:22.488661	LOG	PULL_RESP: Protocol version = 02, Token = c666, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2154329677, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAACgDgU7WMxhSrJUBMa9KFQtitxlSAZLR2ay6uFpZqbmfrwvzeBGpGJ03tcer9Fobf3XBDTcxYtzZ8kQ=='}}
0:01:22.489695	LOG	Server ----------> DUT
0:01:22.493546	LOG	TX_ACK: 02 c666 05 0016c001ff1025bf
0:01:27.377284	LOG	#**********CURRENT BEACON SENT**********#
0:01:27.379630	LOG	PULL_RESP: Protocol version = 02, Token = 9566, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385107712000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAEY9SQgUAAAAAAAAAAA='}}
0:01:27.380630	LOG	Server ----------> DUT
0:01:27.381662	LOG	#**********#
0:01:27.391632	LOG	#**********NEXT BEACON QUEUED**********#
0:01:27.393662	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385107840000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAEY9SetgAAAAAAAAAAA='}}
0:01:27.394666	LOG	Server ----------> DUT
0:01:27.395662	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 80118f52, CRC1: 7ad8, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385107840000
0:01:27.397662	LOG	#**********#
0:01:27.398663	LOG	Next BEACON scheduled at GPS time (ms): 1385107968000
0:01:27.399662	LOG	First uplink received. Open reception window.
0:01:27.400662	LOG	TX_ACK: 02 9566 05 0016c001ff1025bf
0:01:27.512134	LOG	PUSH_ACK: 02 3223 01
0:01:27.514135	LOG	GPS Time from gateway: 1385107703251
0:01:27.515135	LOG	PUSH_DATA: Protocol version = 02, Token = 3223, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2157329414, 'time': '2023-11-27T08:08:04.251556Z', 'tmms': 1385107703251, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3415, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAJwACTxrIIKvjJgKdkps='}]}

0:01:27.516135	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0027, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 029d929b)
0:01:27.517134	LOG	Server <---------- DUT
0:01:27.519135	LOG	Command Sent header: 08
0:01:27.521135	LOG	Payload received from the DUT (bad MIC sent): 00000001020000
0:01:27.522135	LOG	Payload sent by the DUT before send the command: 00000001020000
0:01:27.523134	LOG	Echo with bad mic has been sent. DUT must ignore it
0:01:27.525136	LOG	Frame Command Payload in the Answer: 00000001020000
0:01:27.529143	LOG	Checking if the payload of the EchoPayloadAns is not correct (bad MIC)
0:01:27.533136	LOG	Send Test Command EchoPayloadReq (with bad MIC) process completed
0:01:27.536136	LOG	End Test Step: Message Integrity Code
0:01:27.540136	LOG	Partial Verdict: PASS
0:01:27.543137	LOG	==========
0:01:27.547136	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_002
0:01:27.548136	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_003	
Verdict	PASS	
Date	2023-11-27 09:08:05	
Description		
Technology Version	LCTT v3.11.0_R1 | GUI v2.6.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.3	
Test Specs Version	USv1.5.1/EUv1.6.2/KRv1.2.1/ASv1.1.1/INv1.1.1/ALL_Av1.6/ALL_Cv1.0/ ALL_Bv1.0/SCHCv1.1/ALPv1.0	
Project	ref-stack	
Project Creation Date	2023-10-04 09:10:20	
Sample Parameters		
	Conformance	TRUE

Time Stamp (ms)	Event	Summary
0:00:00.008869	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_003
0:00:00.064344	LOG	==========
0:00:00.066346	LOG	Start Test Step: Device activation
0:00:00.149353	LOG	Activation process has finished successfully
0:00:00.151356	LOG	Data stored in the DUT after Activation:
0:00:00.154355	LOG	DevAddr: 00000000
0:00:00.156866	LOG	AppEUI: 0000000000000000
0:00:00.159866	LOG	NwkSKey: 6bfb58c6a233389e6e66450a9e520a70
0:00:00.162876	LOG	AppSKey: ded4e508ab9cede444c3765e0533fcac
0:00:00.165866	LOG	End Test Step: Device activation
0:00:00.169866	LOG	Partial Verdict: PASS
0:00:00.173865	LOG	==========
0:00:00.178871	LOG	==========
0:00:00.180867	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.191869	LOG	DUT Pre-condition activation process starts
0:00:00.194868	LOG	DUT Pre-condition activation completed
0:00:00.197868	LOG	End Test Step: DUT Pre-condition settings
0:00:00.201867	LOG	Partial Verdict: PASS
0:00:00.205869	LOG	==========
0:00:00.210870	LOG	==========
0:00:00.212869	LOG	Start Test Step: Downlink Sequence Number
0:00:00.223869	LOG	Step 01
0:00:00.232870	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:00:01.017206	LOG	GPS Time updated: 1385107703251

0:00:01.018236	LOG	PULL_DATA: 02 4ece 02 0016c001ff1025bf
0:00:01.020206	LOG	PULL_ACK: 02 4ece 04
0:00:02.661145	LOG	First uplink received. Open reception window.
0:00:02.772727	LOG	PUSH_ACK: 02 7571 01
0:00:02.774727	LOG	GPS Time from gateway: 1385107708251
0:00:02.776695	LOG	PUSH_DATA: Protocol version = 02, Token = 7571, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2162329185, 'time': '2023-11-27T08:08:09.251326Z', 'tmms': 1385107708251, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3393, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAKAACsTPZY87bw8bOm48='}]}
0:00:02.777728	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0028, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c6ce9b8f)
0:00:02.778696	LOG	Server <---------- DUT
0:00:02.781696	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:00:02.787694	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:02.791696	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 006f, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 28ad0631)
0:00:02.792695	LOG	Frame command sent to the DUT
0:00:02.794697	LOG	PULL_RESP: Protocol version = 02, Token = 187f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2164329185, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAbwDg41AorQYx'}}
0:00:02.795696	LOG	Server ----------> DUT
0:00:02.798319	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:02.802352	LOG	Step 02
0:00:02.805150	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:00:07.654305	LOG	First uplink received. Open reception window.
0:00:07.770527	LOG	PUSH_ACK: 02 b64d 01
0:00:07.772497	LOG	GPS Time from gateway: 1385107713250
0:00:07.773529	LOG	PUSH_DATA: Protocol version = 02, Token = b64d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2167328951, 'time': '2023-11-27T08:08:14.251091Z', 'tmms': 1385107713250, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3393, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAKQACTGX/UrtTmlOURBY='}]}
0:00:07.774529	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0029, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 53944416)
0:00:07.776497	LOG	Server <---------- DUT
0:00:07.779527	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:00:07.783496	LOG	Check previous uplink sequence process starts
0:00:07.787497	LOG	Uplink received with expected sequence
0:00:07.796529	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:07.800497	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 006e, FOpts:), FPort: e0, FRMPayload: 0702), MIC: 3fd20a40)
0:00:07.802497	LOG	Frame command sent to the DUT
0:00:07.803497	LOG	PULL_RESP: Protocol version = 02, Token = 874a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2169328951, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'oAAAAAAAbgDg2Gw/0gpA'}}
0:00:07.804498	LOG	Server ----------> DUT
0:00:07.807501	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:07.810536	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:00:11.167278	LOG	GPS Time updated: 1385107716763
0:00:11.168502	LOG	PULL_DATA: 02 216b 02 0016c001ff1025bf
0:00:11.170502	LOG	PULL_ACK: 02 216b 04
0:00:12.650234	LOG	First uplink received. Open reception window.
0:00:12.753703	LOG	PUSH_ACK: 02 2871 01

0:00:12.755708	LOG	GPS Time from gateway: 1385107718250
0:00:12.756708	LOG	PUSH_DATA: Protocol version = 02, Token = 2871, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2172328694, 'time': '2023-11-27T08:08:19.250832Z', 'tmms': 1385107718250, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3396, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAKgACRoCs7BvohXJp4QM='}]}
0:00:12.757707	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 002a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7269e103)
0:00:12.758708	LOG	Server <---------- DUT
0:00:12.761709	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:00:12.766709	LOG	Check previous uplink sequence process starts
0:00:12.770218	LOG	Uplink received with expected sequence
0:00:12.779217	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:12.783219	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 006d, FOpts:), FPort: e0, FRMPayload: 0702), MIC: 797d5625)
0:00:12.785241	LOG	Frame command sent to the DUT
0:00:12.787221	LOG	PULL_RESP: Protocol version = 02, Token = d84e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2174328694, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'oAAAAAAAbQDg3795fVYl'}}
0:00:12.788220	LOG	Server ----------> DUT
0:00:12.791220	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:12.794220	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:00:17.655498	LOG	First uplink received. Open reception window.
0:00:17.769158	LOG	PUSH_ACK: 02 2e25 01
0:00:17.771126	LOG	GPS Time from gateway: 1385107723250
0:00:17.772126	LOG	PUSH_DATA: Protocol version = 02, Token = 2e25, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2177328465, 'time': '2023-11-27T08:08:24.250604Z', 'tmms': 1385107723250, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3396, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAKwAC8wQsGmFWZOpS6XM='}]}
0:00:17.773126	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 002b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ea52e973)
0:00:17.774631	LOG	Server <---------- DUT
0:00:17.777638	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:00:17.781639	LOG	Check previous uplink sequence process starts
0:00:17.785461	LOG	Uplink received with expected sequence
0:00:17.793486	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:17.797492	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 006c, FOpts:), FPort: e0, FRMPayload: 0702), MIC: 958d1f13)
0:00:17.798486	LOG	Frame command sent to the DUT
0:00:17.800453	LOG	PULL_RESP: Protocol version = 02, Token = 9086, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2179328465, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'oAAAAAAAbADgcN2VjR8T'}}
0:00:17.802455	LOG	Server ----------> DUT
0:00:17.804454	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:17.807487	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:00:21.367783	LOG	GPS Time updated: 1385107726962
0:00:21.369750	LOG	PULL_DATA: 02 cf37 02 0016c001ff1025bf
0:00:21.370750	LOG	PULL_ACK: 02 cf37 04
0:00:22.657948	LOG	First uplink received. Open reception window.
0:00:22.772441	LOG	PUSH_ACK: 02 80f9 01
0:00:22.774408	LOG	GPS Time from gateway: 1385107728250
0:00:22.775409	LOG	PUSH_DATA: Protocol version = 02, Token = 80f9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2182328237, 'time': '2023-11-27T08:08:29.250375Z',

		'tmms': 1385107728250, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3404, 'rssi': -49, 'size': 20, 'data': 'QAAAAACALAAClNJN1CdNSSEh5tg='}]}
0:00:22.776409	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 002c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2121e6d8)
0:00:22.778410	LOG	Server <---------- DUT
0:00:22.780922	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:00:22.784922	LOG	Check previous uplink sequence process starts
0:00:22.788925	LOG	Uplink received with expected sequence
0:00:22.797924	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:22.801955	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 006b, FOpts:), FPort: e0, FRMPayload: 0702), MIC: a2024fd1)
0:00:22.802955	LOG	Frame command sent to the DUT
0:00:22.804951	LOG	PULL_RESP: Protocol version = 02, Token = 40c7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2184328237, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'oAAAAAAAawDgPzCiAk/R'}}
0:00:22.805924	LOG	Server ----------> DUT
0:00:22.808948	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:22.812928	LOG	Step 03
0:00:22.815925	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:00:27.649668	LOG	First uplink received. Open reception window.
0:00:27.759367	LOG	PUSH_ACK: 02 dc62 01
0:00:27.761335	LOG	GPS Time from gateway: 1385107733249
0:00:27.762369	LOG	PUSH_DATA: Protocol version = 02, Token = dc62, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2187328012, 'time': '2023-11-27T08:08:34.250149Z', 'tmms': 1385107733249, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3400, 'rssi': -50, 'size': 20, 'data': 'QAAAAACALQACjufoOAya3NWypl8='}]}
0:00:27.763371	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 002d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d5b2a65f)
0:00:27.764368	LOG	Server <---------- DUT
0:00:27.767369	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:00:27.771962	LOG	Check previous uplink sequence process starts
0:00:27.775481	LOG	Uplink received with expected sequence
0:00:27.783514	LOG	End Test Step: Downlink Sequence Number
0:00:27.787091	LOG	Partial Verdict: PASS
0:00:27.791090	LOG	==========
0:00:27.794092	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_003
0:00:27.795090	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_004	
Verdict	PASS	
Date	2023-11-27 09:08:35	
Description		
Technology Version	LCTT v3.11.0_R1 | GUI v2.6.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.3	
Test Specs Version	USv1.5.1/EUv1.6.2/KRv1.2.1/ASv1.1.1/INv1.1.1/ALL_Av1.6/ALL_Cv1.0/ ALL_Bv1.0/SCHCv1.1/ALPv1.0	
Project	ref-stack	
Project Creation Date	2023-10-04 09:10:20	
Sample Parameters		
	Conformance	TRUE

Time Stamp (ms)	Event	Summary

0:00:00.008326	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_004
0:00:00.064898	LOG	==========
0:00:00.066916	LOG	Start Test Step: Device activation
0:00:00.150136	LOG	Activation process has finished successfully
0:00:00.153106	LOG	Data stored in the DUT after Activation:
0:00:00.155139	LOG	DevAddr: 00000000
0:00:00.158104	LOG	AppEUI: 0000000000000000
0:00:00.161105	LOG	NwkSKey: 6bfb58c6a233389e6e66450a9e520a70
0:00:00.163104	LOG	AppSKey: ded4e508ab9cede444c3765e0533fcac
0:00:00.167104	LOG	End Test Step: Device activation
0:00:00.171102	LOG	Partial Verdict: PASS
0:00:00.174104	LOG	==========
0:00:00.179104	LOG	==========
0:00:00.181137	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.190137	LOG	DUT Pre-condition activation process starts
0:00:00.193143	LOG	DUT Pre-condition activation completed
0:00:00.196140	LOG	End Test Step: DUT Pre-condition settings
0:00:00.199138	LOG	Partial Verdict: PASS
0:00:00.203145	LOG	==========
0:00:00.208177	LOG	==========
0:00:00.210191	LOG	Start Test Step: Confirmed Uplinks
0:00:00.220257	LOG	Step 01
0:00:00.222288	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:00:01.449428	LOG	GPS Time updated: 1385107733297
0:00:01.450428	LOG	PULL_DATA: 02 19b0 02 0016c001ff1025bf
0:00:01.451428	LOG	PULL_ACK: 02 19b0 04
0:00:02.686483	LOG	First uplink received. Open reception window.
0:00:02.791520	LOG	PUSH_ACK: 02 1e6d 01
0:00:02.793520	LOG	GPS Time from gateway: 1385107738249
0:00:02.794520	LOG	PUSH_DATA: Protocol version = 02, Token = 1e6d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2192327787, 'time': '2023-11-27T08:08:39.249923Z', 'tmms': 1385107738249, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3400, 'rssi': -49, 'size': 20, 'data': 'QAAAAACALgACcqTOvPUraHQ8Q1U='}]}
0:00:02.796488	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 002e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 743c4355)
0:00:02.797488	LOG	Server <---------- DUT
0:00:02.800489	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:00:02.804487	LOG	Send Test Command RxAppCntReq process starts
0:00:02.808490	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0102, FOpts:), FPort: e0, FRMPayload: 09), MIC: 9463d819)
0:00:02.809489	LOG	Frame command sent to the DUT
0:00:02.811495	LOG	PULL_RESP: Protocol version = 02, Token = f2d5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2194327787, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAAgHg9ZRj2Bk='}}
0:00:02.812492	LOG	Server ----------> DUT
0:00:02.816525	LOG	TX_ACK: 02 f2d5 05 0016c001ff1025bf
0:00:05.944094	LOG	First uplink received. Open reception window.
0:00:06.058436	LOG	PUSH_ACK: 02 4a4f 01
0:00:06.060436	LOG	GPS Time from gateway: 1385107741508
0:00:06.061437	LOG	PUSH_DATA: Protocol version = 02, Token = 4a4f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2195586084, 'time': '2023-11-27T08:08:42.508218Z', 'tmms': 1385107741508, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3415, 'rssi': -50, 'size': 16, 'data': 'QAAAAACALwDgKwTd8W0jig==’}]}
0:00:06.062404	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 002f, FOpts:), FPort: e0, FRMPayload: 092400, MIC: f16d238a)
0:00:06.064405	LOG	Server <---------- DUT
0:00:06.066405	LOG	Frame Command Payload in the Answer: 092400
0:00:06.070403	LOG	RX Count received by DUT: 36
0:00:06.072405	LOG	Send Test Command RxAppCntReq process completed
0:00:06.076406	LOG	Step 02
0:00:06.082403	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:06.085406	LOG	Frame command RxAppCntReq received
0:00:06.087404	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0103, FOpts:), FPort: e0, FRMPayload: 0702), MIC: 80567ba0)
0:00:06.089407	LOG	Frame command sent to the DUT
0:00:06.090405	LOG	PULL_RESP: Protocol version = 02, Token = 8129, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2197586084, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'oAAAAAAAAwHghsGAVnug'}}
0:00:06.092406	LOG	Server ----------> DUT
0:00:06.094406	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:06.099407	LOG	Step 03
0:00:06.101438	LOG	Wait Until Confirmed Uplink arrives process starts
0:00:09.189076	LOG	First uplink received. Open reception window.
0:00:09.304953	LOG	PUSH_ACK: 02 d17c 01
0:00:09.306953	LOG	GPS Time from gateway: 1385107744755
0:00:09.307953	LOG	PUSH_DATA: Protocol version = 02, Token = d17c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2198833795, 'time': '2023-11-27T08:08:45.755930Z', 'tmms': 1385107744755, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3419, 'rssi': -51, 'size': 12, 'data': 'gAAAAACgMADbFB6a'}]}
0:00:09.308955	LOG	DATA: (MHDR: 80, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 0030, FOpts:), FPort: , FRMPayload: , MIC: db141e9a)
0:00:09.309955	LOG	Server <---------- DUT
0:00:09.312962	LOG	Wait Until Confirmed Uplink arrives tested successfully
0:00:09.318929	LOG	Send ACK to DUT process starts
0:00:09.321930	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 20, FCnt: 0104, FOpts:), FPort: , FRMPayload:), MIC: e6ff0d32)
0:00:09.322930	LOG	PULL_RESP: Protocol version = 02, Token = 238b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2200833795, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 12, 'data': 'YAAAAAAgBAHm/w0y'}}
0:00:09.324930	LOG	Server ----------> DUT
0:00:09.327435	LOG	Send ACK to DUT tested successfully
0:00:09.331256	LOG	Step 04
0:00:09.333298	LOG	Wait Until Confirmed Uplink arrives process starts
0:00:11.629742	LOG	GPS Time updated: 1385107747195
0:00:11.630746	LOG	PULL_DATA: 02 731f 02 0016c001ff1025bf
0:00:11.632747	LOG	PULL_ACK: 02 731f 04
0:00:12.683030	LOG	First uplink received. Open reception window.
0:00:12.784577	LOG	PUSH_ACK: 02 4ae9 01
0:00:12.786543	LOG	GPS Time from gateway: 1385107748249
0:00:12.787544	LOG	PUSH_DATA: Protocol version = 02, Token = 4ae9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2202327297, 'time': '2023-11-27T08:08:49.249431Z', 'tmms': 1385107748249, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3415, 'rssi': -49, 'size': 20, 'data': 'gAAAAACAMQACkt+GLSt2Ne3HSJU='}]}

0:00:12.788545	LOG	DATA: (MHDR: 80, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0031, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: edc74895)
0:00:12.790545	LOG	Server <---------- DUT
0:00:12.793545	LOG	Wait Until Confirmed Uplink arrives tested successfully
0:00:12.798545	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:12.802545	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 20, FCnt: 0105, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 29ac1ef4)
0:00:12.804543	LOG	Frame command sent to the DUT
0:00:12.805545	LOG	PULL_RESP: Protocol version = 02, Token = e5c1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2204327297, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAgBQHgeUcprB70'}}
0:00:12.807579	LOG	Server ----------> DUT
0:00:12.809546	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:12.813581	LOG	Step 05
0:00:12.816580	LOG	Wait Until Confirmed Uplink arrives process starts
0:00:17.760946	LOG	First uplink received. Open reception window.
0:00:17.862597	LOG	PUSH_ACK: 02 7bc0 01
0:00:17.864565	LOG	GPS Time from gateway: 1385107753321
0:00:17.865566	LOG	PUSH_DATA: Protocol version = 02, Token = 7bc0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2207399664, 'time': '2023-11-27T08:08:54.321796Z', 'tmms': 1385107753321, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3400, 'rssi': -50, 'size': 20, 'data': 'gAAAAACAMgACnPF1cnYhNa9nuPw='}]}
0:00:17.866566	LOG	DATA: (MHDR: 80, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0032, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: af67b8fc)
0:00:17.868566	LOG	Server <---------- DUT
0:00:17.870567	LOG	Wait Until Confirmed Uplink arrives tested successfully
0:00:17.876601	LOG	Send Test Command RxAppCntReq process starts
0:00:17.880567	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 20, FCnt: 0106, FOpts:), FPort: e0, FRMPayload: 09), MIC: 26ef30cf)
0:00:17.881566	LOG	Frame command sent to the DUT
0:00:17.883567	LOG	PULL_RESP: Protocol version = 02, Token = 32ed, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2209399664, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAgBgHgcCbvMM8='}}
0:00:17.884567	LOG	Server ----------> DUT
0:00:17.888396	LOG	TX_ACK: 02 32ed 05 0016c001ff1025bf
0:00:21.017534	LOG	First uplink received. Open reception window.
0:00:21.122216	LOG	PUSH_ACK: 02 5a31 01
0:00:21.124185	LOG	GPS Time from gateway: 1385107756579
0:00:21.125223	LOG	PUSH_DATA: Protocol version = 02, Token = 5a31, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2210657725, 'time': '2023-11-27T08:08:57.579858Z', 'tmms': 1385107756579, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3423, 'rssi': -50, 'size': 16, 'data': 'gAAAAACAMwDgPPi7TcIcXg=='}]}
0:00:21.126191	LOG	DATA: (MHDR: 80, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0033, FOpts:), FPort: e0, FRMPayload: 092800, MIC: 4dc21c5e)
0:00:21.127222	LOG	Server <---------- DUT
0:00:21.129223	LOG	Frame Command Payload in the Answer: 092800
0:00:21.132807	LOG	RX Count received by DUT: 40
0:00:21.134722	LOG	Send Test Command RxAppCntReq process completed
0:00:21.137732	LOG	Check uplink frame type process starts
0:00:21.140243	LOG	Confirmed Uplink received
0:00:21.141244	LOG	Frame command RxAppCntReq received
0:00:21.143243	LOG	Check uplink frame type tested successfully

0:00:21.150244	LOG	Step 06
0:00:21.156244	LOG	Step 07
0:00:21.159244	LOG	Wait Until Confirmed Uplink arrives process starts
0:00:21.659036	LOG	GPS Time updated: 1385107757222
0:00:21.661036	LOG	PULL_DATA: 02 0d7b 02 0016c001ff1025bf
0:00:21.662038	LOG	PULL_ACK: 02 0d7b 04
0:00:27.688073	LOG	First uplink received. Open reception window.
0:00:27.801077	LOG	PUSH_ACK: 02 9c36 01
0:00:27.803077	LOG	GPS Time from gateway: 1385107763248
0:00:27.804078	LOG	PUSH_DATA: Protocol version = 02, Token = 9c36, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2217326585, 'time': '2023-11-27T08:09:04.248717Z', 'tmms': 1385107763248, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3404, 'rssi': -49, 'size': 20, 'data': 'gAAAAACANAAC2E/rmRJwPtJtG5I='}]}
0:00:27.805044	LOG	DATA: (MHDR: 80, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0034, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d26d1b92)
0:00:27.807045	LOG	Server <---------- DUT
0:00:27.809077	LOG	Wait Until Confirmed Uplink arrives tested successfully
0:00:27.816044	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:27.820046	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 20, FCnt: 0107, FOpts:), FPort: e0, FRMPayload: 0701), MIC: fb28639f)
0:00:27.821079	LOG	Frame command sent to the DUT
0:00:27.823080	LOG	PULL_RESP: Protocol version = 02, Token = 1c40, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2219326585, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAgBwHgwL77KGOf'}}
0:00:27.824057	LOG	Server ----------> DUT
0:00:27.827047	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:27.830078	LOG	Step 08
0:00:27.833136	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:00:31.810401	LOG	GPS Time updated: 1385107767370
0:00:31.811434	LOG	PULL_DATA: 02 5bbc 02 0016c001ff1025bf
0:00:31.813434	LOG	PULL_ACK: 02 5bbc 04
0:00:32.682088	LOG	First uplink received. Open reception window.
0:00:32.784737	LOG	PUSH_ACK: 02 02db 01
0:00:32.786706	LOG	GPS Time from gateway: 1385107768248
0:00:32.788727	LOG	PUSH_DATA: Protocol version = 02, Token = 02db, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2222326360, 'time': '2023-11-27T08:09:09.248491Z', 'tmms': 1385107768248, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3412, 'rssi': -49, 'size': 20, 'data': 'QAAAAACANQAC7pu/wgYyzln8dIc='}]}
0:00:32.789742	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0035, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 59fc7487)
0:00:32.790738	LOG	Server <---------- DUT
0:00:32.794705	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:00:32.799382	LOG	End Test Step: Confirmed Uplinks
0:00:32.803413	LOG	Partial Verdict: PASS
0:00:32.807414	LOG	==========
0:00:32.811568	LOG	==========
0:00:32.813577	LOG	Start Test Step: Restore unconfirmed frame in DUT
0:00:32.822578	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:37.686802	LOG	First uplink received. Open reception window.
0:00:37.800464	LOG	PUSH_ACK: 02 b5de 01
0:00:37.802427	LOG	GPS Time from gateway: 1385107773248
0:00:37.803426	LOG	PUSH_DATA: Protocol version = 02, Token = b5de, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2227326098, 'time': '2023-11-27T08:09:14.248228Z',

		'tmms': 1385107773248, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3415, 'rssi': -49, 'size': 20, 'data': 'QAAAAACANgAC/Eem6GSXsU0VL1Y='}]}
0:00:37.804428	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0036, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4d152f56)
0:00:37.806428	LOG	Server <---------- DUT
0:00:37.808427	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0108, FOpts:), FPort: e0, FRMPayload: 0701), MIC: b6f39721)
0:00:37.809428	LOG	Frame command sent to the DUT
0:00:37.810428	LOG	PULL_RESP: Protocol version = 02, Token = 40c9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2229326098, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAACAHga02285ch'}}
0:00:37.812428	LOG	Server ----------> DUT
0:00:37.814428	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:37.817463	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:00:42.011402	LOG	GPS Time updated: 1385107777572
0:00:42.013120	LOG	PULL_DATA: 02 3d52 02 0016c001ff1025bf
0:00:42.014295	LOG	PULL_ACK: 02 3d52 04
0:00:42.685776	LOG	First uplink received. Open reception window.
0:00:42.798426	LOG	PUSH_ACK: 02 b657 01
0:00:42.800426	LOG	GPS Time from gateway: 1385107778247
0:00:42.801426	LOG	PUSH_DATA: Protocol version = 02, Token = b657, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2232325836, 'time': '2023-11-27T08:09:19.247965Z', 'tmms': 1385107778247, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3416, 'rssi': -50, 'size': 20, 'data': 'QAAAAACANwAC+lUzOrJ3kTM+fvQ='}]}
0:00:42.802395	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0037, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 333e7ef4)
0:00:42.803394	LOG	Server <---------- DUT
0:00:42.807395	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:00:42.809394	LOG	End Test Step: Restore unconfirmed frame in DUT
0:00:42.813396	LOG	Partial Verdict: PASS
0:00:42.817395	LOG	==========
0:00:42.822395	LOG	==========
0:00:42.824395	LOG	Start Test Step: Confirmed Downlinks
0:00:42.834394	LOG	Step 01
0:00:42.837396	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:00:47.688953	LOG	First uplink received. Open reception window.
0:00:47.796532	LOG	PUSH_ACK: 02 02d4 01
0:00:47.798534	LOG	GPS Time from gateway: 1385107783247
0:00:47.799534	LOG	PUSH_DATA: Protocol version = 02, Token = 02d4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2237325615, 'time': '2023-11-27T08:09:24.247743Z', 'tmms': 1385107783247, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3412, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAOAACQZeuyzqDYGOg2oc='}]}
0:00:47.800534	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0038, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 63a0da87)
0:00:47.801535	LOG	Server <---------- DUT
0:00:47.804537	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:00:47.809535	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:47.813536	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0109, FOpts:), FPort: e0, FRMPayload: 0702), MIC: 32061b42)
0:00:47.815590	LOG	Frame command sent to the DUT
0:00:47.816535	LOG	PULL_RESP: Protocol version = 02, Token = a6f1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2239325615, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'oAAAAAAACQHglnUyBhtC'}}
0:00:47.818535	LOG	Server ----------> DUT
0:00:47.820537	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:47.826543	LOG	Step 02
0:00:47.829535	LOG	Check ACK bit in next uplink process starts
0:00:50.929690	LOG	First uplink received. Open reception window.
0:00:51.039371	LOG	PUSH_ACK: 02 c44c 01
0:00:51.041342	LOG	GPS Time from gateway: 1385107786495
0:00:51.042338	LOG	PUSH_DATA: Protocol version = 02, Token = c44c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2240573341, 'time': '2023-11-27T08:09:27.495469Z', 'tmms': 1385107786495, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3423, 'rssi': -50, 'size': 12, 'data': 'gAAAAACgOQAINdr/'}]}
0:00:51.043339	LOG	DATA: (MHDR: 80, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 0039, FOpts:), FPort: , FRMPayload: , MIC: 0835daff)
0:00:51.045338	LOG	Server <---------- DUT
0:00:51.046339	LOG	ACK bit in FCtrl field is set
0:00:51.048757	LOG	Check ACK bit in next uplink tested successfully
0:00:51.055166	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:51.058472	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 20, FCnt: 010a, FOpts:), FPort: e0, FRMPayload: 0701), MIC: ed430f2f)
0:00:51.060421	LOG	Frame command sent to the DUT
0:00:51.061826	LOG	PULL_RESP: Protocol version = 02, Token = b54c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2242573341, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'oAAAAAAgCgHgeL7tQw8v'}}
0:00:51.062888	LOG	Server ----------> DUT
0:00:51.064985	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:51.071031	LOG	Step 03
0:00:51.074288	LOG	Check ACK bit in next uplink process starts
0:00:52.111066	LOG	GPS Time updated: 1385107787676
0:00:52.112066	LOG	PULL_DATA: 02 2495 02 0016c001ff1025bf
0:00:52.113064	LOG	PULL_ACK: 02 2495 04
0:00:54.176836	LOG	First uplink received. Open reception window.
0:00:54.280132	LOG	PUSH_ACK: 02 c897 01
0:00:54.282101	LOG	GPS Time from gateway: 1385107789742
0:00:54.283132	LOG	PUSH_DATA: Protocol version = 02, Token = c897, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2243820516, 'time': '2023-11-27T08:09:30.742643Z', 'tmms': 1385107789742, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3435, 'rssi': -50, 'size': 12, 'data': 'QAAAAACgOgDX6dBx'}]}
0:00:54.284132	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 003a, FOpts:), FPort: , FRMPayload: , MIC: d7e9d071)
0:00:54.286123	LOG	Server <---------- DUT
0:00:54.287133	LOG	ACK bit in FCtrl field is set
0:00:54.290100	LOG	Check ACK bit in next uplink tested successfully
0:00:54.296156	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:54.300136	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 010b, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 71d380e8)
0:00:54.301133	LOG	Frame command sent to the DUT
0:00:54.302134	LOG	PULL_RESP: Protocol version = 02, Token = c4b1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2245820516, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'oAAAAAAACwHgmwpx04Do'}}
0:00:54.304134	LOG	Server ----------> DUT

0:00:54.306248	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:54.312257	LOG	Step 04
0:00:54.315276	LOG	Check ACK bit in next uplink process starts
0:00:57.422867	LOG	First uplink received. Open reception window.
0:00:57.523462	LOG	PUSH_ACK: 02 b512 01
0:00:57.525431	LOG	GPS Time from gateway: 1385107792989
0:00:57.526466	LOG	PUSH_DATA: Protocol version = 02, Token = b512, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2247068080, 'time': '2023-11-27T08:09:33.990207Z', 'tmms': 1385107792989, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3419, 'rssi': -51, 'size': 12, 'data': 'QAAAAACgOwAkEf91'}]}
0:00:57.528429	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 003b, FOpts:), FPort: , FRMPayload: , MIC: 2411ff75)
0:00:57.529430	LOG	Server <---------- DUT
0:00:57.530432	LOG	ACK bit in FCtrl field is set
0:00:57.533438	LOG	Check ACK bit in next uplink tested successfully
0:00:57.539431	LOG	Step 05
0:00:57.543757	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:01:02.280183	LOG	GPS Time updated: 1385107797847
0:01:02.282734	LOG	PULL_DATA: 02 d2db 02 0016c001ff1025bf
0:01:02.283768	LOG	PULL_ACK: 02 d2db 04
0:01:02.685674	LOG	First uplink received. Open reception window.
0:01:02.792291	LOG	PUSH_ACK: 02 61e0 01
0:01:02.794260	LOG	GPS Time from gateway: 1385107798246
0:01:02.795259	LOG	PUSH_DATA: Protocol version = 02, Token = 61e0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2252324841, 'time': '2023-11-27T08:09:39.246967Z', 'tmms': 1385107798246, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3416, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAPAACE9QZTtGGCyNcV+0='}]}
0:01:02.797263	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 003c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 235c57ed)
0:01:02.798260	LOG	Server <---------- DUT
0:01:02.801259	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:01:02.806260	LOG	Check previous uplink sequence process starts
0:01:02.810245	LOG	Uplink received with expected sequence
0:01:02.818185	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:02.822189	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 010b, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 71d380e8)
0:01:02.824154	LOG	Frame command sent to the DUT
0:01:02.825186	LOG	PULL_RESP: Protocol version = 02, Token = 3aa1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2254324841, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'oAAAAAAACwHgmwpx04Do'}}
0:01:02.826185	LOG	Server ----------> DUT
0:01:02.829155	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:02.832188	LOG	Check ACK bit in next uplink process starts
0:01:07.687054	LOG	First uplink received. Open reception window.
0:01:07.793232	LOG	PUSH_ACK: 02 56fd 01
0:01:07.795201	LOG	GPS Time from gateway: 1385107803246
0:01:07.796201	LOG	PUSH_DATA: Protocol version = 02, Token = 56fd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2257324574, 'time': '2023-11-27T08:09:44.246699Z', 'tmms': 1385107803246, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3407, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAPQACb39jnbB7ZktqvuI='}]}
0:01:07.798202	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 003d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4b6abee2)

0:01:07.799201	LOG	Server <---------- DUT
0:01:07.805234	LOG	Check previous uplink sequence process starts
0:01:07.809203	LOG	Uplink received with expected sequence
0:01:07.817865	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:07.821833	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 010b, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 71d380e8)
0:01:07.822833	LOG	Frame command sent to the DUT
0:01:07.824834	LOG	PULL_RESP: Protocol version = 02, Token = 261f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2259324574, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'oAAAAAAACwHgmwpx04Do'}}
0:01:07.825833	LOG	Server ----------> DUT
0:01:07.828833	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:07.831370	LOG	Check ACK bit in next uplink process starts
0:01:12.442151	LOG	GPS Time updated: 1385107808001
0:01:12.443151	LOG	PULL_DATA: 02 1643 02 0016c001ff1025bf
0:01:12.445153	LOG	PULL_ACK: 02 1643 04
0:01:12.681394	LOG	First uplink received. Open reception window.
0:01:12.792942	LOG	PUSH_ACK: 02 c871 01
0:01:12.794484	LOG	GPS Time from gateway: 1385107808246
0:01:12.795523	LOG	PUSH_DATA: Protocol version = 02, Token = c871, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2262324353, 'time': '2023-11-27T08:09:49.246477Z', 'tmms': 1385107808246, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3407, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAPgAChMjj5OgnJ5Q07e4='}]}
0:01:12.797489	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 003e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9434edee)
0:01:12.798488	LOG	Server <---------- DUT
0:01:12.804240	LOG	Check previous uplink sequence process starts
0:01:12.807282	LOG	Uplink received with expected sequence
0:01:12.816403	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:12.819435	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 010b, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 71d380e8)
0:01:12.821403	LOG	Frame command sent to the DUT
0:01:12.822435	LOG	PULL_RESP: Protocol version = 02, Token = d11f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2264324353, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'oAAAAAAACwHgmwpx04Do'}}
0:01:12.824402	LOG	Server ----------> DUT
0:01:12.826405	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:12.829439	LOG	Check ACK bit in next uplink process starts
0:01:17.684018	LOG	First uplink received. Open reception window.
0:01:17.793710	LOG	PUSH_ACK: 02 ffca 01
0:01:17.795678	LOG	GPS Time from gateway: 1385107813245
0:01:17.796711	LOG	PUSH_DATA: Protocol version = 02, Token = ffca, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2267324084, 'time': '2023-11-27T08:09:54.246207Z', 'tmms': 1385107813245, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3412, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAPwACo401pZ4I6/RWVMc='}]}
0:01:17.797715	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 003f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f45654c7)
0:01:17.798710	LOG	Server <---------- DUT
0:01:17.804667	LOG	Check previous uplink sequence process starts
0:01:17.807709	LOG	Uplink received with expected sequence
0:01:17.816709	LOG	Send Test Command TxFramesCtrlReq process starts

0:01:17.820678	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 010b, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 71d380e8)
0:01:17.821711	LOG	Frame command sent to the DUT
0:01:17.823710	LOG	PULL_RESP: Protocol version = 02, Token = df2d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2269324084, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'oAAAAAAACwHgmwpx04Do'}}
0:01:17.824710	LOG	Server ----------> DUT
0:01:17.827623	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:17.830665	LOG	Check ACK bit in next uplink process starts
0:01:22.652612	LOG	GPS Time updated: 1385107818213
0:01:22.653649	LOG	PULL_DATA: 02 4db5 02 0016c001ff1025bf
0:01:22.654643	LOG	PULL_ACK: 02 4db5 04
0:01:22.683741	LOG	First uplink received. Open reception window.
0:01:22.794431	LOG	PUSH_ACK: 02 a88a 01
0:01:22.796432	LOG	GPS Time from gateway: 1385107818245
0:01:22.797434	LOG	PUSH_DATA: Protocol version = 02, Token = a88a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2272323861, 'time': '2023-11-27T08:09:59.245982Z', 'tmms': 1385107818245, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3416, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAQAACek7dHi8znCK7wd8='}]}
0:01:22.798432	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0040, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 22bbc1df)
0:01:22.799433	LOG	Server <---------- DUT
0:01:22.805911	LOG	Check previous uplink sequence process starts
0:01:22.809913	LOG	Uplink received with expected sequence
0:01:22.811947	LOG	End Test Step: Confirmed Downlinks
0:01:22.815945	LOG	Partial Verdict: PASS
0:01:22.819944	LOG	==========
0:01:22.822945	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_004
0:01:22.823946	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_005	
Verdict	PASS	
Date	2023-11-27 09:10:00	
Description		
Technology Version	LCTT v3.11.0_R1 | GUI v2.6.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.3	
Test Specs Version	USv1.5.1/EUv1.6.2/KRv1.2.1/ASv1.1.1/INv1.1.1/ALL_Av1.6/ALL_Cv1.0/ALL_Bv1.0/SCHCv1.1/ALPv1.0	
Project	ref-stack	
Project Creation Date	2023-10-04 09:10:20	
Sample Parameters		
	Conformance	TRUE

Time Stamp (ms)	Event	Summary
0:00:00.008630	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_005
0:00:00.064294	LOG	==========
0:00:00.067254	LOG	Start Test Step: Device activation
0:00:00.149833	LOG	Activation process has finished successfully
0:00:00.152835	LOG	Data stored in the DUT after Activation:
0:00:00.154871	LOG	DevAddr: 00000000
0:00:00.157861	LOG	AppEUI: 0000000000000000
0:00:00.159870	LOG	NwkSKey: 6bfb58c6a233389e6e66450a9e520a70
0:00:00.162869	LOG	AppSKey: ded4e508ab9cede444c3765e0533fcac

0:00:00.166869	LOG	End Test Step: Device activation
0:00:00.170835	LOG	Partial Verdict: PASS
0:00:00.173870	LOG	==========
0:00:00.178838	LOG	==========
0:00:00.180836	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.189838	LOG	DUT Pre-condition activation process starts
0:00:00.192839	LOG	DUT Pre-condition activation completed
0:00:00.194871	LOG	End Test Step: DUT Pre-condition settings
0:00:00.198871	LOG	Partial Verdict: PASS
0:00:00.202871	LOG	==========
0:00:00.206875	LOG	==========
0:00:00.208838	LOG	Start Test Step: DevStatusReq MAC command
0:00:00.218887	LOG	Step 01-02
0:00:00.221927	LOG	Send DevStatusReq process starts
0:00:02.603055	LOG	PUSH_DATA received while waiting first PULL_DATA
0:00:07.604816	LOG	PUSH_DATA received while waiting first PULL_DATA
0:00:07.653443	LOG	GPS Time updated: 1385107823295
0:00:07.655445	LOG	PULL_DATA: 02 5557 02 0016c001ff1025bf
0:00:07.656433	LOG	PULL_ACK: 02 5557 04
0:00:12.604618	LOG	First uplink received. Open reception window.
0:00:12.717233	LOG	PUSH_ACK: 02 3b1d 01
0:00:12.719202	LOG	GPS Time from gateway: 1385107833244
0:00:12.721201	LOG	#**********CURRENT BEACON SENT**********#
0:00:12.722236	LOG	Error: 'DataManager' object has no attribute 'last_message'
0:00:12.723202	LOG	Cannot print the current beacon sent
0:00:12.733205	LOG	#**********NEXT BEACON QUEUED**********#
0:00:12.734237	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385107968000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAEo9SElwAAAAAAAAAAA='}}
0:00:12.736209	LOG	Server ----------> DUT
0:00:12.737206	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 00128f52, CRC1: 125c, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385107968000
0:00:12.738239	LOG	#**********#
0:00:12.739206	LOG	Next BEACON scheduled at GPS time (ms): 1385108096000
0:00:12.741206	LOG	PUSH_DATA: Protocol version = 02, Token = 3b1d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2287323116, 'time': '2023-11-27T08:10:14.245236Z', 'tmms': 1385107833244, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3407, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAQwACW/S0iBB/pxNL25g='}]}
0:00:12.742709	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0043, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 134bdb98)
0:00:12.743714	LOG	Server <---------- DUT
0:00:12.746713	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 010c, FOpts:), FPort: 00, FRMPayload: 06), MIC: e2b89ec2)
0:00:12.747712	LOG	PULL_RESP: Protocol version = 02, Token = 0ff2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2289323116, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAADAEA3+K4nsI='}}
0:00:12.749747	LOG	Server ----------> DUT
0:00:12.753756	LOG	TX_ACK: 02 0ff2 05 0016c001ff1025bf
0:00:17.609087	LOG	First uplink received. Open reception window.

0:00:17.719135	LOG	PUSH_ACK: 02 eef0 01
0:00:17.721103	LOG	GPS Time from gateway: 1385107838249
0:00:17.722103	LOG	PUSH_DATA: Protocol version = 02, Token = eef0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2292328089, 'time': '2023-11-27T08:10:19.250208Z', 'tmms': 1385107838249, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3416, 'rssi': -49, 'size': 23, 'data': 'QAAAAACDRAAGAAYCynLR2RPuaGMgs9k='}]}
0:00:17.724105	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 83, FCnt: 0044, FOpts: 060006), FPort: 02, FRMPayload: 00000001020000, MIC: 6320b3d9)
0:00:17.725136	LOG	Server <---------- DUT
0:00:17.726135	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:17.728105	LOG	Command Answer: 060006
0:00:17.729136	LOG	Multiple commands in the answer. Extracting the answer from the command DevStatusReq.
0:00:17.733178	LOG	Battery level (byte value) 00
0:00:17.734176	LOG	Radio Status (byte value) 06
0:00:17.737143	LOG	MAC command communication completed
0:00:17.740142	LOG	End Test Step: DevStatusReq MAC command
0:00:17.744144	LOG	Partial Verdict: PASS
0:00:17.747647	LOG	==========
0:00:17.750689	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_005
0:00:17.752653	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_006	
Verdict	PASS	
Date	2023-11-27 09:10:20	
Description		
Technology Version	LCTT v3.11.0_R1 | GUI v2.6.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.3	
Test Specs Version	USv1.5.1/EUv1.6.2/KRv1.2.1/ASv1.1.1/INv1.1.1/ALL_Av1.6/ALL_Cv1.0/ALL_Bv1.0/SCHCv1.1/ALPv1.0	
Project	ref-stack	
Project Creation Date	2023-10-04 09:10:20	
Sample		
Parameters	Addition of a single channel frequency	867.700
	Addition of a multiple channels frequencies	867.100;867.300;867.500;867.700;867.900;867.900;867.700;867.500;867.300;867.100;868.500;868.300;868.100
	Conformance	TRUE
	Addition of a multiple channels frequencies for 16ch GW	864.900;865.100;865.300;865.500;865.700;865.900;866.100;866.300;867.700;867.900;867.300;867.500;867.100

Time Stamp (ms)	Event	Summary
0:00:00.010027	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_006
0:00:00.066608	LOG	==========
0:00:00.068613	LOG	Start Test Step: Device activation
0:00:00.153158	LOG	Activation process has finished successfully
0:00:00.155161	LOG	Data stored in the DUT after Activation:
0:00:00.158198	LOG	DevAddr: 00000000
0:00:00.161162	LOG	AppEUI: 0000000000000000

0:00:00.163193	LOG	NwkSKey: 6bfb58c6a233389e6e66450a9e520a70
0:00:00.166194	LOG	AppSKey: ded4e508ab9cede444c3765e0533fcac
0:00:00.170161	LOG	End Test Step: Device activation
0:00:00.174195	LOG	Partial Verdict: PASS
0:00:00.178194	LOG	==========
0:00:00.182207	LOG	==========
0:00:00.184163	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.193482	LOG	DUT Pre-condition activation process starts
0:00:00.196486	LOG	DUT Pre-condition activation completed
0:00:00.199450	LOG	End Test Step: DUT Pre-condition settings
0:00:00.203449	LOG	Partial Verdict: PASS
0:00:00.206450	LOG	==========
0:00:00.211456	LOG	==========
0:00:00.213455	LOG	Start Test Step: Read-only default channels
0:00:00.223455	LOG	Step 01-02
0:00:00.226902	LOG	Send MAC command block process starts
0:00:02.677254	LOG	PUSH_DATA received while waiting first PULL_DATA
0:00:07.680822	LOG	PUSH_DATA received while waiting first PULL_DATA
0:00:07.948638	LOG	GPS Time updated: 1385107843520
0:00:07.949632	LOG	PULL_DATA: 02 e2a0 02 0016c001ff1025bf
0:00:07.951653	LOG	PULL_ACK: 02 e2a0 04
0:00:12.677809	LOG	First uplink received. Open reception window.
0:00:12.780388	LOG	PUSH_ACK: 02 7ff8 01
0:00:12.782358	LOG	GPS Time from gateway: 1385107853243
0:00:12.784359	LOG	PUSH_DATA: Protocol version = 02, Token = 7ff8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2307322131, 'time': '2023-11-27T08:10:34.244247Z', 'tmms': 1385107853243, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3416, 'rssi': -50, 'size': 20, 'data': 'QAAAAACARwACeaoAEzHVoDn+ogM='}]}
0:00:12.785390	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0047, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 39fea203)
0:00:12.787357	LOG	Server <---------- DUT
0:00:12.789357	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 010d, FOpts:), FPort: 00, FRMPayload: 0700184f84500701184f84500702184f8450), MIC: a9a8241c)
0:00:12.791355	LOG	PULL_RESP: Protocol version = 02, Token = 97d8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2309322131, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 31, 'data': 'YAAAAAAADQEA6kRaFUToAcWZolOz7QWJXSnsqagkHA=='}}
0:00:12.793360	LOG	Server ----------> DUT
0:00:12.796358	LOG	TX_ACK: 02 97d8 05 0016c001ff1025bf
0:00:17.684116	LOG	First uplink received. Open reception window.
0:00:17.795160	LOG	PUSH_ACK: 02 69e3 01
0:00:17.797164	LOG	GPS Time from gateway: 1385107858249
0:00:17.799164	LOG	PUSH_DATA: Protocol version = 02, Token = 69e3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2312327171, 'time': '2023-11-27T08:10:39.249285Z', 'tmms': 1385107858249, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3412, 'rssi': -49, 'size': 26, 'data': 'QAAAAACGSAAHAAcABwACOjYY2GzfnKCvTF8='}]}
0:00:17.800195	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 86, FCnt: 0048, FOpts: 070007000700), FPort: 02, FRMPayload: 00000001020000, MIC: a0af4c5f)
0:00:17.801163	LOG	Server <---------- DUT
0:00:17.803163	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field

0:00:17.805164	LOG	Command Answer: 070007000700
0:00:17.865413	LOG	MAC command communication completed
0:00:17.868411	LOG	End Test Step: Read-only default channels
0:00:17.872412	LOG	Partial Verdict: PASS
0:00:17.876413	LOG	==========
0:00:17.880411	LOG	==========
0:00:17.883379	LOG	Start Test Step: Addition of a single channel
0:00:17.893381	LOG	Step 03-04
0:00:17.897379	LOG	Send NewChannelReq process starts
0:00:18.038223	LOG	GPS Time updated: 1385107858603
0:00:18.039223	LOG	PULL_DATA: 02 11b6 02 0016c001ff1025bf
0:00:18.041768	LOG	PULL_ACK: 02 11b6 04
0:00:22.675256	LOG	First uplink received. Open reception window.
0:00:22.780909	LOG	PUSH_ACK: 02 98b9 01
0:00:22.782878	LOG	GPS Time from gateway: 1385107863243
0:00:22.783910	LOG	PUSH_DATA: Protocol version = 02, Token = 98b9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2317321644, 'time': '2023-11-27T08:10:44.243759Z', 'tmms': 1385107863243, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3404, 'rssi': -49, 'size': 20, 'data': 'QAAAAACASQAC3zFYCstKpus3f1E='}]}
0:00:22.785912	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0049, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: eb377f51)
0:00:22.786916	LOG	Server <---------- DUT
0:00:22.788913	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 010e, FOpts:), FPort: 00, FRMPayload: 070f88668450), MIC: 85ec0d6f)
0:00:22.790877	LOG	PULL_RESP: Protocol version = 02, Token = 3239, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2319321644, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YAAAAAAADgEADM2Ghi+6hewNbw=='}}
0:00:22.791910	LOG	Server ----------> DUT
0:00:22.794878	LOG	TX_ACK: 02 3239 05 0016c001ff1025bf
0:00:27.678480	LOG	First uplink received. Open reception window.
0:00:27.783681	LOG	PUSH_ACK: 02 419f 01
0:00:27.785647	LOG	GPS Time from gateway: 1385107868243
0:00:27.786647	LOG	PUSH_DATA: Protocol version = 02, Token = 419f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2322321514, 'time': '2023-11-27T08:10:49.243628Z', 'tmms': 1385107868243, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3412, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCSgAHAwLe/Hwps0SDI8Fb9g=='}]}
0:00:27.788648	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 004a, FOpts: 0703), FPort: 02, FRMPayload: 00000001020000, MIC: 23c15bf6)
0:00:27.789648	LOG	Server <---------- DUT
0:00:27.791648	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:27.792648	LOG	Command Answer: 0703
0:00:27.797649	LOG	MAC command communication completed
0:00:27.802653	LOG	Step 05
0:00:27.805649	LOG	Receive frame on specific channels process starts
0:00:27.811647	LOG	Attempt 1/20
0:00:28.248896	LOG	GPS Time updated: 1385107868813
0:00:28.250896	LOG	PULL_DATA: 02 1822 02 0016c001ff1025bf
0:00:28.251898	LOG	PULL_ACK: 02 1822 04
0:00:32.681492	LOG	First uplink received. Open reception window.
0:00:32.783140	LOG	PUSH_ACK: 02 a84b 01
0:00:32.785107	LOG	GPS Time from gateway: 1385107873242

0:00:32.786138	LOG	PUSH_DATA: Protocol version = 02, Token = a84b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2327321156, 'time': '2023-11-27T08:10:54.243269Z', 'tmms': 1385107873242, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3400, 'rssi': -49, 'size': 20, 'data': 'QAAAAACASwACdPNX/OFUbB3oD8Q='}]}
0:00:32.788106	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 004b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1de80fc4)
0:00:32.789106	LOG	Server <---------- DUT
0:00:32.791109	LOG	Attempt 2/20
0:00:37.679859	LOG	First uplink received. Open reception window.
0:00:37.783511	LOG	PUSH_ACK: 02 c8fd 01
0:00:37.785479	LOG	GPS Time from gateway: 1385107878242
0:00:37.786478	LOG	PUSH_DATA: Protocol version = 02, Token = c8fd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2332320914, 'time': '2023-11-27T08:10:59.243026Z', 'tmms': 1385107878242, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3407, 'rssi': -49, 'size': 20, 'data': 'QAAAAACATAACu0qKFbcUoYSY3B4='}]}
0:00:37.788478	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 004c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8498dc1e)
0:00:37.789479	LOG	Server <---------- DUT
0:00:37.792479	LOG	Receive frame on specific channels process tested successfully
0:00:37.795520	LOG	End Test Step: Addition of a single channel
0:00:37.800516	LOG	Partial Verdict: PASS
0:00:37.805514	LOG	==========
0:00:37.809511	LOG	==========
0:00:37.811482	LOG	Start Test Step: Removal of a single channel
0:00:37.822408	LOG	Step 06-07
0:00:37.825450	LOG	Send NewChannelReq process starts
0:00:38.329337	LOG	GPS Time updated: 1385107878893
0:00:38.330328	LOG	PULL_DATA: 02 a204 02 0016c001ff1025bf
0:00:38.332328	LOG	PULL_ACK: 02 a204 04
0:00:42.682711	LOG	First uplink received. Open reception window.
0:00:42.783226	LOG	PUSH_ACK: 02 1a90 01
0:00:42.785259	LOG	GPS Time from gateway: 1385107883242
0:00:42.786261	LOG	PUSH_DATA: Protocol version = 02, Token = 1a90, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2337320649, 'time': '2023-11-27T08:11:04.242760Z', 'tmms': 1385107883242, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3407, 'rssi': -49, 'size': 20, 'data': 'QAAAAACATQACMAaKCWyLLzmEoXY='}]}
0:00:42.787261	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 004d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3984a176)
0:00:42.789266	LOG	Server <---------- DUT
0:00:42.791244	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 010f, FOpts:), FPort: 00, FRMPayload: 070f00000050), MIC: 4b405af3)
0:00:42.793230	LOG	PULL_RESP: Protocol version = 02, Token = 4c7a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2339320649, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YAAAAAAADwEAezA+evmKS0Ba8w=='}}
0:00:42.794262	LOG	Server ----------> DUT
0:00:42.797262	LOG	TX_ACK: 02 4c7a 05 0016c001ff1025bf
0:00:47.867577	LOG	First uplink received. Open reception window.
0:00:47.981805	LOG	PUSH_ACK: 02 fe15 01
0:00:47.983773	LOG	GPS Time from gateway: 1385107888433
0:00:47.984775	LOG	PUSH_DATA: Protocol version = 02, Token = fe15, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2342511214, 'time': '2023-11-27T08:11:09.433324Z', 'tmms': 1385107888433, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3407, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCTgAHAwKgRcm5OFK0fWJTUg==\'}]}
0:00:47.986774	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 004e, FOpts: 0703), FPort: 02, FRMPayload: 00000001020000, MIC: 7d625352)
0:00:47.987774	LOG	Server <---------- DUT
0:00:47.989786	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:47.990807	LOG	Command Answer: 0703
0:00:47.995808	LOG	MAC command communication completed
0:00:47.999775	LOG	Step 08
0:00:48.003378	LOG	Receive frame on specific channels process starts
0:00:48.012703	LOG	Attempt 1/15
0:00:48.459261	LOG	GPS Time updated: 1385107889025
0:00:48.461230	LOG	PULL_DATA: 02 4b48 02 0016c001ff1025bf
0:00:48.462229	LOG	PULL_ACK: 02 4b48 04
0:00:52.682482	LOG	First uplink received. Open reception window.
0:00:52.784750	LOG	PUSH_ACK: 02 962d 01
0:00:52.786719	LOG	GPS Time from gateway: 1385107893241
0:00:52.787719	LOG	PUSH_DATA: Protocol version = 02, Token = 962d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2347320122, 'time': '2023-11-27T08:11:14.242231Z', 'tmms': 1385107893241, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3407, 'rssi': -49, 'size': 20, 'data': 'QAAAAACATwACY/ZTmE+c/i4RkhM=\'}]}
0:00:52.788720	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 004f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2e119213)
0:00:52.790735	LOG	Server <---------- DUT
0:00:52.791720	LOG	Attempt 2/15
0:00:57.678850	LOG	First uplink received. Open reception window.
0:00:57.781367	LOG	PUSH_ACK: 02 e815 01
0:00:57.783368	LOG	GPS Time from gateway: 1385107898241
0:00:57.784874	LOG	PUSH_DATA: Protocol version = 02, Token = e815, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2352319892, 'time': '2023-11-27T08:11:19.241999Z', 'tmms': 1385107898241, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3400, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAUAACb3t/Pma2IgvDXFg=\'}]}
0:00:57.785878	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0050, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0bc35c58)
0:00:57.786880	LOG	Server <---------- DUT
0:00:57.788887	LOG	Attempt 3/15
0:00:58.540072	LOG	GPS Time updated: 1385107899103
0:00:58.542073	LOG	PULL_DATA: 02 25cb 02 0016c001ff1025bf
0:00:58.543073	LOG	PULL_ACK: 02 25cb 04
0:01:02.676351	LOG	First uplink received. Open reception window.
0:01:02.791568	LOG	PUSH_ACK: 02 5c8f 01
0:01:02.793567	LOG	GPS Time from gateway: 1385107903241
0:01:02.794567	LOG	PUSH_DATA: Protocol version = 02, Token = 5c8f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2357319636, 'time': '2023-11-27T08:11:24.241742Z', 'tmms': 1385107903241, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3404, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAUQACsD7D0hKyWZlkxhw=\'}]}
0:01:02.795568	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0051, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9964c61c)
0:01:02.797535	LOG	Server <---------- DUT
0:01:02.798586	LOG	Attempt 4/15
0:01:07.675181	LOG	First uplink received. Open reception window.
0:01:07.789763	LOG	PUSH_ACK: 02 ae6d 01

0:01:07.791798	LOG	GPS Time from gateway: 1385107908241
0:01:07.792798	LOG	PUSH_DATA: Protocol version = 02, Token = ae6d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2362319403, 'time': '2023-11-27T08:11:29.241510Z', 'tmms': 1385107908241, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3404, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAUgACVvSFO2vC0XxcN+8='}]}
0:01:07.793810	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0052, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7c5c37ef)
0:01:07.796402	LOG	Server <---------- DUT
0:01:07.798354	LOG	Attempt 5/15
0:01:08.620616	LOG	GPS Time updated: 1385107909186
0:01:08.622617	LOG	PULL_DATA: 02 4546 02 0016c001ff1025bf
0:01:08.623620	LOG	PULL_ACK: 02 4546 04
0:01:12.680582	LOG	First uplink received. Open reception window.
0:01:12.789233	LOG	PUSH_ACK: 02 2786 01
0:01:12.791202	LOG	GPS Time from gateway: 1385107913240
0:01:12.792238	LOG	PUSH_DATA: Protocol version = 02, Token = 2786, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2367319157, 'time': '2023-11-27T08:11:34.241263Z', 'tmms': 1385107913240, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3404, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAUwAC+c2GbTWmSgdcnDk='}]}
0:01:12.793233	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0053, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 075c9c39)
0:01:12.795236	LOG	Server <---------- DUT
0:01:12.796234	LOG	Attempt 6/15
0:01:17.672751	LOG	First uplink received. Open reception window.
0:01:17.774365	LOG	PUSH_ACK: 02 a98d 01
0:01:17.776400	LOG	GPS Time from gateway: 1385107918240
0:01:17.777400	LOG	PUSH_DATA: Protocol version = 02, Token = a98d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2372318901, 'time': '2023-11-27T08:11:39.241006Z', 'tmms': 1385107918240, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3393, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAVAACkwvEikFW7nGk5AI='}]}
0:01:17.779414	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0054, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 71a4e402)
0:01:17.780404	LOG	Server <---------- DUT
0:01:17.782402	LOG	Attempt 7/15
0:01:18.700853	LOG	GPS Time updated: 1385107919268
0:01:18.701828	LOG	PULL_DATA: 02 8a71 02 0016c001ff1025bf
0:01:18.703828	LOG	PULL_ACK: 02 8a71 04
0:01:22.679433	LOG	First uplink received. Open reception window.
0:01:22.792671	LOG	PUSH_ACK: 02 8a2c 01
0:01:22.794634	LOG	GPS Time from gateway: 1385107923240
0:01:22.795633	LOG	PUSH_DATA: Protocol version = 02, Token = 8a2c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2377318630, 'time': '2023-11-27T08:11:44.240734Z', 'tmms': 1385107923240, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3400, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAVQACbi+06F4Q/lU3S+s='}]}
0:01:22.797634	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0055, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 55374beb)
0:01:22.798640	LOG	Server <---------- DUT
0:01:22.800641	LOG	Attempt 8/15
0:01:27.682722	LOG	First uplink received. Open reception window.
0:01:27.792822	LOG	PUSH_ACK: 02 75a4 01
0:01:27.794823	LOG	GPS Time from gateway: 1385107928240

0:01:27.795824	LOG	PUSH_DATA: Protocol version = 02, Token = 75a4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2382318373, 'time': '2023-11-27T08:11:49.240476Z', 'tmms': 1385107928240, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3404, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAVgAC1zxZVZuRcjMSQM0='}]}
0:01:27.796823	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0056, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 331240cd)
0:01:27.798792	LOG	Server <---------- DUT
0:01:27.800793	LOG	Attempt 9/15
0:01:28.781260	LOG	GPS Time updated: 1385107929339
0:01:28.783262	LOG	PULL_DATA: 02 bc6a 02 0016c001ff1025bf
0:01:28.784260	LOG	PULL_ACK: 02 bc6a 04
0:01:32.680567	LOG	First uplink received. Open reception window.
0:01:32.795216	LOG	PUSH_ACK: 02 eeba 01
0:01:32.797185	LOG	GPS Time from gateway: 1385107933239
0:01:32.798216	LOG	PUSH_DATA: Protocol version = 02, Token = eeba, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2387318143, 'time': '2023-11-27T08:11:54.240245Z', 'tmms': 1385107933239, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3404, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAVwACJgVXPWkeShUFvs0='}]}
0:01:32.799219	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0057, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1505becd)
0:01:32.801217	LOG	Server <---------- DUT
0:01:32.802216	LOG	Attempt 10/15
0:01:37.673094	LOG	First uplink received. Open reception window.
0:01:37.778744	LOG	PUSH_ACK: 02 7f39 01
0:01:37.780722	LOG	GPS Time from gateway: 1385107938239
0:01:37.781745	LOG	PUSH_DATA: Protocol version = 02, Token = 7f39, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2392317916, 'time': '2023-11-27T08:11:59.240017Z', 'tmms': 1385107938239, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3404, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAWAACoyVIXcTMo0zKAuU='}]}
0:01:37.783745	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0058, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4cca02e5)
0:01:37.784746	LOG	Server <---------- DUT
0:01:37.786714	LOG	Attempt 11/15
0:01:38.862001	LOG	GPS Time updated: 1385107939428
0:01:38.862968	LOG	PULL_DATA: 02 0215 02 0016c001ff1025bf
0:01:38.864969	LOG	PULL_ACK: 02 0215 04
0:01:42.674120	LOG	First uplink received. Open reception window.
0:01:42.783770	LOG	PUSH_ACK: 02 67ea 01
0:01:42.785737	LOG	GPS Time from gateway: 1385107943239
0:01:42.786737	LOG	PUSH_DATA: Protocol version = 02, Token = 67ea, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2397317698, 'time': '2023-11-27T08:12:04.239798Z', 'tmms': 1385107943239, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3404, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAWQACvPc3Y5kMpG0D+2c='}]}
0:01:42.787737	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0059, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6d03fb67)
0:01:42.789737	LOG	Server <---------- DUT
0:01:42.790737	LOG	Attempt 12/15
0:01:47.680543	LOG	First uplink received. Open reception window.
0:01:47.783093	LOG	PUSH_ACK: 02 b687 01
0:01:47.785092	LOG	GPS Time from gateway: 1385107948239
0:01:47.786091	LOG	PUSH_DATA: Protocol version = 02, Token = b687, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2402317428, 'time': '2023-11-27T08:12:09.239526Z',

		'tmms': 1385107948239, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3392, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAWgAC/dD6I+hDp0oDt58='}]}
0:01:47.788070	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 005a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4a03b79f)
0:01:47.789091	LOG	Server <---------- DUT
0:01:47.791119	LOG	Attempt 13/15
0:01:48.972228	LOG	GPS Time updated: 1385107949530
0:01:48.973228	LOG	PULL_DATA: 02 1b64 02 0016c001ff1025bf
0:01:48.975228	LOG	PULL_ACK: 02 1b64 04
0:01:52.673355	LOG	First uplink received. Open reception window.
0:01:52.782969	LOG	PUSH_ACK: 02 f561 01
0:01:52.784986	LOG	GPS Time from gateway: 1385107953238
0:01:52.786940	LOG	PUSH_DATA: Protocol version = 02, Token = f561, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2407317206, 'time': '2023-11-27T08:12:14.239303Z', 'tmms': 1385107953238, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3392, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAWwAC1w/ZxUcEHuPh7X0='}]}
0:01:52.787970	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 005b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e3e1ed7d)
0:01:52.788970	LOG	Server <---------- DUT
0:01:52.790977	LOG	Attempt 14/15
0:01:57.681001	LOG	#**********CURRENT BEACON SENT**********#
0:01:57.682032	LOG	PULL_RESP: Protocol version = 02, Token = 5cff, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385107968000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAEo9SElwAAAAAAAAAAA='}}
0:01:57.683999	LOG	Server ----------> DUT
0:01:57.684998	LOG	#**********#
0:01:57.695031	LOG	#**********NEXT BEACON QUEUED**********#
0:01:57.697032	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385108096000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAEo9SKoEAAAAAAAAAAA='}}
0:01:57.698032	LOG	Server ----------> DUT
0:01:57.699034	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 80128f52, CRC1: 2a81, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385108096000
0:01:57.701035	LOG	#**********#
0:01:57.702001	LOG	Next BEACON scheduled at GPS time (ms): 1385108224000
0:01:57.704000	LOG	First uplink received. Open reception window.
0:01:57.704999	LOG	TX_ACK: 02 5cff 05 0016c001ff1025bf
0:01:57.810737	LOG	PUSH_ACK: 02 ab1c 01
0:01:57.812738	LOG	GPS Time from gateway: 1385107958238
0:01:57.813737	LOG	PUSH_DATA: Protocol version = 02, Token = ab1c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2412316972, 'time': '2023-11-27T08:12:19.239070Z', 'tmms': 1385107958238, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.5, 'foff': -3404, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAXAACywa/c7fs4AXjGp4='}]}
0:01:57.814712	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 005c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 05e31a9e)
0:01:57.816745	LOG	Server <---------- DUT

0:01:57.817738	LOG	Attempt 15/15
0:01:59.152765	LOG	GPS Time updated: 1385107959686
0:01:59.154737	LOG	PULL_DATA: 02 e790 02 0016c001ff1025bf
0:01:59.155769	LOG	PULL_ACK: 02 e790 04
0:02:02.678672	LOG	First uplink received. Open reception window.
0:02:02.782321	LOG	PUSH_ACK: 02 5b90 01
0:02:02.784292	LOG	GPS Time from gateway: 1385107963238
0:02:02.785324	LOG	PUSH_DATA: Protocol version = 02, Token = 5b90, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2417316752, 'time': '2023-11-27T08:12:24.238849Z', 'tmms': 1385107963238, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3392, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAXQACtOvjT+XB6iGRpW8='}]}
0:02:02.787296	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 005d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2191a56f)
0:02:02.788322	LOG	Server <---------- DUT
0:02:02.794322	LOG	Receive frame on specific channels process tested successfully
0:02:02.797290	LOG	End Test Step: Removal of a single channel
0:02:02.801290	LOG	Partial Verdict: PASS
0:02:02.805290	LOG	==========
0:02:02.809294	LOG	==========
0:02:02.812291	LOG	Start Test Step: Adding multiple channels 1
0:02:02.822269	LOG	Step 09-10
0:02:02.827237	LOG	Send MAC command block process starts
0:02:07.679727	LOG	First uplink received. Open reception window.
0:02:07.781303	LOG	PUSH_ACK: 02 1ee5 01
0:02:07.783270	LOG	GPS Time from gateway: 1385107968238
0:02:07.784270	LOG	PUSH_DATA: Protocol version = 02, Token = 1ee5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2422316487, 'time': '2023-11-27T08:12:29.238583Z', 'tmms': 1385107968238, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3392, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAXgACL0CA3Y1KvqLJexc='}]}
0:02:07.786271	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 005e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a2c97b17)
0:02:07.787270	LOG	Server <---------- DUT
0:02:07.789271	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0110, FOpts:), FPort: 00, FRMPayload: 0703184f84500704e85684500705b85e8450070688668450070758 6e8450), MIC: b4c5504b)
0:02:07.791280	LOG	PULL_RESP: Protocol version = 02, Token = 56c2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2424316487, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 43, 'data': 'YAAAAAAAEAEATVtLGIJG7PefjxIdIC4JF/zJZqAnHWDe2Y5BryyNtMVQSw==''}}
0:02:07.793272	LOG	Server ----------> DUT
0:02:07.796156	LOG	TX_ACK: 02 56c2 05 0016c001ff1025bf
0:02:09.263578	LOG	GPS Time updated: 1385107969821
0:02:09.264578	LOG	PULL_DATA: 02 02a8 02 0016c001ff1025bf
0:02:09.266580	LOG	PULL_ACK: 02 02a8 04
0:02:12.688706	LOG	First uplink received. Open reception window.
0:02:12.798621	LOG	PUSH_ACK: 02 1177 01
0:02:12.800658	LOG	GPS Time from gateway: 1385107973253
0:02:12.801659	LOG	PUSH_DATA: Protocol version = 02, Token = 1177, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2427331804, 'time': '2023-11-27T08:12:34.253899Z', 'tmms': 1385107973253, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3412, 'rssi': -

		49, 'size': 30, 'data': 'QAAAAACKXwAHAwcDBwMHAwcDAi28jHrXVJQ7PmCC'}]}
0:02:12.802624	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 8a, FCnt: 005f, FOpts: 07030703070307030703), FPort: 02, FRMPayload: 00000001020000, MIC: 3b3e6082)
0:02:12.804663	LOG	Server <---------- DUT
0:02:12.805624	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:12.807656	LOG	Command Answer: 07030703070307030703
0:02:12.902084	LOG	MAC command communication completed
0:02:12.905085	LOG	End Test Step: Adding multiple channels 1
0:02:12.909118	LOG	Partial Verdict: PASS
0:02:12.913118	LOG	==========
0:02:12.917270	LOG	==========
0:02:12.919278	LOG	Start Test Step: Adding multiple channels 2
0:02:12.928262	LOG	Step 09-10
0:02:12.933261	LOG	Send MAC command block process starts
0:02:17.682442	LOG	First uplink received. Open reception window.
0:02:17.785097	LOG	PUSH_ACK: 02 e13b 01
0:02:17.787098	LOG	GPS Time from gateway: 1385107978237
0:02:17.788097	LOG	PUSH_DATA: Protocol version = 02, Token = e13b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2432316000, 'time': '2023-11-27T08:12:39.238094Z', 'tmms': 1385107978237, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3391, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAYAAC4byTp2iU4bHcxHg='}]}
0:02:17.790083	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0060, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b1dcc478)
0:02:17.791101	LOG	Server <---------- DUT
0:02:17.793100	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0111, FOpts:), FPort: 00, FRMPayload: 0708586e8450070988668450070ab85e8450070be8568450070c184f8450), MIC: 595e3ba1)
0:02:17.795068	LOG	PULL_RESP: Protocol version = 02, Token = cfab, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2434316000, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 43, 'data': 'YAAAAAAAEQEAmc/GlZdcJZe/CLRj0bLkJBK8So4gnYafzl/SVRy4WV47oQ==}}
0:02:17.796103	LOG	Server ----------> DUT
0:02:17.799067	LOG	TX_ACK: 02 cfab 05 0016c001ff1025bf
0:02:19.473365	LOG	GPS Time updated: 1385107980026
0:02:19.474370	LOG	PULL_DATA: 02 8760 02 0016c001ff1025bf
0:02:19.476370	LOG	PULL_ACK: 02 8760 04
0:02:22.697142	LOG	First uplink received. Open reception window.
0:02:22.801796	LOG	PUSH_ACK: 02 748a 01
0:02:22.803761	LOG	GPS Time from gateway: 1385107983253
0:02:22.804761	LOG	PUSH_DATA: Protocol version = 02, Token = 748a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2437331317, 'time': '2023-11-27T08:12:44.253410Z', 'tmms': 1385107983253, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.5, 'foff': -3402, 'rssi': -49, 'size': 30, 'data': 'QAAAAACKYQAHAwcDBwMHAwcDAijTXBuXucgbagwA'}]}
0:02:22.805762	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 8a, FCnt: 0061, FOpts: 07030703070307030703), FPort: 02, FRMPayload: 00000001020000, MIC: 1b6a0c00)
0:02:22.807762	LOG	Server <---------- DUT

0:02:22.808761	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:22.810762	LOG	Command Answer: 07030703070307030703
0:02:22.904936	LOG	MAC command communication completed
0:02:22.907938	LOG	End Test Step: Adding multiple channels 2
0:02:22.911938	LOG	Partial Verdict: PASS
0:02:22.915939	LOG	==========
0:02:22.919937	LOG	==========
0:02:22.921904	LOG	Start Test Step: Adding multiple channels 3
0:02:22.932912	LOG	Step 09-10
0:02:22.937907	LOG	Send MAC command block process starts
0:02:27.681532	LOG	First uplink received. Open reception window.
0:02:27.786186	LOG	PUSH_ACK: 02 76db 01
0:02:27.788153	LOG	GPS Time from gateway: 1385107988237
0:02:27.789153	LOG	PUSH_DATA: Protocol version = 02, Token = 76db, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2442315522, 'time': '2023-11-27T08:12:49.237614Z', 'tmms': 1385107988237, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3391, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAYgACHAqxlc0pseBCL/U='}]}
0:02:27.791201	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0062, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e0422ff5)
0:02:27.792205	LOG	Server <---------- DUT
0:02:27.794194	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0112, FOpts:), FPort: 00, FRMPayload: 070dc8858450070ef87d8450070f28768450), MIC: f449c57f)
0:02:27.795186	LOG	PULL_RESP: Protocol version = 02, Token = be13, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2444315522, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 31, 'data': 'YAAAAAAAEgEAg9eSl4Y4g7E7vPFICwpEIY3f9EnFfw=='}}
0:02:27.797186	LOG	Server ----------> DUT
0:02:27.800182	LOG	TX_ACK: 02 be13 05 0016c001ff1025bf
0:02:29.683688	LOG	GPS Time updated: 1385107990239
0:02:29.685655	LOG	PULL_DATA: 02 74a1 02 0016c001ff1025bf
0:02:29.687656	LOG	PULL_ACK: 02 74a1 04
0:02:32.682408	LOG	First uplink received. Open reception window.
0:02:32.787603	LOG	PUSH_ACK: 02 682a 01
0:02:32.789573	LOG	GPS Time from gateway: 1385107993242
0:02:32.790603	LOG	PUSH_DATA: Protocol version = 02, Token = 682a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2447320524, 'time': '2023-11-27T08:12:54.242615Z', 'tmms': 1385107993242, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3400, 'rssi': -49, 'size': 26, 'data': 'QAAAAACGYwAHAwcDBwMCeGaG6rYjKetJlFQ='}]}
0:02:32.792572	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 86, FCnt: 0063, FOpts: 070307030703), FPort: 02, FRMPayload: 00000001020000, MIC: eb499454)
0:02:32.793606	LOG	Server <---------- DUT
0:02:32.795572	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:32.796607	LOG	Command Answer: 070307030703
0:02:32.858411	LOG	MAC command communication completed
0:02:32.861408	LOG	End Test Step: Adding multiple channels 3
0:02:32.865407	LOG	Partial Verdict: PASS
0:02:32.868408	LOG	==========
0:02:32.873267	LOG	==========
0:02:32.875276	LOG	Start Test Step: Checking channel usage 12 to 15
0:02:32.886652	LOG	Step 10-12

0:02:32.891654	LOG	Send LinkADRReq process starts
0:02:37.677545	LOG	First uplink received. Open reception window.
0:02:37.785195	LOG	PUSH_ACK: 02 2883 01
0:02:37.787197	LOG	GPS Time from gateway: 1385107998236
0:02:37.788197	LOG	PUSH_DATA: Protocol version = 02, Token = 2883, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2452315013, 'time': '2023-11-27T08:12:59.237102Z', 'tmms': 1385107998236, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3400, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAZAACIho5N0b2kjHzhNw='}]}
0:02:37.790707	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0064, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 31f384dc)
0:02:37.791707	LOG	Server <---------- DUT
0:02:37.793707	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0113, FOpts:), FPort: 00, FRMPayload: 035000f001), MIC: af5f1d69)
0:02:37.795708	LOG	PULL_RESP: Protocol version = 02, Token = 8b00, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2454315013, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAEwEAdJySVOqvXx1p'}}
0:02:37.796707	LOG	Server ----------> DUT
0:02:37.801709	LOG	TX_ACK: 02 8b00 05 0016c001ff1025bf
0:02:39.893985	LOG	GPS Time updated: 1385108000452
0:02:39.895961	LOG	PULL_DATA: 02 8f1d 02 0016c001ff1025bf
0:02:39.897953	LOG	PULL_ACK: 02 8f1d 04
0:02:42.866641	LOG	First uplink received. Open reception window.
0:02:42.980221	LOG	PUSH_ACK: 02 e43a 01
0:02:42.982224	LOG	GPS Time from gateway: 1385108003424
0:02:42.983225	LOG	PUSH_DATA: Protocol version = 02, Token = e43a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2457502933, 'time': '2023-11-27T08:13:04.425023Z', 'tmms': 1385108003424, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3392, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCZQADBwIW5TWswcYcezJJuA=='}]}
0:02:42.985226	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0065, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 7b3249b8)
0:02:42.986226	LOG	Server <---------- DUT
0:02:42.988260	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:42.989261	LOG	Command Answer: 0307
0:02:42.996245	LOG	MAC command communication completed
0:02:42.999244	LOG	Receive frame on specific channels process starts
0:02:43.010666	LOG	Attempt 1/20
0:02:47.680406	LOG	First uplink received. Open reception window.
0:02:47.785111	LOG	PUSH_ACK: 02 ca94 01
0:02:47.787117	LOG	GPS Time from gateway: 1385108008236
0:02:47.788116	LOG	PUSH_DATA: Protocol version = 02, Token = ca94, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2462314485, 'time': '2023-11-27T08:13:09.236574Z', 'tmms': 1385108008236, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3400, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAZgACbOq13bvaMFw8Eew='}]}
0:02:47.789115	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0066, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5c3c11ec)
0:02:47.791116	LOG	Server <---------- DUT
0:02:47.792116	LOG	Attempt 2/20
0:02:49.983994	LOG	GPS Time updated: 1385108010539
0:02:49.985960	LOG	PULL_DATA: 02 5ce8 02 0016c001ff1025bf
0:02:49.986961	LOG	PULL_ACK: 02 5ce8 04
0:02:52.679750	LOG	First uplink received. Open reception window.

0:02:52.785365	LOG	PUSH_ACK: 02 795e 01
0:02:52.787368	LOG	GPS Time from gateway: 1385108013235
0:02:52.788401	LOG	PUSH_DATA: Protocol version = 02, Token = 795e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2467314216, 'time': '2023-11-27T08:13:14.236304Z', 'tmms': 1385108013235, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3400, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAZwAC4TitO4fOiTSi7Hw='}]}
0:02:52.790368	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0067, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 34a2ec7c)
0:02:52.791406	LOG	Server <---------- DUT
0:02:52.793393	LOG	Attempt 3/20
0:02:57.678019	LOG	First uplink received. Open reception window.
0:02:57.782668	LOG	PUSH_ACK: 02 918a 01
0:02:57.784636	LOG	GPS Time from gateway: 1385108018235
0:02:57.785667	LOG	PUSH_DATA: Protocol version = 02, Token = 918a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2472313989, 'time': '2023-11-27T08:13:19.236076Z', 'tmms': 1385108018235, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3404, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAaAACjVBtzcB78d8uXAg='}]}
0:02:57.787649	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0068, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: df2e5c08)
0:02:57.788668	LOG	Server <---------- DUT
0:02:57.790636	LOG	Attempt 4/20
0:03:00.081892	LOG	GPS Time updated: 1385108020638
0:03:00.082891	LOG	PULL_DATA: 02 d6de 02 0016c001ff1025bf
0:03:00.085892	LOG	PULL_ACK: 02 d6de 04
0:03:02.678250	LOG	First uplink received. Open reception window.
0:03:02.786235	LOG	PUSH_ACK: 02 57b7 01
0:03:02.788236	LOG	GPS Time from gateway: 1385108023235
0:03:02.789236	LOG	PUSH_DATA: Protocol version = 02, Token = 57b7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2477313761, 'time': '2023-11-27T08:13:24.235847Z', 'tmms': 1385108023235, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3392, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAaQACTeSJQJ5U+2irGT0='}]}
0:03:02.791231	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0069, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 68ab193d)
0:03:02.792236	LOG	Server <---------- DUT
0:03:02.794226	LOG	Attempt 5/20
0:03:07.679103	LOG	First uplink received. Open reception window.
0:03:07.788721	LOG	PUSH_ACK: 02 19df 01
0:03:07.790691	LOG	GPS Time from gateway: 1385108028235
0:03:07.791689	LOG	PUSH_DATA: Protocol version = 02, Token = 19df, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2482313529, 'time': '2023-11-27T08:13:29.235614Z', 'tmms': 1385108028235, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 13.5, 'foff': -3393, 'rssi': -48, 'size': 20, 'data': 'QAAAAACAagAC6Ww4du1qGFpF2sI='}]}
0:03:07.793689	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 006a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5a45dac2)
0:03:07.794689	LOG	Server <---------- DUT
0:03:07.796690	LOG	Attempt 6/20
0:03:10.165873	LOG	GPS Time updated: 1385108030720
0:03:10.166872	LOG	PULL_DATA: 02 188d 02 0016c001ff1025bf
0:03:10.168874	LOG	PULL_ACK: 02 188d 04
0:03:12.674614	LOG	First uplink received. Open reception window.
0:03:12.788256	LOG	PUSH_ACK: 02 698e 01
0:03:12.790224	LOG	GPS Time from gateway: 1385108033235

0:03:12.791224	LOG	PUSH_DATA: Protocol version = 02, Token = 698e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2487313309, 'time': '2023-11-27T08:13:34.235393Z', 'tmms': 1385108033235, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3400, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAawAC4+LxjgQ4rjLTHlA='}]}
0:03:12.792225	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 006b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 32d31e50)
0:03:12.794225	LOG	Server <---------- DUT
0:03:12.795224	LOG	Attempt 7/20
0:03:17.672462	LOG	First uplink received. Open reception window.
0:03:17.774464	LOG	PUSH_ACK: 02 2fd1 01
0:03:17.776433	LOG	GPS Time from gateway: 1385108038234
0:03:17.777466	LOG	PUSH_DATA: Protocol version = 02, Token = 2fd1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2492313042, 'time': '2023-11-27T08:13:39.235125Z', 'tmms': 1385108038234, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3396, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAbAACmyhGJE9LMJ+eeUE='}]}
0:03:17.779432	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 006c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9f9e7941)
0:03:17.780432	LOG	Server <---------- DUT
0:03:17.782434	LOG	Attempt 8/20
0:03:20.255382	LOG	GPS Time updated: 1385108040817
0:03:20.257343	LOG	PULL_DATA: 02 0857 02 0016c001ff1025bf
0:03:20.258338	LOG	PULL_ACK: 02 0857 04
0:03:22.679898	LOG	First uplink received. Open reception window.
0:03:22.792447	LOG	PUSH_ACK: 02 5497 01
0:03:22.794415	LOG	GPS Time from gateway: 1385108043234
0:03:22.795415	LOG	PUSH_DATA: Protocol version = 02, Token = 5497, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2497312821, 'time': '2023-11-27T08:13:44.234902Z', 'tmms': 1385108043234, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 13.5, 'foff': -3393, 'rssi': -48, 'size': 20, 'data': 'QAAAAACAbQACFThMP1FpLQhADOc='}]}
0:03:22.797416	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 006d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 08400ce7)
0:03:22.798416	LOG	Server <---------- DUT
0:03:22.800416	LOG	Attempt 9/20
0:03:27.677974	LOG	First uplink received. Open reception window.
0:03:27.792630	LOG	PUSH_ACK: 02 7539 01
0:03:27.794597	LOG	GPS Time from gateway: 1385108048234
0:03:27.795596	LOG	PUSH_DATA: Protocol version = 02, Token = 7539, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2502312555, 'time': '2023-11-27T08:13:49.234635Z', 'tmms': 1385108048234, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3400, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAbgAC1l1MarZx+HJ5nTg='}]}
0:03:27.796598	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 006e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 72799d38)
0:03:27.798597	LOG	Server <---------- DUT
0:03:27.800598	LOG	Attempt 10/20
0:03:30.336175	LOG	GPS Time updated: 1385108050893
0:03:30.337179	LOG	PULL_DATA: 02 d1ae 02 0016c001ff1025bf
0:03:30.339176	LOG	PULL_ACK: 02 d1ae 04
0:03:32.676573	LOG	First uplink received. Open reception window.
0:03:32.779234	LOG	PUSH_ACK: 02 059b 01
0:03:32.781197	LOG	GPS Time from gateway: 1385108053234
0:03:32.782196	LOG	PUSH_DATA: Protocol version = 02, Token = 059b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2507312330, 'time': '2023-11-27T08:13:54.234411Z',

		'tmms': 1385108053234, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3393, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAbwAC56TekpfI91LTK3Q='}]}
0:03:32.783197	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 006f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 52d32b74)
0:03:32.785197	LOG	Server <---------- DUT
0:03:32.786197	LOG	Attempt 11/20
0:03:37.678783	LOG	First uplink received. Open reception window.
0:03:37.781860	LOG	PUSH_ACK: 02 4361 01
0:03:37.783862	LOG	GPS Time from gateway: 1385108058233
0:03:37.784862	LOG	PUSH_DATA: Protocol version = 02, Token = 4361, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2512312110, 'time': '2023-11-27T08:13:59.234190Z', 'tmms': 1385108058233, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3392, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAcAACyHg0K2XbeD5oLlo='}]}
0:03:37.785862	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0070, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3e682e5a)
0:03:37.787911	LOG	Server <---------- DUT
0:03:37.789862	LOG	Attempt 12/20
0:03:40.415707	LOG	GPS Time updated: 1385108060970
0:03:40.417671	LOG	PULL_DATA: 02 84bc 02 0016c001ff1025bf
0:03:40.418672	LOG	PULL_ACK: 02 84bc 04
0:03:42.680792	LOG	First uplink received. Open reception window.
0:03:42.784449	LOG	PUSH_ACK: 02 c015 01
0:03:42.786450	LOG	GPS Time from gateway: 1385108063233
0:03:42.787450	LOG	PUSH_DATA: Protocol version = 02, Token = c015, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2517311852, 'time': '2023-11-27T08:14:04.233931Z', 'tmms': 1385108063233, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3392, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAcQAC7DBprMhJbOMuDEU='}]}
0:03:42.789459	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0071, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e32e0c45)
0:03:42.790451	LOG	Server <---------- DUT
0:03:42.792453	LOG	Attempt 13/20
0:03:47.679370	LOG	First uplink received. Open reception window.
0:03:47.783333	LOG	PUSH_ACK: 02 f39e 01
0:03:47.785370	LOG	GPS Time from gateway: 1385108068233
0:03:47.786368	LOG	PUSH_DATA: Protocol version = 02, Token = f39e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2522311586, 'time': '2023-11-27T08:14:09.233664Z', 'tmms': 1385108068233, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3393, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAcgAC3/wDggfb+Dlffgg='}]}
0:03:47.787368	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0072, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 395f7e08)
0:03:47.789369	LOG	Server <---------- DUT
0:03:47.791346	LOG	Attempt 14/20
0:03:50.526427	LOG	GPS Time updated: 1385108071080
0:03:50.528396	LOG	PULL_DATA: 02 4d0c 02 0016c001ff1025bf
0:03:50.529431	LOG	PULL_ACK: 02 4d0c 04
0:03:52.671674	LOG	First uplink received. Open reception window.
0:03:52.783749	LOG	PUSH_ACK: 02 7d65 01
0:03:52.785745	LOG	GPS Time from gateway: 1385108073233
0:03:52.786775	LOG	PUSH_DATA: Protocol version = 02, Token = 7d65, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2527311360, 'time': '2023-11-27T08:14:14.233437Z', 'tmms': 1385108073233, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3393, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAcwACF2Y42mHjQRaBu9c='}]}
0:03:52.788742	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0073, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1681bbd7)
0:03:52.789775	LOG	Server <---------- DUT
0:03:52.790778	LOG	Attempt 15/20
0:03:57.678107	LOG	First uplink received. Open reception window.
0:03:57.784759	LOG	PUSH_ACK: 02 99e6 01
0:03:57.786762	LOG	GPS Time from gateway: 1385108078232
0:03:57.787766	LOG	PUSH_DATA: Protocol version = 02, Token = 99e6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2532311096, 'time': '2023-11-27T08:14:19.233172Z', 'tmms': 1385108078232, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3385, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAdAACANvNRPp4Z+1Ax2A='}]}
0:03:57.788762	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0074, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ed40c760)
0:03:57.790728	LOG	Server <---------- DUT
0:03:57.792728	LOG	Attempt 16/20
0:04:00.607246	LOG	GPS Time updated: 1385108081161
0:04:00.609246	LOG	PULL_DATA: 02 f302 02 0016c001ff1025bf
0:04:00.610247	LOG	PULL_ACK: 02 f302 04
0:04:02.680721	LOG	First uplink received. Open reception window.
0:04:02.782817	LOG	PUSH_ACK: 02 c422 01
0:04:02.784989	LOG	GPS Time from gateway: 1385108083232
0:04:02.786550	LOG	PUSH_DATA: Protocol version = 02, Token = c422, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2537310868, 'time': '2023-11-27T08:14:24.232943Z', 'tmms': 1385108083232, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3385, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAdQACRLYcQjMIA9Im3Kk='}]}
0:04:02.787581	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0075, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d226dca9)
0:04:02.788576	LOG	Server <---------- DUT
0:04:02.790547	LOG	Attempt 17/20
0:04:07.674542	LOG	#**********CURRENT BEACON SENT**********#
0:04:07.676532	LOG	PULL_RESP: Protocol version = 02, Token = 76f1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385108096000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAEo9SKoEAAAAAAAAAAA='}}
0:04:07.677529	LOG	Server ----------> DUT
0:04:07.679545	LOG	#**********#
0:04:07.689041	LOG	#**********NEXT BEACON QUEUED**********#
0:04:07.691074	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385108224000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAE49SImsAAAAAAAAAAA='}}
0:04:07.692073	LOG	Server ----------> DUT
0:04:07.694077	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 00138f52, CRC1: 226b, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385108224000
0:04:07.695073	LOG	#**********#
0:04:07.696073	LOG	Next BEACON scheduled at GPS time (ms): 1385108352000
0:04:07.697075	LOG	First uplink received. Open reception window.

0:04:07.699075	LOG	TX_ACK: 02 76f1 05 0016c001ff1025bf
0:04:07.809645	LOG	PUSH_ACK: 02 d3cc 01
0:04:07.811646	LOG	GPS Time from gateway: 1385108088232
0:04:07.812646	LOG	PUSH_DATA: Protocol version = 02, Token = d3cc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2542310641, 'time': '2023-11-27T08:14:29.232715Z', 'tmms': 1385108088232, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3385, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAdgACpCDTlmLcMb88OiQ='}]}
0:04:07.814648	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0076, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: bf3c3a24)
0:04:07.815648	LOG	Server <---------- DUT
0:04:07.817683	LOG	Attempt 18/20
0:04:10.617517	LOG	GPS Time updated: 1385108091150
0:04:10.619504	LOG	PULL_DATA: 02 7a28 02 0016c001ff1025bf
0:04:10.620514	LOG	PULL_ACK: 02 7a28 04
0:04:12.681297	LOG	First uplink received. Open reception window.
0:04:12.793453	LOG	PUSH_ACK: 02 63ef 01
0:04:12.795421	LOG	GPS Time from gateway: 1385108093232
0:04:12.796420	LOG	PUSH_DATA: Protocol version = 02, Token = 63ef, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2547310415, 'time': '2023-11-27T08:14:34.232488Z', 'tmms': 1385108093232, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3381, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAdwACj4lJCBQtJRPt2vk='}]}
0:04:12.797420	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0077, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 13eddaf9)
0:04:12.799420	LOG	Server <---------- DUT
0:04:12.801421	LOG	Attempt 19/20
0:04:17.674873	LOG	First uplink received. Open reception window.
0:04:17.777453	LOG	PUSH_ACK: 02 9d66 01
0:04:17.779420	LOG	GPS Time from gateway: 1385108098231
0:04:17.780458	LOG	PUSH_DATA: Protocol version = 02, Token = 9d66, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2552310194, 'time': '2023-11-27T08:14:39.232266Z', 'tmms': 1385108098231, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3381, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAeAACKUKQKKt43x/4YS0='}]}
0:04:17.782420	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0078, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1ff8612d)
0:04:17.783435	LOG	Server <---------- DUT
0:04:17.785461	LOG	Attempt 20/20
0:04:20.697939	LOG	GPS Time updated: 1385108101255
0:04:20.698939	LOG	PULL_DATA: 02 cfe0 02 0016c001ff1025bf
0:04:20.700941	LOG	PULL_ACK: 02 cfe0 04
0:04:22.671248	LOG	First uplink received. Open reception window.
0:04:22.777353	LOG	PUSH_ACK: 02 c753 01
0:04:22.779320	LOG	GPS Time from gateway: 1385108103231
0:04:22.780320	LOG	PUSH_DATA: Protocol version = 02, Token = c753, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2557309925, 'time': '2023-11-27T08:14:44.231995Z', 'tmms': 1385108103231, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 13.5, 'foff': -3386, 'rssi': -48, 'size': 20, 'data': 'QAAAAACAeQAC6xxRO7hjOnoh+CA='}]}
0:04:22.781321	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0079, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7a21f820)
0:04:22.783326	LOG	Server <---------- DUT
0:04:22.791327	LOG	Receive frame on specific channels process tested successfully
0:04:22.793360	LOG	End Test Step: Checking channel usage 12 to 15
0:04:22.797935	LOG	Partial Verdict: PASS

0:04:22.800936	LOG	==========
0:04:22.805232	LOG	==========
0:04:22.807241	LOG	Start Test Step: Checking channel usage 8 to 11
0:04:22.816621	LOG	Step 13-15
0:04:22.821658	LOG	Send LinkADRReq process starts
0:04:27.675015	LOG	First uplink received. Open reception window.
0:04:27.776649	LOG	PUSH_ACK: 02 9d87 01
0:04:27.778617	LOG	GPS Time from gateway: 1385108108231
0:04:27.779617	LOG	PUSH_DATA: Protocol version = 02, Token = 9d87, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2562309691, 'time': '2023-11-27T08:14:49.231760Z', 'tmms': 1385108108231, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3393, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAegAC/A/5FzEcHtj4fnI='}]}
0:04:27.781618	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 007a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d8f87e72)
0:04:27.782617	LOG	Server <---------- DUT
0:04:27.784618	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0114, FOpts:), FPort: 00, FRMPayload: 0350000f01), MIC: bac3c968)
0:04:27.786622	LOG	PULL_RESP: Protocol version = 02, Token = 1179, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2564309691, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAFAEACH0ZfuW6w8lo'}}
0:04:27.787622	LOG	Server ----------> DUT
0:04:27.791310	LOG	TX_ACK: 02 1179 05 0016c001ff1025bf
0:04:30.728835	LOG	GPS Time updated: 1385108111285
0:04:30.729835	LOG	PULL_DATA: 02 68e4 02 0016c001ff1025bf
0:04:30.731837	LOG	PULL_ACK: 02 68e4 04
0:04:32.680925	LOG	First uplink received. Open reception window.
0:04:32.791548	LOG	PUSH_ACK: 02 1d5b 01
0:04:32.793585	LOG	GPS Time from gateway: 1385108113231
0:04:32.794585	LOG	PUSH_DATA: Protocol version = 02, Token = 1d5b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2567309542, 'time': '2023-11-27T08:14:54.231612Z', 'tmms': 1385108113231, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3384, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCewADBwIK3gSDsPF8RsNeOw=='}]}
0:04:32.796589	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 007b, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 46c35e3b)
0:04:32.797586	LOG	Server <---------- DUT
0:04:32.799554	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:04:32.801554	LOG	Command Answer: 0307
0:04:32.807695	LOG	MAC command communication completed
0:04:32.811703	LOG	Receive frame on specific channels process starts
0:04:32.823700	LOG	Attempt 1/20
0:04:37.677324	LOG	First uplink received. Open reception window.
0:04:37.792869	LOG	PUSH_ACK: 02 826b 01
0:04:37.794837	LOG	GPS Time from gateway: 1385108118230
0:04:37.795836	LOG	PUSH_DATA: Protocol version = 02, Token = 826b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2572309178, 'time': '2023-11-27T08:14:59.231247Z', 'tmms': 1385108118230, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.2, 'foff': -3379, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAfAACEFmJf8FEYbPvLvU='}]}
0:04:37.797841	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 007c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b3ef2ef5)
0:04:37.798841	LOG	Server <---------- DUT
0:04:37.800841	LOG	Attempt 2/20

0:04:40.809279	LOG	GPS Time updated: 1385108121362
0:04:40.810279	LOG	PULL_DATA: 02 6700 02 0016c001ff1025bf
0:04:40.812279	LOG	PULL_ACK: 02 6700 04
0:04:42.679617	LOG	First uplink received. Open reception window.
0:04:42.794236	LOG	PUSH_ACK: 02 d001 01
0:04:42.796204	LOG	GPS Time from gateway: 1385108123230
0:04:42.798204	LOG	PUSH_DATA: Protocol version = 02, Token = d001, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2577308946, 'time': '2023-11-27T08:15:04.231014Z', 'tmms': 1385108123230, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 13.5, 'foff': -3375, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAfQACy0+VVX4IvwpQ7ZE='}]}
0:04:42.799204	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 007d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0a50ed91)
0:04:42.800204	LOG	Server <---------- DUT
0:04:42.802204	LOG	Attempt 3/20
0:04:47.681208	LOG	First uplink received. Open reception window.
0:04:47.795859	LOG	PUSH_ACK: 02 03aa 01
0:04:47.797826	LOG	GPS Time from gateway: 1385108128230
0:04:47.798859	LOG	PUSH_DATA: Protocol version = 02, Token = 03aa, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2582308722, 'time': '2023-11-27T08:15:09.230789Z', 'tmms': 1385108128230, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3376, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAfgAC4+l7kAVcd9/5J78='}]}
0:04:47.800826	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 007e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: dff927bf)
0:04:47.801827	LOG	Server <---------- DUT
0:04:47.803827	LOG	Attempt 4/20
0:04:50.889068	LOG	GPS Time updated: 1385108131439
0:04:50.891034	LOG	PULL_DATA: 02 e6d7 02 0016c001ff1025bf
0:04:50.892035	LOG	PULL_ACK: 02 e6d7 04
0:04:52.677113	LOG	First uplink received. Open reception window.
0:04:52.784732	LOG	PUSH_ACK: 02 7660 01
0:04:52.786700	LOG	GPS Time from gateway: 1385108133230
0:04:52.787700	LOG	PUSH_DATA: Protocol version = 02, Token = 7660, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2587308501, 'time': '2023-11-27T08:15:14.230567Z', 'tmms': 1385108133230, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.2, 'foff': -3364, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAfwACP2Fm+wPC2UC5fN8='}]}
0:04:52.789701	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 007f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 40b97cdf)
0:04:52.790701	LOG	Server <---------- DUT
0:04:52.792700	LOG	Attempt 5/20
0:04:57.678252	LOG	First uplink received. Open reception window.
0:04:57.784903	LOG	PUSH_ACK: 02 ffd9 01
0:04:57.786873	LOG	GPS Time from gateway: 1385108138229
0:04:57.787872	LOG	PUSH_DATA: Protocol version = 02, Token = ffd9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2592308231, 'time': '2023-11-27T08:15:19.230296Z', 'tmms': 1385108138229, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 13.5, 'foff': -3367, 'rssi': -48, 'size': 20, 'data': 'QAAAAACAgAACVwcqtbaMy0JZyvg='}]}
0:04:57.789927	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0080, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4259caf8)
0:04:57.790872	LOG	Server <---------- DUT
0:04:57.792872	LOG	Attempt 6/20
0:05:00.970024	LOG	GPS Time updated: 1385108141521
0:05:00.971055	LOG	PULL_DATA: 02 4f60 02 0016c001ff1025bf

0:05:00.973024	LOG	PULL_ACK: 02 4f60 04
0:05:02.680224	LOG	First uplink received. Open reception window.
0:05:02.788866	LOG	PUSH_ACK: 02 0ded 01
0:05:02.790833	LOG	GPS Time from gateway: 1385108143229
0:05:02.791833	LOG	PUSH_DATA: Protocol version = 02, Token = 0ded, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2597308007, 'time': '2023-11-27T08:15:24.230071Z', 'tmms': 1385108143229, 'chan': 7, 'rfch': 0, 'freq': 867.9, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3365, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAgQACkEiAIH3CQonHBYo='}]}
0:05:02.793871	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0081, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 89c7058a)
0:05:02.794863	LOG	Server <---------- DUT
0:05:02.796836	LOG	Attempt 7/20
0:05:07.670736	LOG	First uplink received. Open reception window.
0:05:07.775960	LOG	PUSH_ACK: 02 c6dd 01
0:05:07.777963	LOG	GPS Time from gateway: 1385108148229
0:05:07.778961	LOG	PUSH_DATA: Protocol version = 02, Token = c6dd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2602307775, 'time': '2023-11-27T08:15:29.229838Z', 'tmms': 1385108148229, 'chan': 7, 'rfch': 0, 'freq': 867.9, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3358, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAggACccprs8piOSP2X8Q='}]}
0:05:07.780936	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0082, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 23f65fc4)
0:05:07.781961	LOG	Server <---------- DUT
0:05:07.783959	LOG	Attempt 8/20
0:05:11.050258	LOG	GPS Time updated: 1385108151609
0:05:11.051290	LOG	PULL_DATA: 02 cd8d 02 0016c001ff1025bf
0:05:11.053260	LOG	PULL_ACK: 02 cd8d 04
0:05:12.672616	LOG	First uplink received. Open reception window.
0:05:12.777335	LOG	PUSH_ACK: 02 306a 01
0:05:12.779336	LOG	GPS Time from gateway: 1385108153229
0:05:12.780336	LOG	PUSH_DATA: Protocol version = 02, Token = 306a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2607307551, 'time': '2023-11-27T08:15:34.229613Z', 'tmms': 1385108153229, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3361, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAgwAC4jUI9ZxJ3ne/zN4='}]}
0:05:12.782316	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0083, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 77bfccde)
0:05:12.783336	LOG	Server <---------- DUT
0:05:12.785308	LOG	Attempt 9/20
0:05:17.669558	LOG	First uplink received. Open reception window.
0:05:17.774205	LOG	PUSH_ACK: 02 4e32 01
0:05:17.776172	LOG	GPS Time from gateway: 1385108158228
0:05:17.778176	LOG	PUSH_DATA: Protocol version = 02, Token = 4e32, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2612307324, 'time': '2023-11-27T08:15:39.229385Z', 'tmms': 1385108158228, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3356, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAhAAC86lEF3bScpSjMWk='}]}
0:05:17.779205	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0084, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 94a33169)
0:05:17.780206	LOG	Server <---------- DUT
0:05:17.782181	LOG	Attempt 10/20
0:05:21.150586	LOG	GPS Time updated: 1385108161709
0:05:21.151587	LOG	PULL_DATA: 02 f4d1 02 0016c001ff1025bf
0:05:21.153617	LOG	PULL_ACK: 02 f4d1 04
0:05:22.679141	LOG	First uplink received. Open reception window.

0:05:22.789391	LOG	PUSH_ACK: 02 9d5c 01
0:05:22.791394	LOG	GPS Time from gateway: 1385108163228
0:05:22.792419	LOG	PUSH_DATA: Protocol version = 02, Token = 9d5c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2617307090, 'time': '2023-11-27T08:15:44.229149Z', 'tmms': 1385108163228, 'chan': 7, 'rfch': 0, 'freq': 867.9, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3358, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAhQACPuUF6UHRcQWAjAw='}]}
0:05:22.794393	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0085, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 05808c0c)
0:05:22.795394	LOG	Server <---------- DUT
0:05:22.797393	LOG	Attempt 11/20
0:05:27.677794	LOG	First uplink received. Open reception window.
0:05:27.788449	LOG	PUSH_ACK: 02 d16e 01
0:05:27.790414	LOG	GPS Time from gateway: 1385108168228
0:05:27.791450	LOG	PUSH_DATA: Protocol version = 02, Token = d16e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2622306864, 'time': '2023-11-27T08:15:49.228922Z', 'tmms': 1385108168228, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3353, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAhgAC31noJJotpVDWW18='}]}
0:05:27.792453	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0086, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 50d65b5f)
0:05:27.794415	LOG	Server <---------- DUT
0:05:27.796419	LOG	Attempt 12/20
0:05:31.230439	LOG	GPS Time updated: 1385108171781
0:05:31.232408	LOG	PULL_DATA: 02 5db7 02 0016c001ff1025bf
0:05:31.233408	LOG	PULL_ACK: 02 5db7 04
0:05:32.673834	LOG	First uplink received. Open reception window.
0:05:32.774424	LOG	PUSH_ACK: 02 3260 01
0:05:32.776390	LOG	GPS Time from gateway: 1385108173228
0:05:32.777390	LOG	PUSH_DATA: Protocol version = 02, Token = 3260, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2627306635, 'time': '2023-11-27T08:15:54.228694Z', 'tmms': 1385108173228, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3353, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAhwACAO88Gsy/iK7BGhQ='}]}
0:05:32.778390	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0087, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: aec11a14)
0:05:32.780396	LOG	Server <---------- DUT
0:05:32.782391	LOG	Attempt 13/20
0:05:37.672187	LOG	First uplink received. Open reception window.
0:05:37.789371	LOG	PUSH_ACK: 02 6218 01
0:05:37.791345	LOG	GPS Time from gateway: 1385108178228
0:05:37.793340	LOG	PUSH_DATA: Protocol version = 02, Token = 6218, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2632306420, 'time': '2023-11-27T08:15:59.228478Z', 'tmms': 1385108178228, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.5, 'foff': -3341, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAiAACPqQhBHZIjrKRzsY='}]}
0:05:37.794339	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0088, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b291cec6)
0:05:37.796343	LOG	Server <---------- DUT
0:05:37.797340	LOG	Attempt 14/20
0:05:41.311442	LOG	GPS Time updated: 1385108181867
0:05:41.312442	LOG	PULL_DATA: 02 37d8 02 0016c001ff1025bf
0:05:41.314442	LOG	PULL_ACK: 02 37d8 04
0:05:42.670510	LOG	First uplink received. Open reception window.
0:05:42.777482	LOG	PUSH_ACK: 02 7936 01
0:05:42.779449	LOG	GPS Time from gateway: 1385108183227

0:05:42.780449	LOG	PUSH_DATA: Protocol version = 02, Token = 7936, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2637306157, 'time': '2023-11-27T08:16:04.228214Z', 'tmms': 1385108183227, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 13.8, 'foff': -3352, 'rssi': -48, 'size': 20, 'data': 'QAAAAACAiQACgc8PE4lugR2O+iM='}]}
0:05:42.781953	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0089, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1d8efa23)
0:05:42.782958	LOG	Server <---------- DUT
0:05:42.784992	LOG	Attempt 15/20
0:05:47.675906	LOG	First uplink received. Open reception window.
0:05:47.792349	LOG	PUSH_ACK: 02 96bf 01
0:05:47.794313	LOG	GPS Time from gateway: 1385108188227
0:05:47.795312	LOG	PUSH_DATA: Protocol version = 02, Token = 96bf, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2642305901, 'time': '2023-11-27T08:16:09.227957Z', 'tmms': 1385108188227, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3361, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAigACuG/cWqXeTIC1UTY='}]}
0:05:47.796313	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 008a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 80b55136)
0:05:47.798312	LOG	Server <---------- DUT
0:05:47.800313	LOG	Attempt 16/20
0:05:51.391173	LOG	GPS Time updated: 1385108191943
0:05:51.392173	LOG	PULL_DATA: 02 b55c 02 0016c001ff1025bf
0:05:51.394175	LOG	PULL_ACK: 02 b55c 04
0:05:52.678607	LOG	First uplink received. Open reception window.
0:05:52.792903	LOG	PUSH_ACK: 02 9c83 01
0:05:52.794903	LOG	GPS Time from gateway: 1385108193227
0:05:52.795902	LOG	PUSH_DATA: Protocol version = 02, Token = 9c83, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2647305645, 'time': '2023-11-27T08:16:14.227700Z', 'tmms': 1385108193227, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.5, 'foff': -3356, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAiwACyF9fyFeTsfCOfwc='}]}
0:05:52.796903	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 008b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f08e7f07)
0:05:52.798872	LOG	Server <---------- DUT
0:05:52.800872	LOG	Attempt 17/20
0:05:57.673495	LOG	First uplink received. Open reception window.
0:05:57.774141	LOG	PUSH_ACK: 02 eacd 01
0:05:57.776109	LOG	GPS Time from gateway: 1385108198226
0:05:57.777141	LOG	PUSH_DATA: Protocol version = 02, Token = eacd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2652305370, 'time': '2023-11-27T08:16:19.227424Z', 'tmms': 1385108198226, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 13.2, 'foff': -3352, 'rssi': -48, 'size': 20, 'data': 'QAAAAACAjAACmCzl4nQPqPdCOmI='}]}
0:05:57.779109	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 008c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f7423a62)
0:05:57.780142	LOG	Server <---------- DUT
0:05:57.782110	LOG	Attempt 18/20
0:06:01.472206	LOG	GPS Time updated: 1385108202025
0:06:01.473206	LOG	PULL_DATA: 02 edff 02 0016c001ff1025bf
0:06:01.475209	LOG	PULL_ACK: 02 edff 04
0:06:02.673412	LOG	First uplink received. Open reception window.
0:06:02.774997	LOG	PUSH_ACK: 02 663c 01
0:06:02.776998	LOG	GPS Time from gateway: 1385108203226
0:06:02.778002	LOG	PUSH_DATA: Protocol version = 02, Token = 663c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2657305119, 'time': '2023-11-27T08:16:24.227172Z',

		'tmms': 1385108203226, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 13.8, 'foff': -3352, 'rssi': -48, 'size': 20, 'data': 'QAAAAACAjQACatz6l0oXT6iZQCE='}]}
0:06:02.780002	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 008d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a8994021)
0:06:02.781033	LOG	Server <---------- DUT
0:06:02.782999	LOG	Attempt 19/20
0:06:07.680129	LOG	First uplink received. Open reception window.
0:06:07.791714	LOG	PUSH_ACK: 02 315a 01
0:06:07.793748	LOG	GPS Time from gateway: 1385108208226
0:06:07.794786	LOG	PUSH_DATA: Protocol version = 02, Token = 315a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2662304897, 'time': '2023-11-27T08:16:29.226949Z', 'tmms': 1385108208226, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3361, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAjgAC25Vl4E8cewROWLg='}]}
0:06:07.796782	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 008e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 044e58b8)
0:06:07.797783	LOG	Server <---------- DUT
0:06:07.799760	LOG	Attempt 20/20
0:06:11.552331	LOG	GPS Time updated: 1385108212098
0:06:11.554299	LOG	PULL_DATA: 02 0dcf 02 0016c001ff1025bf
0:06:11.555332	LOG	PULL_ACK: 02 0dcf 04
0:06:12.674874	LOG	First uplink received. Open reception window.
0:06:12.779766	LOG	PUSH_ACK: 02 b6de 01
0:06:12.781730	LOG	GPS Time from gateway: 1385108213226
0:06:12.782729	LOG	PUSH_DATA: Protocol version = 02, Token = b6de, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2667304640, 'time': '2023-11-27T08:16:34.226691Z', 'tmms': 1385108213226, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3361, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAjwACuomF9slIpTkLcNU='}]}
0:06:12.784730	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 008f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 390b70d5)
0:06:12.785729	LOG	Server <---------- DUT
0:06:12.792991	LOG	Receive frame on specific channels process tested successfully
0:06:12.796033	LOG	End Test Step: Checking channel usage 8 to 11
0:06:12.800035	LOG	Partial Verdict: PASS
0:06:12.803090	LOG	==========
0:06:12.807075	LOG	==========
0:06:12.809088	LOG	Start Test Step: Checking channel usage 4 to 7
0:06:12.820670	LOG	Step 16-18
0:06:12.825622	LOG	Send LinkADRReq process starts
0:06:16.470117	LOG	#**********CURRENT BEACON SENT**********#
0:06:16.472085	LOG	PULL_RESP: Protocol version = 02, Token = b280, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385108224000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAE49SImsAAAAAAAAAAA='}}
0:06:16.473084	LOG	Server ----------> DUT
0:06:16.475085	LOG	#**********#
0:06:16.485084	LOG	#**********NEXT BEACON QUEUED**********#
0:06:16.486087	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385108352000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAE49SGrYAAAAAAAAAAA='}}

0:06:16.488085	LOG	Server --------------------> DUT
0:06:16.489085	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 80138f52, CRC1: 1ab6, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385108352000
0:06:16.491086	LOG	#** ******#
0:06:16.492085	LOG	Next BEACON scheduled at GPS time (ms): 1385108480000
0:06:16.494086	LOG	TX_ACK: 02 b280 05 0016c001ff1025bf
0:06:17.675997	LOG	First uplink received. Open reception window.
0:06:17.779545	LOG	PUSH_ACK: 02 956f 01
0:06:17.781537	LOG	GPS Time from gateway: 1385108218225
0:06:17.783516	LOG	PUSH_DATA: Protocol version = 02, Token = 956f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2672304369, 'time': '2023-11-27T08:16:39.226419Z', 'tmms': 1385108218225, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3356, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAkAACQ3Np4IsMaiguT3M='}]}
0:06:17.784549	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0090, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 282e4f73)
0:06:17.786517	LOG	Server <-------------------- DUT
0:06:17.787547	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0115, FOpts:), FPort: 00, FRMPayload: 0350f00001), MIC: c7146a3c)
0:06:17.789524	LOG	PULL_RESP: Protocol version = 02, Token = b0b6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2674304369, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAFQEA4efGs0LHFGo8'}}
0:06:17.791562	LOG	Server --------------------> DUT
0:06:17.796515	LOG	TX_ACK: 02 b0b6 05 0016c001ff1025bf
0:06:21.571950	LOG	GPS Time updated: 1385108222121
0:06:21.573951	LOG	PULL_DATA: 02 74f7 02 0016c001ff1025bf
0:06:21.574951	LOG	PULL_ACK: 02 74f7 04
0:06:22.888158	LOG	First uplink received. Open reception window.
0:06:22.991771	LOG	PUSH_ACK: 02 87ab 01
0:06:22.993738	LOG	GPS Time from gateway: 1385108223443
0:06:22.994739	LOG	PUSH_DATA: Protocol version = 02, Token = 87ab, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2677522343, 'time': '2023-11-27T08:16:44.444392Z', 'tmms': 1385108223443, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 13.5, 'foff': -3367, 'rssi': -48, 'size': 22, 'data': 'QAAAAACCkQADBwKg7pglGuvhFQAM3w=='}]}
0:06:22.996739	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0091, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 15000cdf)
0:06:22.997740	LOG	Server <-------------------- DUT
0:06:22.999758	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:06:23.001741	LOG	Command Answer: 0307
0:06:23.008238	LOG	MAC command communication completed
0:06:23.011238	LOG	Receive frame on specific channels process starts
0:06:23.022725	LOG	Attempt 1/20
0:06:27.670469	LOG	First uplink received. Open reception window.
0:06:27.783015	LOG	PUSH_ACK: 02 d000 01
0:06:27.784983	LOG	GPS Time from gateway: 1385108228227
0:06:27.785984	LOG	PUSH_DATA: Protocol version = 02, Token = d000, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2682304865, 'time': '2023-11-27T08:16:49.226912Z', 'tmms': 1385108228227, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.8, 'foff': -3356, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAkgAC0m2jhXrv4w4ignw='}]}

0:06:27.787983	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0092, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0e22827c)
0:06:27.789019	LOG	Server <---------- DUT
0:06:27.790984	LOG	Attempt 2/20
0:06:31.653529	LOG	GPS Time updated: 1385108232209
0:06:31.654529	LOG	PULL_DATA: 02 e282 02 0016c001ff1025bf
0:06:31.656530	LOG	PULL_ACK: 02 e282 04
0:06:32.671300	LOG	First uplink received. Open reception window.
0:06:32.783096	LOG	PUSH_ACK: 02 c978 01
0:06:32.785063	LOG	GPS Time from gateway: 1385108233227
0:06:32.787061	LOG	PUSH_DATA: Protocol version = 02, Token = c978, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2687304644, 'time': '2023-11-27T08:16:54.226690Z', 'tmms': 1385108233227, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.5, 'foff': -3356, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAkwACIgCAicLRb6eAXjU='}]}
0:06:32.788096	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0093, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a7805e35)
0:06:32.789098	LOG	Server <---------- DUT
0:06:32.791061	LOG	Attempt 3/20
0:06:37.673614	LOG	First uplink received. Open reception window.
0:06:37.783268	LOG	PUSH_ACK: 02 417e 01
0:06:37.785237	LOG	GPS Time from gateway: 1385108238226
0:06:37.786236	LOG	PUSH_DATA: Protocol version = 02, Token = 417e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2692304374, 'time': '2023-11-27T08:16:59.226421Z', 'tmms': 1385108238226, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3361, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAlAACcBFLTif+6Eu6Yus='}]}
0:06:37.788237	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0094, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4bba62eb)
0:06:37.789236	LOG	Server <---------- DUT
0:06:37.791238	LOG	Attempt 4/20
0:06:41.733962	LOG	GPS Time updated: 1385108242286
0:06:41.734962	LOG	PULL_DATA: 02 d5de 02 0016c001ff1025bf
0:06:41.735964	LOG	PULL_ACK: 02 d5de 04
0:06:42.679420	LOG	First uplink received. Open reception window.
0:06:42.782275	LOG	PUSH_ACK: 02 01bf 01
0:06:42.784242	LOG	GPS Time from gateway: 1385108243226
0:06:42.785242	LOG	PUSH_DATA: Protocol version = 02, Token = 01bf, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2697304148, 'time': '2023-11-27T08:17:04.226194Z', 'tmms': 1385108243226, 'chan': 7, 'rfch': 0, 'freq': 867.9, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3365, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAlQACBJEqWO0aN7RSfxk='}]}
0:06:42.786243	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0095, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b4527f19)
0:06:42.788242	LOG	Server <---------- DUT
0:06:42.789243	LOG	Attempt 5/20
0:06:47.679899	LOG	First uplink received. Open reception window.
0:06:47.783457	LOG	PUSH_ACK: 02 be11 01
0:06:47.785421	LOG	GPS Time from gateway: 1385108248226
0:06:47.786454	LOG	PUSH_DATA: Protocol version = 02, Token = be11, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2702303929, 'time': '2023-11-27T08:17:09.225974Z', 'tmms': 1385108248226, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3356, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAlgACiOiFsFq1uMB99x4='}]}
0:06:47.788419	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0096, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c07df71e)

0:06:47.789437	LOG	Server <---------- DUT
0:06:47.791425	LOG	Attempt 6/20
0:06:51.813687	LOG	GPS Time updated: 1385108252360
0:06:51.814687	LOG	PULL_DATA: 02 2bef 02 0016c001ff1025bf
0:06:51.816687	LOG	PULL_ACK: 02 2bef 04
0:06:52.680083	LOG	First uplink received. Open reception window.
0:06:52.785591	LOG	PUSH_ACK: 02 6b38 01
0:06:52.787591	LOG	GPS Time from gateway: 1385108253226
0:06:52.788598	LOG	PUSH_DATA: Protocol version = 02, Token = 6b38, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2707303656, 'time': '2023-11-27T08:17:14.225700Z', 'tmms': 1385108253226, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3361, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAlwACvQKFt/Dxiel6k7Q='}]}
0:06:52.790592	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0097, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e97a93b4)
0:06:52.791627	LOG	Server <---------- DUT
0:06:52.793594	LOG	Attempt 7/20
0:06:57.680814	LOG	First uplink received. Open reception window.
0:06:57.783464	LOG	PUSH_ACK: 02 be22 01
0:06:57.785468	LOG	GPS Time from gateway: 1385108258225
0:06:57.786463	LOG	PUSH_DATA: Protocol version = 02, Token = be22, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2712303400, 'time': '2023-11-27T08:17:19.225443Z', 'tmms': 1385108258225, 'chan': 7, 'rfch': 0, 'freq': 867.9, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3358, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAmAAChIV9T7ck3rNVppo='}]}
0:06:57.788463	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0098, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b355a69a)
0:06:57.789464	LOG	Server <---------- DUT
0:06:57.791432	LOG	Attempt 8/20
0:07:01.893406	LOG	GPS Time updated: 1385108262438
0:07:01.895411	LOG	PULL_DATA: 02 16fb 02 0016c001ff1025bf
0:07:01.896375	LOG	PULL_ACK: 02 16fb 04
0:07:02.678192	LOG	First uplink received. Open reception window.
0:07:02.782812	LOG	PUSH_ACK: 02 35ab 01
0:07:02.784778	LOG	GPS Time from gateway: 1385108263225
0:07:02.785778	LOG	PUSH_DATA: Protocol version = 02, Token = 35ab, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2717303145, 'time': '2023-11-27T08:17:24.225187Z', 'tmms': 1385108263225, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 13.5, 'foff': -3352, 'rssi': -48, 'size': 20, 'data': 'QAAAAACAmQACna+vsHeZ47HyDjI='}]}
0:07:02.786778	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0099, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b1f20e32)
0:07:02.788779	LOG	Server <---------- DUT
0:07:02.790779	LOG	Attempt 9/20
0:07:07.673604	LOG	First uplink received. Open reception window.
0:07:07.782384	LOG	PUSH_ACK: 02 6aa9 01
0:07:07.784353	LOG	GPS Time from gateway: 1385108268225
0:07:07.785352	LOG	PUSH_DATA: Protocol version = 02, Token = 6aa9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2722302916, 'time': '2023-11-27T08:17:29.224957Z', 'tmms': 1385108268225, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 13.5, 'foff': -3352, 'rssi': -48, 'size': 20, 'data': 'QAAAAACAmgACDBMpIUlnYbiro7Y='}]}
0:07:07.786353	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 009a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b8aba3b6)
0:07:07.788353	LOG	Server <---------- DUT
0:07:07.790362	LOG	Attempt 10/20

0:07:11.974883	LOG	GPS Time updated: 1385108272526
0:07:11.975916	LOG	PULL_DATA: 02 a3f2 02 0016c001ff1025bf
0:07:11.977885	LOG	PULL_ACK: 02 a3f2 04
0:07:12.676390	LOG	First uplink received. Open reception window.
0:07:12.785206	LOG	PUSH_ACK: 02 5573 01
0:07:12.787176	LOG	GPS Time from gateway: 1385108273225
0:07:12.788174	LOG	PUSH_DATA: Protocol version = 02, Token = 5573, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2727302687, 'time': '2023-11-27T08:17:34.224727Z', 'tmms': 1385108273225, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3353, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAmwACHfs4QzTOLUtnXMc='}]}
0:07:12.790173	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 009b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4b675cc7)
0:07:12.791173	LOG	Server <---------- DUT
0:07:12.793176	LOG	Attempt 11/20
0:07:17.673089	LOG	First uplink received. Open reception window.
0:07:17.784280	LOG	PUSH_ACK: 02 f5bb 01
0:07:17.786247	LOG	GPS Time from gateway: 1385108278224
0:07:17.787248	LOG	PUSH_DATA: Protocol version = 02, Token = f5bb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2732302469, 'time': '2023-11-27T08:17:39.224508Z', 'tmms': 1385108278224, 'chan': 7, 'rfch': 0, 'freq': 867.9, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3358, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAnAACwemRPbzghKj2tH0='}]}
0:07:17.788248	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 009c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a8f6b47d)
0:07:17.790249	LOG	Server <---------- DUT
0:07:17.792248	LOG	Attempt 12/20
0:07:22.054857	LOG	GPS Time updated: 1385108282604
0:07:22.055857	LOG	PULL_DATA: 02 af36 02 0016c001ff1025bf
0:07:22.056859	LOG	PULL_ACK: 02 af36 04
0:07:22.669590	LOG	First uplink received. Open reception window.
0:07:22.773135	LOG	PUSH_ACK: 02 3a84 01
0:07:22.775141	LOG	GPS Time from gateway: 1385108283224
0:07:22.776175	LOG	PUSH_DATA: Protocol version = 02, Token = 3a84, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2737302205, 'time': '2023-11-27T08:17:44.224243Z', 'tmms': 1385108283224, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 13.5, 'foff': -3352, 'rssi': -48, 'size': 20, 'data': 'QAAAAACAnQACnrkB/F/Vgf+f6ak='}]}
0:07:22.777174	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 009d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ff9fe9a9)
0:07:22.779139	LOG	Server <---------- DUT
0:07:22.781141	LOG	Attempt 13/20
0:07:27.679404	LOG	First uplink received. Open reception window.
0:07:27.786507	LOG	PUSH_ACK: 02 143b 01
0:07:27.788476	LOG	GPS Time from gateway: 1385108288224
0:07:27.789475	LOG	PUSH_DATA: Protocol version = 02, Token = 143b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2742301977, 'time': '2023-11-27T08:17:49.224014Z', 'tmms': 1385108288224, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3341, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAngACCZugFRr+Zjo800c='}]}
0:07:27.790475	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 009e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3a3cd347)
0:07:27.792476	LOG	Server <---------- DUT
0:07:27.793981	LOG	Attempt 14/20
0:07:32.134408	LOG	GPS Time updated: 1385108292679
0:07:32.136377	LOG	PULL_DATA: 02 43bf 02 0016c001ff1025bf

0:07:32.138376	LOG	PULL_ACK: 02 43bf 04
0:07:32.680509	LOG	First uplink received. Open reception window.
0:07:32.786688	LOG	PUSH_ACK: 02 2a01 01
0:07:32.788687	LOG	GPS Time from gateway: 1385108293224
0:07:32.789689	LOG	PUSH_DATA: Protocol version = 02, Token = 2a01, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2747301743, 'time': '2023-11-27T08:17:54.223779Z', 'tmms': 1385108293224, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3353, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAnwACjdk5+TeZkFfm/3Q='}]}
0:07:32.791688	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 009f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 57e6ff74)
0:07:32.792689	LOG	Server <---------- DUT
0:07:32.794689	LOG	Attempt 15/20
0:07:37.673893	LOG	First uplink received. Open reception window.
0:07:37.785472	LOG	PUSH_ACK: 02 d055 01
0:07:37.787449	LOG	GPS Time from gateway: 1385108298224
0:07:37.788439	LOG	PUSH_DATA: Protocol version = 02, Token = d055, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2752301524, 'time': '2023-11-27T08:17:59.223558Z', 'tmms': 1385108298224, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3353, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAoAACb4RVAsNWsNwoUEA='}]}
0:07:37.790444	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00a0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: dc285040)
0:07:37.791444	LOG	Server <---------- DUT
0:07:37.793454	LOG	Attempt 16/20
0:07:42.214710	LOG	GPS Time updated: 1385108302765
0:07:42.216710	LOG	PULL_DATA: 02 f13c 02 0016c001ff1025bf
0:07:42.218215	LOG	PULL_ACK: 02 f13c 04
0:07:42.670041	LOG	First uplink received. Open reception window.
0:07:42.771652	LOG	PUSH_ACK: 02 8daf 01
0:07:42.773619	LOG	GPS Time from gateway: 1385108303223
0:07:42.774619	LOG	PUSH_DATA: Protocol version = 02, Token = 8daf, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2757301255, 'time': '2023-11-27T08:18:04.223288Z', 'tmms': 1385108303223, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 14.0, 'foff': -3352, 'rssi': -48, 'size': 20, 'data': 'QAAAAACAoQACT4JgKDM2vr7ZQxQ='}]}
0:07:42.776624	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00a1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: bed94314)
0:07:42.777624	LOG	Server <---------- DUT
0:07:42.779624	LOG	Attempt 17/20
0:07:47.674771	LOG	First uplink received. Open reception window.
0:07:47.778749	LOG	PUSH_ACK: 02 ab93 01
0:07:47.780717	LOG	GPS Time from gateway: 1385108308223
0:07:47.782120	LOG	PUSH_DATA: Protocol version = 02, Token = ab93, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2762301034, 'time': '2023-11-27T08:18:09.223068Z', 'tmms': 1385108308223, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 13.5, 'foff': -3352, 'rssi': -48, 'size': 20, 'data': 'QAAAAACAogACO4ogPWhayxwSdGA='}]}
0:07:47.784089	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00a2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1c127460)
0:07:47.785119	LOG	Server <---------- DUT
0:07:47.787120	LOG	Attempt 18/20
0:07:52.295627	LOG	GPS Time updated: 1385108312843
0:07:52.296627	LOG	PULL_DATA: 02 4f15 02 0016c001ff1025bf
0:07:52.298633	LOG	PULL_ACK: 02 4f15 04
0:07:52.674056	LOG	First uplink received. Open reception window.

0:07:52.780840	LOG	PUSH_ACK: 02 3df2 01
0:07:52.782846	LOG	GPS Time from gateway: 1385108313223
0:07:52.783845	LOG	PUSH_DATA: Protocol version = 02, Token = 3df2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2767300802, 'time': '2023-11-27T08:18:14.222835Z', 'tmms': 1385108313223, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.5, 'foff': -3356, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAowAClnpP/193eDG5XDI='}]}
0:07:52.785851	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00a3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 31b95c32)
0:07:52.786845	LOG	Server <---------- DUT
0:07:52.788846	LOG	Attempt 19/20
0:07:57.673320	LOG	First uplink received. Open reception window.
0:07:57.777905	LOG	PUSH_ACK: 02 0792 01
0:07:57.779906	LOG	GPS Time from gateway: 1385108318223
0:07:57.780908	LOG	PUSH_DATA: Protocol version = 02, Token = 0792, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2772300569, 'time': '2023-11-27T08:18:19.222601Z', 'tmms': 1385108318223, 'chan': 7, 'rfch': 0, 'freq': 867.9, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3358, 'rssi': -51, 'size': 20, 'data': 'QAAAAACApAACNsUSLS1uc9Fgt8E='}]}
0:07:57.782995	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00a4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d160b7c1)
0:07:57.783992	LOG	Server <---------- DUT
0:07:57.786998	LOG	Attempt 20/20
0:08:02.375491	LOG	GPS Time updated: 1385108322925
0:08:02.376495	LOG	PULL_DATA: 02 65fa 02 0016c001ff1025bf
0:08:02.378496	LOG	PULL_ACK: 02 65fa 04
0:08:02.676407	LOG	First uplink received. Open reception window.
0:08:02.789436	LOG	PUSH_ACK: 02 c95a 01
0:08:02.791403	LOG	GPS Time from gateway: 1385108323222
0:08:02.792405	LOG	PUSH_DATA: Protocol version = 02, Token = c95a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2777300310, 'time': '2023-11-27T08:18:24.222341Z', 'tmms': 1385108323222, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 12.8, 'foff': -3367, 'rssi': -48, 'size': 20, 'data': 'QAAAAACApQACWhQ5E6PkIJRiu+8='}]}
0:08:02.794404	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00a5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9462bbef)
0:08:02.795404	LOG	Server <---------- DUT
0:08:02.803410	LOG	Receive frame on specific channels process tested successfully
0:08:02.806410	LOG	End Test Step: Checking channel usage 4 to 7
0:08:02.810410	LOG	Partial Verdict: PASS
0:08:02.813918	LOG	==========
0:08:02.818083	LOG	==========
0:08:02.822096	LOG	Start Test Step: Checking channel usage 0 to 3
0:08:02.832633	LOG	Step 19-21
0:08:02.838659	LOG	Send LinkADRReq process starts
0:08:07.674120	LOG	First uplink received. Open reception window.
0:08:07.778420	LOG	PUSH_ACK: 02 b578 01
0:08:07.780398	LOG	GPS Time from gateway: 1385108328222
0:08:07.782478	LOG	PUSH_DATA: Protocol version = 02, Token = b578, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2782300096, 'time': '2023-11-27T08:18:29.222126Z', 'tmms': 1385108328222, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 13.8, 'foff': -3352, 'rssi': -48, 'size': 20, 'data': 'QAAAAACApgACTAr6G/r70W4nRGQ='}]}
0:08:07.783477	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00a6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6e274464)
0:08:07.785477	LOG	Server <---------- DUT

0:08:07.788480	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0116, FOpts:), FPort: 00, FRMPayload: 03500f0001), MIC: 2f346c92)
0:08:07.790477	LOG	PULL_RESP: Protocol version = 02, Token = 4559, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2784300096, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAFgEAspCGOe0vNGyS'}}
0:08:07.792476	LOG	Server ----------> DUT
0:08:07.794961	LOG	TX_ACK: 02 4559 05 0016c001ff1025bf
0:08:12.405061	LOG	GPS Time updated: 1385108332953
0:08:12.407637	LOG	PULL_DATA: 02 90ef 02 0016c001ff1025bf
0:08:12.408604	LOG	PULL_ACK: 02 90ef 04
0:08:12.675667	LOG	First uplink received. Open reception window.
0:08:12.780626	LOG	PUSH_ACK: 02 fda5 01
0:08:12.782163	LOG	GPS Time from gateway: 1385108333222
0:08:12.784203	LOG	PUSH_DATA: Protocol version = 02, Token = fda5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2787299930, 'time': '2023-11-27T08:18:34.221959Z', 'tmms': 1385108333222, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3362, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCpwADBwIt+I5suPYhSY+DwQ==''}]}
0:08:12.785200	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 00a7, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 498f83c1)
0:08:12.787204	LOG	Server <---------- DUT
0:08:12.788170	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:08:12.790203	LOG	Command Answer: 0307
0:08:12.797074	LOG	MAC command communication completed
0:08:12.800280	LOG	Receive frame on specific channels process starts
0:08:12.811291	LOG	Attempt 1/20
0:08:17.674951	LOG	First uplink received. Open reception window.
0:08:17.785339	LOG	PUSH_ACK: 02 6455 01
0:08:17.787307	LOG	GPS Time from gateway: 1385108338222
0:08:17.788307	LOG	PUSH_DATA: Protocol version = 02, Token = 6455, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2792299574, 'time': '2023-11-27T08:18:39.221602Z', 'tmms': 1385108338222, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 13.5, 'foff': -3355, 'rssi': -48, 'size': 20, 'data': 'QAAAAACAqAACObAFNhwelyjHp80='}]}
0:08:17.790307	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00a8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 28c7a7cd)
0:08:17.791307	LOG	Server <---------- DUT
0:08:17.793308	LOG	Attempt 2/20
0:08:22.486167	LOG	#**********CURRENT BEACON SENT**********#
0:08:22.487167	LOG	PULL_RESP: Protocol version = 02, Token = a075, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385108352000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAE49SGrYAAAAAAAAAAA='}}
0:08:22.489168	LOG	Server ----------> DUT
0:08:22.491175	LOG	#**********#
0:08:22.500742	LOG	#**********NEXT BEACON QUEUED**********#
0:08:22.502747	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385108480000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAFI9Ssu4AAAAAAAAAAA='}}
0:08:22.503746	LOG	Server ----------> DUT

0:08:22.504747	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 00148f52, CRC1: b2ee, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385108480000
0:08:22.506796	LOG	#**#
0:08:22.507780	LOG	Next BEACON scheduled at GPS time (ms): 1385108608000
0:08:22.509748	LOG	GPS Time updated: 1385108343056
0:08:22.510779	LOG	PULL_DATA: 02 4235 02 0016c001ff1025bf
0:08:22.512749	LOG	PULL_ACK: 02 4235 04
0:08:22.513780	LOG	TX_ACK: 02 a075 05 0016c001ff1025bf
0:08:22.671140	LOG	First uplink received. Open reception window.
0:08:22.785874	LOG	PUSH_ACK: 02 ab33 01
0:08:22.787879	LOG	GPS Time from gateway: 1385108343221
0:08:22.789887	LOG	PUSH_DATA: Protocol version = 02, Token = ab33, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2797299343, 'time': '2023-11-27T08:18:44.221370Z', 'tmms': 1385108343221, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 13.5, 'foff': -3355, 'rssi': -48, 'size': 20, 'data': 'QAAAAACAqQACRUv3KpQ8JJuxYSk='}]}
0:08:22.790878	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00a9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9bb16129)
0:08:22.792875	LOG	Server <-------------------- DUT
0:08:22.794910	LOG	Attempt 3/20
0:08:27.677465	LOG	First uplink received. Open reception window.
0:08:27.790193	LOG	PUSH_ACK: 02 7138 01
0:08:27.792157	LOG	GPS Time from gateway: 1385108348221
0:08:27.793157	LOG	PUSH_DATA: Protocol version = 02, Token = 7138, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2802299113, 'time': '2023-11-27T08:18:49.221139Z', 'tmms': 1385108348221, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3358, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAqgACmRJgKLAmIPG5b14='}]}
0:08:27.794158	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00aa, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f1b96f5e)
0:08:27.796158	LOG	Server <-------------------- DUT
0:08:27.798158	LOG	Attempt 4/20
0:08:32.586134	LOG	GPS Time updated: 1385108353130
0:08:32.588101	LOG	PULL_DATA: 02 e2cf 02 0016c001ff1025bf
0:08:32.589101	LOG	PULL_ACK: 02 e2cf 04
0:08:32.672519	LOG	First uplink received. Open reception window.
0:08:32.784483	LOG	PUSH_ACK: 02 dc8d 01
0:08:32.786452	LOG	GPS Time from gateway: 1385108353221
0:08:32.787486	LOG	PUSH_DATA: Protocol version = 02, Token = dc8d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2807298883, 'time': '2023-11-27T08:18:54.220908Z', 'tmms': 1385108353221, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3358, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAqwACJTtIoZYzG72VjKs='}]}
0:08:32.788487	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00ab, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: bd958cab)
0:08:32.790492	LOG	Server <-------------------- DUT
0:08:32.791453	LOG	Attempt 5/20
0:08:37.670312	LOG	First uplink received. Open reception window.
0:08:37.785399	LOG	PUSH_ACK: 02 622b 01
0:08:37.787367	LOG	GPS Time from gateway: 1385108358221
0:08:37.788367	LOG	PUSH_DATA: Protocol version = 02, Token = 622b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2812298632, 'time': '2023-11-27T08:18:59.220656Z', 'tmms': 1385108358221, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 13.2, 'foff': -3348, 'rssi': -48, 'size': 20, 'data': 'QAAAAACArAAC9WF9v01s27g2yzs='}]}
0:08:37.790368	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00ac, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b836cb3b)
0:08:37.791367	LOG	Server <---------- DUT
0:08:37.793367	LOG	Attempt 6/20
0:08:42.666122	LOG	GPS Time updated: 1385108363218
0:08:42.668120	LOG	PULL_DATA: 02 a39f 02 0016c001ff1025bf
0:08:42.669088	LOG	PULL_ACK: 02 a39f 04
0:08:42.671103	LOG	First uplink received. Open reception window.
0:08:42.774114	LOG	PUSH_ACK: 02 1daa 01
0:08:42.776080	LOG	GPS Time from gateway: 1385108363220
0:08:42.777080	LOG	PUSH_DATA: Protocol version = 02, Token = 1daa, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2817298396, 'time': '2023-11-27T08:19:04.220418Z', 'tmms': 1385108363220, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 13.8, 'foff': -3348, 'rssi': -48, 'size': 20, 'data': 'QAAAAACArQACmHUB6Dq+k1uyogE='}]}
0:08:42.779085	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00ad, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5bb2a201)
0:08:42.780084	LOG	Server <---------- DUT
0:08:42.781085	LOG	Attempt 7/20
0:08:47.668645	LOG	First uplink received. Open reception window.
0:08:47.781390	LOG	PUSH_ACK: 02 a4fa 01
0:08:47.782894	LOG	GPS Time from gateway: 1385108368220
0:08:47.784899	LOG	PUSH_DATA: Protocol version = 02, Token = a4fa, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2822298174, 'time': '2023-11-27T08:19:09.220195Z', 'tmms': 1385108368220, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3354, 'rssi': -50, 'size': 20, 'data': 'QAAAAACArgACYjzxtrmpvmiBOGE='}]}
0:08:47.785900	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00ae, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 68813861)
0:08:47.787900	LOG	Server <---------- DUT
0:08:47.788927	LOG	Attempt 8/20
0:08:52.668185	LOG	First uplink received. Open reception window.
0:08:52.746548	LOG	PULL_DATA: 02 736c 02 0016c001ff1025bf
0:08:52.748515	LOG	PULL_ACK: 02 736c 04
0:08:52.770091	LOG	PUSH_ACK: 02 dc5a 01
0:08:52.772110	LOG	GPS Time from gateway: 1385108373220
0:08:52.774660	LOG	PUSH_DATA: Protocol version = 02, Token = dc5a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2827297910, 'time': '2023-11-27T08:19:14.219932Z', 'tmms': 1385108373220, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3347, 'rssi': -50, 'size': 20, 'data': 'QAAAAACArwACcfKC1FFrh58iGwc='}]}
0:08:52.775661	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00af, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9f221b07)
0:08:52.776656	LOG	Server <---------- DUT
0:08:52.778660	LOG	Attempt 9/20
0:08:57.672810	LOG	First uplink received. Open reception window.
0:08:57.776626	LOG	PUSH_ACK: 02 4970 01
0:08:57.778627	LOG	GPS Time from gateway: 1385108378220
0:08:57.779988	LOG	PUSH_DATA: Protocol version = 02, Token = 4970, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2832297652, 'time': '2023-11-27T08:19:19.219673Z', 'tmms': 1385108378220, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3347, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAsAACC8PeBmTrZPzHDUw='}]}

0:08:57.780988	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00b0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fcc70d4c)
0:08:57.782956	LOG	Server <---------- DUT
0:08:57.784498	LOG	Attempt 10/20
0:09:02.674435	LOG	First uplink received. Open reception window.
0:09:02.785381	LOG	PUSH_ACK: 02 1174 01
0:09:02.787381	LOG	GPS Time from gateway: 1385108383219
0:09:02.788381	LOG	PUSH_DATA: Protocol version = 02, Token = 1174, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2837297401, 'time': '2023-11-27T08:19:24.219421Z', 'tmms': 1385108383219, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3346, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAsQACZ1Mh+k4DFiwnGz4='}]}
0:09:02.789380	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00b1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2c271b3e)
0:09:02.791381	LOG	Server <---------- DUT
0:09:02.792380	LOG	Attempt 11/20
0:09:02.827057	LOG	GPS Time updated: 1385108383372
0:09:02.828024	LOG	PULL_DATA: 02 b076 02 0016c001ff1025bf
0:09:02.830057	LOG	PULL_ACK: 02 b076 04
0:09:07.669222	LOG	First uplink received. Open reception window.
0:09:07.785364	LOG	PUSH_ACK: 02 caf2 01
0:09:07.787330	LOG	GPS Time from gateway: 1385108388219
0:09:07.788331	LOG	PUSH_DATA: Protocol version = 02, Token = caf2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2842297135, 'time': '2023-11-27T08:19:29.219154Z', 'tmms': 1385108388219, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3354, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAsgACyNE6tz7ua4K+dQ8='}]}
0:09:07.789837	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00b2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 82be750f)
0:09:07.790842	LOG	Server <---------- DUT
0:09:07.792842	LOG	Attempt 12/20
0:09:12.670748	LOG	First uplink received. Open reception window.
0:09:12.771637	LOG	PUSH_ACK: 02 ab75 01
0:09:12.773601	LOG	GPS Time from gateway: 1385108393219
0:09:12.774601	LOG	PUSH_DATA: Protocol version = 02, Token = ab75, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2847296915, 'time': '2023-11-27T08:19:34.218933Z', 'tmms': 1385108393219, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3347, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAswAC3x5EuG/wkbH2gm8='}]}
0:09:12.775605	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00b3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b1f6826f)
0:09:12.777606	LOG	Server <---------- DUT
0:09:12.778606	LOG	Attempt 13/20
0:09:12.907375	LOG	GPS Time updated: 1385108393456
0:09:12.908878	LOG	PULL_DATA: 02 251c 02 0016c001ff1025bf
0:09:12.909885	LOG	PULL_ACK: 02 251c 04
0:09:17.675028	LOG	First uplink received. Open reception window.
0:09:17.782551	LOG	PUSH_ACK: 02 eb89 01
0:09:17.784054	LOG	GPS Time from gateway: 1385108398219
0:09:17.786060	LOG	PUSH_DATA: Protocol version = 02, Token = eb89, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2852296661, 'time': '2023-11-27T08:19:39.218678Z', 'tmms': 1385108398219, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3347, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAtAACknd4mkyEiVfJNsg='}]}
0:09:17.787060	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00b4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 57c936c8)

0:09:17.788059	LOG	Server <---------- DUT
0:09:17.790062	LOG	Attempt 14/20
0:09:22.670216	LOG	First uplink received. Open reception window.
0:09:22.772211	LOG	PUSH_ACK: 02 954d 01
0:09:22.774180	LOG	GPS Time from gateway: 1385108403218
0:09:22.775214	LOG	PUSH_DATA: Protocol version = 02, Token = 954d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2857296404, 'time': '2023-11-27T08:19:44.218420Z', 'tmms': 1385108403218, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 13.5, 'foff': -3332, 'rssi': -48, 'size': 20, 'data': 'QAAAAACAtQAC25Mflagtoeeyku0='}]}
0:09:22.777185	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00b5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e7b292ed)
0:09:22.778181	LOG	Server <---------- DUT
0:09:22.780183	LOG	Attempt 15/20
0:09:22.987357	LOG	GPS Time updated: 1385108403536
0:09:22.988405	LOG	PULL_DATA: 02 b438 02 0016c001ff1025bf
0:09:22.990363	LOG	PULL_ACK: 02 b438 04
0:09:27.677302	LOG	First uplink received. Open reception window.
0:09:27.791587	LOG	PUSH_ACK: 02 edd1 01
0:09:27.793559	LOG	GPS Time from gateway: 1385108408218
0:09:27.794559	LOG	PUSH_DATA: Protocol version = 02, Token = edd1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2862296132, 'time': '2023-11-27T08:19:49.218147Z', 'tmms': 1385108408218, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3346, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAtgACEuB+kO65x7TGpE4='}]}
0:09:27.795559	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00b6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b4c6a44e)
0:09:27.797559	LOG	Server <---------- DUT
0:09:27.799574	LOG	Attempt 16/20
0:09:32.666749	LOG	First uplink received. Open reception window.
0:09:32.781233	LOG	PUSH_ACK: 02 e31e 01
0:09:32.783201	LOG	GPS Time from gateway: 1385108413218
0:09:32.784237	LOG	PUSH_DATA: Protocol version = 02, Token = e31e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2867295913, 'time': '2023-11-27T08:19:54.217927Z', 'tmms': 1385108413218, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3347, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAtwACgfkCaTDMse/g+Ss='}]}
0:09:32.786328	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00b7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: efe0f92b)
0:09:32.787317	LOG	Server <---------- DUT
0:09:32.789336	LOG	Attempt 17/20
0:09:33.067264	LOG	GPS Time updated: 1385108413619
0:09:33.069231	LOG	PULL_DATA: 02 5387 02 0016c001ff1025bf
0:09:33.070231	LOG	PULL_ACK: 02 5387 04
0:09:37.669949	LOG	First uplink received. Open reception window.
0:09:37.775377	LOG	PUSH_ACK: 02 192f 01
0:09:37.777384	LOG	GPS Time from gateway: 1385108418218
0:09:37.778381	LOG	PUSH_DATA: Protocol version = 02, Token = 192f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2872295655, 'time': '2023-11-27T08:19:59.217668Z', 'tmms': 1385108418218, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3347, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAuAACkB4xX5kfWAwvAXc='}]}
0:09:37.779377	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00b8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0c2f0177)
0:09:37.781377	LOG	Server <---------- DUT
0:09:37.783344	LOG	Attempt 18/20

0:09:42.673464	LOG	First uplink received. Open reception window.
0:09:42.780759	LOG	PUSH_ACK: 02 e18c 01
0:09:42.782727	LOG	GPS Time from gateway: 1385108423217
0:09:42.783727	LOG	PUSH_DATA: Protocol version = 02, Token = e18c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2877295389, 'time': '2023-11-27T08:20:04.217401Z', 'tmms': 1385108423217, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3346, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAuQACdyk0OoFhanxB/Fw='}]}
0:09:42.785736	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00b9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7c41fc5c)
0:09:42.786736	LOG	Server <---------- DUT
0:09:42.788737	LOG	Attempt 19/20
0:09:43.158077	LOG	GPS Time updated: 1385108423703
0:09:43.159581	LOG	PULL_DATA: 02 9c2b 02 0016c001ff1025bf
0:09:43.160586	LOG	PULL_ACK: 02 9c2b 04
0:09:47.671630	LOG	First uplink received. Open reception window.
0:09:47.783597	LOG	PUSH_ACK: 02 9fac 01
0:09:47.784596	LOG	GPS Time from gateway: 1385108428217
0:09:47.786973	LOG	PUSH_DATA: Protocol version = 02, Token = 9fac, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2882295165, 'time': '2023-11-27T08:20:09.217176Z', 'tmms': 1385108428217, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3346, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAugACIedTgdm3bdoepLg='}]}
0:09:47.787970	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00ba, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: da1ea4b8)
0:09:47.788970	LOG	Server <---------- DUT
0:09:47.790939	LOG	Attempt 20/20
0:09:52.675881	LOG	First uplink received. Open reception window.
0:09:52.782752	LOG	PUSH_ACK: 02 2369 01
0:09:52.783717	LOG	GPS Time from gateway: 1385108433217
0:09:52.785222	LOG	PUSH_DATA: Protocol version = 02, Token = 2369, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2887294902, 'time': '2023-11-27T08:20:14.216911Z', 'tmms': 1385108433217, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3335, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAuwACETCVwTespYw3tkM='}]}
0:09:52.787228	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00bb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8c37b643)
0:09:52.788227	LOG	Server <---------- DUT
0:09:52.796450	LOG	Receive frame on specific channels process tested successfully
0:09:52.798459	LOG	End Test Step: Checking channel usage 0 to 3
0:09:52.802463	LOG	Partial Verdict: PASS
0:09:52.806462	LOG	==========
0:09:52.810363	LOG	==========
0:09:52.812382	LOG	Start Test Step: Removing multiple channels 1
0:09:52.825665	LOG	Step 22-23
0:09:52.828694	LOG	Send MAC command block process starts
0:09:53.238062	LOG	GPS Time updated: 1385108433780
0:09:53.240066	LOG	PULL_DATA: 02 9fce 02 0016c001ff1025bf
0:09:53.241066	LOG	PULL_ACK: 02 9fce 04
0:09:57.673209	LOG	First uplink received. Open reception window.
0:09:57.786276	LOG	PUSH_ACK: 02 dec4 01
0:09:57.788244	LOG	GPS Time from gateway: 1385108438217
0:09:57.789244	LOG	PUSH_DATA: Protocol version = 02, Token = dec4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2892294681, 'time': '2023-11-27T08:20:19.216689Z', 'tmms': 1385108438217, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3332, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAvAACf3jr2V4CgRFkdKA='}]}
0:09:57.791244	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00bc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 116474a0)
0:09:57.792244	LOG	Server <---------- DUT
0:09:57.794261	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0117, FOpts:), FPort: 00, FRMPayload: 07030000005007040000005007050000005007060000005007070000050), MIC: 45bdba26)
0:09:57.796247	LOG	PULL_RESP: Protocol version = 02, Token = 5bf2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2894294681, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 43, 'data': 'YAAAAAAAFwEAAPBrNcKYpI7QWUqkqnmzSA3+NVCl9O406ouF//bKRb26Jg=='}}
0:09:57.797245	LOG	Server ----------> DUT
0:09:57.800139	LOG	TX_ACK: 02 5bf2 05 0016c001ff1025bf
0:10:03.258431	LOG	GPS Time updated: 1385108443802
0:10:03.259429	LOG	PULL_DATA: 02 ea8c 02 0016c001ff1025bf
0:10:03.261445	LOG	PULL_ACK: 02 ea8c 04
0:10:03.739780	LOG	First uplink received. Open reception window.
0:10:03.847688	LOG	PUSH_ACK: 02 ccd5 01
0:10:03.849691	LOG	GPS Time from gateway: 1385108444286
0:10:03.850692	LOG	PUSH_DATA: Protocol version = 02, Token = ccd5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2898364470, 'time': '2023-11-27T08:20:25.286477Z', 'tmms': 1385108444286, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3347, 'rssi': -49, 'size': 30, 'data': 'QAAAAACKvQAHAwcDBwMHAwcDAuEe42pjt/K4uXP3'}]}
0:10:03.852706	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 8a, FCnt: 00bd, FOpts: 07030703070307030703), FPort: 02, FRMPayload: 00000001020000, MIC: b8b973f7)
0:10:03.853691	LOG	Server <---------- DUT
0:10:03.855692	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:10:03.857694	LOG	Command Answer: 07030703070307030703
0:10:03.959507	LOG	MAC command communication completed
0:10:03.962474	LOG	End Test Step: Removing multiple channels 1
0:10:03.966474	LOG	Partial Verdict: PASS
0:10:03.970474	LOG	==========
0:10:03.974983	LOG	==========
0:10:03.976985	LOG	Start Test Step: Removing multiple channels 2
0:10:03.989019	LOG	Step 22-23
0:10:03.993025	LOG	Send MAC command block process starts
0:10:08.504466	LOG	First uplink received. Open reception window.
0:10:08.607512	LOG	PUSH_ACK: 02 1562 01
0:10:08.609412	LOG	GPS Time from gateway: 1385108449053
0:10:08.610415	LOG	PUSH_DATA: Protocol version = 02, Token = 1562, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2903131026, 'time': '2023-11-27T08:20:30.053034Z', 'tmms': 1385108449053, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.0, 'foff': -3332, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAvgAC+05F4SKBP8fjLPY='}]}
0:10:08.612412	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00be, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c7e32cf6)
0:10:08.613417	LOG	Server <---------- DUT

0:10:08.615412	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0118, FOpts:), FPort: 00, FRMPayload: 07080000005007090000050070a00000050070b00000050070c00000050), MIC: 39c43111)
0:10:08.616412	LOG	PULL_RESP: Protocol version = 02, Token = 90d5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2905131026, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 43, 'data': 'YAAAAAAAGAEAonyPBbsxKARHdTXcQ4t+lHtt8bAykQ42yRXTmAt+OcQxEQ==''}}
0:10:08.618921	LOG	Server ----------> DUT
0:10:08.621294	LOG	TX_ACK: 02 90d5 05 0016c001ff1025bf
0:10:13.448825	LOG	GPS Time updated: 1385108453997
0:10:13.450825	LOG	PULL_DATA: 02 23ca 02 0016c001ff1025bf
0:10:13.451828	LOG	PULL_ACK: 02 23ca 04
0:10:13.518920	LOG	First uplink received. Open reception window.
0:10:13.627929	LOG	PUSH_ACK: 02 9a10 01
0:10:13.629433	LOG	GPS Time from gateway: 1385108454068
0:10:13.631440	LOG	PUSH_DATA: Protocol version = 02, Token = 9a10, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2908146318, 'time': '2023-11-27T08:20:35.068324Z', 'tmms': 1385108454068, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3343, 'rssi': -49, 'size': 30, 'data': 'QAAAAACKvwAHAwcDBwMHAwcDAjiLn05HAulJSBMD'}]}
0:10:13.632441	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 8a, FCnt: 00bf, FOpts: 07030703070307030703), FPort: 02, FRMPayload: 00000001020000, MIC: 49481303)
0:10:13.634439	LOG	Server <---------- DUT
0:10:13.635439	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:10:13.637439	LOG	Command Answer: 07030703070307030703
0:10:13.737271	LOG	MAC command communication completed
0:10:13.740307	LOG	End Test Step: Removing multiple channels 2
0:10:13.744308	LOG	Partial Verdict: PASS
0:10:13.747308	LOG	==========
0:10:13.752311	LOG	==========
0:10:13.754275	LOG	Start Test Step: Removing multiple channels 3
0:10:13.764786	LOG	Step 22-23
0:10:13.768820	LOG	Send MAC command block process starts
0:10:18.503409	LOG	First uplink received. Open reception window.
0:10:18.617295	LOG	PUSH_ACK: 02 2eef 01
0:10:18.619295	LOG	GPS Time from gateway: 1385108459052
0:10:18.620299	LOG	PUSH_DATA: Protocol version = 02, Token = 2eef, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2913130511, 'time': '2023-11-27T08:20:40.052516Z', 'tmms': 1385108459052, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3328, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAwAAC0l/Mz3gUAMIDMio='}]}
0:10:18.622300	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00c0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c203322a)
0:10:18.623299	LOG	Server <---------- DUT
0:10:18.625301	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0119, FOpts:), FPort: 00, FRMPayload: 070d00000050070e00000050070f00000050), MIC: a617d545)
0:10:18.627300	LOG	PULL_RESP: Protocol version = 02, Token = 4f32, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2915130511, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True,

		'size': 31, 'data': 'YAAAAAAAGQEARQsGzIIWP0WYRd0syJKIVeS+phfVRQ==''}}
0:10:18.628300	LOG	Server ----------> DUT
0:10:18.630810	LOG	TX_ACK: 02 4f32 05 0016c001ff1025bf
0:10:23.458816	LOG	GPS Time updated: 1385108464008
0:10:23.459782	LOG	PULL_DATA: 02 0547 02 0016c001ff1025bf
0:10:23.461783	LOG	PULL_ACK: 02 0547 04
0:10:23.515742	LOG	First uplink received. Open reception window.
0:10:23.618427	LOG	PUSH_ACK: 02 1ee6 01
0:10:23.620395	LOG	GPS Time from gateway: 1385108464057
0:10:23.621395	LOG	PUSH_DATA: Protocol version = 02, Token = 1ee6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2918135551, 'time': '2023-11-27T08:20:45.057555Z', 'tmms': 1385108464057, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3328, 'rssi': -49, 'size': 26, 'data': 'QAAAAACGwQAHAwcDBwMCOSJup9eo97DUp0s='}]}
0:10:23.623399	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 86, FCnt: 00c1, FOpts: 070307030703), FPort: 02, FRMPayload: 00000001020000, MIC: b0d4a74b)
0:10:23.624399	LOG	Server <---------- DUT
0:10:23.626400	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:10:23.627400	LOG	Command Answer: 070307030703
0:10:23.692319	LOG	MAC command communication completed
0:10:23.695323	LOG	End Test Step: Removing multiple channels 3
0:10:23.700359	LOG	Partial Verdict: PASS
0:10:23.704360	LOG	==========
0:10:23.708357	LOG	==========
0:10:23.711363	LOG	Start Test Step: Receive in default frequencies after remove
0:10:23.723700	LOG	Step 24
0:10:23.726827	LOG	Receive frame on specific channels process starts
0:10:23.738793	LOG	Attempt 1/15
0:10:28.510937	LOG	First uplink received. Open reception window.
0:10:28.621765	LOG	PUSH_ACK: 02 d3ba 01
0:10:28.623733	LOG	GPS Time from gateway: 1385108469052
0:10:28.624767	LOG	PUSH_DATA: Protocol version = 02, Token = d3ba, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2923130020, 'time': '2023-11-27T08:20:50.052024Z', 'tmms': 1385108469052, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3331, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAwgACZ1L8gGq83CVXDnY='}]}
0:10:28.625770	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00c2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 25570e76)
0:10:28.627769	LOG	Server <---------- DUT
0:10:28.628734	LOG	Attempt 2/15
0:10:33.506793	LOG	#**********CURRENT BEACON SENT**********#
0:10:33.508780	LOG	PULL_RESP: Protocol version = 02, Token = c890, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385108480000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAFI9Ssu4AAAAAAAAAAA='}}
0:10:33.509748	LOG	Server ----------> DUT
0:10:33.511780	LOG	#**********#
0:10:33.520748	LOG	#**********NEXT BEACON QUEUED**********#
0:10:33.522786	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385108608000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu':

		'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAFI9SijMAAAAAAAAAAAA='}}
0:10:33.523788	LOG	Server --------------------> DUT
0:10:33.525753	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 80148f52, CRC1: 8a33, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385108608000
0:10:33.527788	LOG	#**#
0:10:33.528789	LOG	Next BEACON scheduled at GPS time (ms): 1385108736000
0:10:33.529785	LOG	First uplink received. Open reception window.
0:10:33.531786	LOG	TX_ACK: 02 c890 05 0016c001ff1025bf
0:10:33.532786	LOG	PULL_DATA: 02 68b1 02 0016c001ff1025bf
0:10:33.534785	LOG	PULL_ACK: 02 68b1 04
0:10:33.631287	LOG	PUSH_ACK: 02 11cf 01
0:10:33.633285	LOG	GPS Time from gateway: 1385108474052
0:10:33.634286	LOG	PUSH_DATA: Protocol version = 02, Token = 11cf, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2928129799, 'time': '2023-11-27T08:20:55.051801Z', 'tmms': 1385108474052, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3324, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAwwACIOiP1bIYxcAN3No='}]}
0:10:33.636325	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00c3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c00ddcda)
0:10:33.638285	LOG	Server <-------------------- DUT
0:10:33.639319	LOG	Attempt 3/15
0:10:38.502680	LOG	First uplink received. Open reception window.
0:10:38.604941	LOG	PUSH_ACK: 02 7c8b 01
0:10:38.606854	LOG	GPS Time from gateway: 1385108479051
0:10:38.607856	LOG	PUSH_DATA: Protocol version = 02, Token = 7c8b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2933129567, 'time': '2023-11-27T08:21:00.051568Z', 'tmms': 1385108479051, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3328, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAxAACXxcaCTKmzfBWOUQ='}]}
0:10:38.608856	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00c4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f0563944)
0:10:38.610855	LOG	Server <-------------------- DUT
0:10:38.611855	LOG	Attempt 4/15
0:10:43.511295	LOG	First uplink received. Open reception window.
0:10:43.609328	LOG	PULL_DATA: 02 5af9 02 0016c001ff1025bf
0:10:43.611240	LOG	PULL_ACK: 02 5af9 04
0:10:43.612271	LOG	PUSH_ACK: 02 1a1b 01
0:10:43.614240	LOG	GPS Time from gateway: 1385108484051
0:10:43.615274	LOG	PUSH_DATA: Protocol version = 02, Token = 1a1b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2938129319, 'time': '2023-11-27T08:21:05.051318Z', 'tmms': 1385108484051, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3324, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAxQACsKMcedkeGNwB4Z0='}]}
0:10:43.617276	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00c5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: dc01e19d)
0:10:43.618240	LOG	Server <-------------------- DUT
0:10:43.620780	LOG	Attempt 5/15
0:10:48.504606	LOG	First uplink received. Open reception window.
0:10:48.618008	LOG	PUSH_ACK: 02 85ac 01
0:10:48.619974	LOG	GPS Time from gateway: 1385108489051
0:10:48.620973	LOG	PUSH_DATA: Protocol version = 02, Token = 85ac, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2943129049, 'time': '2023-11-27T08:21:10.051047Z', 'tmms': 1385108489051, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3328, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAxgAC3AA0vuR1EGqYNKQ='}]}
0:10:48.622979	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00c6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6a9834a4)
0:10:48.623979	LOG	Server <---------- DUT
0:10:48.625979	LOG	Attempt 6/15
0:10:53.503193	LOG	First uplink received. Open reception window.
0:10:53.615147	LOG	PUSH_ACK: 02 1a9a 01
0:10:53.617086	LOG	GPS Time from gateway: 1385108494051
0:10:53.618087	LOG	PUSH_DATA: Protocol version = 02, Token = 1a9a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2948128799, 'time': '2023-11-27T08:21:15.050799Z', 'tmms': 1385108494051, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3316, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAxwAC+rl6kN+NswrndWA='}]}
0:10:53.620087	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00c7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0ae77560)
0:10:53.621118	LOG	Server <---------- DUT
0:10:53.623120	LOG	Attempt 7/15
0:10:53.689893	LOG	GPS Time updated: 1385108494237
0:10:53.690986	LOG	PULL_DATA: 02 0e3d 02 0016c001ff1025bf
0:10:53.691993	LOG	PULL_ACK: 02 0e3d 04
0:10:58.507114	LOG	First uplink received. Open reception window.
0:10:58.618979	LOG	PUSH_ACK: 02 64a8 01
0:10:58.620945	LOG	GPS Time from gateway: 1385108499050
0:10:58.621947	LOG	PUSH_DATA: Protocol version = 02, Token = 64a8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2953128538, 'time': '2023-11-27T08:21:20.050537Z', 'tmms': 1385108499050, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3316, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAyAACzwFjkDS6fLNnFQI='}]}
0:10:58.622946	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00c8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b3671502)
0:10:58.624950	LOG	Server <---------- DUT
0:10:58.625981	LOG	Attempt 8/15
0:11:03.502032	LOG	First uplink received. Open reception window.
0:11:03.608537	LOG	PUSH_ACK: 02 4d00 01
0:11:03.610539	LOG	GPS Time from gateway: 1385108504050
0:11:03.611539	LOG	PUSH_DATA: Protocol version = 02, Token = 4d00, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2958128282, 'time': '2023-11-27T08:21:25.050280Z', 'tmms': 1385108504050, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3316, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAyQACRold7gNr/pa+yH4='}]}
0:11:03.613506	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00c9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 96bec87e)
0:11:03.614537	LOG	Server <---------- DUT
0:11:03.616507	LOG	Attempt 9/15
0:11:03.769808	LOG	GPS Time updated: 1385108504317
0:11:03.770839	LOG	PULL_DATA: 02 267b 02 0016c001ff1025bf
0:11:03.772889	LOG	PULL_ACK: 02 267b 04
0:11:08.509703	LOG	First uplink received. Open reception window.
0:11:08.615893	LOG	PUSH_ACK: 02 ef2b 01
0:11:08.617833	LOG	GPS Time from gateway: 1385108509050
0:11:08.618832	LOG	PUSH_DATA: Protocol version = 02, Token = ef2b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2963128020, 'time': '2023-11-27T08:21:30.050016Z', 'tmms': 1385108509050, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3309, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAygAC7D7W3dBpB4S6z5M='}]}

0:11:08.619833	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00ca, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 84bacf93)
0:11:08.621832	LOG	Server <---------- DUT
0:11:08.622832	LOG	Attempt 10/15
0:11:13.508740	LOG	First uplink received. Open reception window.
0:11:13.621277	LOG	PUSH_ACK: 02 c30d 01
0:11:13.623279	LOG	GPS Time from gateway: 1385108514050
0:11:13.624313	LOG	PUSH_DATA: Protocol version = 02, Token = c30d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2968127762, 'time': '2023-11-27T08:21:35.049757Z', 'tmms': 1385108514050, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3316, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAywACmhL5uKmQu0p72vc='}]}
0:11:13.625314	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00cb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4a7bdaf7)
0:11:13.627312	LOG	Server <---------- DUT
0:11:13.628278	LOG	Attempt 11/15
0:11:13.869490	LOG	GPS Time updated: 1385108514411
0:11:13.871526	LOG	PULL_DATA: 02 1196 02 0016c001ff1025bf
0:11:13.873493	LOG	PULL_ACK: 02 1196 04
0:11:18.506389	LOG	First uplink received. Open reception window.
0:11:18.622883	LOG	PUSH_ACK: 02 6630 01
0:11:18.624852	LOG	GPS Time from gateway: 1385108519049
0:11:18.625850	LOG	PUSH_DATA: Protocol version = 02, Token = 6630, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2973127535, 'time': '2023-11-27T08:21:40.049530Z', 'tmms': 1385108519049, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3316, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAzAAC7upD2L//F7/J00U='}]}
0:11:18.626855	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00cc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: bfc9d345)
0:11:18.628855	LOG	Server <---------- DUT
0:11:18.629855	LOG	Attempt 12/15
0:11:23.501747	LOG	First uplink received. Open reception window.
0:11:23.613870	LOG	PUSH_ACK: 02 d4e2 01
0:11:23.615871	LOG	GPS Time from gateway: 1385108524049
0:11:23.616870	LOG	PUSH_DATA: Protocol version = 02, Token = d4e2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2978127303, 'time': '2023-11-27T08:21:45.049296Z', 'tmms': 1385108524049, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3324, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAzQAC0hcuaILjLwPells='}]}
0:11:23.618839	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00cd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 03de965b)
0:11:23.619870	LOG	Server <---------- DUT
0:11:23.620838	LOG	Attempt 13/15
0:11:23.950125	LOG	GPS Time updated: 1385108524499
0:11:23.952093	LOG	PULL_DATA: 02 bbee 02 0016c001ff1025bf
0:11:23.953125	LOG	PULL_ACK: 02 bbee 04
0:11:28.501177	LOG	First uplink received. Open reception window.
0:11:28.616755	LOG	PUSH_ACK: 02 fd15 01
0:11:28.618757	LOG	GPS Time from gateway: 1385108529049
0:11:28.619758	LOG	PUSH_DATA: Protocol version = 02, Token = fd15, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2983127072, 'time': '2023-11-27T08:21:50.049064Z', 'tmms': 1385108529049, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3316, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAzgAC38AS1xGFTAyXZbY='}]}
0:11:28.621757	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00ce, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0c9765b6)

0:11:28.622757	LOG	Server <---------- DUT
0:11:28.624758	LOG	Attempt 14/15
0:11:33.502879	LOG	First uplink received. Open reception window.
0:11:33.603014	LOG	PUSH_ACK: 02 e7dc 01
0:11:33.605015	LOG	GPS Time from gateway: 1385108534049
0:11:33.606016	LOG	PUSH_DATA: Protocol version = 02, Token = e7dc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2988126823, 'time': '2023-11-27T08:21:55.048815Z', 'tmms': 1385108534049, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3320, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAzwACJRsbRKq6aKsRnEo='}]}
0:11:33.608017	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00cf, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ab119c4a)
0:11:33.610017	LOG	Server <---------- DUT
0:11:33.611016	LOG	Attempt 15/15
0:11:34.029996	LOG	GPS Time updated: 1385108534576
0:11:34.032507	LOG	PULL_DATA: 02 5a6c 02 0016c001ff1025bf
0:11:34.033507	LOG	PULL_ACK: 02 5a6c 04
0:11:38.504286	LOG	First uplink received. Open reception window.
0:11:38.612230	LOG	PUSH_ACK: 02 8874 01
0:11:38.614142	LOG	GPS Time from gateway: 1385108539048
0:11:38.615142	LOG	PUSH_DATA: Protocol version = 02, Token = 8874, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2993126568, 'time': '2023-11-27T08:22:00.048559Z', 'tmms': 1385108539048, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3324, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA0AACUnjGMx0zod/9cn4='}]}
0:11:38.616177	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00d0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: dffd727e)
0:11:38.618141	LOG	Server <---------- DUT
0:11:38.624724	LOG	Receive frame on specific channels process tested successfully
0:11:38.627750	LOG	End Test Step: Receive in default frequencies after remove
0:11:38.630749	LOG	Partial Verdict: PASS
0:11:38.635290	LOG	==========
0:11:38.640801	LOG	==========
0:11:38.643815	LOG	Start Test Step: Invalid command processing - Frequency
0:11:38.654872	LOG	Send NewChannelReq process starts
0:11:43.507509	LOG	First uplink received. Open reception window.
0:11:43.611501	LOG	PUSH_ACK: 02 0796 01
0:11:43.613382	LOG	GPS Time from gateway: 1385108544048
0:11:43.614413	LOG	PUSH_DATA: Protocol version = 02, Token = 0796, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2998126307, 'time': '2023-11-27T08:22:05.048297Z', 'tmms': 1385108544048, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3320, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA0QACIxTCx2rhJgJcdQE='}]}
0:11:43.616381	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00d1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 025c7501)
0:11:43.617429	LOG	Server <---------- DUT
0:11:43.619380	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 011a, FOpts:), FPort: 00, FRMPayload: 070398e68a50), MIC: fda33e71)
0:11:43.621929	LOG	PULL_RESP: Protocol version = 02, Token = b981, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3000126307, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YAAAAAAAGgEA1+TBpUHj/aM+cQ=='}}
0:11:43.622967	LOG	Server ----------> DUT
0:11:43.624967	LOG	TX_ACK: 02 b981 05 0016c001ff1025bf
0:11:44.040338	LOG	GPS Time updated: 1385108544581
0:11:44.041841	LOG	PULL_DATA: 02 b16b 02 0016c001ff1025bf

0:11:44.043847	LOG	PULL_ACK: 02 b16b 04
0:11:48.502390	LOG	First uplink received. Open reception window.
0:11:48.615454	LOG	PUSH_ACK: 02 6b65 01
0:11:48.617319	LOG	GPS Time from gateway: 1385108549048
0:11:48.619322	LOG	PUSH_DATA: Protocol version = 02, Token = 6b65, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3003126153, 'time': '2023-11-27T08:22:10.048140Z', 'tmms': 1385108549048, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3328, 'rssi': -49, 'size': 22, 'data': 'QAAAAACC0gAHAgJ/eLr2QkaqZfZeCA=='}]}
0:11:48.621321	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 00d2, FOpts: 0702), FPort: 02, FRMPayload: 00000001020000, MIC: 65f65e08)
0:11:48.622318	LOG	Server <---------- DUT
0:11:48.624320	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:11:48.625824	LOG	Command Answer: 0702
0:11:48.633339	LOG	End Test Step: Invalid command processing - Frequency
0:11:48.637343	LOG	Partial Verdict: PASS
0:11:48.642344	LOG	==========
0:11:48.646344	LOG	==========
0:11:48.648733	LOG	Start Test Step: Invalid command processing - Data Rate
0:11:48.657883	LOG	Send NewChannelReq process starts
0:11:53.507618	LOG	First uplink received. Open reception window.
0:11:53.614613	LOG	PUSH_ACK: 02 795a 01
0:11:53.616491	LOG	GPS Time from gateway: 1385108554048
0:11:53.617490	LOG	PUSH_DATA: Protocol version = 02, Token = 795a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3008125780, 'time': '2023-11-27T08:22:15.047766Z', 'tmms': 1385108554048, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3328, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA0wACHrSv2DrnuOCjVN4='}]}
0:11:53.619455	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00d3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e0a354de)
0:11:53.620455	LOG	Server <---------- DUT
0:11:53.622454	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 011b, FOpts:), FPort: 00, FRMPayload: 0703287684cd), MIC: 876ac922)
0:11:53.623455	LOG	PULL_RESP: Protocol version = 02, Token = bfcb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3010125780, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YAAAAAAAGwEAjAEMWKxjh2rJIg=='}}
0:11:53.625964	LOG	Server ----------> DUT
0:11:53.628964	LOG	TX_ACK: 02 bfcb 05 0016c001ff1025bf
0:11:54.251086	LOG	GPS Time updated: 1385108554793
0:11:54.252117	LOG	PULL_DATA: 02 903c 02 0016c001ff1025bf
0:11:54.253124	LOG	PULL_ACK: 02 903c 04
0:11:58.502665	LOG	First uplink received. Open reception window.
0:11:58.603132	LOG	PUSH_ACK: 02 68a1 01
0:11:58.606100	LOG	GPS Time from gateway: 1385108559047
0:11:58.607134	LOG	PUSH_DATA: Protocol version = 02, Token = 68a1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3013125624, 'time': '2023-11-27T08:22:20.047611Z', 'tmms': 1385108559047, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3324, 'rssi': -49, 'size': 22, 'data': 'QAAAAACC1AAHAQIOlzF0HOXMQGJscw=='}]}
0:11:58.608131	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 00d4, FOpts: 0701), FPort: 02, FRMPayload: 00000001020000, MIC: 40626c73)
0:11:58.610131	LOG	Server <---------- DUT
0:11:58.612102	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field

0:11:58.613099	LOG	Command Answer: 0701
0:11:58.620103	LOG	End Test Step: Invalid command processing - Data Rate
0:11:58.624135	LOG	Partial Verdict: PASS
0:11:58.627141	LOG	==========
0:11:58.631718	LOG	==========
0:11:58.634303	LOG	Start Test Step: Removal of default channels - not allowed
0:11:58.644860	LOG	Send MAC command block process starts
0:12:03.499840	LOG	First uplink received. Open reception window.
0:12:03.605448	LOG	PUSH_ACK: 02 d330 01
0:12:03.607419	LOG	GPS Time from gateway: 1385108564047
0:12:03.608414	LOG	PUSH_DATA: Protocol version = 02, Token = d330, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3018125274, 'time': '2023-11-27T08:22:25.047261Z', 'tmms': 1385108564047, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3316, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA1QACk+e+68bHeoM73pA='}]}
0:12:03.610416	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00d5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 833bde90)
0:12:03.611415	LOG	Server <---------- DUT
0:12:03.613415	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 011c, FOpts:), FPort: 00, FRMPayload: 07000000005007010000005007020000050), MIC: eabc115a)
0:12:03.615920	LOG	PULL_RESP: Protocol version = 02, Token = 7b55, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3020125274, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 31, 'data': 'YAAAAAAAHAEAQlW235Tjyj7bAW05kiGsRJZe6rwRWg=='}}
0:12:03.616924	LOG	Server ----------> DUT
0:12:03.619932	LOG	TX_ACK: 02 7b55 05 0016c001ff1025bf
0:12:04.451227	LOG	GPS Time updated: 1385108564999
0:12:04.452227	LOG	PULL_DATA: 02 c439 02 0016c001ff1025bf
0:12:04.454229	LOG	PULL_ACK: 02 c439 04
0:12:08.511502	LOG	First uplink received. Open reception window.
0:12:08.614609	LOG	PUSH_ACK: 02 6098 01
0:12:08.616577	LOG	GPS Time from gateway: 1385108569052
0:12:08.617580	LOG	PUSH_DATA: Protocol version = 02, Token = 6098, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3023130306, 'time': '2023-11-27T08:22:30.052292Z', 'tmms': 1385108569052, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3324, 'rssi': -49, 'size': 26, 'data': 'QAAAAACG1gAHAAcABwACxf0kZPRMkX9bwQc='}]}
0:12:08.619618	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 86, FCnt: 00d6, FOpts: 070007000700), FPort: 02, FRMPayload: 00000001020000, MIC: 7f5bc107)
0:12:08.620610	LOG	Server <---------- DUT
0:12:08.622625	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:12:08.623610	LOG	Command Answer: 070007000700
0:12:08.689102	LOG	MAC command communication completed
0:12:08.693069	LOG	Receive frame on specific channels process starts
0:12:08.703617	LOG	Attempt 1/15
0:12:13.508576	LOG	First uplink received. Open reception window.
0:12:13.611398	LOG	PUSH_ACK: 02 1b1b 01
0:12:13.613298	LOG	GPS Time from gateway: 1385108574047
0:12:13.614298	LOG	PUSH_DATA: Protocol version = 02, Token = 1b1b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3028124793, 'time': '2023-11-27T08:22:35.046777Z', 'tmms': 1385108574047, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3316, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA1wACcnBdfTrF80s6JNY='}]}
0:12:13.616331	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00d7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4b3a24d6)
0:12:13.617330	LOG	Server <---------- DUT
0:12:13.619299	LOG	Attempt 2/15
0:12:14.531455	LOG	GPS Time updated: 1385108575070
0:12:14.532467	LOG	PULL_DATA: 02 8718 02 0016c001ff1025bf
0:12:14.534463	LOG	PULL_ACK: 02 8718 04
0:12:18.507159	LOG	First uplink received. Open reception window.
0:12:18.621806	LOG	PUSH_ACK: 02 f48b 01
0:12:18.623807	LOG	GPS Time from gateway: 1385108579046
0:12:18.624808	LOG	PUSH_DATA: Protocol version = 02, Token = f48b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3033124530, 'time': '2023-11-27T08:22:40.046513Z', 'tmms': 1385108579046, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3313, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA2AACMN8/QLlCSbaWlt0='}]}
0:12:18.625807	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00d8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b69696dd)
0:12:18.627811	LOG	Server <---------- DUT
0:12:18.628806	LOG	Attempt 3/15
0:12:23.503662	LOG	First uplink received. Open reception window.
0:12:23.612729	LOG	PUSH_ACK: 02 db7d 01
0:12:23.614634	LOG	GPS Time from gateway: 1385108584046
0:12:23.615667	LOG	PUSH_DATA: Protocol version = 02, Token = db7d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3038124275, 'time': '2023-11-27T08:22:45.046257Z', 'tmms': 1385108584046, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3316, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA2QACWZXXwi0DCURKicU='}]}
0:12:23.617641	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00d9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 444a89c5)
0:12:23.618667	LOG	Server <---------- DUT
0:12:23.620634	LOG	Attempt 4/15
0:12:24.611639	LOG	GPS Time updated: 1385108585154
0:12:24.612638	LOG	PULL_DATA: 02 ffe2 02 0016c001ff1025bf
0:12:24.614642	LOG	PULL_ACK: 02 ffe2 04
0:12:28.499162	LOG	First uplink received. Open reception window.
0:12:28.603790	LOG	PUSH_ACK: 02 13b0 01
0:12:28.605756	LOG	GPS Time from gateway: 1385108589046
0:12:28.606756	LOG	PUSH_DATA: Protocol version = 02, Token = 13b0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3043124014, 'time': '2023-11-27T08:22:50.045995Z', 'tmms': 1385108589046, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3313, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA2gACvuCihAhshkzYu5g='}]}
0:12:28.608759	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00da, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4cd8bb98)
0:12:28.610756	LOG	Server <---------- DUT
0:12:28.613721	LOG	Attempt 5/15
0:12:33.506704	LOG	First uplink received. Open reception window.
0:12:33.608130	LOG	PUSH_ACK: 02 4d52 01
0:12:33.610009	LOG	GPS Time from gateway: 1385108594045
0:12:33.611009	LOG	PUSH_DATA: Protocol version = 02, Token = 4d52, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3048123747, 'time': '2023-11-27T08:22:55.045727Z', 'tmms': 1385108594045, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3313, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA2wACWwqhRbKI7ERizPA='}]}

0:12:33.612008	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00db, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4462ccf0)
0:12:33.614008	LOG	Server <---------- DUT
0:12:33.615008	LOG	Attempt 6/15
0:12:34.692133	LOG	GPS Time updated: 1385108595231
0:12:34.693136	LOG	PULL_DATA: 02 aeb9 02 0016c001ff1025bf
0:12:34.695151	LOG	PULL_ACK: 02 aeb9 04
0:12:38.502785	LOG	#**********CURRENT BEACON SENT**********#
0:12:38.504779	LOG	PULL_RESP: Protocol version = 02, Token = 53ca, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385108608000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAFI9SijMAAAAAAAAAAA='}}
0:12:38.505753	LOG	Server ----------> DUT
0:12:38.507753	LOG	#**********#
0:12:38.518265	LOG	#**********NEXT BEACON QUEUED**********#
0:12:38.519270	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385108736000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAFY9SgtkAAAAAAAAAAA='}}
0:12:38.521299	LOG	Server ----------> DUT
0:12:38.522297	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 00158f52, CRC1: 82d9, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385108736000
0:12:38.523297	LOG	#**********#
0:12:38.525287	LOG	Next BEACON scheduled at GPS time (ms): 1385108864000
0:12:38.526292	LOG	First uplink received. Open reception window.
0:12:38.528292	LOG	TX_ACK: 02 53ca 05 0016c001ff1025bf
0:12:38.633271	LOG	PUSH_ACK: 02 b727 01
0:12:38.635370	LOG	GPS Time from gateway: 1385108599045
0:12:38.636899	LOG	PUSH_DATA: Protocol version = 02, Token = b727, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3053123515, 'time': '2023-11-27T08:23:00.045495Z', 'tmms': 1385108599045, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3316, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA3AACv+mdrzixg+sJBxI='}]}
0:12:38.638896	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00dc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: eb090712)
0:12:38.640904	LOG	Server <---------- DUT
0:12:38.642896	LOG	Attempt 7/15
0:12:43.500945	LOG	First uplink received. Open reception window.
0:12:43.608526	LOG	PUSH_ACK: 02 1347 01
0:12:43.610431	LOG	GPS Time from gateway: 1385108604045
0:12:43.611430	LOG	PUSH_DATA: Protocol version = 02, Token = 1347, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3058123259, 'time': '2023-11-27T08:23:05.045236Z', 'tmms': 1385108604045, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3316, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA3QAC5gl+cDFBAHErEVw='}]}
0:12:43.612430	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00dd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 712b115c)
0:12:43.614430	LOG	Server <---------- DUT
0:12:43.616430	LOG	Attempt 8/15
0:12:44.802045	LOG	GPS Time updated: 1385108605348
0:12:44.804050	LOG	PULL_DATA: 02 647b 02 0016c001ff1025bf

0:12:44.805051	LOG	PULL_ACK: 02 647b 04
0:12:48.507285	LOG	First uplink received. Open reception window.
0:12:48.621855	LOG	PUSH_ACK: 02 abad 01
0:12:48.623364	LOG	GPS Time from gateway: 1385108609045
0:12:48.626835	LOG	PUSH_DATA: Protocol version = 02, Token = abad, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3063123004, 'time': '2023-11-27T08:23:10.044980Z', 'tmms': 1385108609045, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3320, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA3gACmWtOy39y4ztBjTY='}]}
0:12:48.628405	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00de, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3b418d36)
0:12:48.630533	LOG	Server <---------- DUT
0:12:48.632840	LOG	Attempt 9/15
0:12:53.498761	LOG	First uplink received. Open reception window.
0:12:53.599639	LOG	PUSH_ACK: 02 700b 01
0:12:53.601640	LOG	GPS Time from gateway: 1385108614045
0:12:53.602640	LOG	PUSH_DATA: Protocol version = 02, Token = 700b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3068122789, 'time': '2023-11-27T08:23:15.044767Z', 'tmms': 1385108614045, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3316, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA3wACgkngKJ83ku7Tae0='}]}
0:12:53.604649	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00df, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: eed369ed)
0:12:53.605648	LOG	Server <---------- DUT
0:12:53.607648	LOG	Attempt 10/15
0:12:54.892467	LOG	GPS Time updated: 1385108615440
0:12:54.894435	LOG	PULL_DATA: 02 468b 02 0016c001ff1025bf
0:12:54.895435	LOG	PULL_ACK: 02 468b 04
0:12:58.503638	LOG	First uplink received. Open reception window.
0:12:58.610774	LOG	PUSH_ACK: 02 27cd 01
0:12:58.612738	LOG	GPS Time from gateway: 1385108619044
0:12:58.613770	LOG	PUSH_DATA: Protocol version = 02, Token = 27cd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3073122522, 'time': '2023-11-27T08:23:20.044499Z', 'tmms': 1385108619044, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3313, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA4AACNlzrnhpjodt0Doc='}]}
0:12:58.615739	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00e0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: db740e87)
0:12:58.616737	LOG	Server <---------- DUT
0:12:58.617737	LOG	Attempt 11/15
0:13:03.503920	LOG	First uplink received. Open reception window.
0:13:03.612383	LOG	PUSH_ACK: 02 a358 01
0:13:03.614282	LOG	GPS Time from gateway: 1385108624044
0:13:03.615314	LOG	PUSH_DATA: Protocol version = 02, Token = a358, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3078122297, 'time': '2023-11-27T08:23:25.044273Z', 'tmms': 1385108624044, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3316, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA4QAC9j0ILVFIW7ms0LI='}]}
0:13:03.617295	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00e1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b9acd0b2)
0:13:03.618320	LOG	Server <---------- DUT
0:13:03.620283	LOG	Attempt 12/15
0:13:04.972268	LOG	GPS Time updated: 1385108625513
0:13:04.974268	LOG	PULL_DATA: 02 3b97 02 0016c001ff1025bf
0:13:04.976269	LOG	PULL_ACK: 02 3b97 04
0:13:08.498556	LOG	First uplink received. Open reception window.

0:13:08.601166	LOG	PUSH_ACK: 02 e316 01
0:13:08.602674	LOG	GPS Time from gateway: 1385108629044
0:13:08.604178	LOG	PUSH_DATA: Protocol version = 02, Token = e316, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3083122043, 'time': '2023-11-27T08:23:30.044017Z', 'tmms': 1385108629044, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3316, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA4gACXUz/F88xlSUk+UQ='}]}
0:13:08.605184	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00e2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2524f944)
0:13:08.607195	LOG	Server <---------- DUT
0:13:08.608183	LOG	Attempt 13/15
0:13:13.508244	LOG	First uplink received. Open reception window.
0:13:13.619707	LOG	PUSH_ACK: 02 14e2 01
0:13:13.621710	LOG	GPS Time from gateway: 1385108634043
0:13:13.622712	LOG	PUSH_DATA: Protocol version = 02, Token = 14e2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3088121773, 'time': '2023-11-27T08:23:35.043746Z', 'tmms': 1385108634043, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3316, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA4wACo2JKpx6yu06GWRI='}]}
0:13:13.624713	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00e3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4e865912)
0:13:13.625750	LOG	Server <---------- DUT
0:13:13.627744	LOG	Attempt 14/15
0:13:15.052750	LOG	GPS Time updated: 1385108635587
0:13:15.054718	LOG	PULL_DATA: 02 f828 02 0016c001ff1025bf
0:13:15.055751	LOG	PULL_ACK: 02 f828 04
0:13:18.501055	LOG	First uplink received. Open reception window.
0:13:18.604261	LOG	PUSH_ACK: 02 7a40 01
0:13:18.606266	LOG	GPS Time from gateway: 1385108639043
0:13:18.607266	LOG	PUSH_DATA: Protocol version = 02, Token = 7a40, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3093121553, 'time': '2023-11-27T08:23:40.043525Z', 'tmms': 1385108639043, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3316, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA5AAClg3BMfsZeNv4lZ0='}]}
0:13:18.609266	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00e4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: dbf8959d)
0:13:18.610266	LOG	Server <---------- DUT
0:13:18.611265	LOG	Attempt 15/15
0:13:23.507789	LOG	First uplink received. Open reception window.
0:13:23.609893	LOG	PUSH_ACK: 02 ff32 01
0:13:23.611780	LOG	GPS Time from gateway: 1385108644043
0:13:23.612749	LOG	PUSH_DATA: Protocol version = 02, Token = ff32, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3098121295, 'time': '2023-11-27T08:23:45.043266Z', 'tmms': 1385108644043, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3316, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA5QAC3KPiZNEOmh/uOeE='}]}
0:13:23.614748	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00e5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1fee39e1)
0:13:23.615747	LOG	Server <---------- DUT
0:13:23.622292	LOG	Receive frame on specific channels process tested successfully
0:13:23.625256	LOG	End Test Step: Removal of default channels - not allowed
0:13:23.630291	LOG	Partial Verdict: PASS
0:13:23.633293	LOG	==========
0:13:23.636833	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_006
0:13:23.638831	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_007	
Verdict	PASS	
Date	2023-11-27 09:23:47	
Description		
Technology Version	LCTT v3.11.0_R1 | GUI v2.6.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.3	
Test Specs Version	USv1.5.1/EUv1.6.2/KRv1.2.1/ASv1.1.1/INv1.1.1/ALL_Av1.6/ALL_Cv1.0/ ALL_Bv1.0/SCHCv1.1/ALPv1.0	
Project	ref-stack	
Project Creation Date	2023-10-04 09:10:20	
Sample Parameters		
	Conformance	TRUE

Time Stamp (ms)	Event	Summary
0:00:00.009035	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_007
0:00:00.067504	LOG	==========
0:00:00.070507	LOG	Start Test Step: Device activation
0:00:00.152949	LOG	Activation process has finished successfully
0:00:00.154917	LOG	Data stored in the DUT after Activation:
0:00:00.157950	LOG	DevAddr: 00000000
0:00:00.160987	LOG	AppEUI: 0000000000000000
0:00:00.163990	LOG	NwkSKey: 6bfb58c6a233389e6e66450a9e520a70
0:00:00.166995	LOG	AppSKey: ded4e508ab9cede444c3765e0533fcac
0:00:00.169989	LOG	End Test Step: Device activation
0:00:00.173989	LOG	Partial Verdict: PASS
0:00:00.176990	LOG	==========
0:00:00.182534	LOG	==========
0:00:00.185571	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.194569	LOG	DUT Pre-condition activation process starts
0:00:00.197608	LOG	DUT Pre-condition activation completed
0:00:00.200574	LOG	End Test Step: DUT Pre-condition settings
0:00:00.204572	LOG	Partial Verdict: PASS
0:00:00.208574	LOG	==========
0:00:00.213085	LOG	==========
0:00:00.215087	LOG	Start Test Step: DlChannel Request
0:00:00.226085	LOG	Step 01-02
0:00:00.232089	LOG	Send DlChannelReq process starts
0:00:02.202000	LOG	PUSH_DATA received while waiting first PULL_DATA
0:00:07.203067	LOG	PUSH_DATA received while waiting first PULL_DATA
0:00:08.912743	LOG	GPS Time updated: 1385108650752
0:00:08.913743	LOG	PULL_DATA: 02 0239 02 0016c001ff1025bf
0:00:08.915742	LOG	PULL_ACK: 02 0239 04
0:00:12.196037	LOG	First uplink received. Open reception window.
0:00:12.310562	LOG	PUSH_ACK: 02 1072 01
0:00:12.312564	LOG	GPS Time from gateway: 1385108659042
0:00:12.313562	LOG	PUSH_DATA: Protocol version = 02, Token = 1072, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3113120514, 'time': '2023-11-27T08:24:00.042483Z', 'tmms': 1385108659042, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3309, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA6AACMrAPSYfuoz1ezLw='}]}
0:00:12.315564	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00e8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3d5eccbc)
0:00:12.316564	LOG	Server <---------- DUT
0:00:12.319566	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 011d, FOpts:), FPort: 00, FRMPayload: 0a00f87d84), MIC: 2d128fdf)

0:00:12.321105	LOG	PULL_RESP: Protocol version = 02, Token = 38c1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3114120514, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAHQEAnrD4ZHktEo/f'}}
0:00:12.322144	LOG	Server ----------> DUT
0:00:12.326203	LOG	TX_ACK: 02 38c1 05 0016c001ff1025bf
0:00:17.196549	LOG	First uplink received. Open reception window.
0:00:17.311594	LOG	PUSH_ACK: 02 4556 01
0:00:17.313504	LOG	GPS Time from gateway: 1385108664042
0:00:17.314504	LOG	PUSH_DATA: Protocol version = 02, Token = 4556, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3118120379, 'time': '2023-11-27T08:24:05.042346Z', 'tmms': 1385108664042, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3316, 'rssi': -49, 'size': 22, 'data': 'QAAAAACC6QAKAwIAzQ5YCjFbDOUBvg=='}]}
0:00:17.316506	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 00e9, FOpts: 0a03), FPort: 02, FRMPayload: 00000001020000, MIC: 0ce501be)
0:00:17.317504	LOG	Server <---------- DUT
0:00:17.319500	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:17.320504	LOG	Command Answer: 0a03
0:00:17.326077	LOG	MAC command communication completed
0:00:17.334044	LOG	End Test Step: DlChannel Request
0:00:17.339583	LOG	Partial Verdict: PASS
0:00:17.343589	LOG	==========
0:00:17.348622	LOG	==========
0:00:17.350589	LOG	Start Test Step: Test reply retransmission
0:00:17.360598	LOG	Step 02-03
0:00:17.364162	LOG	Expect a MAC answer retransmission
0:00:19.043068	LOG	GPS Time updated: 1385108665888
0:00:19.044067	LOG	PULL_DATA: 02 fd6c 02 0016c001ff1025bf
0:00:19.045972	LOG	PULL_ACK: 02 fd6c 04
0:00:22.204537	LOG	First uplink received. Open reception window.
0:00:22.318838	LOG	PUSH_ACK: 02 c45e 01
0:00:22.320808	LOG	GPS Time from gateway: 1385108669042
0:00:22.322808	LOG	PUSH_DATA: Protocol version = 02, Token = c45e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3123120163, 'time': '2023-11-27T08:24:10.042128Z', 'tmms': 1385108669042, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3316, 'rssi': -49, 'size': 22, 'data': 'QAAAAACC6gAKAwIQpMrTTsKSZ4RU2g=='}]}
0:00:22.323842	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 00ea, FOpts: 0a03), FPort: 02, FRMPayload: 00000001020000, MIC: 678454da)
0:00:22.324847	LOG	Server <---------- DUT
0:00:22.326808	LOG	MAC Command DlChannelAns received
0:00:22.327840	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:22.332129	LOG	MAC answer retransmission completed
0:00:22.334780	LOG	Expect a MAC answer retransmission
0:00:27.202421	LOG	First uplink received. Open reception window.
0:00:27.311928	LOG	PUSH_ACK: 02 38a7 01
0:00:27.313843	LOG	GPS Time from gateway: 1385108674042
0:00:27.314842	LOG	PUSH_DATA: Protocol version = 02, Token = 38a7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3128119894, 'time': '2023-11-27T08:24:15.041858Z', 'tmms': 1385108674042, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3320, 'rssi': -49, 'size': 22, 'data': 'QAAAAACC6wAKAwKEk0EokgB2FEJJ1A=='}]}

0:00:27.315847	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 00eb, FOpts: 0a03), FPort: 02, FRMPayload: 00000001020000, MIC: 144249d4)
0:00:27.317862	LOG	Server <---------- DUT
0:00:27.318845	LOG	MAC Command DlChannelAns received
0:00:27.320872	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:27.324383	LOG	MAC answer retransmission completed
0:00:27.327383	LOG	Expect a MAC answer retransmission
0:00:29.123982	LOG	GPS Time updated: 1385108675963
0:00:29.125983	LOG	PULL_DATA: 02 754c 02 0016c001ff1025bf
0:00:29.127982	LOG	PULL_ACK: 02 754c 04
0:00:32.199050	LOG	First uplink received. Open reception window.
0:00:32.309815	LOG	PUSH_ACK: 02 896d 01
0:00:32.311585	LOG	GPS Time from gateway: 1385108679041
0:00:32.312591	LOG	PUSH_DATA: Protocol version = 02, Token = 896d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3133119675, 'time': '2023-11-27T08:24:20.041638Z', 'tmms': 1385108679041, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.5, 'foff': -3320, 'rssi': -49, 'size': 22, 'data': 'QAAAAACC7AAKAwLjz1pOp0dPDgjzjw==\'}]}
0:00:32.314590	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 00ec, FOpts: 0a03), FPort: 02, FRMPayload: 00000001020000, MIC: 0e08f38f)
0:00:32.315590	LOG	Server <---------- DUT
0:00:32.317591	LOG	MAC Command DlChannelAns received
0:00:32.318590	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:32.323104	LOG	MAC answer retransmission completed
0:00:32.327106	LOG	Step 03-05
0:00:32.332137	LOG	Test EchoPayloadReq in default channels process starts
0:00:37.198822	LOG	First uplink received. Open reception window.
0:00:37.313878	LOG	PUSH_ACK: 02 741b 01
0:00:37.315879	LOG	GPS Time from gateway: 1385108684041
0:00:37.316879	LOG	PUSH_DATA: Protocol version = 02, Token = 741b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3138119411, 'time': '2023-11-27T08:24:25.041376Z', 'tmms': 1385108684041, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3324, 'rssi': -49, 'size': 22, 'data': 'QAAAAACC7QAKAwKH54rsCYQ4D/mTTA==\'}]}
0:00:37.317881	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 00ed, FOpts: 0a03), FPort: 02, FRMPayload: 00000001020000, MIC: 0ff9934c)
0:00:37.319882	LOG	Server <---------- DUT
0:00:37.320882	LOG	Attempt 0/15
0:00:37.322884	LOG	Frequencies received: [868.1]
0:00:37.324424	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 011e, FOpts:), FPort: e0, FRMPayload: 080a0b0c), MIC: 28b771ae)
0:00:37.325461	LOG	PULL_RESP: Protocol version = 02, Token = 8a7c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3139119411, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YAAAAAAAHgHgnyB3Dii3ca4='}}
0:00:37.327467	LOG	Server ----------> DUT
0:00:37.328467	LOG	Echo sent to the DUT
0:00:38.324118	LOG	First uplink received. Open reception window.
0:00:38.427980	LOG	PUSH_ACK: 02 b3ef 01
0:00:38.429948	LOG	GPS Time from gateway: 1385108685161
0:00:38.431458	LOG	PUSH_DATA: Protocol version = 02, Token = b3ef, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3139239426, 'time': '2023-11-27T08:24:26.161390Z', 'tmms': 1385108685161, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3324, 'rssi': -49, 'size': 17, 'data': 'QAAAAACA7gDghiWrsvlZQXg='}]}
0:00:38.432457	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00ee, FOpts:), FPort: e0, FRMPayload: 080b0c0d, MIC: f9594178)
0:00:38.433458	LOG	Server <---------- DUT
0:00:38.435458	LOG	Echo Ans is correct: 0b0c0d
0:00:38.436456	LOG	Attempt 1/15
0:00:38.438464	LOG	Frequencies received: [868.1, 868.5]
0:00:38.439458	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 011f, FOpts:), FPort: e0, FRMPayload: 080a0b0c), MIC: 80f39ae6)
0:00:38.441458	LOG	PULL_RESP: Protocol version = 02, Token = 956f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3140239426, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YAAAAAAAHwHg9vC0zoDzmuY='}}
0:00:38.442457	LOG	Server ----------> DUT
0:00:38.444459	LOG	Echo sent to the DUT
0:00:39.282496	LOG	GPS Time updated: 1385108686119
0:00:39.285006	LOG	PULL_DATA: 02 5bb2 02 0016c001ff1025bf
0:00:39.286006	LOG	PULL_ACK: 02 5bb2 04
0:00:39.441054	LOG	First uplink received. Open reception window.
0:00:39.542016	LOG	PUSH_ACK: 02 21c2 01
0:00:39.544017	LOG	GPS Time from gateway: 1385108686281
0:00:39.545018	LOG	PUSH_DATA: Protocol version = 02, Token = 21c2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3140359334, 'time': '2023-11-27T08:24:27.281298Z', 'tmms': 1385108686281, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3324, 'rssi': -49, 'size': 17, 'data': 'QAAAAACA7wDgt8OwtCJ0XC0='}]}
0:00:39.546022	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00ef, FOpts:), FPort: e0, FRMPayload: 080b0c0d, MIC: 22745c2d)
0:00:39.548024	LOG	Server <---------- DUT
0:00:39.549023	LOG	Echo Ans is correct: 0b0c0d
0:00:39.551055	LOG	Uplink frequency currently checked. All received: [868.1, 868.5] Expected: [868.1, 868.3, 868.5]
0:00:42.195781	LOG	First uplink received. Open reception window.
0:00:42.296740	LOG	PUSH_ACK: 02 c59a 01
0:00:42.298708	LOG	GPS Time from gateway: 1385108689041
0:00:42.299708	LOG	PUSH_DATA: Protocol version = 02, Token = c59a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3143119047, 'time': '2023-11-27T08:24:30.041010Z', 'tmms': 1385108689041, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3324, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA8AACAmKIXHBUSDAAwm8='}]}
0:00:42.301709	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00f0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3000c26f)
0:00:42.302709	LOG	Server <---------- DUT
0:00:42.303708	LOG	Attempt 2/15
0:00:42.305213	LOG	Uplink frequency currently checked. All received: [868.1, 868.5] Expected: [868.1, 868.3, 868.5]
0:00:47.205414	LOG	First uplink received. Open reception window.
0:00:47.313471	LOG	PUSH_ACK: 02 8e53 01
0:00:47.315374	LOG	GPS Time from gateway: 1385108694040
0:00:47.316374	LOG	PUSH_DATA: Protocol version = 02, Token = 8e53, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3148118797, 'time': '2023-11-27T08:24:35.040759Z', 'tmms': 1385108694040, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3328, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA8QACHtrl16OlrUeaX1U='}]}

0:00:47.317346	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00f1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 479a5f55)
0:00:47.319341	LOG	Server <---------- DUT
0:00:47.320341	LOG	Attempt 3/15
0:00:47.322342	LOG	Frequencies received: [868.1, 868.5, 868.3]
0:00:47.323849	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0120, FOpts:), FPort: e0, FRMPayload: 080a0b0c), MIC: 98ed0047)
0:00:47.324854	LOG	PULL_RESP: Protocol version = 02, Token = 6f29, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3149118797, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YAAAAAAAIAHgnzLb9ZjtAEc='}}
0:00:47.326855	LOG	Server ----------> DUT
0:00:47.327855	LOG	Echo sent to the DUT
0:00:47.330260	LOG	TX_ACK: 02 6f29 05 0016c001ff1025bf
0:00:48.319344	LOG	First uplink received. Open reception window.
0:00:48.426977	LOG	PUSH_ACK: 02 fd90 01
0:00:48.428978	LOG	GPS Time from gateway: 1385108695160
0:00:48.430484	LOG	PUSH_DATA: Protocol version = 02, Token = fd90, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3149238414, 'time': '2023-11-27T08:24:36.160375Z', 'tmms': 1385108695160, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3328, 'rssi': -49, 'size': 17, 'data': 'QAAAAACA8gDgkqcvypKjQqM='}]}
0:00:48.431491	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00f2, FOpts:), FPort: e0, FRMPayload: 080b0c0d, MIC: 92a342a3)
0:00:48.432493	LOG	Server <---------- DUT
0:00:48.434493	LOG	Echo Ans is correct: 0b0c0d
0:00:48.439489	LOG	Test EchoPayloadReq in default channels process complete
0:00:48.444492	LOG	End Test Step: Test reply retransmission
0:00:48.448493	LOG	Partial Verdict: PASS
0:00:48.452526	LOG	==========
0:00:48.456497	LOG	==========
0:00:48.458494	LOG	Start Test Step: Restore default downlink parameters
0:00:48.471043	LOG	Step 05-06
0:00:48.474043	LOG	Send DlChannelReq process starts
0:00:49.423474	LOG	GPS Time updated: 1385108696264
0:00:49.424506	LOG	PULL_DATA: 02 8c0d 02 0016c001ff1025bf
0:00:49.426474	LOG	PULL_ACK: 02 8c0d 04
0:00:52.203499	LOG	First uplink received. Open reception window.
0:00:52.316538	LOG	PUSH_ACK: 02 6300 01
0:00:52.318466	LOG	GPS Time from gateway: 1385108699040
0:00:52.319466	LOG	PUSH_DATA: Protocol version = 02, Token = 6300, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3153118575, 'time': '2023-11-27T08:24:40.040537Z', 'tmms': 1385108699040, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3324, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA8wACi07BOCf+Da2e+co='}]}
0:00:52.321435	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00f3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ad9ef9ca)
0:00:52.322434	LOG	Server <---------- DUT
0:00:52.324435	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0121, FOpts:), FPort: 00, FRMPayload: 0a00287684), MIC: 8762ab0b)
0:00:52.325434	LOG	PULL_RESP: Protocol version = 02, Token = 8e3e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3155118575, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAIQEALgA4hEOHYqsL'}}
0:00:52.326938	LOG	Server ----------> DUT
0:00:52.329946	LOG	TX_ACK: 02 8e3e 05 0016c001ff1025bf

0:00:57.418600	LOG	First uplink received. Open reception window.
0:00:57.533423	LOG	PUSH_ACK: 02 3d86 01
0:00:57.535426	LOG	GPS Time from gateway: 1385108704260
0:00:57.536426	LOG	PUSH_DATA: Protocol version = 02, Token = 3d86, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3158338453, 'time': '2023-11-27T08:24:45.260413Z', 'tmms': 1385108704260, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3324, 'rssi': -50, 'size': 22, 'data': 'QAAAAACC9AAKAwL852asjV0j+Hkv2w=='}]}
0:00:57.537426	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 00f4, FOpts: 0a03), FPort: 02, FRMPayload: 00000001020000, MIC: f8792fdb)
0:00:57.539426	LOG	Server <---------- DUT
0:00:57.541430	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:57.542430	LOG	Command Answer: 0a03
0:00:57.548234	LOG	MAC command communication completed
0:00:57.554238	LOG	End Test Step: Restore default downlink parameters
0:00:57.557781	LOG	Partial Verdict: PASS
0:00:57.561840	LOG	==========
0:00:57.566782	LOG	==========
0:00:57.569781	LOG	Start Test Step: Test reply retransmission default
0:00:57.581788	LOG	Step 06-07
0:00:57.584788	LOG	Expect a MAC answer retransmission
0:00:59.463766	LOG	GPS Time updated: 1385108706305
0:00:59.464733	LOG	PULL_DATA: 02 a101 02 0016c001ff1025bf
0:00:59.466734	LOG	PULL_ACK: 02 a101 04
0:01:02.201986	LOG	First uplink received. Open reception window.
0:01:02.303621	LOG	PUSH_ACK: 02 e4d9 01
0:01:02.305896	LOG	GPS Time from gateway: 1385108709043
0:01:02.307197	LOG	PUSH_DATA: Protocol version = 02, Token = e4d9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3163121089, 'time': '2023-11-27T08:24:50.043048Z', 'tmms': 1385108709043, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3316, 'rssi': -49, 'size': 22, 'data': 'QAAAAACC9QAKAwJO0pQI0flyOLVb7g=='}]}
0:01:02.308206	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 00f5, FOpts: 0a03), FPort: 02, FRMPayload: 00000001020000, MIC: 38b55bee)
0:01:02.309205	LOG	Server <---------- DUT
0:01:02.311174	LOG	MAC Command DlChannelAns received
0:01:02.312208	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:02.316211	LOG	MAC answer retransmission completed
0:01:02.320172	LOG	Expect a MAC answer retransmission
0:01:07.203899	LOG	First uplink received. Open reception window.
0:01:07.308414	LOG	PUSH_ACK: 02 a859 01
0:01:07.309921	LOG	GPS Time from gateway: 1385108714042
0:01:07.311923	LOG	PUSH_DATA: Protocol version = 02, Token = a859, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3168120833, 'time': '2023-11-27T08:24:55.042791Z', 'tmms': 1385108714042, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3316, 'rssi': -50, 'size': 22, 'data': 'QAAAAACC9gAKAwJIZ00kTO8XMww9KA=='}]}
0:01:07.312922	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 00f6, FOpts: 0a03), FPort: 02, FRMPayload: 00000001020000, MIC: 330c3d28)
0:01:07.313923	LOG	Server <---------- DUT
0:01:07.315923	LOG	MAC Command DlChannelAns received
0:01:07.316924	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:07.321434	LOG	MAC answer retransmission completed

0:01:07.324441	LOG	Expect a MAC answer retransmission
0:01:09.544225	LOG	GPS Time updated: 1385108716382
0:01:09.545224	LOG	PULL_DATA: 02 2531 02 0016c001ff1025bf
0:01:09.547231	LOG	PULL_ACK: 02 2531 04
0:01:12.203151	LOG	First uplink received. Open reception window.
0:01:12.316324	LOG	PUSH_ACK: 02 c79a 01
0:01:12.318190	LOG	GPS Time from gateway: 1385108719042
0:01:12.319190	LOG	PUSH_DATA: Protocol version = 02, Token = c79a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3173120563, 'time': '2023-11-27T08:25:00.042521Z', 'tmms': 1385108719042, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3324, 'rssi': -49, 'size': 22, 'data': 'QAAAAACC9wAKAwI1BEBbe/uLjQaX2A==\'}]}
0:01:12.320189	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 00f7, FOpts: 0a03), FPort: 02, FRMPayload: 00000001020000, MIC: 8d0697d8)
0:01:12.322192	LOG	Server <---------- DUT
0:01:12.324191	LOG	MAC Command DlChannelAns received
0:01:12.325191	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:12.328703	LOG	MAC answer retransmission completed
0:01:12.333701	LOG	Step 07-09
0:01:12.338275	LOG	Test EchoPayloadReq in default channels process starts
0:01:17.200732	LOG	First uplink received. Open reception window.
0:01:17.305345	LOG	PUSH_ACK: 02 4c7a 01
0:01:17.306933	LOG	GPS Time from gateway: 1385108724042
0:01:17.307973	LOG	PUSH_DATA: Protocol version = 02, Token = 4c7a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3178120314, 'time': '2023-11-27T08:25:05.042270Z', 'tmms': 1385108724042, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3328, 'rssi': -49, 'size': 22, 'data': 'QAAAAACC+AAKAwJZzuH9G3mkdNlxiw==\'}]}
0:01:17.309972	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 00f8, FOpts: 0a03), FPort: 02, FRMPayload: 00000001020000, MIC: 74d9718b)
0:01:17.310972	LOG	Server <---------- DUT
0:01:17.312939	LOG	Attempt 0/15
0:01:17.313939	LOG	Frequencies received: [868.3]
0:01:17.314939	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0122, FOpts:), FPort: e0, FRMPayload: 080a0b0c), MIC: 7a8ddf64)
0:01:17.316954	LOG	PULL_RESP: Protocol version = 02, Token = 20c9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3179120314, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YAAAAAAAIgHgwuoArHqN32Q='}}
0:01:17.318460	LOG	Server ----------> DUT
0:01:17.319466	LOG	Echo sent to the DUT
0:01:18.323687	LOG	First uplink received. Open reception window.
0:01:18.437510	LOG	PUSH_ACK: 02 89a7 01
0:01:18.439481	LOG	GPS Time from gateway: 1385108725162
0:01:18.441481	LOG	PUSH_DATA: Protocol version = 02, Token = 89a7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3179240211, 'time': '2023-11-27T08:25:06.162168Z', 'tmms': 1385108725162, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3324, 'rssi': -49, 'size': 17, 'data': 'QAAAAACA+QDgYliRavg6CI8='}]}
0:01:18.442480	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00f9, FOpts:), FPort: e0, FRMPayload: 080b0c0d, MIC: f83a088f)
0:01:18.443481	LOG	Server <---------- DUT
0:01:18.445481	LOG	Echo Ans is correct: 0b0c0d
0:01:18.446481	LOG	Attempt 1/15
0:01:18.447481	LOG	Frequencies received: [868.3, 868.1]

0:01:18.449487	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0123, FOpts:), FPort: e0, FRMPayload: 080a0b0c), MIC: 4e48c66f)
0:01:18.451487	LOG	PULL_RESP: Protocol version = 02, Token = 4251, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3180240211, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YAAAAAAAIwHg1/v3WU5Ixm8='}}
0:01:18.452486	LOG	Server ----------> DUT
0:01:18.454487	LOG	Echo sent to the DUT
0:01:18.455486	LOG	TX_ACK: 02 4251 05 0016c001ff1025bf
0:01:19.446148	LOG	#**********CURRENT BEACON SENT**********#
0:01:19.448184	LOG	PULL_RESP: Protocol version = 02, Token = 816a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385108736000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAFY9SgtkAAAAAAAAAAA='}}
0:01:19.449218	LOG	Server ----------> DUT
0:01:19.450183	LOG	#**********#
0:01:19.460215	LOG	#**********NEXT BEACON QUEUED**********#
0:01:19.461183	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385108864000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAFY9SugQAAAAAAAAAAA='}}
0:01:19.462689	LOG	Server ----------> DUT
0:01:19.464695	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 80158f52, CRC1: ba04, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385108864000
0:01:19.465693	LOG	#**********#
0:01:19.466694	LOG	Next BEACON scheduled at GPS time (ms): 1385108992000
0:01:19.468699	LOG	First uplink received. Open reception window.
0:01:19.470694	LOG	TX_ACK: 02 816a 05 0016c001ff1025bf
0:01:19.582858	LOG	PUSH_ACK: 02 2daa 01
0:01:19.584826	LOG	GPS Time from gateway: 1385108726282
0:01:19.585827	LOG	PUSH_DATA: Protocol version = 02, Token = 2daa, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3180360245, 'time': '2023-11-27T08:25:07.282202Z', 'tmms': 1385108726282, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3324, 'rssi': -49, 'size': 17, 'data': 'QAAAAACA+gDg9wUgf/0Ur6I='}]}
0:01:19.587833	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00fa, FOpts:), FPort: e0, FRMPayload: 080b0c0d, MIC: fd14afa2)
0:01:19.589929	LOG	Server <---------- DUT
0:01:19.590928	LOG	Echo Ans is correct: 0b0c0d
0:01:19.592928	LOG	Attempt 2/15
0:01:19.594963	LOG	Frequencies received: [868.3, 868.1, 868.5]
0:01:19.596928	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0124, FOpts:), FPort: e0, FRMPayload: 080a0b0c), MIC: 480221f3)
0:01:19.597951	LOG	PULL_RESP: Protocol version = 02, Token = 04ef, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3181360245, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YAAAAAAAJAHgOmY720gCIfM='}}
0:01:19.599927	LOG	Server ----------> DUT
0:01:19.600927	LOG	Echo sent to the DUT
0:01:20.561165	LOG	First uplink received. Open reception window.
0:01:20.667101	LOG	PUSH_ACK: 02 4541 01

0:01:20.669103	LOG	GPS Time from gateway: 1385108727402
0:01:20.670103	LOG	PUSH_DATA: Protocol version = 02, Token = 4541, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3181480043, 'time': '2023-11-27T08:25:08.401998Z', 'tmms': 1385108727402, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3324, 'rssi': -49, 'size': 17, 'data': 'QAAAAACA+wDglRWNq084ZOg='}]}
0:01:20.671108	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00fb, FOpts:), FPort: e0, FRMPayload: 080b0c0d, MIC: 4f3864e8)
0:01:20.673109	LOG	Server <---------- DUT
0:01:20.674109	LOG	Echo Ans is correct: 0b0c0d
0:01:20.678143	LOG	Test EchoPayloadReq in default channels process complete
0:01:20.683660	LOG	End Test Step: Test reply retransmission default
0:01:20.687654	LOG	Partial Verdict: PASS
0:01:20.691651	LOG	==========
0:01:20.696621	LOG	==========
0:01:20.699657	LOG	Start Test Step: DlChannel Request with invalid parameters
0:01:20.709657	LOG	Step 09
0:01:20.714174	LOG	Send DlChannelReq process starts
0:01:27.206699	LOG	First uplink received. Open reception window.
0:01:27.310831	LOG	PUSH_ACK: 02 88d1 01
0:01:27.312836	LOG	GPS Time from gateway: 1385108734041
0:01:27.313835	LOG	PUSH_DATA: Protocol version = 02, Token = 88d1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3188119687, 'time': '2023-11-27T08:25:15.041640Z', 'tmms': 1385108734041, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3316, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA/AACWbfPOgPCAB2z6Yc='}]}
0:01:27.314835	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00fc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1db3e987)
0:01:27.316836	LOG	Server <---------- DUT
0:01:27.318836	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0125, FOpts:), FPort: 00, FRMPayload: 0a0098e68a), MIC: be058949)
0:01:27.319836	LOG	PULL_RESP: Protocol version = 02, Token = 165e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3190119687, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAJQEADQg0zo6+BYlJ'}}
0:01:27.321340	LOG	Server ----------> DUT
0:01:27.326377	LOG	GW Message b'{"txpk_ack":{"error":"COLLISION_PACKET"}}'
0:01:27.327546	LOG	Waiting a new Uplink to send the frame again
0:01:29.633918	LOG	GPS Time updated: 1385108736468
0:01:29.635960	LOG	PULL_DATA: 02 4e8b 02 0016c001ff1025bf
0:01:29.637961	LOG	PULL_ACK: 02 4e8b 04
0:01:32.198083	LOG	First uplink received. Open reception window.
0:01:32.304561	LOG	PUSH_ACK: 02 a3b1 01
0:01:32.306528	LOG	GPS Time from gateway: 1385108739041
0:01:32.308054	LOG	PUSH_DATA: Protocol version = 02, Token = a3b1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3193119428, 'time': '2023-11-27T08:25:20.041380Z', 'tmms': 1385108739041, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3324, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA/QAC33YPjxEsQfrszeM='}]}
0:01:32.309054	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 00fd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: faeccde3)
0:01:32.310054	LOG	Server <---------- DUT
0:01:32.312054	LOG	PULL_RESP: Protocol version = 02, Token = 2eb3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3195119428, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAJQEADQg0zo6+BYlJ'}}

0:01:32.313055	LOG	Server ----------> DUT
0:01:32.316012	LOG	TX_ACK: 02 2eb3 05 0016c001ff1025bf
0:01:37.200411	LOG	First uplink received. Open reception window.
0:01:37.306852	LOG	PUSH_ACK: 02 8ce0 01
0:01:37.308855	LOG	GPS Time from gateway: 1385108744041
0:01:37.309856	LOG	PUSH_DATA: Protocol version = 02, Token = 8ce0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3198119282, 'time': '2023-11-27T08:25:25.041236Z', 'tmms': 1385108744041, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3331, 'rssi': -49, 'size': 22, 'data': 'QAAAAACC/gAKAgKgBxfvufw7eyPwUQ==\'}]}
0:01:37.311856	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 00fe, FOpts: 0a02), FPort: 02, FRMPayload: 00000001020000, MIC: 7b23f051)
0:01:37.312889	LOG	Server <---------- DUT
0:01:37.314857	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:37.315857	LOG	Command Answer: 0a02
0:01:37.320858	LOG	MAC command communication completed
0:01:37.325103	LOG	Step 10
0:01:37.328144	LOG	Expect a MAC answer retransmission
0:01:39.664974	LOG	GPS Time updated: 1385108746505
0:01:39.665974	LOG	PULL_DATA: 02 372d 02 0016c001ff1025bf
0:01:39.667980	LOG	PULL_ACK: 02 372d 04
0:01:42.204424	LOG	First uplink received. Open reception window.
0:01:42.313438	LOG	PUSH_ACK: 02 e21c 01
0:01:42.315320	LOG	GPS Time from gateway: 1385108749041
0:01:42.317297	LOG	PUSH_DATA: Protocol version = 02, Token = e21c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3203119024, 'time': '2023-11-27T08:25:30.040977Z', 'tmms': 1385108749041, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3328, 'rssi': -49, 'size': 22, 'data': 'QAAAAACC/wAKAgLJawvLZivT5i8YJQ==\'}]}
0:01:42.318331	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 00ff, FOpts: 0a02), FPort: 02, FRMPayload: 00000001020000, MIC: e62f1825)
0:01:42.320296	LOG	Server <---------- DUT
0:01:42.321296	LOG	MAC Command DlChannelAns received
0:01:42.322296	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:42.326943	LOG	MAC answer retransmission completed
0:01:42.329956	LOG	Expect a MAC answer retransmission
0:01:47.199419	LOG	First uplink received. Open reception window.
0:01:47.316288	LOG	PUSH_ACK: 02 068a 01
0:01:47.318180	LOG	GPS Time from gateway: 1385108754040
0:01:47.319216	LOG	PUSH_DATA: Protocol version = 02, Token = 068a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3208118761, 'time': '2023-11-27T08:25:35.040713Z', 'tmms': 1385108754040, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3328, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCAAEKAgKx0o3/pnn35Cg7Fw==\'}]}
0:01:47.320213	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0100, FOpts: 0a02), FPort: 02, FRMPayload: 00000001020000, MIC: e4283b17)
0:01:47.322213	LOG	Server <---------- DUT
0:01:47.323217	LOG	MAC Command DlChannelAns received
0:01:47.325233	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:47.328747	LOG	MAC answer retransmission completed
0:01:47.331777	LOG	Expect a MAC answer retransmission
0:01:49.745035	LOG	GPS Time updated: 1385108756586
0:01:49.746075	LOG	PULL_DATA: 02 752b 02 0016c001ff1025bf

0:01:49.748043	LOG	PULL_ACK: 02 752b 04
0:01:52.204772	LOG	First uplink received. Open reception window.
0:01:52.318222	LOG	PUSH_ACK: 02 c508 01
0:01:52.320092	LOG	GPS Time from gateway: 1385108759040
0:01:52.321093	LOG	PUSH_DATA: Protocol version = 02, Token = c508, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3213118505, 'time': '2023-11-27T08:25:40.040456Z', 'tmms': 1385108759040, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3316, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCAQEKAgJ+nriDRcHrHiooQA==’}]}
0:01:52.323093	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0101, FOpts: 0a02), FPort: 02, FRMPayload: 00000001020000, MIC: 1e2a2840)
0:01:52.324093	LOG	Server <---------- DUT
0:01:52.325093	LOG	MAC Command DlChannelAns received
0:01:52.327093	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:52.330605	LOG	MAC answer retransmission completed
0:01:52.334641	LOG	Step 11
0:01:52.338635	LOG	Send DlChannelReq process starts
0:01:57.205985	LOG	First uplink received. Open reception window.
0:01:57.307711	LOG	PUSH_ACK: 02 b74e 01
0:01:57.309219	LOG	GPS Time from gateway: 1385108764040
0:01:57.311219	LOG	PUSH_DATA: Protocol version = 02, Token = b74e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3218118234, 'time': '2023-11-27T08:25:45.040184Z', 'tmms': 1385108764040, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3316, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCAgEKAgIQ2vTt5MwVH+X05Q==’}]}
0:01:57.312219	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0102, FOpts: 0a02), FPort: 02, FRMPayload: 00000001020000, MIC: 1fe5f4e5)
0:01:57.314231	LOG	Server <---------- DUT
0:01:57.315220	LOG	MAC Command DlChannelAns received
0:01:57.317220	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0126, FOpts:), FPort: 00, FRMPayload: 0a04f87d84), MIC: 35c1ecab)
0:01:57.319220	LOG	PULL_RESP: Protocol version = 02, Token = 2975, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3220118234, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAJgEAVExnzTI1weyr'}}
0:01:57.320219	LOG	Server ----------> DUT
0:01:57.322221	LOG	TX_ACK: 02 2975 05 0016c001ff1025bf
0:01:59.854530	LOG	GPS Time updated: 1385108766689
0:01:59.856532	LOG	PULL_DATA: 02 b0e4 02 0016c001ff1025bf
0:01:59.858498	LOG	PULL_ACK: 02 b0e4 04
0:02:02.429792	LOG	First uplink received. Open reception window.
0:02:02.542694	LOG	PUSH_ACK: 02 f81a 01
0:02:02.544699	LOG	GPS Time from gateway: 1385108769269
0:02:02.545731	LOG	PUSH_DATA: Protocol version = 02, Token = f81a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3223347748, 'time': '2023-11-27T08:25:50.269697Z', 'tmms': 1385108769269, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3316, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCAwEKAQJHAVm1ANgkynd5YA==’}]}
0:02:02.547698	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0103, FOpts: 0a01), FPort: 02, FRMPayload: 00000001020000, MIC: ca777960)
0:02:02.548733	LOG	Server <---------- DUT
0:02:02.550723	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:02.551731	LOG	Command Answer: 0a01
0:02:02.556241	LOG	MAC command communication completed

0:02:02.560792	LOG	Step 12-13
0:02:02.564902	LOG	Expect a MAC answer retransmission
0:02:07.211968	LOG	First uplink received. Open reception window.
0:02:07.321556	LOG	PUSH_ACK: 02 d63d 01
0:02:07.323452	LOG	GPS Time from gateway: 1385108774048
0:02:07.325453	LOG	PUSH_DATA: Protocol version = 02, Token = d63d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3228126549, 'time': '2023-11-27T08:25:55.048497Z', 'tmms': 1385108774048, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3313, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCBAEKAQLAaNW84C2RI0k30w==\'}]}
0:02:07.326465	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0104, FOpts: 0a01), FPort: 02, FRMPayload: 00000001020000, MIC: 234937d3)
0:02:07.328452	LOG	Server <---------- DUT
0:02:07.329451	LOG	MAC Command DlChannelAns received
0:02:07.330451	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:07.334885	LOG	MAC answer retransmission completed
0:02:07.337935	LOG	Expect a MAC answer retransmission
0:02:09.935706	LOG	GPS Time updated: 1385108776771
0:02:09.936705	LOG	PULL_DATA: 02 121b 02 0016c001ff1025bf
0:02:09.938708	LOG	PULL_ACK: 02 121b 04
0:02:12.214597	LOG	First uplink received. Open reception window.
0:02:12.331147	LOG	PUSH_ACK: 02 7e9a 01
0:02:12.333116	LOG	GPS Time from gateway: 1385108779048
0:02:12.334149	LOG	PUSH_DATA: Protocol version = 02, Token = 7e9a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3233126287, 'time': '2023-11-27T08:26:00.048234Z', 'tmms': 1385108779048, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3309, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCBQEKAQIOq6E1BgWXWLXWYQ==\'}]}
0:02:12.336117	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0105, FOpts: 0a01), FPort: 02, FRMPayload: 00000001020000, MIC: 58b5d661)
0:02:12.337148	LOG	Server <---------- DUT
0:02:12.338150	LOG	MAC Command DlChannelAns received
0:02:12.340205	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:12.344616	LOG	MAC answer retransmission completed
0:02:12.348627	LOG	Expect a MAC answer retransmission
0:02:17.214467	LOG	First uplink received. Open reception window.
0:02:17.317062	LOG	PUSH_ACK: 02 eccd 01
0:02:17.319061	LOG	GPS Time from gateway: 1385108784048
0:02:17.320061	LOG	PUSH_DATA: Protocol version = 02, Token = eccd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3238126028, 'time': '2023-11-27T08:26:05.047973Z', 'tmms': 1385108784048, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3308, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCBgEKAQJtfoNAkz/WEES0CQ==\'}]}
0:02:17.321062	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0106, FOpts: 0a01), FPort: 02, FRMPayload: 00000001020000, MIC: 1044b409)
0:02:17.323072	LOG	Server <---------- DUT
0:02:17.324062	LOG	MAC Command DlChannelAns received
0:02:17.326062	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:17.329604	LOG	MAC answer retransmission completed
0:02:17.332636	LOG	Step 13
0:02:17.335635	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:20.015507	LOG	GPS Time updated: 1385108786850
0:02:20.017475	LOG	PULL_DATA: 02 268f 02 0016c001ff1025bf

0:02:20.019032	LOG	PULL_ACK: 02 268f 04
0:02:22.214546	LOG	First uplink received. Open reception window.
0:02:22.318626	LOG	PUSH_ACK: 02 70b6 01
0:02:22.320557	LOG	GPS Time from gateway: 1385108789047
0:02:22.321557	LOG	PUSH_DATA: Protocol version = 02, Token = 70b6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3243125767, 'time': '2023-11-27T08:26:10.047711Z', 'tmms': 1385108789047, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3293, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCBwEKAQIbNVnZ2CtFqd3b6w=='}]}
0:02:22.323567	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0107, FOpts: 0a01), FPort: 02, FRMPayload: 00000001020000, MIC: a9dddbeb)
0:02:22.324525	LOG	Server <---------- DUT
0:02:22.326532	LOG	MAC Command DlChannelAns received
0:02:22.327525	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0127, FOpts:), FPort: e0, FRMPayload: 0700), MIC: ef83b70d)
0:02:22.329033	LOG	Frame command sent to the DUT
0:02:22.331039	LOG	PULL_RESP: Protocol version = 02, Token = 6d54, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3245125767, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAJwHgTgvvg7cN'}}
0:02:22.332040	LOG	Server ----------> DUT
0:02:22.336039	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:22.339542	LOG	End Test Step: DlChannel Request with invalid parameters
0:02:22.343575	LOG	Partial Verdict: PASS
0:02:22.348580	LOG	==========
0:02:22.353548	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_007
0:02:22.355548	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_008	
Verdict	PASS	
Date	2023-11-27 09:26:11	
Description		
Technology Version	LCTT v3.11.0_R1 | GUI v2.6.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.3	
Test Specs Version	USv1.5.1/EUv1.6.2/KRv1.2.1/ASv1.1.1/INv1.1.1/ALL_Av1.6/ALL_Cv1.0/ALL_Bv1.0/SCHCv1.1/ALPv1.0	
Project	ref-stack	
Project Creation Date	2023-10-04 09:10:20	
Sample Parameters		
	RX2 Receive window frequency	868.525
	Conformance	TRUE

Time Stamp (ms)	Event	Summary
0:00:00.008729	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_008
0:00:00.065258	LOG	==========
0:00:00.068260	LOG	Start Test Step: Device activation
0:00:00.153798	LOG	Activation process has finished successfully
0:00:00.155803	LOG	Data stored in the DUT after Activation:
0:00:00.158804	LOG	DevAddr: 00000000
0:00:00.162320	LOG	AppEUI: 0000000000000000
0:00:00.165321	LOG	NwkSKey: 6bfb58c6a233389e6e66450a9e520a70
0:00:00.168321	LOG	AppSKey: ded4e508ab9cede444c3765e0533fcac
0:00:00.171324	LOG	End Test Step: Device activation
0:00:00.175324	LOG	Partial Verdict: PASS
0:00:00.179324	LOG	==========

0:00:00.184323	LOG	==========
0:00:00.185833	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.197208	LOG	DUT Pre-condition activation process starts
0:00:00.200219	LOG	DUT Pre-condition activation completed
0:00:00.202255	LOG	End Test Step: DUT Pre-condition settings
0:00:00.206256	LOG	Partial Verdict: PASS
0:00:00.209257	LOG	==========
0:00:00.214258	LOG	==========
0:00:00.216784	LOG	Start Test Step: Modify RX1 and RX2 downlink parameters
0:00:00.229819	LOG	Step 01-02
0:00:00.232790	LOG	Send LinkADRReq process starts
0:00:02.589363	LOG	PUSH_DATA received while waiting first PULL_DATA
0:00:05.481943	LOG	GPS Time updated: 1385108791939
0:00:05.482946	LOG	PULL_DATA: 02 d2e5 02 0016c001ff1025bf
0:00:05.484948	LOG	PULL_ACK: 02 d2e5 04
0:00:07.583978	LOG	First uplink received. Open reception window.
0:00:07.685006	LOG	PUSH_ACK: 02 dc47 01
0:00:07.687012	LOG	GPS Time from gateway: 1385108799047
0:00:07.689011	LOG	PUSH_DATA: Protocol version = 02, Token = dc47, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3253125147, 'time': '2023-11-27T08:26:20.047088Z', 'tmms': 1385108799047, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3293, 'rssi': -49, 'size': 20, 'data': 'QAAAAACACQEC/3Wx38jkGp5WjpU='}]}
0:00:07.690010	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0109, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9e568e95)
0:00:07.692011	LOG	Server <---------- DUT
0:00:07.693012	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0128, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: f69e0b9b)
0:00:07.696044	LOG	PULL_RESP: Protocol version = 02, Token = 6e01, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3255125147, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAKAEA/7ajZZz2ngub'}}
0:00:07.698015	LOG	Server ----------> DUT
0:00:07.701015	LOG	TX_ACK: 02 6e01 05 0016c001ff1025bf
0:00:12.581411	LOG	First uplink received. Open reception window.
0:00:12.684885	LOG	PUSH_ACK: 02 1098 01
0:00:12.686892	LOG	GPS Time from gateway: 1385108804047
0:00:12.688903	LOG	PUSH_DATA: Protocol version = 02, Token = 1098, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3258125032, 'time': '2023-11-27T08:26:25.046974Z', 'tmms': 1385108804047, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3305, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCCgEDBwK8h/Q1NfaZIQLwlA=='}]}
0:00:12.689922	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 010a, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 2102f094)
0:00:12.691894	LOG	Server <---------- DUT
0:00:12.692925	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:12.694922	LOG	Command Answer: 0307
0:00:12.701891	LOG	MAC command communication completed
0:00:12.704891	LOG	Check previous uplink data rate process starts
0:00:12.708904	LOG	Uplink received with expected Data Rate
0:00:12.713105	LOG	Step 02-03
0:00:12.717294	LOG	Send RXParamSetupReq process starts
0:00:15.671252	LOG	GPS Time updated: 1385108807137
0:00:15.673757	LOG	PULL_DATA: 02 84d6 02 0016c001ff1025bf
0:00:15.675760	LOG	PULL_ACK: 02 84d6 04

0:00:17.589809	LOG	First uplink received. Open reception window.
0:00:17.694415	LOG	PUSH_ACK: 02 a13b 01
0:00:17.696333	LOG	GPS Time from gateway: 1385108809046
0:00:17.697335	LOG	PUSH_DATA: Protocol version = 02, Token = a13b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3263124657, 'time': '2023-11-27T08:26:30.046599Z', 'tmms': 1385108809046, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3293, 'rssi': -49, 'size': 20, 'data': 'QAAAAACACwECOTiSC3IcPKs59Cc='}]}
0:00:17.699299	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 010b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ab39f427)
0:00:17.700338	LOG	Server <---------- DUT
0:00:17.702311	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0129, FOpts:), FPort: 00, FRMPayload: 0522c28684), MIC: 599bb716)
0:00:17.703331	LOG	PULL_RESP: Protocol version = 02, Token = 941c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3265124657, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAKQEA+5HsMLVZm7cW'}}
0:00:17.704869	LOG	Server ----------> DUT
0:00:17.707876	LOG	TX_ACK: 02 941c 05 0016c001ff1025bf
0:00:22.582131	LOG	First uplink received. Open reception window.
0:00:22.698359	LOG	PUSH_ACK: 02 2451 01
0:00:22.700231	LOG	GPS Time from gateway: 1385108814046
0:00:22.702229	LOG	PUSH_DATA: Protocol version = 02, Token = 2451, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3268124509, 'time': '2023-11-27T08:26:35.046450Z', 'tmms': 1385108814046, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3305, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCDAEFBwJnN+Q+csT2PEYWCA=='}]}
0:00:22.703228	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 010c, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 3c461608)
0:00:22.704195	LOG	Server <---------- DUT
0:00:22.706196	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:22.707197	LOG	Command Answer: 0507
0:00:22.720041	LOG	MAC command communication completed
0:00:22.725044	LOG	Expect a MAC answer retransmission
0:00:25.682093	LOG	GPS Time updated: 1385108817146
0:00:25.684058	LOG	PULL_DATA: 02 6bf5 02 0016c001ff1025bf
0:00:25.685562	LOG	PULL_ACK: 02 6bf5 04
0:00:27.580835	LOG	First uplink received. Open reception window.
0:00:27.690619	LOG	PUSH_ACK: 02 5a7d 01
0:00:27.692481	LOG	GPS Time from gateway: 1385108819046
0:00:27.693480	LOG	PUSH_DATA: Protocol version = 02, Token = 5a7d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3273124246, 'time': '2023-11-27T08:26:40.046186Z', 'tmms': 1385108819046, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3308, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCDQEFBwJ7sg60Nwy09H519A=='}]}
0:00:27.694481	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 010d, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: f47e75f4)
0:00:27.696481	LOG	Server <---------- DUT
0:00:27.698481	LOG	MAC Command RXParamSetupAns received
0:00:27.699480	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:27.703991	LOG	MAC answer retransmission completed
0:00:27.706991	LOG	Expect a MAC answer retransmission
0:00:32.586724	LOG	First uplink received. Open reception window.
0:00:32.702218	LOG	PUSH_ACK: 02 10d8 01

0:00:32.704113	LOG	GPS Time from gateway: 1385108824046
0:00:32.705109	LOG	PUSH_DATA: Protocol version = 02, Token = 10d8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3278123998, 'time': '2023-11-27T08:26:45.045936Z', 'tmms': 1385108824046, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3293, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCDgEFBwLzU06F4hZUnwsJ4w=='}]}
0:00:32.707110	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 010e, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 9f0b09e3)
0:00:32.708128	LOG	Server <---------- DUT
0:00:32.710110	LOG	MAC Command RXParamSetupAns received
0:00:32.711109	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:32.714618	LOG	MAC answer retransmission completed
0:00:32.718131	LOG	Expect a MAC answer retransmission
0:00:35.772158	LOG	GPS Time updated: 1385108827232
0:00:35.774126	LOG	PULL_DATA: 02 17fc 02 0016c001ff1025bf
0:00:35.775127	LOG	PULL_ACK: 02 17fc 04
0:00:37.587940	LOG	First uplink received. Open reception window.
0:00:37.703172	LOG	PUSH_ACK: 02 a53d 01
0:00:37.705177	LOG	GPS Time from gateway: 1385108829045
0:00:37.706172	LOG	PUSH_DATA: Protocol version = 02, Token = a53d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3283123735, 'time': '2023-11-27T08:26:50.045673Z', 'tmms': 1385108829045, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3293, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCDwEFBwL93c7GDs7hQHwuLw=='}]}
0:00:37.707175	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 010f, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 407c2e2f)
0:00:37.709176	LOG	Server <---------- DUT
0:00:37.710174	LOG	MAC Command RXParamSetupAns received
0:00:37.712176	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:37.716141	LOG	MAC answer retransmission completed
0:00:37.719652	LOG	Step 04
0:00:37.726651	LOG	Send Test Command EchoPayloadReq process starts
0:00:42.582092	LOG	First uplink received. Open reception window.
0:00:42.688908	LOG	PUSH_ACK: 02 8c24 01
0:00:42.690877	LOG	GPS Time from gateway: 1385108834045
0:00:42.691876	LOG	PUSH_DATA: Protocol version = 02, Token = 8c24, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3288123478, 'time': '2023-11-27T08:26:55.045414Z', 'tmms': 1385108834045, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3293, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCEAEFBwInowP8aJZ9BfiRSQ=='}]}
0:00:42.693877	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0110, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 05f89149)
0:00:42.694878	LOG	Server <---------- DUT
0:00:42.695876	LOG	MAC Command RXParamSetupAns received
0:00:42.698387	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 012a, FOpts:), FPort: e0, FRMPayload: 08010203), MIC: fcd53a74)
0:00:42.699891	LOG	Frame command sent to the DUT
0:00:42.700897	LOG	PULL_RESP: Protocol version = 02, Token = 57fd, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3289123478, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YAAAAAAAKgHgeoMz1fzVOnQ='}}
0:00:42.701896	LOG	Server ----------> DUT
0:00:42.711934	LOG	TX_ACK: 02 57fd 05 0016c001ff1025bf
0:00:43.823205	LOG	First uplink received. Open reception window.

0:00:43.924780	LOG	PUSH_ACK: 02 effc 01
0:00:43.926746	LOG	GPS Time from gateway: 1385108835286
0:00:43.927746	LOG	PUSH_DATA: Protocol version = 02, Token = effc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3289364468, 'time': '2023-11-27T08:26:56.286405Z', 'tmms': 1385108835286, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3293, 'rssi': -50, 'size': 17, 'data': 'QAAAAACAEQHgklsysppI2dc='}]}
0:00:43.929751	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0111, FOpts:), FPort: e0, FRMPayload: 08020304, MIC: 9a48d9d7)
0:00:43.930750	LOG	Server <---------- DUT
0:00:43.932751	LOG	Frame Command Payload in the Answer: 08020304
0:00:43.936255	LOG	Checking if the payload of the EchoPayloadAns is correct
0:00:43.940263	LOG	Send Test Command EchoPayloadReq process completed
0:00:43.945260	LOG	Step 05
0:00:43.951261	LOG	Send Test Command EchoPayloadReq process starts
0:00:45.852582	LOG	GPS Time updated: 1385108837315
0:00:45.854550	LOG	PULL_DATA: 02 dace 02 0016c001ff1025bf
0:00:45.855550	LOG	PULL_ACK: 02 dace 04
0:00:47.579182	LOG	First uplink received. Open reception window.
0:00:47.686133	LOG	PUSH_ACK: 02 4eac 01
0:00:47.687644	LOG	GPS Time from gateway: 1385108839045
0:00:47.689682	LOG	PUSH_DATA: Protocol version = 02, Token = 4eac, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3293123113, 'time': '2023-11-27T08:27:00.045048Z', 'tmms': 1385108839045, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3297, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAEgECOG1dxfF2vNsDCWQ='}]}
0:00:47.690644	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0112, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: db030964)
0:00:47.691645	LOG	Server <---------- DUT
0:00:47.693645	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 012b, FOpts:), FPort: e0, FRMPayload: 08121314), MIC: 21bf9a5b)
0:00:47.695645	LOG	Frame command sent to the DUT
0:00:47.696644	LOG	PULL_RESP: Protocol version = 02, Token = 6152, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3295123113, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YAAAAAAAKwHgJAMYpSG/mls='}}
0:00:47.698678	LOG	Server ----------> DUT
0:00:47.701645	LOG	TX_ACK: 02 6152 05 0016c001ff1025bf
0:00:49.992403	LOG	First uplink received. Open reception window.
0:00:50.107957	LOG	PUSH_ACK: 02 f3c4 01
0:00:50.109967	LOG	GPS Time from gateway: 1385108841454
0:00:50.110962	LOG	PUSH_DATA: Protocol version = 02, Token = f3c4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3295532614, 'time': '2023-11-27T08:27:02.454550Z', 'tmms': 1385108841454, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3293, 'rssi': -50, 'size': 17, 'data': 'QAAAAACAEwHglN5CQHF7+WQ='}]}
0:00:50.111962	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0113, FOpts:), FPort: e0, FRMPayload: 08131415, MIC: 717bf964)
0:00:50.113963	LOG	Server <---------- DUT
0:00:50.114962	LOG	Frame Command Payload in the Answer: 08131415
0:00:50.118963	LOG	Checking if the payload of the EchoPayloadAns is correct
0:00:50.121962	LOG	Send Test Command EchoPayloadReq process completed
0:00:50.125473	LOG	End Test Step: Modify RX1 and RX2 downlink parameters
0:00:50.131512	LOG	Partial Verdict: PASS
0:00:50.135509	LOG	==========
0:00:50.140531	LOG	==========

0:00:50.142497	LOG	Start Test Step: Restore default downlink parameters
0:00:50.153494	LOG	Step 06
0:00:50.158038	LOG	Send RXParamSetupReq process starts
0:00:52.587876	LOG	First uplink received. Open reception window.
0:00:52.696595	LOG	PUSH_ACK: 02 c377 01
0:00:52.698473	LOG	GPS Time from gateway: 1385108844044
0:00:52.699473	LOG	PUSH_DATA: Protocol version = 02, Token = c377, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3298122895, 'time': '2023-11-27T08:27:05.044829Z', 'tmms': 1385108844044, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3286, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAFAECQpQcG141c5vdp7s='}]}
0:00:52.701530	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0114, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9bdda7bb)
0:00:52.703500	LOG	Server <---------- DUT
0:00:52.704507	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 012c, FOpts:), FPort: 00, FRMPayload: 0500d2ad84), MIC: 333ebf4c)
0:00:52.707035	LOG	PULL_RESP: Protocol version = 02, Token = e719, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3300122895, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAALAEAQdkCmKQzPr9M'}}
0:00:52.708074	LOG	Server ----------> DUT
0:00:52.711617	LOG	TX_ACK: 02 e719 05 0016c001ff1025bf
0:00:56.062883	LOG	GPS Time updated: 1385108847519
0:00:56.064849	LOG	PULL_DATA: 02 b5d1 02 0016c001ff1025bf
0:00:56.065849	LOG	PULL_ACK: 02 b5d1 04
0:00:57.586544	LOG	First uplink received. Open reception window.
0:00:57.690092	LOG	PUSH_ACK: 02 db20 01
0:00:57.691957	LOG	GPS Time from gateway: 1385108849044
0:00:57.692956	LOG	PUSH_DATA: Protocol version = 02, Token = db20, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3303122724, 'time': '2023-11-27T08:27:10.044656Z', 'tmms': 1385108849044, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3286, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCFQEFBwLzH+ZcLTXFJIkMPg=='}]}
0:00:57.694957	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0115, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 24890c3e)
0:00:57.695957	LOG	Server <---------- DUT
0:00:57.697957	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:57.698956	LOG	Command Answer: 0507
0:00:57.711202	LOG	MAC command communication completed
0:00:57.715708	LOG	Step 07
0:00:57.719853	LOG	Send Test Command EchoPayloadReq process starts
0:01:02.580933	LOG	#**********CURRENT BEACON SENT**********#
0:01:02.581931	LOG	PULL_RESP: Protocol version = 02, Token = 6884, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385108864000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAFY9SugQAAAAAAAAAAA='}}
0:01:02.583934	LOG	Server ----------> DUT
0:01:02.584934	LOG	#**********#
0:01:02.595097	LOG	#**********NEXT BEACON QUEUED**********#
0:01:02.596096	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385108992000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu':

		'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAFo9S0oAAAAAAAAAAAAA='}}
0:01:02.598064	LOG	Server --------------------> DUT
0:01:02.600116	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 00168f52, CRC1: d280, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385108992000
0:01:02.602074	LOG	#**#
0:01:02.604065	LOG	Next BEACON scheduled at GPS time (ms): 1385109120000
0:01:02.606065	LOG	First uplink received. Open reception window.
0:01:02.607070	LOG	TX_ACK: 02 6884 05 0016c001ff1025bf
0:01:02.707429	LOG	PUSH_ACK: 02 c635 01
0:01:02.709400	LOG	GPS Time from gateway: 1385108854044
0:01:02.710401	LOG	PUSH_DATA: Protocol version = 02, Token = c635, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3308122508, 'time': '2023-11-27T08:27:15.044439Z', 'tmms': 1385108854044, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3282, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCFgEFBwJoRTKOL0b4dpGkTA=='}]}
0:01:02.711401	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0116, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 7691a44c)
0:01:02.713434	LOG	Server <-------------------- DUT
0:01:02.714402	LOG	MAC Command RXParamSetupAns received
0:01:02.716434	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 012d, FOpts:), FPort: e0, FRMPayload: 08010203), MIC: c0d534e9)
0:01:02.717978	LOG	Frame command sent to the DUT
0:01:02.718983	LOG	PULL_RESP: Protocol version = 02, Token = c513, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3309122508, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YAAAAAAALQHgpkTG1sDVNOk='}}
0:01:02.719982	LOG	Server --------------------> DUT
0:01:02.725494	LOG	TX_ACK: 02 c513 05 0016c001ff1025bf
0:01:03.706166	LOG	First uplink received. Open reception window.
0:01:03.820202	LOG	PUSH_ACK: 02 9dd6 01
0:01:03.822206	LOG	GPS Time from gateway: 1385108855165
0:01:03.823712	LOG	PUSH_DATA: Protocol version = 02, Token = 9dd6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3309242990, 'time': '2023-11-27T08:27:16.164923Z', 'tmms': 1385108855165, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3282, 'rssi': -51, 'size': 17, 'data': 'QAAAAACAFwHgoxP++i8NLkI='}]}
0:01:03.824718	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0117, FOpts:), FPort: e0, FRMPayload: 08020304, MIC: 2f0d2e42)
0:01:03.825717	LOG	Server <-------------------- DUT
0:01:03.827749	LOG	Frame Command Payload in the Answer: 08020304
0:01:03.831760	LOG	Checking if the payload of the EchoPayloadAns is correct
0:01:03.834768	LOG	Send Test Command EchoPayloadReq process completed
0:01:03.837769	LOG	Step 08
0:01:03.843893	LOG	Send Test Command EchoPayloadReq process starts
0:01:06.083145	LOG	GPS Time updated: 1385108857542
0:01:06.085149	LOG	PULL_DATA: 02 0eb4 02 0016c001ff1025bf
0:01:06.086148	LOG	PULL_ACK: 02 0eb4 04
0:01:07.582771	LOG	First uplink received. Open reception window.
0:01:07.689406	LOG	PUSH_ACK: 02 d3b3 01
0:01:07.691284	LOG	GPS Time from gateway: 1385108859044
0:01:07.692283	LOG	PUSH_DATA: Protocol version = 02, Token = d3b3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3313122142, 'time': '2023-11-27T08:27:20.044075Z', 'tmms': 1385108859044, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3278, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAGAECjrlJZlkJOGOrNrw='}]}
0:01:07.693284	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0118, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 63ab36bc)
0:01:07.695285	LOG	Server <---------- DUT
0:01:07.696283	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 012e, FOpts:), FPort: e0, FRMPayload: 08121314), MIC: ae331bfb)
0:01:07.698284	LOG	Frame command sent to the DUT
0:01:07.699788	LOG	PULL_RESP: Protocol version = 02, Token = c5e2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3315122142, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YAAAAAAALgHgjNHNF64zG/s='}}
0:01:07.700793	LOG	Server ----------> DUT
0:01:07.703803	LOG	TX_ACK: 02 c5e2 05 0016c001ff1025bf
0:01:10.841378	LOG	First uplink received. Open reception window.
0:01:10.948748	LOG	PUSH_ACK: 02 f25f 01
0:01:10.950750	LOG	GPS Time from gateway: 1385108862302
0:01:10.951750	LOG	PUSH_DATA: Protocol version = 02, Token = f25f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3316380807, 'time': '2023-11-27T08:27:23.302739Z', 'tmms': 1385108862302, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3293, 'rssi': -51, 'size': 17, 'data': 'QAAAAACAGQHgjiZKcFyui4U='}]}
0:01:10.952750	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0119, FOpts:), FPort: e0, FRMPayload: 08131415, MIC: 5cae8b85)
0:01:10.954755	LOG	Server <---------- DUT
0:01:10.955755	LOG	Frame Command Payload in the Answer: 08131415
0:01:10.960757	LOG	Checking if the payload of the EchoPayloadAns is correct
0:01:10.963757	LOG	Send Test Command EchoPayloadReq process completed
0:01:10.966789	LOG	End Test Step: Restore default downlink parameters
0:01:10.970362	LOG	Partial Verdict: PASS
0:01:10.974390	LOG	==========
0:01:10.979365	LOG	==========
0:01:10.982332	LOG	Start Test Step: Verify that the DUT ignores wrong parameters
0:01:10.993361	LOG	Step 09-10
0:01:10.997369	LOG	Send RXParamSetupReq process starts
0:01:16.103895	LOG	GPS Time updated: 1385108867563
0:01:16.104889	LOG	PULL_DATA: 02 d7e1 02 0016c001ff1025bf
0:01:16.106885	LOG	PULL_ACK: 02 d7e1 04
0:01:17.585414	LOG	First uplink received. Open reception window.
0:01:17.688604	LOG	PUSH_ACK: 02 5bb1 01
0:01:17.690572	LOG	GPS Time from gateway: 1385108869043
0:01:17.691572	LOG	PUSH_DATA: Protocol version = 02, Token = 5bb1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3323121653, 'time': '2023-11-27T08:27:30.043584Z', 'tmms': 1385108869043, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3278, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAGgECRTXIxYGI6BwwBhg='}]}
0:01:17.693574	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 011a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1c300618)
0:01:17.694574	LOG	Server <---------- DUT
0:01:17.696573	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 012f, FOpts:), FPort: 00, FRMPayload: 0560c28684), MIC: 8ae614f7)
0:01:17.698573	LOG	PULL_RESP: Protocol version = 02, Token = f945, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3325121653, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAALwEAjn1huNyK5hT3'}}
0:01:17.699572	LOG	Server ----------> DUT

0:01:17.701958	LOG	TX_ACK: 02 f945 05 0016c001ff1025bf
0:01:22.579312	LOG	First uplink received. Open reception window.
0:01:22.693870	LOG	PUSH_ACK: 02 b0a9 01
0:01:22.695751	LOG	GPS Time from gateway: 1385108874043
0:01:22.696751	LOG	PUSH_DATA: Protocol version = 02, Token = b0a9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3328121506, 'time': '2023-11-27T08:27:35.043436Z', 'tmms': 1385108874043, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3278, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCGwEFAwIR1fmnjXaewBpJNg==\'}]}
0:01:22.698752	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 011b, FOpts: 0503), FPort: 02, FRMPayload: 00000001020000, MIC: c01a4936)
0:01:22.699751	LOG	Server <---------- DUT
0:01:22.701768	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:22.702751	LOG	Command Answer: 0503
0:01:22.707260	LOG	MAC command communication completed
0:01:22.712727	LOG	Step 10-11
0:01:22.715757	LOG	Send RXParamSetupReq process starts
0:01:26.313945	LOG	GPS Time updated: 1385108877777
0:01:26.314920	LOG	PULL_DATA: 02 d351 02 0016c001ff1025bf
0:01:26.316916	LOG	PULL_ACK: 02 d351 04
0:01:27.585234	LOG	First uplink received. Open reception window.
0:01:27.690868	LOG	PUSH_ACK: 02 2796 01
0:01:27.692735	LOG	GPS Time from gateway: 1385108879043
0:01:27.694735	LOG	PUSH_DATA: Protocol version = 02, Token = 2796, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3333121242, 'time': '2023-11-27T08:27:40.043171Z', 'tmms': 1385108879043, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3278, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCHAEFAwIT1gQ40F4r5Wx4rw==\'}]}
0:01:27.695735	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 011c, FOpts: 0503), FPort: 02, FRMPayload: 00000001020000, MIC: e56c78af)
0:01:27.697735	LOG	Server <---------- DUT
0:01:27.698735	LOG	MAC Command RXParamSetupAns received
0:01:27.699735	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0130, FOpts:), FPort: 00, FRMPayload: 050cc28684), MIC: 77265ba4)
0:01:27.702250	LOG	PULL_RESP: Protocol version = 02, Token = 90b2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3335121242, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAMAEAc796IYd3Jluk'}}
0:01:27.704302	LOG	Server ----------> DUT
0:01:27.709300	LOG	TX_ACK: 02 90b2 05 0016c001ff1025bf
0:01:32.586642	LOG	First uplink received. Open reception window.
0:01:32.696219	LOG	PUSH_ACK: 02 c8c1 01
0:01:32.698220	LOG	GPS Time from gateway: 1385108884042
0:01:32.699221	LOG	PUSH_DATA: Protocol version = 02, Token = c8c1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3338120988, 'time': '2023-11-27T08:27:45.042915Z', 'tmms': 1385108884042, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3278, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCHQEFBQKXk4/SEWYn8TA5QQ==\'}]}
0:01:32.701190	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 011d, FOpts: 0505), FPort: 02, FRMPayload: 00000001020000, MIC: f1303941)
0:01:32.702225	LOG	Server <---------- DUT
0:01:32.704188	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:32.705222	LOG	Command Answer: 0505
0:01:32.710734	LOG	MAC command communication completed

0:01:32.714740	LOG	Step 11-12
0:01:32.717765	LOG	Send RXParamSetupReq process starts
0:01:36.524448	LOG	GPS Time updated: 1385108887979
0:01:36.525448	LOG	PULL_DATA: 02 fa7b 02 0016c001ff1025bf
0:01:36.527448	LOG	PULL_ACK: 02 fa7b 04
0:01:37.578760	LOG	First uplink received. Open reception window.
0:01:37.685912	LOG	PUSH_ACK: 02 80af 01
0:01:37.687879	LOG	GPS Time from gateway: 1385108889042
0:01:37.689388	LOG	PUSH_DATA: Protocol version = 02, Token = 80af, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3343120728, 'time': '2023-11-27T08:27:50.042655Z', 'tmms': 1385108889042, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3274, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCHgEFBQLdzk/u+U7npWERlA==’}]}
0:01:37.690387	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 011e, FOpts: 0505), FPort: 02, FRMPayload: 00000001020000, MIC: a5611194)
0:01:37.691388	LOG	Server <---------- DUT
0:01:37.693388	LOG	MAC Command RXParamSetupAns received
0:01:37.695388	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0131, FOpts:), FPort: 00, FRMPayload: 0500f0018b), MIC: a1805457)
0:01:37.696388	LOG	PULL_RESP: Protocol version = 02, Token = b831, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3345120728, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAMQEANV0CUPWhgFRX'}}
0:01:37.698388	LOG	Server ----------> DUT
0:01:37.701492	LOG	TX_ACK: 02 b831 05 0016c001ff1025bf
0:01:42.586937	LOG	First uplink received. Open reception window.
0:01:42.696585	LOG	PUSH_ACK: 02 4c5b 01
0:01:42.698507	LOG	GPS Time from gateway: 1385108894042
0:01:42.699515	LOG	PUSH_DATA: Protocol version = 02, Token = 4c5b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3348120474, 'time': '2023-11-27T08:27:55.042399Z', 'tmms': 1385108894042, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3274, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCHwEFBgIciNSCnUa4npF/GQ==’}]}
0:01:42.701516	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 011f, FOpts: 0506), FPort: 02, FRMPayload: 00000001020000, MIC: 9e917f19)
0:01:42.702518	LOG	Server <---------- DUT
0:01:42.704483	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:42.705483	LOG	Command Answer: 0506
0:01:42.710057	LOG	MAC command communication completed
0:01:42.715086	LOG	Step 12
0:01:42.720402	LOG	Send Test Command EchoPayloadReq process starts
0:01:46.724096	LOG	GPS Time updated: 1385108898180
0:01:46.726061	LOG	PULL_DATA: 02 cf13 02 0016c001ff1025bf
0:01:46.727061	LOG	PULL_ACK: 02 cf13 04
0:01:47.578214	LOG	First uplink received. Open reception window.
0:01:47.692471	LOG	PUSH_ACK: 02 916c 01
0:01:47.694325	LOG	GPS Time from gateway: 1385108899042
0:01:47.695358	LOG	PUSH_DATA: Protocol version = 02, Token = 916c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3353120219, 'time': '2023-11-27T08:28:00.042142Z', 'tmms': 1385108899042, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3274, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCIAEFBgK++HQSbzNlzD1FGA==’}]}
0:01:47.696329	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0120, FOpts: 0506), FPort: 02, FRMPayload: 00000001020000, MIC: cc3d4518)
0:01:47.698356	LOG	Server <---------- DUT

0:01:47.699356	LOG	MAC Command RXParamSetupAns received
0:01:47.701358	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0132, FOpts:), FPort: e0, FRMPayload: 08010203), MIC: ac771674)
0:01:47.702896	LOG	Frame command sent to the DUT
0:01:47.703937	LOG	PULL_RESP: Protocol version = 02, Token = e38f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3354120219, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YAAAAAAAMgHgXsJvsax3FnQ='}}
0:01:47.705984	LOG	Server ----------> DUT
0:01:47.709976	LOG	TX_ACK: 02 e38f 05 0016c001ff1025bf
0:01:48.703246	LOG	First uplink received. Open reception window.
0:01:48.807117	LOG	PUSH_ACK: 02 e99f 01
0:01:48.809082	LOG	GPS Time from gateway: 1385108900162
0:01:48.810083	LOG	PUSH_DATA: Protocol version = 02, Token = e99f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3354240184, 'time': '2023-11-27T08:28:01.162109Z', 'tmms': 1385108900162, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3278, 'rssi': -50, 'size': 17, 'data': 'QAAAAACAIQHgKQL1ZUH7fQo='}]}
0:01:48.812081	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0121, FOpts:), FPort: e0, FRMPayload: 08020304, MIC: 41fb7d0a)
0:01:48.813083	LOG	Server <---------- DUT
0:01:48.815169	LOG	Frame Command Payload in the Answer: 08020304
0:01:48.818909	LOG	Checking if the payload of the EchoPayloadAns is correct
0:01:48.822919	LOG	Send Test Command EchoPayloadReq process completed
0:01:48.826956	LOG	Step 13
0:01:48.832964	LOG	Send Test Command EchoPayloadReq process starts
0:01:52.586092	LOG	First uplink received. Open reception window.
0:01:52.702572	LOG	PUSH_ACK: 02 21bc 01
0:01:52.704455	LOG	GPS Time from gateway: 1385108904041
0:01:52.705455	LOG	PUSH_DATA: Protocol version = 02, Token = 21bc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3358119853, 'time': '2023-11-27T08:28:05.041778Z', 'tmms': 1385108904041, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3267, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAIgECus6cszDlHZTCa1w='}]}
0:01:52.706456	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0122, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 94c26b5c)
0:01:52.708455	LOG	Server <---------- DUT
0:01:52.709488	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0133, FOpts:), FPort: e0, FRMPayload: 08121314), MIC: 86069b82)
0:01:52.711488	LOG	Frame command sent to the DUT
0:01:52.713025	LOG	PULL_RESP: Protocol version = 02, Token = 19e9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3360119853, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YAAAAAAAMwHgoCaJhIYGm4I='}}
0:01:52.714063	LOG	Server ----------> DUT
0:01:52.717208	LOG	TX_ACK: 02 19e9 05 0016c001ff1025bf
0:01:55.844734	LOG	First uplink received. Open reception window.
0:01:55.958898	LOG	PUSH_ACK: 02 1b2a 01
0:01:55.960897	LOG	GPS Time from gateway: 1385108907300
0:01:55.961897	LOG	PUSH_DATA: Protocol version = 02, Token = 1b2a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3361378420, 'time': '2023-11-27T08:28:08.300344Z', 'tmms': 1385108907300, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3286, 'rssi': -50, 'size': 17, 'data': 'QAAAAACAIwHgr78BiU7xrOc='}]}
0:01:55.963897	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0123, FOpts:), FPort: e0, FRMPayload: 08131415, MIC: 4ef1ace7)

0:01:55.964897	LOG	Server <---------- DUT
0:01:55.966898	LOG	Frame Command Payload in the Answer: 08131415
0:01:55.969917	LOG	Checking if the payload of the EchoPayloadAns is correct
0:01:55.973940	LOG	Send Test Command EchoPayloadReq process completed
0:01:55.977958	LOG	End Test Step: Verify that the DUT ignores wrong parameters
0:01:55.982962	LOG	Partial Verdict: PASS
0:01:55.986966	LOG	==========
0:01:55.989999	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_008
0:01:55.991982	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_009	
Verdict	PASS	
Date	2023-11-27 09:28:09	
Description		
Technology Version	LCTT v3.11.0_R1 | GUI v2.6.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.3	
Test Specs Version	USv1.5.1/EUv1.6.2/KRv1.2.1/ASv1.1.1/INv1.1.1/ALL_Av1.6/ALL_Cv1.0/ ALL_Bv1.0/SCHCv1.1/ALPv1.0	
Project	ref-stack	
Project Creation Date	2023-10-04 09:10:20	
Sample Parameters		
	Conformance	TRUE

Time Stamp (ms)	Event	Summary
0:00:00.008837	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_009
0:00:00.066228	LOG	==========
0:00:00.069196	LOG	Start Test Step: Device activation
0:00:00.153328	LOG	Activation process has finished successfully
0:00:00.156331	LOG	Data stored in the DUT after Activation:
0:00:00.159330	LOG	DevAddr: 00000000
0:00:00.162350	LOG	AppEUI: 0000000000000000
0:00:00.165349	LOG	NwkSKey: 6bfb58c6a233389e6e66450a9e520a70
0:00:00.168354	LOG	AppSKey: ded4e508ab9cede444c3765e0533fcac
0:00:00.172383	LOG	End Test Step: Device activation
0:00:00.176711	LOG	Partial Verdict: PASS
0:00:00.180711	LOG	==========
0:00:00.185680	LOG	==========
0:00:00.187713	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.196718	LOG	DUT Pre-condition activation process starts
0:00:00.199720	LOG	DUT Pre-condition activation completed
0:00:00.202719	LOG	End Test Step: DUT Pre-condition settings
0:00:00.206258	LOG	Partial Verdict: PASS
0:00:00.210265	LOG	==========
0:00:00.215297	LOG	==========
0:00:00.217265	LOG	Start Test Step: Modify RX1 and RX2 timing to X second delay
0:00:00.227274	LOG	Step 01
0:00:00.231305	LOG	Send RXTimingSetupReq process starts
0:00:04.351246	LOG	PUSH_DATA received while waiting first PULL_DATA
0:00:08.762016	LOG	GPS Time updated: 1385108911711
0:00:08.763498	LOG	PULL_DATA: 02 1f39 02 0016c001ff1025bf
0:00:08.765099	LOG	PULL_ACK: 02 1f39 04
0:00:09.347533	LOG	First uplink received. Open reception window.
0:00:09.460892	LOG	PUSH_ACK: 02 08f3 01
0:00:09.462812	LOG	GPS Time from gateway: 1385108919041

0:00:09.464781	LOG	PUSH_DATA: Protocol version = 02, Token = 08f3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3373119112, 'time': '2023-11-27T08:28:20.041034Z', 'tmms': 1385108919041, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3270, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAJQECjidGw6joRNcLDuc='}]}
0:00:09.465780	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0125, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d70b0ee7)
0:00:09.466781	LOG	Server <---------- DUT
0:00:09.468795	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0134, FOpts:), FPort: 00, FRMPayload: 0803), MIC: 218b75c8)
0:00:09.471287	LOG	PULL_RESP: Protocol version = 02, Token = fb29, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3375119112, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAANAEACO8hi3XI'}}
0:00:09.473292	LOG	Server ----------> DUT
0:00:09.476326	LOG	TX_ACK: 02 fb29 05 0016c001ff1025bf
0:00:14.351400	LOG	First uplink received. Open reception window.
0:00:14.455876	LOG	PUSH_ACK: 02 8a2f 01
0:00:14.457916	LOG	GPS Time from gateway: 1385108924040
0:00:14.458912	LOG	PUSH_DATA: Protocol version = 02, Token = 8a2f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3378118935, 'time': '2023-11-27T08:28:25.040856Z', 'tmms': 1385108924040, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3270, 'rssi': -49, 'size': 21, 'data': 'QAAAAACBJgEIAh1lMRzj2du5o5e6'}]}
0:00:14.459913	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 81, FCnt: 0126, FOpts: 08), FPort: 02, FRMPayload: 00000001020000, MIC: b9a397ba)
0:00:14.461914	LOG	Server <---------- DUT
0:00:14.462881	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:14.464880	LOG	Command Answer: 08
0:00:14.474879	LOG	MAC command communication completed
0:00:14.478880	LOG	Step 02-03
0:00:14.482481	LOG	Expect a MAC answer retransmission
0:00:18.931656	LOG	GPS Time updated: 1385108928620
0:00:18.933661	LOG	PULL_DATA: 02 8952 02 0016c001ff1025bf
0:00:18.934661	LOG	PULL_ACK: 02 8952 04
0:00:19.349140	LOG	First uplink received. Open reception window.
0:00:19.451511	LOG	PUSH_ACK: 02 f184 01
0:00:19.453480	LOG	GPS Time from gateway: 1385108929040
0:00:19.454479	LOG	PUSH_DATA: Protocol version = 02, Token = f184, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3383118684, 'time': '2023-11-27T08:28:30.040604Z', 'tmms': 1385108929040, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3270, 'rssi': -49, 'size': 21, 'data': 'QAAAAACBJwEIAuB9wpdTpYggSkmt'}]}
0:00:19.455984	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 81, FCnt: 0127, FOpts: 08), FPort: 02, FRMPayload: 00000001020000, MIC: 204a49ad)
0:00:19.457989	LOG	Server <---------- DUT
0:00:19.459493	LOG	MAC Command RXTimingSetupAns received
0:00:19.461499	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:19.466610	LOG	MAC answer retransmission completed
0:00:19.470499	LOG	Expect a MAC answer retransmission
0:00:24.352537	LOG	First uplink received. Open reception window.
0:00:24.465203	LOG	PUSH_ACK: 02 cd71 01
0:00:24.467171	LOG	GPS Time from gateway: 1385108934040

0:00:24.468170	LOG	PUSH_DATA: Protocol version = 02, Token = cd71, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3388118465, 'time': '2023-11-27T08:28:35.040383Z', 'tmms': 1385108934040, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3270, 'rssi': -51, 'size': 21, 'data': 'QAAAAACBKAEIAr8l4zOQGup/7MBy'}]}
0:00:24.469171	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 81, FCnt: 0128, FOpts: 08), FPort: 02, FRMPayload: 00000001020000, MIC: 7fecc072)
0:00:24.471171	LOG	Server <---------- DUT
0:00:24.472171	LOG	MAC Command RXTimingSetupAns received
0:00:24.474171	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:24.477682	LOG	MAC answer retransmission completed
0:00:24.481682	LOG	Expect a MAC answer retransmission
0:00:29.022604	LOG	GPS Time updated: 1385108938710
0:00:29.023604	LOG	PULL_DATA: 02 cc03 02 0016c001ff1025bf
0:00:29.025605	LOG	PULL_ACK: 02 cc03 04
0:00:29.347578	LOG	First uplink received. Open reception window.
0:00:29.458280	LOG	PUSH_ACK: 02 2d5d 01
0:00:29.460248	LOG	GPS Time from gateway: 1385108939040
0:00:29.462248	LOG	PUSH_DATA: Protocol version = 02, Token = 2d5d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3393118205, 'time': '2023-11-27T08:28:40.040122Z', 'tmms': 1385108939040, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3267, 'rssi': -50, 'size': 21, 'data': 'QAAAAACBKQEIAtor+rlIGU9yvThx'}]}
0:00:29.463248	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 81, FCnt: 0129, FOpts: 08), FPort: 02, FRMPayload: 00000001020000, MIC: 72bd3871)
0:00:29.465248	LOG	Server <---------- DUT
0:00:29.466752	LOG	MAC Command RXTimingSetupAns received
0:00:29.467758	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:29.471793	LOG	MAC answer retransmission completed
0:00:29.476003	LOG	Step 03-04
0:00:29.482013	LOG	Send Test Command EchoPayloadReq process starts
0:00:34.344837	LOG	First uplink received. Open reception window.
0:00:34.447907	LOG	PUSH_ACK: 02 6f16 01
0:00:34.449875	LOG	GPS Time from gateway: 1385108944039
0:00:34.450874	LOG	PUSH_DATA: Protocol version = 02, Token = 6f16, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3398117947, 'time': '2023-11-27T08:28:45.039862Z', 'tmms': 1385108944039, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.8, 'foff': -3271, 'rssi': -50, 'size': 21, 'data': 'QAAAAACBKgEIAul4helX833dpote'}]}
0:00:34.452888	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 81, FCnt: 012a, FOpts: 08), FPort: 02, FRMPayload: 00000001020000, MIC: dda68b5e)
0:00:34.453878	LOG	Server <---------- DUT
0:00:34.455880	LOG	MAC Command RXTimingSetupAns received
0:00:34.457384	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0135, FOpts:), FPort: e0, FRMPayload: 08010203), MIC: 84dd818d)
0:00:34.459390	LOG	Frame command sent to the DUT
0:00:34.461390	LOG	PULL_RESP: Protocol version = 02, Token = 2d5c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3401117947, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YAAAAAAANQHgEoLJ5YTdgY0='}}
0:00:34.463402	LOG	Server ----------> DUT
0:00:34.466391	LOG	TX_ACK: 02 2d5c 05 0016c001ff1025bf
0:00:37.464913	LOG	First uplink received. Open reception window.
0:00:37.580460	LOG	PUSH_ACK: 02 fc90 01

0:00:37.581965	LOG	GPS Time from gateway: 1385108947159
0:00:37.583970	LOG	PUSH_DATA: Protocol version = 02, Token = fc90, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3401237304, 'time': '2023-11-27T08:28:48.159221Z', 'tmms': 1385108947159, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3270, 'rssi': -50, 'size': 17, 'data': 'QAAAAACAKwHgMIVDe+k3NCg='}]}
0:00:37.584970	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 012b, FOpts:), FPort: e0, FRMPayload: 08020304, MIC: e9373428)
0:00:37.585970	LOG	Server <---------- DUT
0:00:37.587970	LOG	Frame Command Payload in the Answer: 08020304
0:00:37.591674	LOG	Checking if the payload of the EchoPayloadAns is correct
0:00:37.594949	LOG	Send Test Command EchoPayloadReq process completed
0:00:37.597983	LOG	Step 04-05
0:00:37.603021	LOG	Send Test Command EchoPayloadReq process starts
0:00:39.082547	LOG	GPS Time updated: 1385108948777
0:00:39.083511	LOG	PULL_DATA: 02 d34f 02 0016c001ff1025bf
0:00:39.085513	LOG	PULL_ACK: 02 d34f 04
0:00:44.344337	LOG	First uplink received. Open reception window.
0:00:44.458122	LOG	PUSH_ACK: 02 a3ee 01
0:00:44.460089	LOG	GPS Time from gateway: 1385108954039
0:00:44.461089	LOG	PUSH_DATA: Protocol version = 02, Token = a3ee, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3408117339, 'time': '2023-11-27T08:28:55.039252Z', 'tmms': 1385108954039, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3274, 'rssi': -50, 'size': 20, 'data': 'QAAAAACALAECIc9e9TrONFHyQeQ='}]}
0:00:44.462089	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 012c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 51f241e4)
0:00:44.464090	LOG	Server <---------- DUT
0:00:44.466090	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0136, FOpts:), FPort: e0, FRMPayload: 08121314), MIC: 87c25a6c)
0:00:44.467095	LOG	Frame command sent to the DUT
0:00:44.469096	LOG	PULL_RESP: Protocol version = 02, Token = 8a40, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3412117339, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YAAAAAAANgHgXxB0/IfCWmw='}}
0:00:44.470096	LOG	Server ----------> DUT
0:00:44.473095	LOG	TX_ACK: 02 8a40 05 0016c001ff1025bf
0:00:49.093045	LOG	GPS Time updated: 1385108958787
0:00:49.094045	LOG	PULL_DATA: 02 7998 02 0016c001ff1025bf
0:00:49.096048	LOG	PULL_ACK: 02 7998 04
0:00:49.610916	LOG	First uplink received. Open reception window.
0:00:49.724162	LOG	PUSH_ACK: 02 6554 01
0:00:49.726130	LOG	GPS Time from gateway: 1385108959297
0:00:49.727130	LOG	PUSH_DATA: Protocol version = 02, Token = 6554, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3413375859, 'time': '2023-11-27T08:29:00.297772Z', 'tmms': 1385108959297, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3286, 'rssi': -51, 'size': 17, 'data': 'QAAAAACALQHgIxcZIlHP21Q='}]}
0:00:49.728136	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 012d, FOpts:), FPort: e0, FRMPayload: 08131415, MIC: 51cfdb54)
0:00:49.730135	LOG	Server <---------- DUT
0:00:49.731136	LOG	Frame Command Payload in the Answer: 08131415
0:00:49.736135	LOG	Checking if the payload of the EchoPayloadAns is correct
0:00:49.739650	LOG	Send Test Command EchoPayloadReq process completed
0:00:49.746897	LOG	End Test Step: Modify RX1 and RX2 timing to X second delay
0:00:49.753213	LOG	Partial Verdict: PASS

0:00:49.757736	LOG	==========
0:00:49.761736	LOG	==========
0:00:49.763737	LOG	Start Test Step: Modify RX1 and RX2 timing to 2 second delay
0:00:49.775248	LOG	Step 05
0:00:49.780248	LOG	Send RXTimingSetupReq process starts
0:00:54.347715	LOG	First uplink received. Open reception window.
0:00:54.452283	LOG	PUSH_ACK: 02 3c84 01
0:00:54.454250	LOG	GPS Time from gateway: 1385108964038
0:00:54.455251	LOG	PUSH_DATA: Protocol version = 02, Token = 3c84, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3418116821, 'time': '2023-11-27T08:29:05.038734Z', 'tmms': 1385108964038, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3274, 'rssi': -51, 'size': 20, 'data': 'QAAAAACALgECemsasGcrzjjCTEc='}]}
0:00:54.456251	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 012e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 38c24c47)
0:00:54.458373	LOG	Server <---------- DUT
0:00:54.460376	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0137, FOpts:), FPort: 00, FRMPayload: 0802), MIC: 4002e0f4)
0:00:54.462379	LOG	PULL_RESP: Protocol version = 02, Token = f091, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3422116821, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAANwEAm5VAAuD0'}}
0:00:54.464424	LOG	Server ----------> DUT
0:00:54.467494	LOG	TX_ACK: 02 f091 05 0016c001ff1025bf
0:00:59.292872	LOG	GPS Time updated: 1385108968984
0:00:59.293840	LOG	PULL_DATA: 02 7717 02 0016c001ff1025bf
0:00:59.296349	LOG	PULL_ACK: 02 7717 04
0:01:04.347658	LOG	First uplink received. Open reception window.
0:01:04.453512	LOG	PUSH_ACK: 02 7401 01
0:01:04.455512	LOG	GPS Time from gateway: 1385108974038
0:01:04.456513	LOG	PUSH_DATA: Protocol version = 02, Token = 7401, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3428116386, 'time': '2023-11-27T08:29:15.038297Z', 'tmms': 1385108974038, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3278, 'rssi': -50, 'size': 21, 'data': 'QAAAAACBLwEIArhZS38p7OnR3r1q'}]}
0:01:04.458595	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 81, FCnt: 012f, FOpts: 08), FPort: 02, FRMPayload: 00000001020000, MIC: d1debd6a)
0:01:04.459596	LOG	Server <---------- DUT
0:01:04.461596	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:04.463600	LOG	Command Answer: 08
0:01:04.476525	LOG	MAC command communication completed
0:01:04.479806	LOG	Step 06-07
0:01:04.482848	LOG	Expect a MAC answer retransmission
0:01:09.349857	LOG	First uplink received. Open reception window.
0:01:09.373030	LOG	PULL_DATA: 02 8537 02 0016c001ff1025bf
0:01:09.374998	LOG	PULL_ACK: 02 8537 04
0:01:09.464097	LOG	PUSH_ACK: 02 6a65 01
0:01:09.465965	LOG	GPS Time from gateway: 1385108979038
0:01:09.466964	LOG	PUSH_DATA: Protocol version = 02, Token = 6a65, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3433116139, 'time': '2023-11-27T08:29:20.038049Z', 'tmms': 1385108979038, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3278, 'rssi': -50, 'size': 21, 'data': 'QAAAAACBMAEIAgYVADcbfjpLhXl/'}]}
0:01:09.467965	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 81, FCnt: 0130, FOpts: 08), FPort: 02, FRMPayload: 00000001020000, MIC: 4b85797f)

0:01:09.469965	LOG	Server <---------- DUT
0:01:09.470965	LOG	MAC Command RXTimingSetupAns received
0:01:09.472965	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:09.476495	LOG	MAC answer retransmission completed
0:01:09.479505	LOG	Expect a MAC answer retransmission
0:01:14.351021	LOG	#**********CURRENT BEACON SENT**********#
0:01:14.352011	LOG	PULL_RESP: Protocol version = 02, Token = fb40, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385108992000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAFo9S0oAAAAAAAAAAAA='}}
0:01:14.353979	LOG	Server ----------> DUT
0:01:14.354984	LOG	#**********#
0:01:14.364485	LOG	#**********NEXT BEACON QUEUED**********#
0:01:14.366491	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385109120000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAFo9S6l0AAAAAAAAAAA='}}
0:01:14.368491	LOG	Server ----------> DUT
0:01:14.369490	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 80168f52, CRC1: ea5d, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385109120000
0:01:14.371492	LOG	#**********#
0:01:14.372490	LOG	Next BEACON scheduled at GPS time (ms): 1385109248000
0:01:14.374490	LOG	First uplink received. Open reception window.
0:01:14.375490	LOG	TX_ACK: 02 fb40 05 0016c001ff1025bf
0:01:14.487143	LOG	PUSH_ACK: 02 d6b8 01
0:01:14.489104	LOG	GPS Time from gateway: 1385108984037
0:01:14.490687	LOG	PUSH_DATA: Protocol version = 02, Token = d6b8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3438115882, 'time': '2023-11-27T08:29:25.037792Z', 'tmms': 1385108984037, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3271, 'rssi': -50, 'size': 21, 'data': 'QAAAAACBMQEIAmIYX4xrZl0j++xq'}]}
0:01:14.492684	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 81, FCnt: 0131, FOpts: 08), FPort: 02, FRMPayload: 00000001020000, MIC: 23fbec6a)
0:01:14.493715	LOG	Server <---------- DUT
0:01:14.495684	LOG	MAC Command RXTimingSetupAns received
0:01:14.496723	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:14.500698	LOG	MAC answer retransmission completed
0:01:14.503723	LOG	Expect a MAC answer retransmission
0:01:19.352255	LOG	First uplink received. Open reception window.
0:01:19.393421	LOG	PULL_DATA: 02 bb7e 02 0016c001ff1025bf
0:01:19.395388	LOG	PULL_ACK: 02 bb7e 04
0:01:19.462395	LOG	PUSH_ACK: 02 51a2 01
0:01:19.464282	LOG	GPS Time from gateway: 1385108989037
0:01:19.465281	LOG	PUSH_DATA: Protocol version = 02, Token = 51a2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3443115614, 'time': '2023-11-27T08:29:30.037522Z', 'tmms': 1385108989037, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3270, 'rssi': -51, 'size': 21, 'data': 'QAAAAACBMgEIApaPcPSlDRENq3jJ'}]}

0:01:19.466282	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 81, FCnt: 0132, FOpts: 08), FPort: 02, FRMPayload: 00000001020000, MIC: 0dab78c9)
0:01:19.468282	LOG	Server <---------- DUT
0:01:19.469282	LOG	MAC Command RXTimingSetupAns received
0:01:19.471283	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:19.474799	LOG	MAC answer retransmission completed
0:01:19.478833	LOG	Step 07-08
0:01:19.484373	LOG	Send Test Command EchoPayloadReq process starts
0:01:24.351326	LOG	First uplink received. Open reception window.
0:01:24.466807	LOG	PUSH_ACK: 02 002b 01
0:01:24.468771	LOG	GPS Time from gateway: 1385108994037
0:01:24.469772	LOG	PUSH_DATA: Protocol version = 02, Token = 002b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3448115360, 'time': '2023-11-27T08:29:35.037268Z', 'tmms': 1385108994037, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3271, 'rssi': -51, 'size': 21, 'data': 'QAAAAACBMwEIAnqqaGDIJYvG6N+k'}]}
0:01:24.470772	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 81, FCnt: 0133, FOpts: 08), FPort: 02, FRMPayload: 00000001020000, MIC: c6e8dfa4)
0:01:24.472773	LOG	Server <---------- DUT
0:01:24.473772	LOG	MAC Command RXTimingSetupAns received
0:01:24.475805	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0138, FOpts:), FPort: e0, FRMPayload: 08010203), MIC: 8aacfb1b)
0:01:24.477343	LOG	Frame command sent to the DUT
0:01:24.478381	LOG	PULL_RESP: Protocol version = 02, Token = 67d3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3450115360, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YAAAAAAAOAHgCfMw2Yqs+xs='}}
0:01:24.480382	LOG	Server ----------> DUT
0:01:24.482391	LOG	TX_ACK: 02 67d3 05 0016c001ff1025bf
0:01:26.469679	LOG	First uplink received. Open reception window.
0:01:26.584705	LOG	PUSH_ACK: 02 95fc 01
0:01:26.586672	LOG	GPS Time from gateway: 1385108996157
0:01:26.587674	LOG	PUSH_DATA: Protocol version = 02, Token = 95fc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3450235595, 'time': '2023-11-27T08:29:37.157503Z', 'tmms': 1385108996157, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3270, 'rssi': -51, 'size': 17, 'data': 'QAAAAACANAHg9g0qBIVaHTo='}]}
0:01:26.589690	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0134, FOpts:), FPort: e0, FRMPayload: 08020304, MIC: 855a1d3a)
0:01:26.590673	LOG	Server <---------- DUT
0:01:26.592708	LOG	Frame Command Payload in the Answer: 08020304
0:01:26.596714	LOG	Checking if the payload of the EchoPayloadAns is correct
0:01:26.600683	LOG	Send Test Command EchoPayloadReq process completed
0:01:26.604683	LOG	Step 08-09
0:01:26.609714	LOG	Send Test Command EchoPayloadReq process starts
0:01:29.513178	LOG	GPS Time updated: 1385108999201
0:01:29.515178	LOG	PULL_DATA: 02 4b5f 02 0016c001ff1025bf
0:01:29.517012	LOG	PULL_ACK: 02 4b5f 04
0:01:34.345830	LOG	First uplink received. Open reception window.
0:01:34.455311	LOG	PUSH_ACK: 02 56c4 01
0:01:34.457279	LOG	GPS Time from gateway: 1385109004036
0:01:34.458784	LOG	PUSH_DATA: Protocol version = 02, Token = 56c4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3458114747, 'time': '2023-11-27T08:29:45.036651Z', 'tmms': 1385109004036, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3267, 'rssi': -50, 'size': 20, 'data': 'QAAAAACANQECbNMwPENX68QdRmI='}]}
0:01:34.459789	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0135, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c41d4662)
0:01:34.461790	LOG	Server <---------- DUT
0:01:34.463790	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0139, FOpts:), FPort: e0, FRMPayload: 08121314), MIC: a90e4073)
0:01:34.465795	LOG	Frame command sent to the DUT
0:01:34.467791	LOG	PULL_RESP: Protocol version = 02, Token = bd82, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3461114747, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YAAAAAAAOQHg63UqXakOQHM='}}
0:01:34.468825	LOG	Server ----------> DUT
0:01:34.471834	LOG	TX_ACK: 02 bd82 05 0016c001ff1025bf
0:01:38.602298	LOG	First uplink received. Open reception window.
0:01:38.711594	LOG	PUSH_ACK: 02 f7bb 01
0:01:38.713892	LOG	GPS Time from gateway: 1385109008294
0:01:38.714891	LOG	PUSH_DATA: Protocol version = 02, Token = f7bb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3462372954, 'time': '2023-11-27T08:29:49.294860Z', 'tmms': 1385109008294, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3293, 'rssi': -50, 'size': 17, 'data': 'QAAAAACANgHgtcbmtaYAixg='}]}
0:01:38.715892	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0136, FOpts:), FPort: e0, FRMPayload: 08131415, MIC: a6008b18)
0:01:38.717891	LOG	Server <---------- DUT
0:01:38.719590	LOG	Frame Command Payload in the Answer: 08131415
0:01:38.724148	LOG	Checking if the payload of the EchoPayloadAns is correct
0:01:38.728041	LOG	Send Test Command EchoPayloadReq process completed
0:01:38.731009	LOG	End Test Step: Modify RX1 and RX2 timing to 2 second delay
0:01:38.735388	LOG	Partial Verdict: PASS
0:01:38.739777	LOG	==========
0:01:38.748173	LOG	==========
0:01:38.752118	LOG	Start Test Step: Modify RX1 and RX2 timing to 15 second delay
0:01:38.767005	LOG	Step 09
0:01:38.771420	LOG	Send RXTimingSetupReq process starts
0:01:39.713618	LOG	GPS Time updated: 1385109009405
0:01:39.715583	LOG	PULL_DATA: 02 1933 02 0016c001ff1025bf
0:01:39.717584	LOG	PULL_ACK: 02 1933 04
0:01:44.342139	LOG	First uplink received. Open reception window.
0:01:44.445642	LOG	PUSH_ACK: 02 40a6 01
0:01:44.447610	LOG	GPS Time from gateway: 1385109014036
0:01:44.448609	LOG	PUSH_DATA: Protocol version = 02, Token = 40a6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3468114274, 'time': '2023-11-27T08:29:55.036178Z', 'tmms': 1385109014036, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3267, 'rssi': -50, 'size': 20, 'data': 'QAAAAACANwECQSqzHVr9igHzXu0='}]}
0:01:44.449615	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0137, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 01f35eed)
0:01:44.451614	LOG	Server <---------- DUT
0:01:44.453614	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 013a, FOpts:), FPort: 00, FRMPayload: 080f), MIC: c2c13eae)
0:01:44.454614	LOG	PULL_RESP: Protocol version = 02, Token = a743, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3471114274, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAOgEATY/CwT6u'}}
0:01:44.456615	LOG	Server ----------> DUT

0:01:44.460227	LOG	TX_ACK: 02 a743 05 0016c001ff1025bf
0:01:49.343429	LOG	First uplink received. Open reception window.
0:01:49.451794	LOG	PUSH_ACK: 02 78b7 01
0:01:49.453793	LOG	GPS Time from gateway: 1385109019035
0:01:49.454795	LOG	PUSH_DATA: Protocol version = 02, Token = 78b7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3473114102, 'time': '2023-11-27T08:30:00.036005Z', 'tmms': 1385109019035, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3278, 'rssi': -50, 'size': 21, 'data': 'QAAAAACBOAEIAsh+irJhFni++WZe'}]}
0:01:49.456762	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 81, FCnt: 0138, FOpts: 08), FPort: 02, FRMPayload: 00000001020000, MIC: bef9665e)
0:01:49.457762	LOG	Server <---------- DUT
0:01:49.459267	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:49.461286	LOG	Command Answer: 08
0:01:49.474272	LOG	MAC command communication completed
0:01:49.477847	LOG	Step 10-11
0:01:49.481852	LOG	Expect a MAC answer retransmission
0:01:49.914054	LOG	GPS Time updated: 1385109019606
0:01:49.916022	LOG	PULL_DATA: 02 beec 02 0016c001ff1025bf
0:01:49.917054	LOG	PULL_ACK: 02 beec 04
0:01:59.994324	LOG	GPS Time updated: 1385109029686
0:01:59.995324	LOG	PULL_DATA: 02 513d 02 0016c001ff1025bf
0:01:59.997331	LOG	PULL_ACK: 02 513d 04
0:02:09.342158	LOG	First uplink received. Open reception window.
0:02:09.456920	LOG	PUSH_ACK: 02 5f27 01
0:02:09.458921	LOG	GPS Time from gateway: 1385109039034
0:02:09.459921	LOG	PUSH_DATA: Protocol version = 02, Token = 5f27, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3493113096, 'time': '2023-11-27T08:30:20.034996Z', 'tmms': 1385109039034, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3278, 'rssi': -51, 'size': 21, 'data': 'QAAAAACBOQEIAu9ouIZC6Zi6yNoX'}]}
0:02:09.462002	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 81, FCnt: 0139, FOpts: 08), FPort: 02, FRMPayload: 00000001020000, MIC: bac8da17)
0:02:09.463001	LOG	Server <---------- DUT
0:02:09.465002	LOG	MAC Command RXTimingSetupAns received
0:02:09.467037	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:09.471585	LOG	MAC answer retransmission completed
0:02:09.474917	LOG	Expect a MAC answer retransmission
0:02:10.074306	LOG	GPS Time updated: 1385109039766
0:02:10.076311	LOG	PULL_DATA: 02 f6b1 02 0016c001ff1025bf
0:02:10.078139	LOG	PULL_ACK: 02 f6b1 04
0:02:20.164713	LOG	GPS Time updated: 1385109049856
0:02:20.166682	LOG	PULL_DATA: 02 c9b1 02 0016c001ff1025bf
0:02:20.167682	LOG	PULL_ACK: 02 c9b1 04
0:02:29.341600	LOG	First uplink received. Open reception window.
0:02:29.450530	LOG	PUSH_ACK: 02 dcc4 01
0:02:29.452499	LOG	GPS Time from gateway: 1385109059033
0:02:29.453498	LOG	PUSH_DATA: Protocol version = 02, Token = dcc4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3513112068, 'time': '2023-11-27T08:30:40.033962Z', 'tmms': 1385109059033, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3259, 'rssi': -49, 'size': 21, 'data': 'QAAAAACBOgEIAiJakKb3VY0wwgYx'}]}
0:02:29.455537	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 81, FCnt: 013a, FOpts: 08), FPort: 02, FRMPayload: 00000001020000, MIC: 30c20631)

0:02:29.456536	LOG	Server <---------- DUT
0:02:29.458537	LOG	MAC Command RXTimingSetupAns received
0:02:29.459536	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:29.464622	LOG	MAC answer retransmission completed
0:02:29.469623	LOG	Expect a MAC answer retransmission
0:02:30.245323	LOG	GPS Time updated: 1385109059938
0:02:30.246323	LOG	PULL_DATA: 02 c698 02 0016c001ff1025bf
0:02:30.248327	LOG	PULL_ACK: 02 c698 04
0:02:40.325882	LOG	GPS Time updated: 1385109070018
0:02:40.326882	LOG	PULL_DATA: 02 2c11 02 0016c001ff1025bf
0:02:40.328885	LOG	PULL_ACK: 02 2c11 04
0:02:49.348498	LOG	First uplink received. Open reception window.
0:02:49.454069	LOG	PUSH_ACK: 02 f783 01
0:02:49.456038	LOG	GPS Time from gateway: 1385109079032
0:02:49.457036	LOG	PUSH_DATA: Protocol version = 02, Token = f783, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3533111068, 'time': '2023-11-27T08:31:00.032961Z', 'tmms': 1385109079032, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3274, 'rssi': -49, 'size': 21, 'data': 'QAAAAACBOwEIAgLyQXhnFd+6ylbC'}]}
0:02:49.458041	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 81, FCnt: 013b, FOpts: 08), FPort: 02, FRMPayload: 00000001020000, MIC: baca56c2)
0:02:49.460041	LOG	Server <---------- DUT
0:02:49.461554	LOG	MAC Command RXTimingSetupAns received
0:02:49.463560	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:49.468539	LOG	MAC answer retransmission completed
0:02:49.472571	LOG	Step 11-12
0:02:49.478114	LOG	Send Test Command EchoPayloadReq process starts
0:02:50.405796	LOG	GPS Time updated: 1385109080089
0:02:50.406800	LOG	PULL_DATA: 02 d6ee 02 0016c001ff1025bf
0:02:50.408801	LOG	PULL_ACK: 02 d6ee 04
0:03:00.506197	LOG	GPS Time updated: 1385109090189
0:03:00.507197	LOG	PULL_DATA: 02 217e 02 0016c001ff1025bf
0:03:00.509197	LOG	PULL_ACK: 02 217e 04
0:03:09.344694	LOG	First uplink received. Open reception window.
0:03:09.454861	LOG	PUSH_ACK: 02 9599 01
0:03:09.456864	LOG	GPS Time from gateway: 1385109099031
0:03:09.457897	LOG	PUSH_DATA: Protocol version = 02, Token = 9599, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3553110038, 'time': '2023-11-27T08:31:20.031927Z', 'tmms': 1385109099031, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3267, 'rssi': -50, 'size': 21, 'data': 'QAAAAACBPAEIApdnD0QRiZw0qVV4'}]}
0:03:09.458895	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 81, FCnt: 013c, FOpts: 08), FPort: 02, FRMPayload: 00000001020000, MIC: 34a95578)
0:03:09.460874	LOG	Server <---------- DUT
0:03:09.461898	LOG	MAC Command RXTimingSetupAns received
0:03:09.463993	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 013b, FOpts:), FPort: e0, FRMPayload: 08010203), MIC: b30e702d)
0:03:09.465993	LOG	Frame command sent to the DUT
0:03:09.468037	LOG	PULL_RESP: Protocol version = 02, Token = 6a5f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3568110038, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YAAAAAAAOwHgsYy5SLMOcC0='}}
0:03:09.470093	LOG	Server ----------> DUT
0:03:09.473024	LOG	TX_ACK: 02 6a5f 05 0016c001ff1025bf

0:03:10.515829	LOG	GPS Time updated: 1385109100203
0:03:10.517831	LOG	PULL_DATA: 02 3653 02 0016c001ff1025bf
0:03:10.519406	LOG	PULL_ACK: 02 3653 04
0:03:20.616728	LOG	#**********CURRENT BEACON SENT**********#
0:03:20.618698	LOG	PULL_RESP: Protocol version = 02, Token = cba7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385109120000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAFo9S6l0AAAAAAAAAAA='}}
0:03:20.619729	LOG	Server ----------> DUT
0:03:20.621733	LOG	#**********#
0:03:20.630769	LOG	#**********NEXT BEACON QUEUED**********#
0:03:20.632769	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385109248000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAF49S4rcAAAAAAAAAAA='}}
0:03:20.633768	LOG	Server ----------> DUT
0:03:20.634769	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 00178f52, CRC1: e2b7, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385109248000
0:03:20.636768	LOG	#**********#
0:03:20.637768	LOG	Next BEACON scheduled at GPS time (ms): 1385109376000
0:03:20.638768	LOG	GPS Time updated: 1385109110326
0:03:20.640278	LOG	PULL_DATA: 02 85ee 02 0016c001ff1025bf
0:03:20.642284	LOG	PULL_ACK: 02 85ee 04
0:03:20.644284	LOG	TX_ACK: 02 cba7 05 0016c001ff1025bf
0:03:26.113699	LOG	First uplink received. Open reception window.
0:03:26.217039	LOG	PUSH_ACK: 02 7bd6 01
0:03:26.219007	LOG	GPS Time from gateway: 1385109115801
0:03:26.220006	LOG	PUSH_DATA: Protocol version = 02, Token = 7bd6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3569879373, 'time': '2023-11-27T08:31:36.801259Z', 'tmms': 1385109115801, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3267, 'rssi': -51, 'size': 17, 'data': 'QAAAAACAPQHgK1Y7iE4pkdY='}]}
0:03:26.221006	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 013d, FOpts:), FPort: e0, FRMPayload: 08020304, MIC: 4e2991d6)
0:03:26.223007	LOG	Server <---------- DUT
0:03:26.224006	LOG	Frame Command Payload in the Answer: 08020304
0:03:26.229018	LOG	Checking if the payload of the EchoPayloadAns is correct
0:03:26.232581	LOG	Send Test Command EchoPayloadReq process completed
0:03:26.236324	LOG	Step 12-13
0:03:26.241321	LOG	Send Test Command EchoPayloadReq process starts
0:03:30.716400	LOG	GPS Time updated: 1385109120404
0:03:30.718409	LOG	PULL_DATA: 02 fd22 02 0016c001ff1025bf
0:03:30.719370	LOG	PULL_ACK: 02 fd22 04
0:03:40.797587	LOG	GPS Time updated: 1385109130485
0:03:40.798587	LOG	PULL_DATA: 02 8cc7 02 0016c001ff1025bf
0:03:40.800603	LOG	PULL_ACK: 02 8cc7 04
0:03:44.346325	LOG	First uplink received. Open reception window.
0:03:44.460010	LOG	PUSH_ACK: 02 d3bb 01
0:03:44.461976	LOG	GPS Time from gateway: 1385109134029
0:03:44.463479	LOG	PUSH_DATA: Protocol version = 02, Token = d3bb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3588108137, 'time': '2023-11-27T08:31:55.030019Z',

		'tmms': 1385109134029, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3259, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAPgECXPOfsjdi1MeNG9g='}]}
0:03:44.464485	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 013e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c78d1bd8)
0:03:44.466495	LOG	Server <---------- DUT
0:03:44.468487	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 013c, FOpts:), FPort: e0, FRMPayload: 08121314), MIC: 1d38eb60)
0:03:44.470485	LOG	Frame command sent to the DUT
0:03:44.472486	LOG	PULL_RESP: Protocol version = 02, Token = d721, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3604108137, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YAAAAAAAPAHgZifobR0462A='}}
0:03:44.474502	LOG	Server ----------> DUT
0:03:44.477485	LOG	TX_ACK: 02 d721 05 0016c001ff1025bf
0:03:50.997344	LOG	GPS Time updated: 1385109140680
0:03:50.998344	LOG	PULL_DATA: 02 90b0 02 0016c001ff1025bf
0:03:51.000347	LOG	PULL_ACK: 02 90b0 04
0:04:01.077112	LOG	GPS Time updated: 1385109150760
0:04:01.079077	LOG	PULL_DATA: 02 48ac 02 0016c001ff1025bf
0:04:01.080077	LOG	PULL_ACK: 02 48ac 04
0:04:01.607761	LOG	First uplink received. Open reception window.
0:04:01.712820	LOG	PUSH_ACK: 02 683f 01
0:04:01.714291	LOG	GPS Time from gateway: 1385109151288
0:04:01.716297	LOG	PUSH_DATA: Protocol version = 02, Token = 683f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3605367065, 'time': '2023-11-27T08:32:12.288944Z', 'tmms': 1385109151288, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3267, 'rssi': -49, 'size': 17, 'data': 'QAAAAACAPwHgvvvCtevFw2w='}]}
0:04:01.717296	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 013f, FOpts:), FPort: e0, FRMPayload: 08131415, MIC: ebc5c36c)
0:04:01.718297	LOG	Server <---------- DUT
0:04:01.720300	LOG	Frame Command Payload in the Answer: 08131415
0:04:01.725305	LOG	Checking if the payload of the EchoPayloadAns is correct
0:04:01.728336	LOG	Send Test Command EchoPayloadReq process completed
0:04:01.731377	LOG	End Test Step: Modify RX1 and RX2 timing to 15 second delay
0:04:01.735380	LOG	Partial Verdict: PASS
0:04:01.738377	LOG	==========
0:04:01.742382	LOG	==========
0:04:01.744919	LOG	Start Test Step: Restore default settings
0:04:01.757926	LOG	Step 13-14
0:04:01.761982	LOG	Send RXTimingSetupReq process starts
0:04:11.158321	LOG	GPS Time updated: 1385109160839
0:04:11.159322	LOG	PULL_DATA: 02 2f3e 02 0016c001ff1025bf
0:04:11.161323	LOG	PULL_ACK: 02 2f3e 04
0:04:19.347131	LOG	First uplink received. Open reception window.
0:04:19.449586	LOG	PUSH_ACK: 02 2d6e 01
0:04:19.451552	LOG	GPS Time from gateway: 1385109169028
0:04:19.452552	LOG	PUSH_DATA: Protocol version = 02, Token = 2d6e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3623106331, 'time': '2023-11-27T08:32:30.028207Z', 'tmms': 1385109169028, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3247, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAQAECDEasPlMXXYE8IAA='}]}
0:04:19.454556	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0140, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 813c2000)
0:04:19.455589	LOG	Server <---------- DUT

0:04:19.457593	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 013d, FOpts:), FPort: 00, FRMPayload: 0800), MIC: 3fc3a85c)
0:04:19.459585	LOG	PULL_RESP: Protocol version = 02, Token = 3830, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3639106331, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAPQEAobA/w6hc'}}
0:04:19.460590	LOG	Server ----------> DUT
0:04:19.464061	LOG	TX_ACK: 02 3830 05 0016c001ff1025bf
0:04:21.347584	LOG	GPS Time updated: 1385109171028
0:04:21.349552	LOG	PULL_DATA: 02 2d4e 02 0016c001ff1025bf
0:04:21.350553	LOG	PULL_ACK: 02 2d4e 04
0:04:31.438154	LOG	GPS Time updated: 1385109181119
0:04:31.439119	LOG	PULL_DATA: 02 e822 02 0016c001ff1025bf
0:04:31.441119	LOG	PULL_ACK: 02 e822 04
0:04:39.343128	LOG	First uplink received. Open reception window.
0:04:39.459888	LOG	PUSH_ACK: 02 166d 01
0:04:39.461856	LOG	GPS Time from gateway: 1385109189027
0:04:39.462888	LOG	PUSH_DATA: Protocol version = 02, Token = 166d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3643105382, 'time': '2023-11-27T08:32:50.027252Z', 'tmms': 1385109189027, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3259, 'rssi': -51, 'size': 21, 'data': 'QAAAAACBQQEIAlgt7kuVBE5n0uL3'}]}
0:04:39.463887	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 81, FCnt: 0141, FOpts: 08), FPort: 02, FRMPayload: 00000001020000, MIC: 67d2e2f7)
0:04:39.466029	LOG	Server <---------- DUT
0:04:39.467995	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:04:39.469026	LOG	Command Answer: 08
0:04:39.481272	LOG	MAC command communication completed
0:04:39.483818	LOG	Step 14-15
0:04:39.488208	LOG	Expect a MAC answer retransmission
0:04:41.518182	LOG	GPS Time updated: 1385109191202
0:04:41.519685	LOG	PULL_DATA: 02 1191 02 0016c001ff1025bf
0:04:41.521691	LOG	PULL_ACK: 02 1191 04
0:04:44.341127	LOG	First uplink received. Open reception window.
0:04:44.445711	LOG	PUSH_ACK: 02 443d 01
0:04:44.447672	LOG	GPS Time from gateway: 1385109194026
0:04:44.448672	LOG	PUSH_DATA: Protocol version = 02, Token = 443d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3648105135, 'time': '2023-11-27T08:32:55.027007Z', 'tmms': 1385109194026, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3248, 'rssi': -51, 'size': 21, 'data': 'QAAAAACBQgEIAvkqG/Dl0U/7of2N'}]}
0:04:44.450678	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 81, FCnt: 0142, FOpts: 08), FPort: 02, FRMPayload: 00000001020000, MIC: fba1fd8d)
0:04:44.451678	LOG	Server <---------- DUT
0:04:44.453679	LOG	MAC Command RXTimingSetupAns received
0:04:44.454678	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:04:44.458679	LOG	MAC answer retransmission completed
0:04:44.462681	LOG	Expect a MAC answer retransmission
0:04:49.337379	LOG	First uplink received. Open reception window.
0:04:49.448807	LOG	PUSH_ACK: 02 6c41 01
0:04:49.450878	LOG	GPS Time from gateway: 1385109199026
0:04:49.451878	LOG	PUSH_DATA: Protocol version = 02, Token = 6c41, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3653104872, 'time': '2023-11-27T08:33:00.026742Z', 'tmms': 1385109199026, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3244, 'rssi': -51, 'size': 21, 'data': 'QAAAAACBQwEIAtu9/GUIoJkgfhbt'}]}
0:04:49.452879	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 81, FCnt: 0143, FOpts: 08), FPort: 02, FRMPayload: 00000001020000, MIC: 207e16ed)
0:04:49.454846	LOG	Server <---------- DUT
0:04:49.455845	LOG	MAC Command RXTimingSetupAns received
0:04:49.457846	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:04:49.461847	LOG	MAC answer retransmission completed
0:04:49.465382	LOG	Expect a MAC answer retransmission
0:04:51.598434	LOG	GPS Time updated: 1385109201287
0:04:51.600434	LOG	PULL_DATA: 02 5ff8 02 0016c001ff1025bf
0:04:51.601438	LOG	PULL_ACK: 02 5ff8 04
0:04:54.345241	LOG	First uplink received. Open reception window.
0:04:54.453206	LOG	PUSH_ACK: 02 0832 01
0:04:54.455203	LOG	GPS Time from gateway: 1385109204026
0:04:54.456203	LOG	PUSH_DATA: Protocol version = 02, Token = 0832, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3658104608, 'time': '2023-11-27T08:33:05.026478Z', 'tmms': 1385109204026, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3247, 'rssi': -51, 'size': 21, 'data': 'QAAAAACBRAEIApNwBbXcReaF9r/8'}]}
0:04:54.457203	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 81, FCnt: 0144, FOpts: 08), FPort: 02, FRMPayload: 00000001020000, MIC: 85f6bffc)
0:04:54.459172	LOG	Server <---------- DUT
0:04:54.460170	LOG	MAC Command RXTimingSetupAns received
0:04:54.462171	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:04:54.465737	LOG	MAC answer retransmission completed
0:04:54.470744	LOG	Step 15-16
0:04:54.477742	LOG	Send Test Command EchoPayloadReq process starts
0:04:59.339140	LOG	First uplink received. Open reception window.
0:04:59.447053	LOG	PUSH_ACK: 02 e234 01
0:04:59.449052	LOG	GPS Time from gateway: 1385109209026
0:04:59.450052	LOG	PUSH_DATA: Protocol version = 02, Token = e234, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3663104354, 'time': '2023-11-27T08:33:10.026223Z', 'tmms': 1385109209026, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3244, 'rssi': -51, 'size': 21, 'data': 'QAAAAACBRQEIAvQkFYvIXyAn+csF'}]}
0:04:59.451056	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 81, FCnt: 0145, FOpts: 08), FPort: 02, FRMPayload: 00000001020000, MIC: 27f9cb05)
0:04:59.453056	LOG	Server <---------- DUT
0:04:59.454056	LOG	MAC Command RXTimingSetupAns received
0:04:59.456057	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 013e, FOpts:), FPort: e0, FRMPayload: 08010203), MIC: beba6843)
0:04:59.457057	LOG	Frame command sent to the DUT
0:04:59.459057	LOG	PULL_RESP: Protocol version = 02, Token = c8b1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3664104354, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YAAAAAAAPgHgTDVv4r66aEM='}}
0:04:59.460056	LOG	Server ----------> DUT
0:04:59.463060	LOG	TX_ACK: 02 c8b1 05 0016c001ff1025bf
0:05:00.464233	LOG	First uplink received. Open reception window.
0:05:00.578453	LOG	PUSH_ACK: 02 ef2a 01
0:05:00.580421	LOG	GPS Time from gateway: 1385109210145
0:05:00.581420	LOG	PUSH_DATA: Protocol version = 02, Token = ef2a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3664224240, 'time': '2023-11-27T08:33:11.146107Z',

		'tmms': 1385109210145, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3247, 'rssi': -51, 'size': 17, 'data': 'QAAAAACARgHgKOznthJWfxM='}]}
0:05:00.582425	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0146, FOpts:), FPort: e0, FRMPayload: 08020304, MIC: 12567f13)
0:05:00.584425	LOG	Server <---------- DUT
0:05:00.585425	LOG	Frame Command Payload in the Answer: 08020304
0:05:00.590425	LOG	Checking if the payload of the EchoPayloadAns is correct
0:05:00.593950	LOG	Send Test Command EchoPayloadReq process completed
0:05:00.598940	LOG	Step 17-18
0:05:00.604934	LOG	Send Test Command EchoPayloadReq process starts
0:05:01.768645	LOG	GPS Time updated: 1385109211449
0:05:01.770613	LOG	PULL_DATA: 02 e057 02 0016c001ff1025bf
0:05:01.771612	LOG	PULL_ACK: 02 e057 04
0:05:04.345002	LOG	First uplink received. Open reception window.
0:05:04.457381	LOG	PUSH_ACK: 02 6910 01
0:05:04.459415	LOG	GPS Time from gateway: 1385109214025
0:05:04.460384	LOG	PUSH_DATA: Protocol version = 02, Token = 6910, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3668103997, 'time': '2023-11-27T08:33:15.025865Z', 'tmms': 1385109214025, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3247, 'rssi': -51, 'size': 20, 'data': 'QAAAAACARwECCKIAE/1m1fcZ5rE='}]}
0:05:04.462389	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0147, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f719e6b1)
0:05:04.463390	LOG	Server <---------- DUT
0:05:04.465901	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 013f, FOpts:), FPort: e0, FRMPayload: 08121314), MIC: 5125ce0e)
0:05:04.467947	LOG	Frame command sent to the DUT
0:05:04.468943	LOG	PULL_RESP: Protocol version = 02, Token = e5ad, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3670103997, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YAAAAAAAPwHgXwpKTFElzg4='}}
0:05:04.470942	LOG	Server ----------> DUT
0:05:04.475908	LOG	TX_ACK: 02 e5ad 05 0016c001ff1025bf
0:05:07.597709	LOG	First uplink received. Open reception window.
0:05:07.711735	LOG	PUSH_ACK: 02 9596 01
0:05:07.713703	LOG	GPS Time from gateway: 1385109217284
0:05:07.714702	LOG	PUSH_DATA: Protocol version = 02, Token = 9596, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3671362642, 'time': '2023-11-27T08:33:18.284509Z', 'tmms': 1385109217284, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3263, 'rssi': -51, 'size': 17, 'data': 'QAAAAACASAHg4qHMkcn4Scc='}]}
0:05:07.716713	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0148, FOpts:), FPort: e0, FRMPayload: 08131415, MIC: c9f849c7)
0:05:07.717712	LOG	Server <---------- DUT
0:05:07.719725	LOG	Frame Command Payload in the Answer: 08131415
0:05:07.724729	LOG	Checking if the payload of the EchoPayloadAns is correct
0:05:07.727714	LOG	Send Test Command EchoPayloadReq process completed
0:05:07.730719	LOG	End Test Step: Restore default settings
0:05:07.734719	LOG	Partial Verdict: PASS
0:05:07.737718	LOG	==========
0:05:07.741719	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_009
0:05:07.743224	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_010
Verdict	PASS

Date	2023-11-27 09:33:19	
Description		
Technology Version	LCTT v3.11.0_R1 | GUI v2.6.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.3	
Test Specs Version	USv1.5.1/EUv1.6.2/KRv1.2.1/ASv1.1.1/INv1.1.1/ALL_Av1.6/ALL_Cv1.0/ ALL_Bv1.0/SCHCv1.1/ALPv1.0	
Project	ref-stack	
Project Creation Date	2023-10-04 09:10:20	
Sample Parameters		
	Conformance	TRUE

Time Stamp (ms)	Event	Summary
0:00:00.008668	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_010
0:00:00.066488	LOG	==========
0:00:00.068452	LOG	Start Test Step: Device activation
0:00:00.152860	LOG	Activation process has finished successfully
0:00:00.154866	LOG	Data stored in the DUT after Activation:
0:00:00.157860	LOG	DevAddr: 00000000
0:00:00.160896	LOG	AppEUI: 0000000000000000
0:00:00.163893	LOG	NwkSKey: 6bfb58c6a233389e6e66450a9e520a70
0:00:00.166897	LOG	AppSKey: ded4e508ab9cede444c3765e0533fcac
0:00:00.170930	LOG	End Test Step: Device activation
0:00:00.174931	LOG	Partial Verdict: PASS
0:00:00.177898	LOG	==========
0:00:00.182897	LOG	==========
0:00:00.185407	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.195439	LOG	DUT Pre-condition activation process starts
0:00:00.198439	LOG	DUT Pre-condition activation completed
0:00:00.201481	LOG	End Test Step: DUT Pre-condition settings
0:00:00.205478	LOG	Partial Verdict: PASS
0:00:00.208477	LOG	==========
0:00:00.212477	LOG	==========
0:00:00.216024	LOG	Start Test Step: TxParamSetupReq Mac command
0:00:00.227175	LOG	Step 01-02
0:00:00.231292	LOG	Send TxParamSetupReq process starts
0:00:01.786612	LOG	GPS Time updated: 1385109217284
0:00:01.787609	LOG	PULL_DATA: 02 7ec2 02 0016c001ff1025bf
0:00:01.789578	LOG	PULL_ACK: 02 7ec2 04
0:00:04.314717	LOG	First uplink received. Open reception window.
0:00:04.419641	LOG	PUSH_ACK: 02 e56a 01
0:00:04.421610	LOG	GPS Time from gateway: 1385109224025
0:00:04.423614	LOG	PUSH_DATA: Protocol version = 02, Token = e56a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3678103492, 'time': '2023-11-27T08:33:25.025357Z', 'tmms': 1385109224025, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3244, 'rssi': -51, 'size': 20, 'data': 'QAAAAACASQECOVttQQt3MBROOK0='}]}
0:00:04.424614	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0149, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 144e38ad)
0:00:04.425614	LOG	Server <---------- DUT
0:00:04.427615	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0140, FOpts:), FPort: 00, FRMPayload: 0905), MIC: 8819256a)
0:00:04.429614	LOG	PULL_RESP: Protocol version = 02, Token = b2c2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3680103492, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAQAEAKraIGSVq'}}

0:00:04.430615	LOG	Server ----------> DUT
0:00:04.433151	LOG	TX_ACK: 02 b2c2 05 0016c001ff1025bf
0:00:09.309466	LOG	First uplink received. Open reception window.
0:00:09.410183	LOG	PUSH_ACK: 02 85cd 01
0:00:09.412149	LOG	GPS Time from gateway: 1385109229024
0:00:09.413148	LOG	PUSH_DATA: Protocol version = 02, Token = 85cd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3683103240, 'time': '2023-11-27T08:33:30.025104Z', 'tmms': 1385109229024, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3248, 'rssi': -51, 'size': 20, 'data': 'QAAAAACASgECRFWEzDkfmuOpjv4='}]}
0:00:09.415149	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 014a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e3a98efe)
0:00:09.416149	LOG	Server <---------- DUT
0:00:09.418151	LOG	MAC command not received because FPort field is not set to 0 and FOpts field is empty
0:00:09.423657	LOG	End Test Step: TxParamSetupReq Mac command
0:00:09.427661	LOG	Partial Verdict: PASS
0:00:09.431658	LOG	==========
0:00:09.434168	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_010
0:00:09.436167	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_011	
Verdict	PASS	
Date	2023-11-27 09:33:31	
Description		
Technology Version	LCTT v3.11.0_R1 | GUI v2.6.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.3	
Test Specs Version	USv1.5.1/EUv1.6.2/KRv1.2.1/ASv1.1.1/INv1.1.1/ALL_Av1.6/ALL_Cv1.0/ALL_Bv1.0/SCHCv1.1/ALPv1.0	
Project	ref-stack	
Project Creation Date	2023-10-04 09:10:20	
Sample Parameters		
	Conformance	TRUE

Time Stamp (ms)	Event	Summary
0:00:00.009486	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_011
0:00:00.068092	LOG	==========
0:00:00.070092	LOG	Start Test Step: Device activation
0:00:00.151143	LOG	Activation process has finished successfully
0:00:00.154144	LOG	Data stored in the DUT after Activation:
0:00:00.157154	LOG	DevAddr: 00000000
0:00:00.160167	LOG	AppEUI: 0000000000000000
0:00:00.163167	LOG	NwkSKey: 6bfb58c6a233389e6e66450a9e520a70
0:00:00.166168	LOG	AppSKey: ded4e508ab9cede444c3765e0533fcac
0:00:00.169167	LOG	End Test Step: Device activation
0:00:00.173680	LOG	Partial Verdict: PASS
0:00:00.178682	LOG	==========
0:00:00.182681	LOG	==========
0:00:00.185681	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.194191	LOG	DUT Pre-condition activation process starts
0:00:00.197194	LOG	DUT Pre-condition activation completed
0:00:00.200193	LOG	End Test Step: DUT Pre-condition settings
0:00:00.203701	LOG	Partial Verdict: PASS
0:00:00.207707	LOG	==========
0:00:00.213703	LOG	==========

0:00:00.215703	LOG	Start Test Step: LinkCheckReq MAC command
0:00:00.225705	LOG	Step 01
0:00:00.227709	LOG	Send Test Command LinkCheckReq process starts
0:00:00.349015	LOG	GPS Time updated: 1385109229024
0:00:00.350993	LOG	PULL_DATA: 02 8d9b 02 0016c001ff1025bf
0:00:00.351981	LOG	PULL_ACK: 02 8d9b 04
0:00:02.667353	LOG	First uplink received. Open reception window.
0:00:02.780333	LOG	PUSH_ACK: 02 3a9e 01
0:00:02.782300	LOG	GPS Time from gateway: 1385109234024
0:00:02.783300	LOG	PUSH_DATA: Protocol version = 02, Token = 3a9e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3688102970, 'time': '2023-11-27T08:33:35.024834Z', 'tmms': 1385109234024, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3248, 'rssi': -49, 'size': 20, 'data': 'QAAAAACASwEClpsBXpPg1RwiPkM='}]}
0:00:02.785302	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 014b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1c223e43)
0:00:02.786301	LOG	Server <---------- DUT
0:00:02.788302	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0141, FOpts:), FPort: e0, FRMPayload: 20), MIC: 73675687)
0:00:02.789301	LOG	Frame command sent to the DUT
0:00:02.790804	LOG	PULL_RESP: Protocol version = 02, Token = 5de4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3690102970, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAQQHg7HNnVoc='}}
0:00:02.791810	LOG	Server ----------> DUT
0:00:02.794810	LOG	Send Test Command LinkCheckReq process completed
0:00:02.799322	LOG	Step 02
0:00:02.802355	LOG	Wait a MAC command from the DUT process starts
0:00:07.673503	LOG	#**********CURRENT BEACON SENT**********#
0:00:07.675503	LOG	PULL_RESP: Protocol version = 02, Token = e591, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385109248000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAF49S4rcAAAAAAAAAAA='}}
0:00:07.676534	LOG	Server ----------> DUT
0:00:07.677535	LOG	#**********#
0:00:07.687504	LOG	#**********NEXT BEACON QUEUED**********#
0:00:07.688504	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385109376000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAF49S2moAAAAAAAAAAA='}}
0:00:07.689507	LOG	Server ----------> DUT
0:00:07.691537	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 80178f52, CRC1: da6a, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385109376000
0:00:07.692541	LOG	#**********#
0:00:07.693507	LOG	Next BEACON scheduled at GPS time (ms): 1385109504000
0:00:07.695034	LOG	First uplink received. Open reception window.
0:00:07.696072	LOG	TX_ACK: 02 e591 05 0016c001ff1025bf
0:00:07.796568	LOG	PUSH_ACK: 02 db99 01
0:00:07.798573	LOG	GPS Time from gateway: 1385109239024
0:00:07.799574	LOG	PUSH_DATA: Protocol version = 02, Token = db99, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3693102813, 'time': '2023-11-27T08:33:40.024675Z',

		'tmms': 1385109239024, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3244, 'rssi': -49, 'size': 21, 'data': 'QAAAAACBTAECAocVBAPDhvJpIk5w'}]}
0:00:07.801574	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 81, FCnt: 014c, FOpts: 02), FPort: 02, FRMPayload: 00000001020000, MIC: 69224e70)
0:00:07.802573	LOG	Server <---------- DUT
0:00:07.805958	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:07.807958	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0142, FOpts:), FPort: 00, FRMPayload: 023101), MIC: 2cfa248f)
0:00:07.808957	LOG	PULL_RESP: Protocol version = 02, Token = 1710, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3695102813, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 16, 'data': 'YAAAAAAAQgEAD1iXLPokjw=='}}
0:00:07.810957	LOG	Server ----------> DUT
0:00:07.812962	LOG	Wait a MAC command from the DUT process completed
0:00:07.816963	LOG	Step 03-04
0:00:07.820964	LOG	Send Test Command EchoPayloadReq process starts
0:00:10.540294	LOG	GPS Time updated: 1385109241867
0:00:10.541294	LOG	PULL_DATA: 02 c03a 02 0016c001ff1025bf
0:00:10.542362	LOG	PULL_ACK: 02 c03a 04
0:00:12.667758	LOG	First uplink received. Open reception window.
0:00:12.783905	LOG	PUSH_ACK: 02 91c8 01
0:00:12.785942	LOG	GPS Time from gateway: 1385109244024
0:00:12.786940	LOG	PUSH_DATA: Protocol version = 02, Token = 91c8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3698102457, 'time': '2023-11-27T08:33:45.024317Z', 'tmms': 1385109244024, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3247, 'rssi': -49, 'size': 20, 'data': 'QAAAAACATQEC/DwMqvyXzuwrSyo='}]}
0:00:12.787943	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 014d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ec2b4b2a)
0:00:12.789907	LOG	Server <---------- DUT
0:00:12.791908	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0143, FOpts:), FPort: e0, FRMPayload: 08010203), MIC: 0b1c5843)
0:00:12.792909	LOG	Frame command sent to the DUT
0:00:12.794909	LOG	PULL_RESP: Protocol version = 02, Token = 8e64, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3700102457, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YAAAAAAAQwHgspj8GwscWEM='}}
0:00:12.795908	LOG	Server ----------> DUT
0:00:12.798225	LOG	TX_ACK: 02 8e64 05 0016c001ff1025bf
0:00:15.929717	LOG	First uplink received. Open reception window.
0:00:16.039656	LOG	PUSH_ACK: 02 6c45 01
0:00:16.041625	LOG	GPS Time from gateway: 1385109247282
0:00:16.042624	LOG	PUSH_DATA: Protocol version = 02, Token = 6c45, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3701360673, 'time': '2023-11-27T08:33:48.282535Z', 'tmms': 1385109247282, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.8, 'foff': -3263, 'rssi': -51, 'size': 17, 'data': 'QAAAAACATgHg14fz8VCTpyw='}]}
0:00:16.043629	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 014e, FOpts:), FPort: e0, FRMPayload: 08020304, MIC: 5093a72c)
0:00:16.045629	LOG	Server <---------- DUT
0:00:16.047134	LOG	Frame Command Payload in the Answer: 08020304
0:00:16.052140	LOG	Checking if the payload of the EchoPayloadAns is correct
0:00:16.056140	LOG	Send Test Command EchoPayloadReq process completed
0:00:16.059140	LOG	End Test Step: LinkCheckReq MAC command

0:00:16.063174	LOG	Partial Verdict: PASS
0:00:16.067211	LOG	==========
0:00:16.070211	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_011
0:00:16.072179	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_012_A	
Verdict	PASS	
Date	2023-11-27 09:33:49	
Description		
Technology Version	LCTT v3.11.0_R1 | GUI v2.6.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.3	
Test Specs Version	USv1.5.1/EUv1.6.2/KRv1.2.1/ASv1.1.1/INv1.1.1/ALL_Av1.6/ALL_Cv1.0/ALL_Bv1.0/SCHCv1.1/ALPv1.0	
Project	ref-stack	
Project Creation Date	2023-10-04 09:10:20	
Sample		
Parameters	Addition of a single channel frequency	867.700
	Conformance	TRUE
	LR-FHSSCR1/3BW137 Frequency	868.000
	LR-FHSSCR2/3BW137 Frequency	868.000
	LR-FHSSCR1/3BW336 Frequency	868.600
	LR-FHSSCR2/3BW336 Frequency	868.600

Time Stamp (ms)	Event	Summary
0:00:00.011606	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_012_A
0:00:00.075709	LOG	==========
0:00:00.077713	LOG	Start Test Step: Device activation
0:00:00.163838	LOG	Activation process has finished successfully
0:00:00.165844	LOG	Data stored in the DUT after Activation:
0:00:00.168839	LOG	DevAddr: 00000000
0:00:00.171853	LOG	AppEUI: 0000000000000000
0:00:00.174887	LOG	NwkSKey: 6bfb58c6a233389e6e66450a9e520a70
0:00:00.177855	LOG	AppSKey: ded4e508ab9cede444c3765e0533fcac
0:00:00.180853	LOG	End Test Step: Device activation
0:00:00.184853	LOG	Partial Verdict: PASS
0:00:00.189362	LOG	==========
0:00:00.194369	LOG	==========
0:00:00.196369	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.205368	LOG	DUT Pre-condition activation process starts
0:00:00.207402	LOG	DUT Pre-condition activation completed
0:00:00.210912	LOG	End Test Step: DUT Pre-condition settings
0:00:00.214591	LOG	Partial Verdict: PASS
0:00:00.218692	LOG	==========
0:00:00.224694	LOG	==========
0:00:00.226728	LOG	Start Test Step: Test TXPower
0:00:00.236701	LOG	Step 01-02
0:00:00.239698	LOG	Send LinkADRReq process starts
0:00:02.261724	LOG	GPS Time updated: 1385109247282
0:00:02.263687	LOG	PULL_DATA: 02 614f 02 0016c001ff1025bf
0:00:02.264689	LOG	PULL_ACK: 02 614f 04
0:00:04.380078	LOG	First uplink received. Open reception window.
0:00:04.489985	LOG	PUSH_ACK: 02 7951 01
0:00:04.492988	LOG	GPS Time from gateway: 1385109254023

0:00:04.493988	LOG	PUSH_DATA: Protocol version = 02, Token = 7951, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3708101977, 'time': '2023-11-27T08:33:55.023838Z', 'tmms': 1385109254023, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3236, 'rssi': -49, 'size': 20, 'data': 'QAAAAACATwECkqT8jKQa3aix8dQ='}]}
0:00:04.495988	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 014f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a8b1f1d4)
0:00:04.497016	LOG	Server <---------- DUT
0:00:04.500038	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0144, FOpts:), FPort: 00, FRMPayload: 0357070001), MIC: b0d850a0)
0:00:04.503040	LOG	PULL_RESP: Protocol version = 02, Token = eecf, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3710101977, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAARAEA2V5Wcv2w2FCg'}}
0:00:04.505037	LOG	Server ----------> DUT
0:00:04.508037	LOG	TX_ACK: 02 eecf 05 0016c001ff1025bf
0:00:09.371898	LOG	First uplink received. Open reception window.
0:00:09.479315	LOG	PUSH_ACK: 02 795a 01
0:00:09.481282	LOG	GPS Time from gateway: 1385109259023
0:00:09.482282	LOG	PUSH_DATA: Protocol version = 02, Token = 795a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3713101824, 'time': '2023-11-27T08:34:00.023684Z', 'tmms': 1385109259023, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -63, 'lsnr': 13.8, 'foff': -3248, 'rssi': -63, 'size': 22, 'data': 'QAAAAACCUAEDBwLHxQtfLwxoDwg9GQ=='}]}
0:00:09.484282	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0150, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 0f083d19)
0:00:09.485285	LOG	Server <---------- DUT
0:00:09.488286	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:09.489286	LOG	Command Answer: 0307
0:00:09.494321	LOG	MAC command communication completed
0:00:09.500450	LOG	Step 03-04
0:00:09.504485	LOG	DUT set the minimum TXPower
0:00:09.509484	LOG	Step 05-06
0:00:09.512460	LOG	Calculate RSSI average process starts
0:00:12.271963	LOG	GPS Time updated: 1385109261924
0:00:12.273928	LOG	PULL_DATA: 02 a8e3 02 0016c001ff1025bf
0:00:12.274704	LOG	PULL_ACK: 02 a8e3 04
0:00:14.373294	LOG	First uplink received. Open reception window.
0:00:14.486294	LOG	PUSH_ACK: 02 6a3e 01
0:00:14.488262	LOG	GPS Time from gateway: 1385109264023
0:00:14.489262	LOG	PUSH_DATA: Protocol version = 02, Token = 6a3e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3718101458, 'time': '2023-11-27T08:34:05.023317Z', 'tmms': 1385109264023, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -63, 'lsnr': 14.0, 'foff': -3244, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAUQEColYp3zw978+0lFs='}]}
0:00:14.490268	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0151, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: cfb4945b)
0:00:14.492267	LOG	Server <---------- DUT
0:00:19.367187	LOG	First uplink received. Open reception window.
0:00:19.478005	LOG	PUSH_ACK: 02 005e 01
0:00:19.479972	LOG	GPS Time from gateway: 1385109269022
0:00:19.480972	LOG	PUSH_DATA: Protocol version = 02, Token = 005e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3723101202, 'time': '2023-11-27T08:34:10.023060Z', 'tmms': 1385109269022, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -62, 'lsnr': 14.0, 'foff': -3244, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAUgECLWUbhI2FNagYU7o='}]}
0:00:19.481973	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0152, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a81853ba)
0:00:19.483972	LOG	Server <---------- DUT
0:00:22.362735	LOG	GPS Time updated: 1385109272016
0:00:22.363734	LOG	PULL_DATA: 02 5285 02 0016c001ff1025bf
0:00:22.365683	LOG	PULL_ACK: 02 5285 04
0:00:24.376890	LOG	First uplink received. Open reception window.
0:00:24.482797	LOG	PUSH_ACK: 02 2bdf 01
0:00:24.484766	LOG	GPS Time from gateway: 1385109274022
0:00:24.485770	LOG	PUSH_DATA: Protocol version = 02, Token = 2bdf, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3728100952, 'time': '2023-11-27T08:34:15.022809Z', 'tmms': 1385109274022, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -63, 'lsnr': 13.2, 'foff': -3244, 'rssi': -63, 'size': 20, 'data': 'QAAAAACAUwECW0FIcDaq9A4HTEo='}]}
0:00:24.486771	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0153, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0e074c4a)
0:00:24.488771	LOG	Server <---------- DUT
0:00:24.491771	LOG	Calculate RSSI average process completed
0:00:24.495984	LOG	Step 07-11
0:00:24.499535	LOG	Send LinkADRReq process starts
0:00:29.368968	LOG	First uplink received. Open reception window.
0:00:29.482583	LOG	PUSH_ACK: 02 2066 01
0:00:29.484584	LOG	GPS Time from gateway: 1385109279022
0:00:29.485621	LOG	PUSH_DATA: Protocol version = 02, Token = 2066, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3733100692, 'time': '2023-11-27T08:34:20.022548Z', 'tmms': 1385109279022, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -63, 'lsnr': 13.8, 'foff': -3240, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAVAECrQFoVgVcLDrd8r4='}]}
0:00:29.487605	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0154, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3addf2be)
0:00:29.488620	LOG	Server <---------- DUT
0:00:29.490638	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0145, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: b7aec182)
0:00:29.492617	LOG	PULL_RESP: Protocol version = 02, Token = 98d7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3735100692, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAARQEA3ZbNM5e3rsGC'}}
0:00:29.494589	LOG	Server ----------> DUT
0:00:29.497622	LOG	TX_ACK: 02 98d7 05 0016c001ff1025bf
0:00:32.432191	LOG	GPS Time updated: 1385109282086
0:00:32.434158	LOG	PULL_DATA: 02 7d4d 02 0016c001ff1025bf
0:00:32.436164	LOG	PULL_ACK: 02 7d4d 04
0:00:34.375950	LOG	First uplink received. Open reception window.
0:00:34.485323	LOG	PUSH_ACK: 02 e458 01
0:00:34.487360	LOG	GPS Time from gateway: 1385109284022
0:00:34.488356	LOG	PUSH_DATA: Protocol version = 02, Token = e458, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3738100526, 'time': '2023-11-27T08:34:25.022380Z', 'tmms': 1385109284022, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3240, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCVQEDBwK3kpbr5k66K+/m8w=='}]}
0:00:34.490356	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0155, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 2befe6f3)
0:00:34.491358	LOG	Server <---------- DUT

0:00:34.493323	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:34.495357	LOG	Command Answer: 0307
0:00:34.501877	LOG	MAC command communication completed
0:00:34.506898	LOG	Calculate RSSI average process starts
0:00:39.370257	LOG	First uplink received. Open reception window.
0:00:39.471893	LOG	PUSH_ACK: 02 e6a4 01
0:00:39.473862	LOG	GPS Time from gateway: 1385109289021
0:00:39.474861	LOG	PUSH_DATA: Protocol version = 02, Token = e6a4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3743100167, 'time': '2023-11-27T08:34:30.022019Z', 'tmms': 1385109289021, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3236, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAVgEC2g4imf/WGgmDY+U='}]}
0:00:39.475861	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0156, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 098363e5)
0:00:39.477866	LOG	Server <---------- DUT
0:00:42.522982	LOG	GPS Time updated: 1385109292173
0:00:42.523949	LOG	PULL_DATA: 02 9277 02 0016c001ff1025bf
0:00:42.525952	LOG	PULL_ACK: 02 9277 04
0:00:44.373704	LOG	First uplink received. Open reception window.
0:00:44.483214	LOG	PUSH_ACK: 02 6dff 01
0:00:44.485214	LOG	GPS Time from gateway: 1385109294021
0:00:44.486220	LOG	PUSH_DATA: Protocol version = 02, Token = 6dff, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3748099938, 'time': '2023-11-27T08:34:35.021789Z', 'tmms': 1385109294021, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3236, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAVwECbFU/HkgQ/DYPpbo='}]}
0:00:44.488252	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0157, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 360fa5ba)
0:00:44.489252	LOG	Server <---------- DUT
0:00:49.367849	LOG	First uplink received. Open reception window.
0:00:49.475339	LOG	PUSH_ACK: 02 4e36 01
0:00:49.477308	LOG	GPS Time from gateway: 1385109299021
0:00:49.478307	LOG	PUSH_DATA: Protocol version = 02, Token = 4e36, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3753099682, 'time': '2023-11-27T08:34:40.021535Z', 'tmms': 1385109299021, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3240, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAWAECWJJ6OWlaDLIXFhI='}]}
0:00:49.479307	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0158, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b2171612)
0:00:49.481308	LOG	Server <---------- DUT
0:00:49.484310	LOG	Calculate RSSI average process completed
0:00:49.488777	LOG	Step 11-12
0:00:49.491831	LOG	Send LinkADRReq process starts
0:00:52.603288	LOG	GPS Time updated: 1385109302257
0:00:52.604274	LOG	PULL_DATA: 02 1fc7 02 0016c001ff1025bf
0:00:52.606275	LOG	PULL_ACK: 02 1fc7 04
0:00:54.369092	LOG	First uplink received. Open reception window.
0:00:54.475604	LOG	PUSH_ACK: 02 90c8 01
0:00:54.477572	LOG	GPS Time from gateway: 1385109304021
0:00:54.478571	LOG	PUSH_DATA: Protocol version = 02, Token = 90c8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3758099458, 'time': '2023-11-27T08:34:45.021309Z', 'tmms': 1385109304021, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3240, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAWQECl2FXWSet37sozQ8='}]}

0:00:54.480572	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0159, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: bb28cd0f)
0:00:54.481572	LOG	Server <---------- DUT
0:00:54.483573	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0146, FOpts:), FPort: 00, FRMPayload: 0358070001), MIC: 73e4c0f6)
0:00:54.485573	LOG	PULL_RESP: Protocol version = 02, Token = 585d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3760099458, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAARgEAfQJHeG5z5MD2'}}
0:00:54.486578	LOG	Server ----------> DUT
0:00:54.489579	LOG	TX_ACK: 02 585d 05 0016c001ff1025bf
0:00:59.368313	LOG	First uplink received. Open reception window.
0:00:59.479895	LOG	PUSH_ACK: 02 aafa 01
0:00:59.481862	LOG	GPS Time from gateway: 1385109309020
0:00:59.482861	LOG	PUSH_DATA: Protocol version = 02, Token = aafa, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3763099294, 'time': '2023-11-27T08:34:50.021144Z', 'tmms': 1385109309020, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.8, 'foff': -3236, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCWgEDAwJ1v82sTmjv7GKcRQ=='}]}
0:00:59.484861	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 015a, FOpts: 0303), FPort: 02, FRMPayload: 00000001020000, MIC: ec629c45)
0:00:59.485861	LOG	Server <---------- DUT
0:00:59.487866	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:59.488865	LOG	Command Answer: 0303
0:00:59.493898	LOG	MAC command communication completed
0:00:59.496899	LOG	RFU tested. Answer: 03
0:00:59.500867	LOG	Step 12-13
0:00:59.504944	LOG	Send LinkADRReq process starts
0:01:02.673176	LOG	GPS Time updated: 1385109312325
0:01:02.675176	LOG	PULL_DATA: 02 0624 02 0016c001ff1025bf
0:01:02.676774	LOG	PULL_ACK: 02 0624 04
0:01:04.375918	LOG	First uplink received. Open reception window.
0:01:04.486938	LOG	PUSH_ACK: 02 e206 01
0:01:04.488908	LOG	GPS Time from gateway: 1385109314020
0:01:04.489939	LOG	PUSH_DATA: Protocol version = 02, Token = e206, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3768098970, 'time': '2023-11-27T08:34:55.020820Z', 'tmms': 1385109314020, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3240, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAWwECtd5scnlKKY54kv8='}]}
0:01:04.491945	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 015b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8e7892ff)
0:01:04.492942	LOG	Server <---------- DUT
0:01:04.494946	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0147, FOpts:), FPort: 00, FRMPayload: 035f070001), MIC: 07dc9168)
0:01:04.496940	LOG	PULL_RESP: Protocol version = 02, Token = 91c8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3770098970, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAARwEAOJknbX0H3JFo'}}
0:01:04.497939	LOG	Server ----------> DUT
0:01:04.506016	LOG	TX_ACK: 02 91c8 05 0016c001ff1025bf
0:01:09.372979	LOG	First uplink received. Open reception window.
0:01:09.486670	LOG	PUSH_ACK: 02 8235 01
0:01:09.489362	LOG	GPS Time from gateway: 1385109319020
0:01:09.491578	LOG	PUSH_DATA: Protocol version = 02, Token = 8235, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3773098853, 'time': '2023-11-27T08:35:00.020702Z',

		'tmms': 1385109319020, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3232, 'rssi': -52, 'size': 22, 'data': 'QAAAAACCXAEDBwLO9ho82Z8ZpnI4dw=='}]}
0:01:09.492755	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 015c, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: a6723877)
0:01:09.494341	LOG	Server <---------- DUT
0:01:09.496536	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:09.498181	LOG	Command Answer: 0307
0:01:09.505279	LOG	MAC command communication completed
0:01:09.511258	LOG	Step 14-15: Restore default settings
0:01:09.515248	LOG	Send LinkADRReq process starts
0:01:12.683855	LOG	GPS Time updated: 1385109322330
0:01:12.684850	LOG	PULL_DATA: 02 8cae 02 0016c001ff1025bf
0:01:12.686863	LOG	PULL_ACK: 02 8cae 04
0:01:14.371991	LOG	First uplink received. Open reception window.
0:01:14.485649	LOG	PUSH_ACK: 02 14ac 01
0:01:14.487654	LOG	GPS Time from gateway: 1385109324020
0:01:14.488653	LOG	PUSH_DATA: Protocol version = 02, Token = 14ac, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3778098491, 'time': '2023-11-27T08:35:05.020339Z', 'tmms': 1385109324020, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3224, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAXQECL7HSLqKc4h1jalE='}]}
0:01:14.490654	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 015d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1d636a51)
0:01:14.491653	LOG	Server <---------- DUT
0:01:14.493654	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0148, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: dc62e0b8)
0:01:14.495654	LOG	PULL_RESP: Protocol version = 02, Token = 5399, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3780098491, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAASAEA4WPLOL3cYuC4'}}
0:01:14.496653	LOG	Server ----------> DUT
0:01:14.499145	LOG	TX_ACK: 02 5399 05 0016c001ff1025bf
0:01:19.366259	LOG	First uplink received. Open reception window.
0:01:19.475758	LOG	PUSH_ACK: 02 f9f8 01
0:01:19.477726	LOG	GPS Time from gateway: 1385109329020
0:01:19.478726	LOG	PUSH_DATA: Protocol version = 02, Token = f9f8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3783098360, 'time': '2023-11-27T08:35:10.020207Z', 'tmms': 1385109329020, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3232, 'rssi': -52, 'size': 22, 'data': 'QAAAAACCXgEDBwIp0fqS3rs6qNnD5w=='}]}
0:01:19.480727	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 015e, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: a8d9c3e7)
0:01:19.481727	LOG	Server <---------- DUT
0:01:19.483727	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:19.485246	LOG	Command Answer: 0307
0:01:19.492419	LOG	MAC command communication completed
0:01:19.495463	LOG	End Test Step: Test TXPower
0:01:19.498474	LOG	Partial Verdict: PASS
0:01:19.502544	LOG	==========
0:01:19.508516	LOG	==========
0:01:19.511513	LOG	Start Test Step: Check unsupported data rates
0:01:19.523090	LOG	Step 01-02
0:01:19.527089	LOG	Send LinkADRReq process starts

0:01:22.693147	LOG	GPS Time updated: 1385109332347
0:01:22.695147	LOG	PULL_DATA: 02 eadf 02 0016c001ff1025bf
0:01:22.697116	LOG	PULL_ACK: 02 eadf 04
0:01:24.373176	LOG	First uplink received. Open reception window.
0:01:24.483981	LOG	PUSH_ACK: 02 9d7d 01
0:01:24.485949	LOG	GPS Time from gateway: 1385109334019
0:01:24.487985	LOG	PUSH_DATA: Protocol version = 02, Token = 9d7d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3788098002, 'time': '2023-11-27T08:35:15.019846Z', 'tmms': 1385109334019, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3229, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAXwEC2mCR5DuAOUANofE='}]}
0:01:24.488949	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 015f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 400da1f1)
0:01:24.490454	LOG	Server <---------- DUT
0:01:24.492475	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0149, FOpts:), FPort: 00, FRMPayload: 03c0070001), MIC: e3e7d317)
0:01:24.494461	LOG	PULL_RESP: Protocol version = 02, Token = 0602, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3790098002, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAASQEA+UFGEa7j59MX'}}
0:01:24.495494	LOG	Server ----------> DUT
0:01:24.498261	LOG	TX_ACK: 02 0602 05 0016c001ff1025bf
0:01:29.373390	LOG	First uplink received. Open reception window.
0:01:29.482668	LOG	PUSH_ACK: 02 570a 01
0:01:29.484680	LOG	GPS Time from gateway: 1385109339019
0:01:29.486672	LOG	PUSH_DATA: Protocol version = 02, Token = 570a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3793097876, 'time': '2023-11-27T08:35:20.019719Z', 'tmms': 1385109339019, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3240, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCYAEDBQI7WrEk0zIOsDqntQ=='}]}
0:01:29.487670	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0160, FOpts: 0305), FPort: 02, FRMPayload: 00000001020000, MIC: b03aa7b5)
0:01:29.488669	LOG	Server <---------- DUT
0:01:29.490671	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:29.492671	LOG	Command Answer: 0305
0:01:29.497265	LOG	MAC command communication completed
0:01:29.500252	LOG	Invalid DR tested. Answer: 05
0:01:29.503763	LOG	Send LinkADRReq process starts
0:01:32.894079	LOG	GPS Time updated: 1385109342540
0:01:32.895080	LOG	PULL_DATA: 02 7c14 02 0016c001ff1025bf
0:01:32.897048	LOG	PULL_ACK: 02 7c14 04
0:01:34.368687	LOG	First uplink received. Open reception window.
0:01:34.469549	LOG	PUSH_ACK: 02 d8ca 01
0:01:34.471021	LOG	GPS Time from gateway: 1385109344019
0:01:34.473027	LOG	PUSH_DATA: Protocol version = 02, Token = d8ca, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3798097516, 'time': '2023-11-27T08:35:25.019360Z', 'tmms': 1385109344019, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3229, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAYQECkOIuk0ONEBOHfqs='}]}
0:01:34.474026	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0161, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 13877eab)
0:01:34.476026	LOG	Server <---------- DUT
0:01:34.477026	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 014a, FOpts:), FPort: 00, FRMPayload: 0360070001), MIC: 47ad02b2)

0:01:34.479026	LOG	PULL_RESP: Protocol version = 02, Token = f715, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3800097516, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAASgEAzFla6thHrQKy'}}
0:01:34.480026	LOG	Server ----------> DUT
0:01:34.483037	LOG	TX_ACK: 02 f715 05 0016c001ff1025bf
0:01:39.370810	LOG	First uplink received. Open reception window.
0:01:39.472301	LOG	PUSH_ACK: 02 4af8 01
0:01:39.474270	LOG	GPS Time from gateway: 1385109349019
0:01:39.475270	LOG	PUSH_DATA: Protocol version = 02, Token = 4af8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3803097394, 'time': '2023-11-27T08:35:30.019238Z', 'tmms': 1385109349019, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3224, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCYgEDBQITyIaqxY8ib2jtFQ==\'}]}
0:01:39.477270	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0162, FOpts: 0305), FPort: 02, FRMPayload: 00000001020000, MIC: 6f68ed15)
0:01:39.478277	LOG	Server <---------- DUT
0:01:39.480270	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:39.481270	LOG	Command Answer: 0305
0:01:39.486272	LOG	MAC command communication completed
0:01:39.490308	LOG	Optional SF7BW250 DR tested. Answer: 05
0:01:39.493276	LOG	Send LinkADRReq process starts
0:01:43.083542	LOG	GPS Time updated: 1385109352732
0:01:43.085508	LOG	PULL_DATA: 02 91db 02 0016c001ff1025bf
0:01:43.087444	LOG	PULL_ACK: 02 91db 04
0:01:44.368750	LOG	First uplink received. Open reception window.
0:01:44.472167	LOG	PUSH_ACK: 02 c03c 01
0:01:44.474168	LOG	GPS Time from gateway: 1385109354018
0:01:44.475169	LOG	PUSH_DATA: Protocol version = 02, Token = c03c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3808097041, 'time': '2023-11-27T08:35:35.018883Z', 'tmms': 1385109354018, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3232, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAYwECX5Nc9ckF6nX1df8='}]}
0:01:44.477202	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0163, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 75f575ff)
0:01:44.478206	LOG	Server <---------- DUT
0:01:44.480184	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 014b, FOpts:), FPort: 00, FRMPayload: 0370070001), MIC: 2d2a1592)
0:01:44.482200	LOG	PULL_RESP: Protocol version = 02, Token = 534a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3810097041, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAASwEAeMurKOItKhWS'}}
0:01:44.483207	LOG	Server ----------> DUT
0:01:44.485967	LOG	TX_ACK: 02 534a 05 0016c001ff1025bf
0:01:49.371434	LOG	First uplink received. Open reception window.
0:01:49.473310	LOG	PUSH_ACK: 02 60b8 01
0:01:49.475277	LOG	GPS Time from gateway: 1385109359018
0:01:49.476277	LOG	PUSH_DATA: Protocol version = 02, Token = 60b8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3813096879, 'time': '2023-11-27T08:35:40.018720Z', 'tmms': 1385109359018, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3248, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCZAEDBQIB7qHjsbarcY/h+g==\'}]}
0:01:49.478277	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0164, FOpts: 0305), FPort: 02, FRMPayload: 00000001020000, MIC: 718fe1fa)
0:01:49.479277	LOG	Server <---------- DUT

0:01:49.481278	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:49.482277	LOG	Command Answer: 0305
0:01:49.487315	LOG	MAC command communication completed
0:01:49.490578	LOG	Optional FSK DR tested. Answer: 05
0:01:49.493587	LOG	Send LinkADRReq process starts
0:01:53.094230	LOG	GPS Time updated: 1385109362741
0:01:53.095735	LOG	PULL_DATA: 02 cce2 02 0016c001ff1025bf
0:01:53.097741	LOG	PULL_ACK: 02 cce2 04
0:01:54.374276	LOG	First uplink received. Open reception window.
0:01:54.478166	LOG	PUSH_ACK: 02 ed58 01
0:01:54.480132	LOG	GPS Time from gateway: 1385109364018
0:01:54.482134	LOG	PUSH_DATA: Protocol version = 02, Token = ed58, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3818096514, 'time': '2023-11-27T08:35:45.018354Z', 'tmms': 1385109364018, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3236, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAZQECyO4hW5N02emkotg='}]}
0:01:54.483133	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0165, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e9a4a2d8)
0:01:54.484134	LOG	Server <---------- DUT
0:01:54.486165	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 014c, FOpts:), FPort: 00, FRMPayload: 0380070001), MIC: 52f90308)
0:01:54.488186	LOG	PULL_RESP: Protocol version = 02, Token = 69d5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3820096514, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAATAEALQMKkb5S+QMI'}}
0:01:54.489207	LOG	Server ----------> DUT
0:01:54.492858	LOG	TX_ACK: 02 69d5 05 0016c001ff1025bf
0:01:59.371843	LOG	#**********CURRENT BEACON SENT**********#
0:01:59.373843	LOG	PULL_RESP: Protocol version = 02, Token = b697, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385109376000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAF49S2moAAAAAAAAAAA='}}
0:01:59.374843	LOG	Server ----------> DUT
0:01:59.375847	LOG	#**********#
0:01:59.386391	LOG	#**********NEXT BEACON QUEUED**********#
0:01:59.388357	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385109504000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAGI9S05sAAAAAAAAAAA='}}
0:01:59.389357	LOG	Server ----------> DUT
0:01:59.391357	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 00188f52, CRC1: d39b, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385109504000
0:01:59.392357	LOG	#**********#
0:01:59.393356	LOG	Next BEACON scheduled at GPS time (ms): 1385109632000
0:01:59.395368	LOG	First uplink received. Open reception window.
0:01:59.397367	LOG	TX_ACK: 02 b697 05 0016c001ff1025bf
0:01:59.499307	LOG	PUSH_ACK: 02 9001 01
0:01:59.501271	LOG	GPS Time from gateway: 1385109369018

0:01:59.502776	LOG	PUSH_DATA: Protocol version = 02, Token = 9001, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3823096393, 'time': '2023-11-27T08:35:50.018232Z', 'tmms': 1385109369018, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3247, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCZgEDBQIUG+ooGFpEMD82jQ=='}]}
0:01:59.503782	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0166, FOpts: 0305), FPort: 02, FRMPayload: 00000001020000, MIC: 303f368d)
0:01:59.505782	LOG	Server <---------- DUT
0:01:59.507783	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:59.509781	LOG	Command Answer: 0305
0:01:59.515787	LOG	MAC command communication completed
0:01:59.518786	LOG	Optional LR_FHSSCR1_3BW137 DR tested. Answer: 05
0:01:59.521824	LOG	Send LinkADRReq process starts
0:02:03.154511	LOG	GPS Time updated: 1385109372775
0:02:03.155511	LOG	PULL_DATA: 02 05a4 02 0016c001ff1025bf
0:02:03.157478	LOG	PULL_ACK: 02 05a4 04
0:02:04.371081	LOG	First uplink received. Open reception window.
0:02:04.486239	LOG	PUSH_ACK: 02 93fe 01
0:02:04.488275	LOG	GPS Time from gateway: 1385109374017
0:02:04.490272	LOG	PUSH_DATA: Protocol version = 02, Token = 93fe, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3828096036, 'time': '2023-11-27T08:35:55.017875Z', 'tmms': 1385109374017, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3247, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAZwECmzKtBrrePvX6tm4='}]}
0:02:04.491270	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0167, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f5fab66e)
0:02:04.493240	LOG	Server <---------- DUT
0:02:04.495238	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 014d, FOpts:), FPort: 00, FRMPayload: 0390070001), MIC: c09cda77)
0:02:04.496238	LOG	PULL_RESP: Protocol version = 02, Token = e668, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3830096036, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAATQEATAvl/vfAnNp3'}}
0:02:04.498272	LOG	Server ----------> DUT
0:02:04.501239	LOG	GW Message b'{"txpk_ack":{"error":"COLLISION_PACKET"}}'
0:02:04.502265	LOG	Waiting a new Uplink to send the frame again
0:02:09.368553	LOG	First uplink received. Open reception window.
0:02:09.477466	LOG	PUSH_ACK: 02 9d7e 01
0:02:09.479465	LOG	GPS Time from gateway: 1385109379017
0:02:09.480465	LOG	PUSH_DATA: Protocol version = 02, Token = 9d7e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3833095802, 'time': '2023-11-27T08:36:00.017638Z', 'tmms': 1385109379017, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3255, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAaAECygdwLSP4PzLqTUI='}]}
0:02:09.482466	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0168, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 32ea4d42)
0:02:09.483465	LOG	Server <---------- DUT
0:02:09.485465	LOG	PULL_RESP: Protocol version = 02, Token = 6416, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3835095802, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAATQEATAvl/vfAnNp3'}}
0:02:09.486465	LOG	Server ----------> DUT
0:02:09.488722	LOG	TX_ACK: 02 6416 05 0016c001ff1025bf
0:02:13.263841	LOG	GPS Time updated: 1385109382912
0:02:13.265808	LOG	PULL_DATA: 02 de3a 02 0016c001ff1025bf

0:02:13.267809	LOG	PULL_ACK: 02 de3a 04
0:02:14.603816	LOG	First uplink received. Open reception window.
0:02:14.704030	LOG	PUSH_ACK: 02 fb35 01
0:02:14.705998	LOG	GPS Time from gateway: 1385109384252
0:02:14.707003	LOG	PUSH_DATA: Protocol version = 02, Token = fb35, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3838330991, 'time': '2023-11-27T08:36:05.252827Z', 'tmms': 1385109384252, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3263, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCaQEDBQKeEBNhmWA+u6PhXA=='}]}
0:02:14.709008	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0169, FOpts: 0305), FPort: 02, FRMPayload: 00000001020000, MIC: bba3e15c)
0:02:14.710007	LOG	Server <---------- DUT
0:02:14.712008	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:14.713008	LOG	Command Answer: 0305
0:02:14.719009	LOG	MAC command communication completed
0:02:14.721578	LOG	Optional LR_FHSSCR2_3BW137 DR tested. Answer: 05
0:02:14.725622	LOG	Send LinkADRReq process starts
0:02:19.380946	LOG	First uplink received. Open reception window.
0:02:19.495842	LOG	PUSH_ACK: 02 491c 01
0:02:19.497809	LOG	GPS Time from gateway: 1385109389031
0:02:19.498809	LOG	PUSH_DATA: Protocol version = 02, Token = 491c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3843109962, 'time': '2023-11-27T08:36:10.031798Z', 'tmms': 1385109389031, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3263, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAagECl27dhGx1tzaWwcM='}]}
0:02:19.500814	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 016a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3696c1c3)
0:02:19.501813	LOG	Server <---------- DUT
0:02:19.504324	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 014e, FOpts:), FPort: 00, FRMPayload: 03a0070001), MIC: c0f831a0)
0:02:19.506333	LOG	PULL_RESP: Protocol version = 02, Token = da5a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3845109962, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAATgEANNWgVhvA+DGg'}}
0:02:19.508324	LOG	Server ----------> DUT
0:02:19.511414	LOG	TX_ACK: 02 da5a 05 0016c001ff1025bf
0:02:23.284296	LOG	GPS Time updated: 1385109392935
0:02:23.286305	LOG	PULL_DATA: 02 4193 02 0016c001ff1025bf
0:02:23.288302	LOG	PULL_ACK: 02 4193 04
0:02:24.387122	LOG	First uplink received. Open reception window.
0:02:24.490728	LOG	PUSH_ACK: 02 14d2 01
0:02:24.492699	LOG	GPS Time from gateway: 1385109394031
0:02:24.493731	LOG	PUSH_DATA: Protocol version = 02, Token = 14d2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3848109841, 'time': '2023-11-27T08:36:15.031676Z', 'tmms': 1385109394031, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3267, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCawEDBQIAxiIneuK0LvNKZg=='}]}
0:02:24.495699	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 016b, FOpts: 0305), FPort: 02, FRMPayload: 00000001020000, MIC: 2ef34a66)
0:02:24.496729	LOG	Server <---------- DUT
0:02:24.498698	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:24.499729	LOG	Command Answer: 0305
0:02:24.505242	LOG	MAC command communication completed
0:02:24.509246	LOG	Optional LR_FHSSCR1_3BW336 DR tested. Answer: 05

0:02:24.513263	LOG	Send LinkADRReq process starts
0:02:29.380200	LOG	First uplink received. Open reception window.
0:02:29.486431	LOG	PUSH_ACK: 02 6ed4 01
0:02:29.488475	LOG	GPS Time from gateway: 1385109399031
0:02:29.489474	LOG	PUSH_DATA: Protocol version = 02, Token = 6ed4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3853109481, 'time': '2023-11-27T08:36:20.031315Z', 'tmms': 1385109399031, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3263, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAbAECCMmk2tqOnMQ0Yoc='}]}
0:02:29.491474	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 016c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c4346287)
0:02:29.492474	LOG	Server <---------- DUT
0:02:29.494475	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 014f, FOpts:), FPort: 00, FRMPayload: 03b0070001), MIC: ae099cd7)
0:02:29.496473	LOG	PULL_RESP: Protocol version = 02, Token = 9a8d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3855109481, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAATwEAj9wiWBCuCZzX'}}
0:02:29.497474	LOG	Server ----------> DUT
0:02:29.500494	LOG	TX_ACK: 02 9a8d 05 0016c001ff1025bf
0:02:33.484367	LOG	GPS Time updated: 1385109403135
0:02:33.486334	LOG	PULL_DATA: 02 0e44 02 0016c001ff1025bf
0:02:33.488341	LOG	PULL_ACK: 02 0e44 04
0:02:34.380356	LOG	First uplink received. Open reception window.
0:02:34.484853	LOG	PUSH_ACK: 02 9a6e 01
0:02:34.486821	LOG	GPS Time from gateway: 1385109404030
0:02:34.487852	LOG	PUSH_DATA: Protocol version = 02, Token = 9a6e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3858109353, 'time': '2023-11-27T08:36:25.031187Z', 'tmms': 1385109404030, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3274, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCbQEDBQIvVkgUxrl7OzPZDQ=='}]}
0:02:34.489857	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 016d, FOpts: 0305), FPort: 02, FRMPayload: 00000001020000, MIC: 3b33d90d)
0:02:34.490890	LOG	Server <---------- DUT
0:02:34.492889	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:34.493890	LOG	Command Answer: 0305
0:02:34.499162	LOG	MAC command communication completed
0:02:34.502161	LOG	Optional LR_FHSSCR2_3BW336 DR tested. Answer: 05
0:02:34.505778	LOG	Step 03
0:02:34.511758	LOG	Send LinkADRReq process starts
0:02:39.378501	LOG	First uplink received. Open reception window.
0:02:39.487267	LOG	PUSH_ACK: 02 fc67 01
0:02:39.489274	LOG	GPS Time from gateway: 1385109409030
0:02:39.490305	LOG	PUSH_DATA: Protocol version = 02, Token = fc67, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3863109001, 'time': '2023-11-27T08:36:30.030834Z', 'tmms': 1385109409030, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3271, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAbgEChDsK93qWU1Dmj60='}]}
0:02:39.492273	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 016e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 50e68fad)
0:02:39.493273	LOG	Server <---------- DUT
0:02:39.495304	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0150, FOpts:), FPort: 00, FRMPayload: 03f0070001), MIC: b3b9f3c3)
0:02:39.496304	LOG	PULL_RESP: Protocol version = 02, Token = a40e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3865109001, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAUAEAhTulOPOzufPD'}}
0:02:39.498305	LOG	Server ----------> DUT
0:02:39.500930	LOG	TX_ACK: 02 a40e 05 0016c001ff1025bf
0:02:43.694403	LOG	GPS Time updated: 1385109413346
0:02:43.696404	LOG	PULL_DATA: 02 51e9 02 0016c001ff1025bf
0:02:43.698372	LOG	PULL_ACK: 02 51e9 04
0:02:44.381652	LOG	First uplink received. Open reception window.
0:02:44.487086	LOG	PUSH_ACK: 02 bfe1 01
0:02:44.489058	LOG	GPS Time from gateway: 1385109414030
0:02:44.490057	LOG	PUSH_DATA: Protocol version = 02, Token = bfe1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3868108877, 'time': '2023-11-27T08:36:35.030709Z', 'tmms': 1385109414030, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3282, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCbwEDBwLwwa+c/gV+xtCDIw=='}]}
0:02:44.492062	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 016f, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: c6d08323)
0:02:44.493061	LOG	Server <---------- DUT
0:02:44.495062	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:44.496061	LOG	Command Answer: 0307
0:02:44.503566	LOG	MAC command communication completed
0:02:44.506606	LOG	Check previous uplink data rate process starts
0:02:44.513572	LOG	Uplink received with expected Data Rate
0:02:44.517697	LOG	Step 04-05
0:02:44.521571	LOG	Send LinkADRReq process starts
0:02:49.385664	LOG	First uplink received. Open reception window.
0:02:49.490558	LOG	PUSH_ACK: 02 867e 01
0:02:49.492526	LOG	GPS Time from gateway: 1385109419030
0:02:49.493558	LOG	PUSH_DATA: Protocol version = 02, Token = 867e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3873108510, 'time': '2023-11-27T08:36:40.030339Z', 'tmms': 1385109419030, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3274, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAcAECnyLkXsM031bQxp4='}]}
0:02:49.495528	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0170, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 56d0c69e)
0:02:49.496560	LOG	Server <---------- DUT
0:02:49.498581	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0151, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: ed7886d0)
0:02:49.500565	LOG	PULL_RESP: Protocol version = 02, Token = 1c46, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3875108510, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAUQEAwEo3ZSLteIbQ'}}
0:02:49.501527	LOG	Server ----------> DUT
0:02:49.509036	LOG	TX_ACK: 02 1c46 05 0016c001ff1025bf
0:02:53.905209	LOG	GPS Time updated: 1385109423550
0:02:53.906208	LOG	PULL_DATA: 02 c323 02 0016c001ff1025bf
0:02:53.908209	LOG	PULL_ACK: 02 c323 04
0:02:54.386704	LOG	First uplink received. Open reception window.
0:02:54.489802	LOG	PUSH_ACK: 02 fca1 01
0:02:54.491770	LOG	GPS Time from gateway: 1385109424029
0:02:54.492769	LOG	PUSH_DATA: Protocol version = 02, Token = fca1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3878108387, 'time': '2023-11-27T08:36:45.030218Z', 'tmms': 1385109424029, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3286, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCcQEDBwJEDHPbA/NlPVopng=='}]}

0:02:54.494775	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0171, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 3d5a299e)
0:02:54.495774	LOG	Server <---------- DUT
0:02:54.497774	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:54.499774	LOG	Command Answer: 0307
0:02:54.506284	LOG	MAC command communication completed
0:02:54.510293	LOG	End Test Step: Check unsupported data rates
0:02:54.515284	LOG	Partial Verdict: PASS
0:02:54.519317	LOG	==========
0:02:54.525322	LOG	==========
0:02:54.527321	LOG	Start Test Step: Test Channel mask functionality and disable all channels
0:02:54.538870	LOG	Step 01-03
0:02:54.543883	LOG	Send MAC command block process starts
0:02:59.383672	LOG	First uplink received. Open reception window.
0:02:59.492003	LOG	PUSH_ACK: 02 5df7 01
0:02:59.494003	LOG	GPS Time from gateway: 1385109429029
0:02:59.495003	LOG	PUSH_DATA: Protocol version = 02, Token = 5df7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3883108029, 'time': '2023-11-27T08:36:50.029859Z', 'tmms': 1385109429029, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3286, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAcgECAmO/3qLRBqYc+Zw='}]}
0:02:59.496987	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0172, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a61cf99c)
0:02:59.497970	LOG	Server <---------- DUT
0:02:59.499969	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0152, FOpts:), FPort: 00, FRMPayload: 0703886684500350070001), MIC: 6257d05c)
0:02:59.501972	LOG	PULL_RESP: Protocol version = 02, Token = cc71, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3885108029, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 24, 'data': 'YAAAAAAAUgEAAzP5t7P1E70cKOpiV9Bc'}}
0:02:59.503003	LOG	Server ----------> DUT
0:02:59.505586	LOG	TX_ACK: 02 cc71 05 0016c001ff1025bf
0:03:03.915467	LOG	GPS Time updated: 1385109433560
0:03:03.916467	LOG	PULL_DATA: 02 d6a1 02 0016c001ff1025bf
0:03:03.918468	LOG	PULL_ACK: 02 d6a1 04
0:03:04.385843	LOG	First uplink received. Open reception window.
0:03:04.493430	LOG	PUSH_ACK: 02 6e1f 01
0:03:04.495398	LOG	GPS Time from gateway: 1385109434034
0:03:04.497405	LOG	PUSH_DATA: Protocol version = 02, Token = 6e1f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3888113033, 'time': '2023-11-27T08:36:55.034861Z', 'tmms': 1385109434034, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3297, 'rssi': -50, 'size': 24, 'data': 'QAAAAACEcwEHAwMHAleuRnXQXRFueh87'}]}
0:03:04.499410	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0173, FOpts: 07030307), FPort: 02, FRMPayload: 00000001020000, MIC: 6e7a1f3b)
0:03:04.500409	LOG	Server <---------- DUT
0:03:04.502410	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:03:04.503915	LOG	Command Answer: 07030307
0:03:04.557633	LOG	MAC command communication completed
0:03:04.560636	LOG	Check previous uplink data rate process starts
0:03:04.564635	LOG	Uplink received with expected Data Rate
0:03:04.568148	LOG	Receive frame on specific channels process starts

0:03:04.576199	LOG	Attempt 1/20
0:03:09.380340	LOG	First uplink received. Open reception window.
0:03:09.486679	LOG	PUSH_ACK: 02 bdaf 01
0:03:09.488647	LOG	GPS Time from gateway: 1385109439029
0:03:09.489646	LOG	PUSH_DATA: Protocol version = 02, Token = bdaf, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3893107532, 'time': '2023-11-27T08:37:00.029360Z', 'tmms': 1385109439029, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3285, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAdAEC7Cw0H3bLKQ05zNg='}]}
0:03:09.491652	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0174, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0d39ccd8)
0:03:09.492647	LOG	Server <---------- DUT
0:03:09.494647	LOG	Attempt 2/20
0:03:13.995581	LOG	GPS Time updated: 1385109443643
0:03:13.996581	LOG	PULL_DATA: 02 b2d2 02 0016c001ff1025bf
0:03:13.998583	LOG	PULL_ACK: 02 b2d2 04
0:03:14.379190	LOG	First uplink received. Open reception window.
0:03:14.493259	LOG	PUSH_ACK: 02 8121 01
0:03:14.495227	LOG	GPS Time from gateway: 1385109444028
0:03:14.496260	LOG	PUSH_DATA: Protocol version = 02, Token = 8121, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3898107277, 'time': '2023-11-27T08:37:05.029104Z', 'tmms': 1385109444028, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3282, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAdQECV//Oh6Brvpi7iDo='}]}
0:03:14.497259	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0175, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 98bb883a)
0:03:14.499261	LOG	Server <---------- DUT
0:03:14.500797	LOG	Attempt 3/20
0:03:19.379247	LOG	First uplink received. Open reception window.
0:03:19.491622	LOG	PUSH_ACK: 02 6541 01
0:03:19.493656	LOG	GPS Time from gateway: 1385109449028
0:03:19.494656	LOG	PUSH_DATA: Protocol version = 02, Token = 6541, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3903107055, 'time': '2023-11-27T08:37:10.028880Z', 'tmms': 1385109449028, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3297, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAdgECHvN6CRziJBSP3g4='}]}
0:03:19.496625	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0176, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 148fde0e)
0:03:19.497659	LOG	Server <---------- DUT
0:03:19.499626	LOG	Attempt 4/20
0:03:24.075776	LOG	GPS Time updated: 1385109453723
0:03:24.076776	LOG	PULL_DATA: 02 fe61 02 0016c001ff1025bf
0:03:24.078777	LOG	PULL_ACK: 02 fe61 04
0:03:24.384239	LOG	First uplink received. Open reception window.
0:03:24.489317	LOG	PUSH_ACK: 02 a84f 01
0:03:24.491322	LOG	GPS Time from gateway: 1385109454028
0:03:24.492355	LOG	PUSH_DATA: Protocol version = 02, Token = a84f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3908106830, 'time': '2023-11-27T08:37:15.028655Z', 'tmms': 1385109454028, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3293, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAdwEC1FklXqtmIJNvOmU='}]}
0:03:24.494324	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0177, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 936f3a65)
0:03:24.495354	LOG	Server <---------- DUT
0:03:24.497360	LOG	Attempt 5/20
0:03:29.381063	LOG	First uplink received. Open reception window.

0:03:29.485854	LOG	PUSH_ACK: 02 4a67 01
0:03:29.487857	LOG	GPS Time from gateway: 1385109459028
0:03:29.488855	LOG	PUSH_DATA: Protocol version = 02, Token = 4a67, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3913106596, 'time': '2023-11-27T08:37:20.028419Z', 'tmms': 1385109459028, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3293, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAeAECjd7ku22oUjxhZHU='}]}
0:03:29.490861	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0178, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3c616475)
0:03:29.491860	LOG	Server <---------- DUT
0:03:29.493861	LOG	Attempt 6/20
0:03:34.165726	LOG	GPS Time updated: 1385109463812
0:03:34.166727	LOG	PULL_DATA: 02 3134 02 0016c001ff1025bf
0:03:34.168728	LOG	PULL_ACK: 02 3134 04
0:03:34.384475	LOG	First uplink received. Open reception window.
0:03:34.489582	LOG	PUSH_ACK: 02 2cb7 01
0:03:34.491587	LOG	GPS Time from gateway: 1385109464027
0:03:34.492586	LOG	PUSH_DATA: Protocol version = 02, Token = 2cb7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3918106371, 'time': '2023-11-27T08:37:25.028192Z', 'tmms': 1385109464027, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3293, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAeQECbMTLeVkcTJuhBME='}]}
0:03:34.493590	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0179, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9ba104c1)
0:03:34.495591	LOG	Server <---------- DUT
0:03:34.497591	LOG	Attempt 7/20
0:03:39.381162	LOG	First uplink received. Open reception window.
0:03:39.486754	LOG	PUSH_ACK: 02 b2ef 01
0:03:39.488723	LOG	GPS Time from gateway: 1385109469027
0:03:39.489722	LOG	PUSH_DATA: Protocol version = 02, Token = b2ef, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3923106149, 'time': '2023-11-27T08:37:30.027969Z', 'tmms': 1385109469027, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3293, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAegECPG6ba0WbC2IKsoY='}]}
0:03:39.490727	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 017a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 620ab286)
0:03:39.492728	LOG	Server <---------- DUT
0:03:39.493727	LOG	Attempt 8/20
0:03:44.255883	LOG	GPS Time updated: 1385109473902
0:03:44.256880	LOG	PULL_DATA: 02 daae 02 0016c001ff1025bf
0:03:44.258882	LOG	PULL_ACK: 02 daae 04
0:03:44.380757	LOG	First uplink received. Open reception window.
0:03:44.495360	LOG	PUSH_ACK: 02 9037 01
0:03:44.497360	LOG	GPS Time from gateway: 1385109474027
0:03:44.498361	LOG	PUSH_DATA: Protocol version = 02, Token = 9037, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3928105882, 'time': '2023-11-27T08:37:35.027703Z', 'tmms': 1385109474027, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3308, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAewECEN7HdoYBZwIlXNA='}]}
0:03:44.499361	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 017b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 02255cd0)
0:03:44.501328	LOG	Server <---------- DUT
0:03:44.503330	LOG	Attempt 9/20
0:03:49.376338	LOG	First uplink received. Open reception window.
0:03:49.490381	LOG	PUSH_ACK: 02 d813 01
0:03:49.492053	LOG	GPS Time from gateway: 1385109479027

0:03:49.493999	LOG	PUSH_DATA: Protocol version = 02, Token = d813, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3933105659, 'time': '2023-11-27T08:37:40.027479Z', 'tmms': 1385109479027, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3308, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAfAEChNw376H4k6PB93U='}]}
0:03:49.495401	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 017c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a3c1f775)
0:03:49.496466	LOG	Server <---------- DUT
0:03:49.498181	LOG	Attempt 10/20
0:03:54.335532	LOG	GPS Time updated: 1385109483987
0:03:54.337531	LOG	PULL_DATA: 02 8595 02 0016c001ff1025bf
0:03:54.338536	LOG	PULL_ACK: 02 8595 04
0:03:54.380258	LOG	First uplink received. Open reception window.
0:03:54.491074	LOG	PUSH_ACK: 02 c237 01
0:03:54.493047	LOG	GPS Time from gateway: 1385109484026
0:03:54.494042	LOG	PUSH_DATA: Protocol version = 02, Token = c237, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3938105430, 'time': '2023-11-27T08:37:45.027249Z', 'tmms': 1385109484026, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3308, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAfQECdocvhGhQ/CQFQ/8='}]}
0:03:54.496047	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 017d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 240543ff)
0:03:54.497047	LOG	Server <---------- DUT
0:03:54.499047	LOG	Attempt 11/20
0:03:59.384466	LOG	First uplink received. Open reception window.
0:03:59.492439	LOG	PUSH_ACK: 02 6744 01
0:03:59.494412	LOG	GPS Time from gateway: 1385109489026
0:03:59.495407	LOG	PUSH_DATA: Protocol version = 02, Token = 6744, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3943105198, 'time': '2023-11-27T08:37:50.027017Z', 'tmms': 1385109489026, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3309, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAfgECoMLcOe/NbJmcdV8='}]}
0:03:59.496411	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 017e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 999c755f)
0:03:59.498412	LOG	Server <---------- DUT
0:03:59.500411	LOG	Attempt 12/20
0:04:04.379497	LOG	#**********CURRENT BEACON SENT**********#
0:04:04.380967	LOG	PULL_RESP: Protocol version = 02, Token = bd9a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385109504000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAGI9S05sAAAAAAAAAAA='}}
0:04:04.382973	LOG	Server ----------> DUT
0:04:04.383972	LOG	#**********#
0:04:04.394005	LOG	#**********NEXT BEACON QUEUED**********#
0:04:04.395972	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385109632000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAGI9S60YAAAAAAAAAAA='}}
0:04:04.396977	LOG	Server ----------> DUT
0:04:04.397976	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 80188f52, CRC1: eb46, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385109632000
0:04:04.400010	LOG	#**********#

0:04:04.401012	LOG	Next BEACON scheduled at GPS time (ms): 1385109760000
0:04:04.402009	LOG	First uplink received. Open reception window.
0:04:04.404009	LOG	TX_ACK: 02 bd9a 05 0016c001ff1025bf
0:04:04.405011	LOG	PULL_DATA: 02 d4bd 02 0016c001ff1025bf
0:04:04.407009	LOG	PULL_ACK: 02 d4bd 04
0:04:04.509405	LOG	PUSH_ACK: 02 580e 01
0:04:04.511358	LOG	GPS Time from gateway: 1385109494026
0:04:04.513282	LOG	PUSH_DATA: Protocol version = 02, Token = 580e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3948104972, 'time': '2023-11-27T08:37:55.026790Z', 'tmms': 1385109494026, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3316, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAfwECCnr0cO8YSvBfrDU='}]}
0:04:04.515284	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 017f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f05fac35)
0:04:04.516283	LOG	Server <---------- DUT
0:04:04.518316	LOG	Attempt 13/20
0:04:09.379612	LOG	First uplink received. Open reception window.
0:04:09.483399	LOG	PUSH_ACK: 02 4fd2 01
0:04:09.485399	LOG	GPS Time from gateway: 1385109499026
0:04:09.486399	LOG	PUSH_DATA: Protocol version = 02, Token = 4fd2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3953104749, 'time': '2023-11-27T08:38:00.026566Z', 'tmms': 1385109499026, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3313, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAgAECQq/w6WGk8LKi6Mg='}]}
0:04:09.488400	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0180, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b2a2e8c8)
0:04:09.489403	LOG	Server <---------- DUT
0:04:09.491409	LOG	Attempt 14/20
0:04:14.496358	LOG	GPS Time updated: 1385109504143
0:04:14.497329	LOG	PULL_DATA: 02 2268 02 0016c001ff1025bf
0:04:14.499330	LOG	PULL_ACK: 02 2268 04
0:04:19.384453	LOG	First uplink received. Open reception window.
0:04:19.488864	LOG	PUSH_ACK: 02 9d8a 01
0:04:19.490868	LOG	GPS Time from gateway: 1385109509025
0:04:19.492921	LOG	PUSH_DATA: Protocol version = 02, Token = 9d8a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3963104267, 'time': '2023-11-27T08:38:10.026081Z', 'tmms': 1385109509025, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3320, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAggEC+7y36bbKw+72xNo='}]}
0:04:19.493911	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0182, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: eef6c4da)
0:04:19.495872	LOG	Server <---------- DUT
0:04:19.496872	LOG	Attempt 15/20
0:04:24.379429	LOG	First uplink received. Open reception window.
0:04:24.491794	LOG	PUSH_ACK: 02 0a4f 01
0:04:24.493763	LOG	GPS Time from gateway: 1385109514025
0:04:24.494762	LOG	PUSH_DATA: Protocol version = 02, Token = 0a4f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3968103999, 'time': '2023-11-27T08:38:15.025813Z', 'tmms': 1385109514025, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3320, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAgwECKzeaON61bfmqSSU='}]}
0:04:24.495766	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0183, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f9aa4925)
0:04:24.497767	LOG	Server <---------- DUT
0:04:24.498766	LOG	Attempt 16/20
0:04:24.576391	LOG	GPS Time updated: 1385109514223

0:04:24.577422	LOG	PULL_DATA: 02 79e4 02 0016c001ff1025bf
0:04:24.579423	LOG	PULL_ACK: 02 79e4 04
0:04:29.382136	LOG	First uplink received. Open reception window.
0:04:29.489975	LOG	PUSH_ACK: 02 fe09 01
0:04:29.492014	LOG	GPS Time from gateway: 1385109519025
0:04:29.493012	LOG	PUSH_DATA: Protocol version = 02, Token = fe09, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3973103770, 'time': '2023-11-27T08:38:20.025581Z', 'tmms': 1385109519025, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3324, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAhAECl/pYDdCtjzcbRZE='}]}
0:04:29.494981	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0184, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 371b4591)
0:04:29.495980	LOG	Server <---------- DUT
0:04:29.496980	LOG	Attempt 17/20
0:04:34.382319	LOG	First uplink received. Open reception window.
0:04:34.492779	LOG	PUSH_ACK: 02 1ba3 01
0:04:34.494784	LOG	GPS Time from gateway: 1385109524025
0:04:34.495820	LOG	PUSH_DATA: Protocol version = 02, Token = 1ba3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3978103550, 'time': '2023-11-27T08:38:25.025360Z', 'tmms': 1385109524025, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3324, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAhQECZND0FndGyvCns1w='}]}
0:04:34.497783	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0185, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f0a7b35c)
0:04:34.498781	LOG	Server <---------- DUT
0:04:34.499814	LOG	Attempt 18/20
0:04:34.666323	LOG	GPS Time updated: 1385109524309
0:04:34.667794	LOG	PULL_DATA: 02 6ff3 02 0016c001ff1025bf
0:04:34.669799	LOG	PULL_ACK: 02 6ff3 04
0:04:39.373145	LOG	First uplink received. Open reception window.
0:04:39.474258	LOG	PUSH_ACK: 02 b7f4 01
0:04:39.475831	LOG	GPS Time from gateway: 1385109529024
0:04:39.477833	LOG	PUSH_DATA: Protocol version = 02, Token = b7f4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3983103291, 'time': '2023-11-27T08:38:30.025103Z', 'tmms': 1385109529024, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3324, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAhgECBy8zAN5NwFyrhr0='}]}
0:04:39.478832	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0186, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5cab86bd)
0:04:39.480800	LOG	Server <---------- DUT
0:04:39.481838	LOG	Attempt 19/20
0:04:44.377070	LOG	First uplink received. Open reception window.
0:04:44.481075	LOG	PUSH_ACK: 02 8879 01
0:04:44.483043	LOG	GPS Time from gateway: 1385109534024
0:04:44.484076	LOG	PUSH_DATA: Protocol version = 02, Token = 8879, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3988103022, 'time': '2023-11-27T08:38:35.024833Z', 'tmms': 1385109534024, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3328, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAhwEC80bN5Rqbhbk5Z7c='}]}
0:04:44.485076	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0187, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b93967b7)
0:04:44.487053	LOG	Server <---------- DUT
0:04:44.489045	LOG	Attempt 20/20
0:04:44.746640	LOG	GPS Time updated: 1385109534393
0:04:44.747640	LOG	PULL_DATA: 02 2cf0 02 0016c001ff1025bf
0:04:44.749610	LOG	PULL_ACK: 02 2cf0 04

0:04:49.376613	LOG	First uplink received. Open reception window.
0:04:49.477218	LOG	PUSH_ACK: 02 fe91 01
0:04:49.479186	LOG	GPS Time from gateway: 1385109539024
0:04:49.481186	LOG	PUSH_DATA: Protocol version = 02, Token = fe91, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3993102799, 'time': '2023-11-27T08:38:40.024609Z', 'tmms': 1385109539024, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3328, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAiAEChzopyUVBH51OYBU='}]}
0:04:49.482708	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0188, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9d4e6015)
0:04:49.483714	LOG	Server <---------- DUT
0:04:49.495751	LOG	Step 04-06
0:04:49.498782	LOG	Send LinkADRReq process starts
0:04:54.374490	LOG	First uplink received. Open reception window.
0:04:54.486578	LOG	PUSH_ACK: 02 424d 01
0:04:54.488050	LOG	GPS Time from gateway: 1385109544024
0:04:54.490055	LOG	PUSH_DATA: Protocol version = 02, Token = 424d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3998102575, 'time': '2023-11-27T08:38:45.024383Z', 'tmms': 1385109544024, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3335, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAiQECTTKJ7Dige8jIqBM='}]}
0:04:54.491054	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0189, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c8c8a813)
0:04:54.492060	LOG	Server <---------- DUT
0:04:54.494059	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0153, FOpts:), FPort: 00, FRMPayload: 03500f0001), MIC: b9a1d5e7)
0:04:54.496060	LOG	PULL_RESP: Protocol version = 02, Token = 82a7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4000102575, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAUwEAy+JFv/a5odXn'}}
0:04:54.498060	LOG	Server ----------> DUT
0:04:54.501061	LOG	TX_ACK: 02 82a7 05 0016c001ff1025bf
0:04:54.916875	LOG	GPS Time updated: 1385109544566
0:04:54.917906	LOG	PULL_DATA: 02 6460 02 0016c001ff1025bf
0:04:54.919922	LOG	PULL_ACK: 02 6460 04
0:04:59.381926	LOG	First uplink received. Open reception window.
0:04:59.497621	LOG	PUSH_ACK: 02 4486 01
0:04:59.499589	LOG	GPS Time from gateway: 1385109549023
0:04:59.500589	LOG	PUSH_DATA: Protocol version = 02, Token = 4486, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4003102441, 'time': '2023-11-27T08:38:50.024248Z', 'tmms': 1385109549023, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3335, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCigEDBwIM8JCGPDBnYDKDdQ=='}]}
0:04:59.502593	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 018a, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 60328375)
0:04:59.503594	LOG	Server <---------- DUT
0:04:59.505600	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:04:59.507098	LOG	Command Answer: 0307
0:04:59.516105	LOG	MAC command communication completed
0:04:59.520105	LOG	Receive frame on specific channels process starts
0:04:59.532192	LOG	Attempt 1/20
0:05:04.377772	LOG	First uplink received. Open reception window.
0:05:04.480565	LOG	PUSH_ACK: 02 c9a2 01
0:05:04.482568	LOG	GPS Time from gateway: 1385109554023

0:05:04.483600	LOG	PUSH_DATA: Protocol version = 02, Token = c9a2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4008102093, 'time': '2023-11-27T08:38:55.023900Z', 'tmms': 1385109554023, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3332, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAiwECUbqhZu5a8QXWOTY='}]}
0:05:04.484599	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 018b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 05d63936)
0:05:04.486566	LOG	Server <---------- DUT
0:05:04.487600	LOG	Attempt 2/20
0:05:05.007048	LOG	GPS Time updated: 1385109554654
0:05:05.009095	LOG	PULL_DATA: 02 d966 02 0016c001ff1025bf
0:05:05.010717	LOG	PULL_ACK: 02 d966 04
0:05:09.372152	LOG	First uplink received. Open reception window.
0:05:09.483881	LOG	PUSH_ACK: 02 2de3 01
0:05:09.485850	LOG	GPS Time from gateway: 1385109559023
0:05:09.486849	LOG	PUSH_DATA: Protocol version = 02, Token = 2de3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4013101828, 'time': '2023-11-27T08:39:00.023633Z', 'tmms': 1385109559023, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3332, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAjAECg2V7YkZZm6Zdgwg='}]}
0:05:09.487849	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 018c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a65d8308)
0:05:09.489855	LOG	Server <---------- DUT
0:05:09.490854	LOG	Attempt 3/20
0:05:14.376906	LOG	First uplink received. Open reception window.
0:05:14.490616	LOG	PUSH_ACK: 02 b5a6 01
0:05:14.492588	LOG	GPS Time from gateway: 1385109564023
0:05:14.493586	LOG	PUSH_DATA: Protocol version = 02, Token = b5a6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4018101599, 'time': '2023-11-27T08:39:05.023403Z', 'tmms': 1385109564023, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3330, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAjQECBP3jivkLP2+lB2k='}]}
0:05:14.495605	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 018d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6fa50769)
0:05:14.496591	LOG	Server <---------- DUT
0:05:14.498591	LOG	Attempt 4/20
0:05:15.087060	LOG	GPS Time updated: 1385109564735
0:05:15.089018	LOG	PULL_DATA: 02 c7b3 02 0016c001ff1025bf
0:05:15.090017	LOG	PULL_ACK: 02 c7b3 04
0:05:19.376087	LOG	First uplink received. Open reception window.
0:05:19.486827	LOG	PUSH_ACK: 02 571f 01
0:05:19.488797	LOG	GPS Time from gateway: 1385109569022
0:05:19.489795	LOG	PUSH_DATA: Protocol version = 02, Token = 571f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4023101377, 'time': '2023-11-27T08:39:10.023180Z', 'tmms': 1385109569022, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3346, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAjgECLy1BtK2s7MmL5Hc='}]}
0:05:19.491846	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 018e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c98be477)
0:05:19.492884	LOG	Server <---------- DUT
0:05:19.494850	LOG	Attempt 5/20
0:05:24.375432	LOG	First uplink received. Open reception window.
0:05:24.486735	LOG	PUSH_ACK: 02 d50e 01
0:05:24.488703	LOG	GPS Time from gateway: 1385109574022
0:05:24.489703	LOG	PUSH_DATA: Protocol version = 02, Token = d50e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4028101112, 'time': '2023-11-27T08:39:15.022913Z',

		'tmms': 1385109574022, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3347, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAjwECxMkPIyCHtB/HrQM='}]}
0:05:24.491704	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 018f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1fc7ad03)
0:05:24.492709	LOG	Server <---------- DUT
0:05:24.494709	LOG	Attempt 6/20
0:05:25.167206	LOG	GPS Time updated: 1385109574815
0:05:25.168196	LOG	PULL_DATA: 02 145d 02 0016c001ff1025bf
0:05:25.170164	LOG	PULL_ACK: 02 145d 04
0:05:29.371693	LOG	First uplink received. Open reception window.
0:05:29.481266	LOG	PUSH_ACK: 02 8740 01
0:05:29.483267	LOG	GPS Time from gateway: 1385109579022
0:05:29.484271	LOG	PUSH_DATA: Protocol version = 02, Token = 8740, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4033100889, 'time': '2023-11-27T08:39:20.022689Z', 'tmms': 1385109579022, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3346, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAkAECD3Uz6iIOeFtYDA0='}]}
0:05:29.485306	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0190, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5b580c0d)
0:05:29.487312	LOG	Server <---------- DUT
0:05:29.489270	LOG	Attempt 7/20
0:05:34.371342	LOG	First uplink received. Open reception window.
0:05:34.486204	LOG	PUSH_ACK: 02 4d45 01
0:05:34.488203	LOG	GPS Time from gateway: 1385109584022
0:05:34.489203	LOG	PUSH_DATA: Protocol version = 02, Token = 4d45, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4038100659, 'time': '2023-11-27T08:39:25.022461Z', 'tmms': 1385109584022, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3346, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAkQECc+xchD1ldDa6C98='}]}
0:05:34.490205	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0191, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 36ba0bdf)
0:05:34.492206	LOG	Server <---------- DUT
0:05:34.494218	LOG	Attempt 8/20
0:05:35.247729	LOG	GPS Time updated: 1385109584897
0:05:35.248730	LOG	PULL_DATA: 02 c44b 02 0016c001ff1025bf
0:05:35.250699	LOG	PULL_ACK: 02 c44b 04
0:05:39.371923	LOG	First uplink received. Open reception window.
0:05:39.476235	LOG	PUSH_ACK: 02 d606 01
0:05:39.478240	LOG	GPS Time from gateway: 1385109589021
0:05:39.479239	LOG	PUSH_DATA: Protocol version = 02, Token = d606, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4043100422, 'time': '2023-11-27T08:39:30.022223Z', 'tmms': 1385109589021, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3354, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAkgECPp4Zo0kaUusUH9U='}]}
0:05:39.480240	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0192, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: eb141fd5)
0:05:39.482240	LOG	Server <---------- DUT
0:05:39.483239	LOG	Attempt 9/20
0:05:44.373398	LOG	First uplink received. Open reception window.
0:05:44.475624	LOG	PUSH_ACK: 02 983a 01
0:05:44.477094	LOG	GPS Time from gateway: 1385109594021
0:05:44.479099	LOG	PUSH_DATA: Protocol version = 02, Token = 983a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4048100210, 'time': '2023-11-27T08:39:35.022010Z', 'tmms': 1385109594021, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3358, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAkwECa9+x/cPmUPI42NA='}]}
0:05:44.480098	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0193, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f238d8d0)
0:05:44.481098	LOG	Server <---------- DUT
0:05:44.486136	LOG	Receive frame on specific channels process tested successfully
0:05:44.490100	LOG	Step 07-08
0:05:44.494113	LOG	Send NewChannelReq process starts
0:05:45.347185	LOG	GPS Time updated: 1385109594995
0:05:45.349181	LOG	PULL_DATA: 02 67dc 02 0016c001ff1025bf
0:05:45.350149	LOG	PULL_ACK: 02 67dc 04
0:05:49.374247	LOG	First uplink received. Open reception window.
0:05:49.478719	LOG	PUSH_ACK: 02 7f99 01
0:05:49.480686	LOG	GPS Time from gateway: 1385109599021
0:05:49.481686	LOG	PUSH_DATA: Protocol version = 02, Token = 7f99, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4053099945, 'time': '2023-11-27T08:39:40.021743Z', 'tmms': 1385109599021, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3353, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAlAECjcgEQjlPg09QnA8='}]}
0:05:49.482687	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0194, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4f509c0f)
0:05:49.484687	LOG	Server <---------- DUT
0:05:49.486687	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0154, FOpts:), FPort: 00, FRMPayload: 070300000050), MIC: e71b3452)
0:05:49.488687	LOG	PULL_RESP: Protocol version = 02, Token = 741f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4055099945, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YAAAAAAAVAEA6IHBVgl15xs0Ug=='}}
0:05:49.489687	LOG	Server ----------> DUT
0:05:49.493951	LOG	TX_ACK: 02 741f 05 0016c001ff1025bf
0:05:54.375842	LOG	First uplink received. Open reception window.
0:05:54.478681	LOG	PUSH_ACK: 02 96ac 01
0:05:54.480715	LOG	GPS Time from gateway: 1385109604021
0:05:54.481718	LOG	PUSH_DATA: Protocol version = 02, Token = 96ac, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4058099811, 'time': '2023-11-27T08:39:45.021608Z', 'tmms': 1385109604021, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3362, 'rssi': -50, 'size': 22, 'data': 'QAAAAACClQEHAwKrj8ZUR9XYv1Pr6Q=='}]}
0:05:54.482716	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0195, FOpts: 0703), FPort: 02, FRMPayload: 00000001020000, MIC: bf53ebe9)
0:05:54.484717	LOG	Server <---------- DUT
0:05:54.485718	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:05:54.487717	LOG	Command Answer: 0703
0:05:54.492879	LOG	MAC command communication completed
0:05:54.495886	LOG	Step 09-10
0:05:54.499883	LOG	Send LinkADRReq process starts
0:05:55.368165	LOG	GPS Time updated: 1385109605013
0:05:55.369196	LOG	PULL_DATA: 02 7c4b 02 0016c001ff1025bf
0:05:55.371166	LOG	PULL_ACK: 02 7c4b 04
0:05:59.374632	LOG	First uplink received. Open reception window.
0:05:59.484845	LOG	PUSH_ACK: 02 5243 01
0:05:59.486813	LOG	GPS Time from gateway: 1385109609020
0:05:59.487813	LOG	PUSH_DATA: Protocol version = 02, Token = 5243, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4063099451, 'time': '2023-11-27T08:39:50.021247Z', 'tmms': 1385109609020, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3354, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAlgECz63sdHBGfamZEDg='}]}
0:05:59.489813	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0196, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a9991038)
0:05:59.490813	LOG	Server <---------- DUT
0:05:59.492814	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0155, FOpts:), FPort: 00, FRMPayload: 0350000001), MIC: 29fb9d07)
0:05:59.494832	LOG	PULL_RESP: Protocol version = 02, Token = 8a29, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4065099451, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAVQEAbwjy1Qkp+50H'}}
0:05:59.495819	LOG	Server ----------> DUT
0:05:59.498579	LOG	TX_ACK: 02 8a29 05 0016c001ff1025bf
0:06:04.376540	LOG	First uplink received. Open reception window.
0:06:04.479961	LOG	PUSH_ACK: 02 ff02 01
0:06:04.481962	LOG	GPS Time from gateway: 1385109614020
0:06:04.482962	LOG	PUSH_DATA: Protocol version = 02, Token = ff02, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4068099320, 'time': '2023-11-27T08:39:55.021115Z', 'tmms': 1385109614020, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3366, 'rssi': -50, 'size': 22, 'data': 'QAAAAACClwEDBAKRSIOa4ikWz02xng=='}]}
0:06:04.484962	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0197, FOpts: 0304), FPort: 02, FRMPayload: 00000001020000, MIC: cf4db19e)
0:06:04.485964	LOG	Server <---------- DUT
0:06:04.487943	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:06:04.489930	LOG	Command Answer: 0304
0:06:04.494678	LOG	MAC command communication completed
0:06:04.497707	LOG	LinkADRAns received: 04
0:06:04.501677	LOG	Step 10-11
0:06:04.505683	LOG	Send LinkADRReq process starts
0:06:05.377568	LOG	GPS Time updated: 1385109615021
0:06:05.379536	LOG	PULL_DATA: 02 2556 02 0016c001ff1025bf
0:06:05.381542	LOG	PULL_ACK: 02 2556 04
0:06:09.373740	LOG	First uplink received. Open reception window.
0:06:09.486019	LOG	PUSH_ACK: 02 22fa 01
0:06:09.490990	LOG	GPS Time from gateway: 1385109619020
0:06:09.492988	LOG	PUSH_DATA: Protocol version = 02, Token = 22fa, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4073099000, 'time': '2023-11-27T08:40:00.020794Z', 'tmms': 1385109619020, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3355, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAmAECbIHm8SK4U1T2ABg='}]}
0:06:09.494993	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0198, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 54f60018)
0:06:09.495992	LOG	Server <---------- DUT
0:06:09.497993	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0156, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: 96275109)
0:06:09.499993	LOG	PULL_RESP: Protocol version = 02, Token = 8939, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4075099000, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAVgEAYhY4OC2WJ1EJ'}}
0:06:09.500992	LOG	Server ----------> DUT
0:06:09.507026	LOG	TX_ACK: 02 8939 05 0016c001ff1025bf
0:06:14.371024	LOG	#**********CURRENT BEACON SENT**********#

0:06:14.372528	LOG	PULL_RESP: Protocol version = 02, Token = 23c6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385109632000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAGI9S60YAAAAAAAAAAA='}}
0:06:14.374534	LOG	Server ----------> DUT
0:06:14.375538	LOG	#**********# ******#
0:06:14.385043	LOG	#**********NEXT BEACON QUEUED**********#
0:06:14.387082	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385109760000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAGY9S46wAAAAAAAAAAA='}}
0:06:14.389082	LOG	Server ----------> DUT
0:06:14.391083	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 00198f52, CRC1: e3ac, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385109760000
0:06:14.392046	LOG	#**********# ******#
0:06:14.394046	LOG	Next BEACON scheduled at GPS time (ms): 1385109888000
0:06:14.396046	LOG	First uplink received. Open reception window.
0:06:14.397080	LOG	TX_ACK: 02 23c6 05 0016c001ff1025bf
0:06:14.508411	LOG	PUSH_ACK: 02 6436 01
0:06:14.510416	LOG	GPS Time from gateway: 1385109624020
0:06:14.512451	LOG	PUSH_DATA: Protocol version = 02, Token = 6436, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4078098870, 'time': '2023-11-27T08:40:05.020662Z', 'tmms': 1385109624020, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3358, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCmQEDBwLNANTKd+8bpCffWA=='}]}
0:06:14.514472	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0199, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: a427df58)
0:06:14.515421	LOG	Server <---------- DUT
0:06:14.517453	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:06:14.519451	LOG	Command Answer: 0307
0:06:14.526450	LOG	MAC command communication completed
0:06:14.529417	LOG	End Test Step: Test Channel mask functionality and disable all channels
0:06:14.532416	LOG	Partial Verdict: PASS
0:06:14.536925	LOG	==========
0:06:14.541438	LOG	==========
0:06:14.544461	LOG	Start Test Step: Redundancy
0:06:14.555799	LOG	Step 01-02
0:06:14.558455	LOG	Send Test Command RxAppCntReq process starts
0:06:15.417922	LOG	GPS Time updated: 1385109625040
0:06:15.418887	LOG	PULL_DATA: 02 58eb 02 0016c001ff1025bf
0:06:15.420888	LOG	PULL_ACK: 02 58eb 04
0:06:19.374590	LOG	First uplink received. Open reception window.
0:06:19.487276	LOG	PUSH_ACK: 02 303a 01
0:06:19.489287	LOG	GPS Time from gateway: 1385109629019
0:06:19.490275	LOG	PUSH_DATA: Protocol version = 02, Token = 303a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4083098516, 'time': '2023-11-27T08:40:10.020307Z', 'tmms': 1385109629019, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3362, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAmgEC8K9/vGGG4llNQl0='}]}
0:06:19.491277	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 019a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 894d425d)

0:06:19.493246	LOG	Server <---------- DUT
0:06:19.494252	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0157, FOpts:), FPort: e0, FRMPayload: 09), MIC: e0da6ce4)
0:06:19.496250	LOG	Frame command sent to the DUT
0:06:19.497250	LOG	PULL_RESP: Protocol version = 02, Token = 1939, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4085098516, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAVwHgteDabOQ='}}
0:06:19.499254	LOG	Server ----------> DUT
0:06:19.501113	LOG	GW Message b'{"txpk_ack":{"error":"COLLISION_PACKET"}}'
0:06:19.503158	LOG	Waiting a new Uplink to send the frame again
0:06:24.378645	LOG	First uplink received. Open reception window.
0:06:24.492683	LOG	PUSH_ACK: 02 f107 01
0:06:24.494692	LOG	GPS Time from gateway: 1385109634019
0:06:24.495690	LOG	PUSH_DATA: Protocol version = 02, Token = f107, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4088098250, 'time': '2023-11-27T08:40:15.020043Z', 'tmms': 1385109634019, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3362, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAmwECPZwkE2AWwErd7Cg='}]}
0:06:24.497695	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 019b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4addec28)
0:06:24.498700	LOG	Server <---------- DUT
0:06:24.500701	LOG	PULL_RESP: Protocol version = 02, Token = f7eb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4090098250, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAVwHgteDabOQ='}}
0:06:24.501737	LOG	Server ----------> DUT
0:06:24.504701	LOG	TX_ACK: 02 f7eb 05 0016c001ff1025bf
0:06:25.547976	LOG	GPS Time updated: 1385109635188
0:06:25.548944	LOG	PULL_DATA: 02 4189 02 0016c001ff1025bf
0:06:25.550945	LOG	PULL_ACK: 02 4189 04
0:06:27.630682	LOG	First uplink received. Open reception window.
0:06:27.735632	LOG	PUSH_ACK: 02 41a8 01
0:06:27.737667	LOG	GPS Time from gateway: 1385109637277
0:06:27.738667	LOG	PUSH_DATA: Protocol version = 02, Token = 41a8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4091356100, 'time': '2023-11-27T08:40:18.277892Z', 'tmms': 1385109637277, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3381, 'rssi': -50, 'size': 16, 'data': 'QAAAAACAnAHgFxn8JLkJ0Q=='}]}
0:06:27.739670	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 019c, FOpts:), FPort: e0, FRMPayload: 094500, MIC: 24b909d1)
0:06:27.740666	LOG	Server <---------- DUT
0:06:27.742668	LOG	Frame Command Payload in the Answer: 094500
0:06:27.747026	LOG	RX Count received by DUT: 69
0:06:27.749239	LOG	Send Test Command RxAppCntReq process completed
0:06:27.753186	LOG	Step 03
0:06:27.756219	LOG	Send LinkADRReq process starts
0:06:34.379551	LOG	First uplink received. Open reception window.
0:06:34.480978	LOG	PUSH_ACK: 02 6602 01
0:06:34.482978	LOG	GPS Time from gateway: 1385109644019
0:06:34.483980	LOG	PUSH_DATA: Protocol version = 02, Token = 6602, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4098097759, 'time': '2023-11-27T08:40:25.019549Z', 'tmms': 1385109644019, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3362, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAnQECXiJIDUxBsS8Luhg='}]}

0:06:34.485979	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 019d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2f0bba18)
0:06:34.486981	LOG	Server <---------- DUT
0:06:34.489484	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0158, FOpts:), FPort: 00, FRMPayload: 0350070002), MIC: 3d434f9c)
0:06:34.490488	LOG	PULL_RESP: Protocol version = 02, Token = 0fdb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4100097759, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAWAEAdwIUIi89Q0+c'}}
0:06:34.492522	LOG	Server ----------> DUT
0:06:34.495646	LOG	TX_ACK: 02 0fdb 05 0016c001ff1025bf
0:06:35.747671	LOG	GPS Time updated: 1385109645388
0:06:35.749667	LOG	PULL_DATA: 02 d8e5 02 0016c001ff1025bf
0:06:35.751638	LOG	PULL_ACK: 02 d8e5 04
0:06:39.459361	LOG	First uplink received. Open reception window.
0:06:39.562264	LOG	PUSH_ACK: 02 9b6e 01
0:06:39.564263	LOG	GPS Time from gateway: 1385109649106
0:06:39.565262	LOG	PUSH_DATA: Protocol version = 02, Token = 9b6e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4103184943, 'time': '2023-11-27T08:40:30.106732Z', 'tmms': 1385109649106, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3370, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCngEDBwIBp16suxu5mLUQhQ=='}]}
0:06:39.567267	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 019e, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 98b51085)
0:06:39.568266	LOG	Server <---------- DUT
0:06:39.570268	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:06:39.571773	LOG	Command Answer: 0307
0:06:39.580019	LOG	MAC command communication completed
0:06:39.584062	LOG	Step 04-05
0:06:39.587597	LOG	Check number of uplinks repetitions process starts
0:06:41.750137	LOG	First uplink received. Open reception window.
0:06:41.861735	LOG	PUSH_ACK: 02 9118 01
0:06:41.863736	LOG	GPS Time from gateway: 1385109651394
0:06:41.864737	LOG	PUSH_DATA: Protocol version = 02, Token = 9118, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4105473398, 'time': '2023-11-27T08:40:32.395186Z', 'tmms': 1385109651394, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3369, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCngEDBwIBp16suxu5mLUQhQ=='}]}
0:06:41.866736	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 019e, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 98b51085)
0:06:41.867739	LOG	Server <---------- DUT
0:06:41.869745	LOG	FRMPayload is the same between retransmissions
0:06:41.870747	LOG	Original uplink: 00000001020000
0:06:41.872744	LOG	Actual retransmission: 00000001020000
0:06:41.873744	LOG	FOpts is the same between retransmissions
0:06:41.874744	LOG	Original uplink: 0307
0:06:41.876744	LOG	Actual retransmission: 0307
0:06:41.877745	LOG	FPort is the same between retransmissions
0:06:41.878745	LOG	Original uplink: 02
0:06:41.880745	LOG	Actual retransmission: 02
0:06:44.377905	LOG	First uplink received. Open reception window.
0:06:44.483403	LOG	PUSH_ACK: 02 b9e3 01
0:06:44.485372	LOG	GPS Time from gateway: 1385109654018
0:06:44.486372	LOG	PUSH_DATA: Protocol version = 02, Token = b9e3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4108097277, 'time': '2023-11-27T08:40:35.019066Z',

		'tmms': 1385109654018, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3362, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAnwECXQOP+kszJaz3vzE='}]}
0:06:44.488375	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 019f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: acf7bf31)
0:06:44.489404	LOG	Server <---------- DUT
0:06:44.492404	LOG	Expected repetitions of uplink message have been received
0:06:44.495374	LOG	Step 06-07
0:06:44.499895	LOG	Check number of uplinks repetitions process starts
0:06:45.828139	LOG	GPS Time updated: 1385109655469
0:06:45.830139	LOG	PULL_DATA: 02 5bb8 02 0016c001ff1025bf
0:06:45.831141	LOG	PULL_ACK: 02 5bb8 04
0:06:46.659068	LOG	First uplink received. Open reception window.
0:06:46.763722	LOG	PUSH_ACK: 02 e681 01
0:06:46.765690	LOG	GPS Time from gateway: 1385109656307
0:06:46.766688	LOG	PUSH_DATA: Protocol version = 02, Token = e681, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4110386105, 'time': '2023-11-27T08:40:37.307894Z', 'tmms': 1385109656307, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3362, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAnwECXQOP+kszJaz3vzE='}]}
0:06:46.768694	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 019f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: acf7bf31)
0:06:46.769688	LOG	Server <---------- DUT
0:06:46.771689	LOG	FRMPayload is the same between retransmissions
0:06:46.772721	LOG	Original uplink: 00000001020000
0:06:46.773721	LOG	Actual retransmission: 00000001020000
0:06:46.774721	LOG	FOpts is the same between retransmissions
0:06:46.776724	LOG	Original uplink:
0:06:46.777724	LOG	Actual retransmission:
0:06:46.779778	LOG	FPort is the same between retransmissions
0:06:46.780758	LOG	Original uplink: 02
0:06:46.781758	LOG	Actual retransmission: 02
0:06:49.374647	LOG	First uplink received. Open reception window.
0:06:49.488838	LOG	PUSH_ACK: 02 7b72 01
0:06:49.490344	LOG	GPS Time from gateway: 1385109659018
0:06:49.491347	LOG	PUSH_DATA: Protocol version = 02, Token = 7b72, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4113097077, 'time': '2023-11-27T08:40:40.018864Z', 'tmms': 1385109659018, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3366, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAoAECa01WHUinZWLSErI='}]}
0:06:49.493345	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01a0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 62d212b2)
0:06:49.494345	LOG	Server <---------- DUT
0:06:49.497345	LOG	Expected repetitions of uplink message have been received
0:06:49.501617	LOG	Step 08-09
0:06:49.507334	LOG	Send Test Command RxAppCntReq process starts
0:06:49.510517	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0159, FOpts:), FPort: e0, FRMPayload: 09), MIC: a48a7328)
0:06:49.512503	LOG	Frame command sent to the DUT
0:06:49.513511	LOG	PULL_RESP: Protocol version = 02, Token = d1fe, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4114097077, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAWQHg+6SKcyg='}}
0:06:49.515536	LOG	Server ----------> DUT
0:06:49.518517	LOG	TX_ACK: 02 d1fe 05 0016c001ff1025bf
0:06:50.488578	LOG	First uplink received. Open reception window.

0:06:50.601979	LOG	PUSH_ACK: 02 3ed3 01
0:06:50.603566	LOG	GPS Time from gateway: 1385109660132
0:06:50.605103	LOG	PUSH_DATA: Protocol version = 02, Token = 3ed3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4114211551, 'time': '2023-11-27T08:40:41.133339Z', 'tmms': 1385109660132, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3362, 'rssi': -50, 'size': 16, 'data': 'QAAAAACAoQHgdD1Fyxzwbg==\'}]}
0:06:50.606141	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01a1, FOpts:), FPort: e0, FRMPayload: 094600, MIC: cb1cf06e)
0:06:50.607141	LOG	Server <---------- DUT
0:06:50.609109	LOG	Frame Command Payload in the Answer: 094600
0:06:50.613137	LOG	RX Count received by DUT: 70
0:06:50.615627	LOG	Send Test Command RxAppCntReq process completed
0:06:50.620694	LOG	Step 10
0:06:50.622724	LOG	Check number of uplinks repetitions process starts
0:06:52.772882	LOG	First uplink received. Open reception window.
0:06:52.873558	LOG	PUSH_ACK: 02 5eb4 01
0:06:52.875520	LOG	GPS Time from gateway: 1385109662416
0:06:52.876554	LOG	PUSH_DATA: Protocol version = 02, Token = 5eb4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4116494908, 'time': '2023-11-27T08:40:43.416694Z', 'tmms': 1385109662416, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3370, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAoQHgdD1Fyxzwbg==\'}]}
0:06:52.877555	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01a1, FOpts:), FPort: e0, FRMPayload: 094600, MIC: cb1cf06e)
0:06:52.878553	LOG	Server <---------- DUT
0:06:52.880520	LOG	FRMPayload is the same between retransmissions
0:06:52.882562	LOG	Original uplink: 094600
0:06:52.883553	LOG	Actual retransmission: 094600
0:06:52.884522	LOG	FOpts is the same between retransmissions
0:06:52.886612	LOG	Original uplink:
0:06:52.887611	LOG	Actual retransmission:
0:06:52.888612	LOG	FPort is the same between retransmissions
0:06:52.890673	LOG	Original uplink: e0
0:06:52.892658	LOG	Actual retransmission: e0
0:06:56.038923	LOG	GPS Time updated: 1385109665682
0:06:56.039923	LOG	PULL_DATA: 02 798e 02 0016c001ff1025bf
0:06:56.042041	LOG	PULL_ACK: 02 798e 04
0:06:59.375404	LOG	First uplink received. Open reception window.
0:06:59.482731	LOG	PUSH_ACK: 02 ee6a 01
0:06:59.484273	LOG	GPS Time from gateway: 1385109669017
0:06:59.486275	LOG	PUSH_DATA: Protocol version = 02, Token = ee6a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4123096621, 'time': '2023-11-27T08:40:50.018405Z', 'tmms': 1385109669017, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3366, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAogECVQL0rQJBruzKUj4=\'}]}
0:06:59.487274	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01a2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ecca523e)
0:06:59.488273	LOG	Server <---------- DUT
0:06:59.491274	LOG	Expected repetitions of uplink message have been received
0:06:59.497884	LOG	Step 11
0:06:59.503707	LOG	Send Test Command RxAppCntReq process starts
0:06:59.506674	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 015a, FOpts:), FPort: e0, FRMPayload: 09), MIC: 11362f0f)
0:06:59.508704	LOG	Frame command sent to the DUT

0:06:59.509707	LOG	PULL_RESP: Protocol version = 02, Token = 5f84, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4125096621, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAWgHgyxE2Lw8='}}
0:06:59.510246	LOG	Server ----------> DUT
0:06:59.513858	LOG	TX_ACK: 02 5f84 05 0016c001ff1025bf
0:07:02.625953	LOG	First uplink received. Open reception window.
0:07:02.726826	LOG	PUSH_ACK: 02 952f 01
0:07:02.728331	LOG	GPS Time from gateway: 1385109672275
0:07:02.729336	LOG	PUSH_DATA: Protocol version = 02, Token = 952f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4126354314, 'time': '2023-11-27T08:40:53.276100Z', 'tmms': 1385109672275, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3385, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAowHgQJ/4x0S7xA=='}]}
0:07:02.731336	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01a3, FOpts:), FPort: e0, FRMPayload: 094700, MIC: c744bbc4)
0:07:02.732336	LOG	Server <---------- DUT
0:07:02.733335	LOG	Frame Command Payload in the Answer: 094700
0:07:02.737369	LOG	RX Count received by DUT: 71
0:07:02.739919	LOG	Send Test Command RxAppCntReq process completed
0:07:02.744886	LOG	Step 12
0:07:02.747894	LOG	Check number of uplinks repetitions process starts
0:07:04.917266	LOG	First uplink received. Open reception window.
0:07:05.018695	LOG	PUSH_ACK: 02 f3d7 01
0:07:05.020274	LOG	GPS Time from gateway: 1385109674558
0:07:05.021270	LOG	PUSH_DATA: Protocol version = 02, Token = f3d7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4128637440, 'time': '2023-11-27T08:40:55.559225Z', 'tmms': 1385109674558, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3366, 'rssi': -50, 'size': 16, 'data': 'QAAAAACAowHgQJ/4x0S7xA=='}]}
0:07:05.023293	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01a3, FOpts:), FPort: e0, FRMPayload: 094700, MIC: c744bbc4)
0:07:05.024270	LOG	Server <---------- DUT
0:07:05.026281	LOG	FRMPayload is the same between retransmissions
0:07:05.027316	LOG	Original uplink: 094700
0:07:05.028314	LOG	Actual retransmission: 094700
0:07:05.030313	LOG	FOpts is the same between retransmissions
0:07:05.031312	LOG	Original uplink:
0:07:05.032313	LOG	Actual retransmission:
0:07:05.033312	LOG	FPort is the same between retransmissions
0:07:05.034319	LOG	Original uplink: e0
0:07:05.036312	LOG	Actual retransmission: e0
0:07:06.229146	LOG	GPS Time updated: 1385109675869
0:07:06.230146	LOG	PULL_DATA: 02 d759 02 0016c001ff1025bf
0:07:06.231146	LOG	PULL_ACK: 02 d759 04
0:07:09.371474	LOG	First uplink received. Open reception window.
0:07:09.480329	LOG	PUSH_ACK: 02 d9af 01
0:07:09.481872	LOG	GPS Time from gateway: 1385109679017
0:07:09.483838	LOG	PUSH_DATA: Protocol version = 02, Token = d9af, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4133096169, 'time': '2023-11-27T08:41:00.017954Z', 'tmms': 1385109679017, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3362, 'rssi': -50, 'size': 20, 'data': 'QAAAAACApAECrFEnHeU/0CU8tLY='}]}
0:07:09.484876	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01a4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 253cb4b6)
0:07:09.485870	LOG	Server <---------- DUT

0:07:09.489838	LOG	Expected repetitions of uplink message have been received
0:07:09.495688	LOG	Send LinkADRReq process starts
0:07:11.657155	LOG	First uplink received. Open reception window.
0:07:11.768963	LOG	PUSH_ACK: 02 3e74 01
0:07:11.771881	LOG	GPS Time from gateway: 1385109681305
0:07:11.773580	LOG	PUSH_DATA: Protocol version = 02, Token = 3e74, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4135384389, 'time': '2023-11-27T08:41:02.306173Z', 'tmms': 1385109681305, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3366, 'rssi': -50, 'size': 20, 'data': 'QAAAAACApAECrFEnHeU/0CU8tLY='}]}
0:07:11.774637	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01a4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 253cb4b6)
0:07:11.776349	LOG	Server <---------- DUT
0:07:11.778511	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 015b, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: d1a9d04a)
0:07:11.780655	LOG	PULL_RESP: Protocol version = 02, Token = 4331, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4137384389, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAWwEAQ21QgGDRqdBK'}}
0:07:11.781760	LOG	Server ----------> DUT
0:07:11.784613	LOG	TX_ACK: 02 4331 05 0016c001ff1025bf
0:07:16.399084	LOG	GPS Time updated: 1385109686047
0:07:16.400083	LOG	PULL_DATA: 02 1dcf 02 0016c001ff1025bf
0:07:16.402127	LOG	PULL_ACK: 02 1dcf 04
0:07:19.373613	LOG	First uplink received. Open reception window.
0:07:19.489159	LOG	PUSH_ACK: 02 b3e8 01
0:07:19.490668	LOG	GPS Time from gateway: 1385109689017
0:07:19.492667	LOG	PUSH_DATA: Protocol version = 02, Token = b3e8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4143095781, 'time': '2023-11-27T08:41:10.017563Z', 'tmms': 1385109689017, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3362, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCpQEDBwL18xWYRmEKJagALw=='}]}
0:07:19.493667	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 01a5, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 25a8002f)
0:07:19.495673	LOG	Server <---------- DUT
0:07:19.497673	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:07:19.498672	LOG	Command Answer: 0307
0:07:19.505253	LOG	MAC command communication completed
0:07:19.508310	LOG	Step 13
0:07:19.511885	LOG	Check number of uplinks repetitions process starts
0:07:24.375419	LOG	First uplink received. Open reception window.
0:07:24.476837	LOG	PUSH_ACK: 02 8f99 01
0:07:24.478839	LOG	GPS Time from gateway: 1385109694016
0:07:24.480247	LOG	PUSH_DATA: Protocol version = 02, Token = 8f99, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4148095428, 'time': '2023-11-27T08:41:15.017209Z', 'tmms': 1385109694016, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3362, 'rssi': -51, 'size': 20, 'data': 'QAAAAACApgEC5JMOZi3vQEkqVw0='}]}
0:07:24.481244	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01a6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 492a570d)
0:07:24.482245	LOG	Server <---------- DUT
0:07:24.485213	LOG	Expected repetitions of uplink message have been received
0:07:24.489338	LOG	Step 14
0:07:24.492347	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:26.478837	LOG	GPS Time updated: 1385109696119

0:07:26.480841	LOG	PULL_DATA: 02 699e 02 0016c001ff1025bf
0:07:26.481842	LOG	PULL_ACK: 02 699e 04
0:07:29.369147	LOG	First uplink received. Open reception window.
0:07:29.479111	LOG	PUSH_ACK: 02 a1e4 01
0:07:29.480656	LOG	GPS Time from gateway: 1385109699016
0:07:29.482655	LOG	PUSH_DATA: Protocol version = 02, Token = a1e4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4153095159, 'time': '2023-11-27T08:41:20.016939Z', 'tmms': 1385109699016, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3355, 'rssi': -51, 'size': 20, 'data': 'QAAAAACApwEC0qwud1cTKNLRh1g='}]}
0:07:29.483652	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01a7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d2d18758)
0:07:29.484657	LOG	Server <---------- DUT
0:07:29.486622	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 015c, FOpts:), FPort: e0, FRMPayload: 0702), MIC: 0f12b55c)
0:07:29.488621	LOG	Frame command sent to the DUT
0:07:29.489649	LOG	PULL_RESP: Protocol version = 02, Token = 03a8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4155095159, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAXAHg/hQPErVc'}}
0:07:29.491648	LOG	Server ----------> DUT
0:07:29.493621	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:29.497995	LOG	Step 15
0:07:29.501242	LOG	Send LinkADRReq process starts
0:07:34.370425	LOG	First uplink received. Open reception window.
0:07:34.477452	LOG	PUSH_ACK: 02 10df 01
0:07:34.478955	LOG	GPS Time from gateway: 1385109704016
0:07:34.480960	LOG	PUSH_DATA: Protocol version = 02, Token = 10df, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4158094943, 'time': '2023-11-27T08:41:25.016723Z', 'tmms': 1385109704016, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3354, 'rssi': -49, 'size': 20, 'data': 'gAAAAACAqAECx6WOoDqqd5S/Oh0='}]}
0:07:34.481960	LOG	DATA: (MHDR: 80, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01a8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 94bf3a1d)
0:07:34.483964	LOG	Server <---------- DUT
0:07:34.485962	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 20, FCnt: 015d, FOpts:), FPort: 00, FRMPayload: 0350070003), MIC: bfb0b932)
0:07:34.487960	LOG	PULL_RESP: Protocol version = 02, Token = 1aa8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4160094943, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAgXQEAIwlXFBW/sLky'}}
0:07:34.488960	LOG	Server ----------> DUT
0:07:34.491964	LOG	TX_ACK: 02 1aa8 05 0016c001ff1025bf
0:07:36.589257	LOG	GPS Time updated: 1385109706236
0:07:36.590294	LOG	PULL_DATA: 02 b86e 02 0016c001ff1025bf
0:07:36.592261	LOG	PULL_ACK: 02 b86e 04
0:07:39.474294	LOG	First uplink received. Open reception window.
0:07:39.577128	LOG	PUSH_ACK: 02 9331 01
0:07:39.579097	LOG	GPS Time from gateway: 1385109709122
0:07:39.580096	LOG	PUSH_DATA: Protocol version = 02, Token = 9331, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4163201259, 'time': '2023-11-27T08:41:30.123037Z', 'tmms': 1385109709122, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3358, 'rssi': -50, 'size': 22, 'data': 'gAAAAACCqQEDBwJH7TJiwPVRUGdAnQ=='}]}
0:07:39.582096	LOG	DATA: (MHDR: 80, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 01a9, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 5067409d)

0:07:39.583096	LOG	Server <---------- DUT
0:07:39.585099	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:07:39.587097	LOG	Command Answer: 0307
0:07:39.593382	LOG	MAC command communication completed
0:07:39.596393	LOG	Step 16-18
0:07:39.599424	LOG	Check number of uplinks repetitions process starts
0:07:43.304335	LOG	First uplink received. Open reception window.
0:07:43.412602	LOG	PUSH_ACK: 02 fd81 01
0:07:43.414569	LOG	GPS Time from gateway: 1385109712949
0:07:43.415568	LOG	PUSH_DATA: Protocol version = 02, Token = fd81, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4167027970, 'time': '2023-11-27T08:41:33.949749Z', 'tmms': 1385109712949, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3343, 'rssi': -50, 'size': 22, 'data': 'gAAAAACCqQEDBwJH7TJiwPVRUGdAnQ==}]}
0:07:43.417072	LOG	DATA: (MHDR: 80, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 01a9, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 5067409d)
0:07:43.418078	LOG	Server <---------- DUT
0:07:43.420078	LOG	FRMPayload is the same between retransmissions
0:07:43.422078	LOG	Original uplink: 00000001020000
0:07:43.424079	LOG	Actual retransmission: 00000001020000
0:07:43.426079	LOG	FOpts is the same between retransmissions
0:07:43.427111	LOG	Original uplink: 0307
0:07:43.428111	LOG	Actual retransmission: 0307
0:07:43.429111	LOG	FPort is the same between retransmissions
0:07:43.431112	LOG	Original uplink: 02
0:07:43.432115	LOG	Actual retransmission: 02
0:07:46.669673	LOG	GPS Time updated: 1385109716313
0:07:46.670673	LOG	PULL_DATA: 02 9b92 02 0016c001ff1025bf
0:07:46.672677	LOG	PULL_ACK: 02 9b92 04
0:07:47.020715	LOG	First uplink received. Open reception window.
0:07:47.125667	LOG	PUSH_ACK: 02 b18e 01
0:07:47.127668	LOG	GPS Time from gateway: 1385109716663
0:07:47.128637	LOG	PUSH_DATA: Protocol version = 02, Token = b18e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4170741680, 'time': '2023-11-27T08:41:37.663458Z', 'tmms': 1385109716663, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3347, 'rssi': -51, 'size': 22, 'data': 'gAAAAACCqQEDBwJH7TJiwPVRUGdAnQ==}]}
0:07:47.129668	LOG	DATA: (MHDR: 80, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 01a9, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 5067409d)
0:07:47.131668	LOG	Server <---------- DUT
0:07:47.132636	LOG	FRMPayload is the same between retransmissions
0:07:47.134645	LOG	Original uplink: 00000001020000
0:07:47.136138	LOG	Actual retransmission: 00000001020000
0:07:47.137179	LOG	FOpts is the same between retransmissions
0:07:47.138177	LOG	Original uplink: 0307
0:07:47.139178	LOG	Actual retransmission: 0307
0:07:47.141177	LOG	FPort is the same between retransmissions
0:07:47.143178	LOG	Original uplink: 02
0:07:47.144178	LOG	Actual retransmission: 02
0:07:54.369382	LOG	First uplink received. Open reception window.
0:07:54.481582	LOG	PUSH_ACK: 02 e842 01
0:07:54.483546	LOG	GPS Time from gateway: 1385109724015
0:07:54.484548	LOG	PUSH_DATA: Protocol version = 02, Token = e842, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4178093961, 'time': '2023-11-27T08:41:45.015738Z',

		'tmms': 1385109724015, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3346, 'rssi': -50, 'size': 20, 'data': 'gAAAAACAqgECTVtnwH9zM0SuIqg='}]}
0:07:54.485547	LOG	DATA: (MHDR: 80, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01aa, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 44ae22a8)
0:07:54.487546	LOG	Server <---------- DUT
0:07:54.490581	LOG	Expected repetitions of uplink message have been received
0:07:54.494852	LOG	Step 19
0:07:54.498402	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:56.749141	LOG	GPS Time updated: 1385109726395
0:07:56.751141	LOG	PULL_DATA: 02 3826 02 0016c001ff1025bf
0:07:56.751875	LOG	PULL_ACK: 02 3826 04
0:07:58.241190	LOG	First uplink received. Open reception window.
0:07:58.344438	LOG	PUSH_ACK: 02 b755 01
0:07:58.346474	LOG	GPS Time from gateway: 1385109727889
0:07:58.347474	LOG	PUSH_DATA: Protocol version = 02, Token = b755, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4181968607, 'time': '2023-11-27T08:41:48.890383Z', 'tmms': 1385109727889, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3346, 'rssi': -50, 'size': 20, 'data': 'gAAAAACAqgECTVtnwH9zM0SuIqg='}]}
0:07:58.348475	LOG	DATA: (MHDR: 80, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01aa, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 44ae22a8)
0:07:58.350473	LOG	Server <---------- DUT
0:07:58.352440	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 20, FCnt: 015e, FOpts:), FPort: e0, FRMPayload: 0701), MIC: 7647ace7)
0:07:58.353443	LOG	Frame command sent to the DUT
0:07:58.354982	LOG	PULL_RESP: Protocol version = 02, Token = aa21, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4183968607, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAgXgHgIOx2R6zn'}}
0:07:58.356988	LOG	Server ----------> DUT
0:07:58.359992	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:58.364993	LOG	Step 20
0:07:58.367999	LOG	Send Test Command RxAppCntReq process starts
0:08:04.374084	LOG	First uplink received. Open reception window.
0:08:04.488751	LOG	PUSH_ACK: 02 f643 01
0:08:04.490719	LOG	GPS Time from gateway: 1385109734014
0:08:04.491752	LOG	PUSH_DATA: Protocol version = 02, Token = f643, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4188093499, 'time': '2023-11-27T08:41:55.015274Z', 'tmms': 1385109734014, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3335, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAqwECPr7MHBiXUw8TfbY='}]}
0:08:04.492754	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01ab, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0f137db6)
0:08:04.494719	LOG	Server <---------- DUT
0:08:04.495720	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 015f, FOpts:), FPort: e0, FRMPayload: 09), MIC: ed103aff)
0:08:04.497725	LOG	Frame command sent to the DUT
0:08:04.499725	LOG	PULL_RESP: Protocol version = 02, Token = cb43, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4190093499, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAXwHgxu0QOv8='}}
0:08:04.500759	LOG	Server ----------> DUT
0:08:04.503733	LOG	TX_ACK: 02 cb43 05 0016c001ff1025bf
0:08:06.809704	LOG	GPS Time updated: 1385109736449
0:08:06.810670	LOG	PULL_DATA: 02 2ca9 02 0016c001ff1025bf

0:08:06.812671	LOG	PULL_ACK: 02 2ca9 04
0:08:07.624391	LOG	First uplink received. Open reception window.
0:08:07.735029	LOG	PUSH_ACK: 02 2bbc 01
0:08:07.737034	LOG	GPS Time from gateway: 1385109737272
0:08:07.738032	LOG	PUSH_DATA: Protocol version = 02, Token = 2bbc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4191351497, 'time': '2023-11-27T08:41:58.273271Z', 'tmms': 1385109737272, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3355, 'rssi': -50, 'size': 16, 'data': 'QAAAAACArAHgrcvx6pfnOQ==’}]}
0:08:07.739032	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01ac, FOpts:), FPort: e0, FRMPayload: 094b00, MIC: ea97e739)
0:08:07.740033	LOG	Server <---------- DUT
0:08:07.742043	LOG	Frame Command Payload in the Answer: 094b00
0:08:07.746033	LOG	RX Count received by DUT: 75
0:08:07.748038	LOG	Send Test Command RxAppCntReq process completed
0:08:07.752433	LOG	Step 21-23
0:08:07.755442	LOG	Check number of uplinks repetitions process starts
0:08:09.918704	LOG	First uplink received. Open reception window.
0:08:10.021160	LOG	PUSH_ACK: 02 4294 01
0:08:10.023160	LOG	GPS Time from gateway: 1385109739555
0:08:10.024161	LOG	PUSH_DATA: Protocol version = 02, Token = 4294, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4193634622, 'time': '2023-11-27T08:42:00.556396Z', 'tmms': 1385109739555, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3343, 'rssi': -50, 'size': 16, 'data': 'QAAAAACArAHgrcvx6pfnOQ==’}]}
0:08:10.025160	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01ac, FOpts:), FPort: e0, FRMPayload: 094b00, MIC: ea97e739)
0:08:10.027160	LOG	Server <---------- DUT
0:08:10.028165	LOG	FRMPayload is the same between retransmissions
0:08:10.030204	LOG	Original uplink: 094b00
0:08:10.031197	LOG	Actual retransmission: 094b00
0:08:10.032200	LOG	FOpts is the same between retransmissions
0:08:10.033197	LOG	Original uplink:
0:08:10.035166	LOG	Actual retransmission:
0:08:10.036197	LOG	FPort is the same between retransmissions
0:08:10.037199	LOG	Original uplink: e0
0:08:10.038197	LOG	Actual retransmission: e0
0:08:12.198585	LOG	First uplink received. Open reception window.
0:08:12.305467	LOG	PUSH_ACK: 02 5ae3 01
0:08:12.307468	LOG	GPS Time from gateway: 1385109741838
0:08:12.308436	LOG	PUSH_DATA: Protocol version = 02, Token = 5ae3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4195917633, 'time': '2023-11-27T08:42:02.839405Z', 'tmms': 1385109741838, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3347, 'rssi': -51, 'size': 16, 'data': 'QAAAAACArAHgrcvx6pfnOQ==’}]}
0:08:12.309474	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01ac, FOpts:), FPort: e0, FRMPayload: 094b00, MIC: ea97e739)
0:08:12.311489	LOG	Server <---------- DUT
0:08:12.312441	LOG	FRMPayload is the same between retransmissions
0:08:12.314440	LOG	Original uplink: 094b00
0:08:12.315441	LOG	Actual retransmission: 094b00
0:08:12.316474	LOG	FOpts is the same between retransmissions
0:08:12.318441	LOG	Original uplink:
0:08:12.319474	LOG	Actual retransmission:
0:08:12.320474	LOG	FPort is the same between retransmissions
0:08:12.321473	LOG	Original uplink: e0

0:08:12.322442	LOG	Actual retransmission: e0
0:08:16.909735	LOG	GPS Time updated: 1385109746549
0:08:16.910736	LOG	PULL_DATA: 02 796a 02 0016c001ff1025bf
0:08:16.913276	LOG	PULL_ACK: 02 796a 04
0:08:19.371055	LOG	First uplink received. Open reception window.
0:08:19.478082	LOG	PUSH_ACK: 02 d955 01
0:08:19.480164	LOG	GPS Time from gateway: 1385109749014
0:08:19.481200	LOG	PUSH_DATA: Protocol version = 02, Token = d955, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4203092735, 'time': '2023-11-27T08:42:10.014507Z', 'tmms': 1385109749014, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3331, 'rssi': -50, 'size': 20, 'data': 'QAAAAACArQECjSDvv1jTeK3dxO0='}]}
0:08:19.482202	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01ad, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: adddc4ed)
0:08:19.484168	LOG	Server <---------- DUT
0:08:19.487167	LOG	Expected repetitions of uplink message have been received
0:08:19.493673	LOG	Step 23
0:08:19.497315	LOG	Send LinkADRReq process starts
0:08:21.656804	LOG	#**********CURRENT BEACON SENT**********#
0:08:21.658803	LOG	PULL_RESP: Protocol version = 02, Token = f1b3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385109760000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAGY9S46wAAAAAAAAAAA='}}
0:08:21.659837	LOG	Server ----------> DUT
0:08:21.661849	LOG	#**********#
0:08:21.671929	LOG	#**********NEXT BEACON QUEUED**********#
0:08:21.674928	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385109888000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAGY9S23EAAAAAAAAAAA='}}
0:08:21.675927	LOG	Server ----------> DUT
0:08:21.677977	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 80198f52, CRC1: db71, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385109888000
0:08:21.678961	LOG	#**********#
0:08:21.679998	LOG	Next BEACON scheduled at GPS time (ms): 1385110016000
0:08:21.681999	LOG	First uplink received. Open reception window.
0:08:21.683001	LOG	TX_ACK: 02 f1b3 05 0016c001ff1025bf
0:08:21.793630	LOG	PUSH_ACK: 02 62d6 01
0:08:21.795146	LOG	GPS Time from gateway: 1385109751301
0:08:21.797151	LOG	PUSH_DATA: Protocol version = 02, Token = 62d6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4205380674, 'time': '2023-11-27T08:42:12.302446Z', 'tmms': 1385109751301, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3335, 'rssi': -50, 'size': 20, 'data': 'QAAAAACArQECjSDvv1jTeK3dxO0='}]}
0:08:21.799186	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01ad, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: adddc4ed)
0:08:21.801198	LOG	Server <---------- DUT
0:08:21.804154	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0160, FOpts:), FPort: 00, FRMPayload: 0350070000), MIC: 9a6e8e29)
0:08:21.806154	LOG	PULL_RESP: Protocol version = 02, Token = 57b0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4207380674, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAYAEAuWIPAVyabo4p'}}
0:08:21.807152	LOG	Server ----------> DUT
0:08:21.811132	LOG	TX_ACK: 02 57b0 05 0016c001ff1025bf
0:08:27.059748	LOG	GPS Time updated: 1385109756677
0:08:27.061749	LOG	PULL_DATA: 02 d6fd 02 0016c001ff1025bf
0:08:27.063464	LOG	PULL_ACK: 02 d6fd 04
0:08:29.373161	LOG	First uplink received. Open reception window.
0:08:29.474736	LOG	PUSH_ACK: 02 6887 01
0:08:29.476738	LOG	GPS Time from gateway: 1385109759013
0:08:29.477738	LOG	PUSH_DATA: Protocol version = 02, Token = 6887, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4213092312, 'time': '2023-11-27T08:42:20.014080Z', 'tmms': 1385109759013, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3328, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCrgEDBwKWI1pO9FzbnmHLhQ==}]}
0:08:29.478736	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 01ae, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 9e61cb85)
0:08:29.480273	LOG	Server <---------- DUT
0:08:29.482280	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:08:29.484278	LOG	Command Answer: 0307
0:08:29.492626	LOG	MAC command communication completed
0:08:29.496637	LOG	Step 24
0:08:29.499637	LOG	Check number of uplinks repetitions process starts
0:08:34.368977	LOG	First uplink received. Open reception window.
0:08:34.477388	LOG	PUSH_ACK: 02 8bd2 01
0:08:34.479391	LOG	GPS Time from gateway: 1385109764013
0:08:34.480911	LOG	PUSH_DATA: Protocol version = 02, Token = 8bd2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4218091965, 'time': '2023-11-27T08:42:25.013732Z', 'tmms': 1385109764013, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3332, 'rssi': -50, 'size': 20, 'data': 'QAAAAACArwECtmr8dwndB51HvFw='}]}
0:08:34.481953	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01af, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9d47bc5c)
0:08:34.483917	LOG	Server <---------- DUT
0:08:34.487915	LOG	Expected repetitions of uplink message have been received
0:08:34.490916	LOG	Check number of uplinks repetitions process starts
0:08:37.139996	LOG	GPS Time updated: 1385109766784
0:08:37.141964	LOG	PULL_DATA: 02 1073 02 0016c001ff1025bf
0:08:37.142965	LOG	PULL_ACK: 02 1073 04
0:08:39.373866	LOG	First uplink received. Open reception window.
0:08:39.479024	LOG	PUSH_ACK: 02 1448 01
0:08:39.480563	LOG	GPS Time from gateway: 1385109769012
0:08:39.482570	LOG	PUSH_DATA: Protocol version = 02, Token = 1448, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4223091702, 'time': '2023-11-27T08:42:30.013471Z', 'tmms': 1385109769012, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3324, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAsAECfCW6QN91XQpRBFY='}]}
0:08:39.483600	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01b0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0a510456)
0:08:39.484601	LOG	Server <---------- DUT
0:08:39.487602	LOG	Expected repetitions of uplink message have been received
0:08:39.491600	LOG	Step 25-26
0:08:39.495235	LOG	Send LinkADRReq process starts
0:08:44.365005	LOG	First uplink received. Open reception window.
0:08:44.471922	LOG	PUSH_ACK: 02 9acb 01

0:08:44.473887	LOG	GPS Time from gateway: 1385109774012
0:08:44.474887	LOG	PUSH_DATA: Protocol version = 02, Token = 9acb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4228091431, 'time': '2023-11-27T08:42:35.013198Z', 'tmms': 1385109774012, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3328, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAsQECEXEb55aO69r5J6M='}]}
0:08:44.476887	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01b1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: daf927a3)
0:08:44.477887	LOG	Server <---------- DUT
0:08:44.479888	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0161, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: 151200d6)
0:08:44.482398	LOG	PULL_RESP: Protocol version = 02, Token = 22e0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4230091431, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAYQEAv/9Y6IQVEgDW'}}
0:08:44.484404	LOG	Server ----------> DUT
0:08:44.487402	LOG	TX_ACK: 02 22e0 05 0016c001ff1025bf
0:08:47.210575	LOG	GPS Time updated: 1385109776856
0:08:47.211575	LOG	PULL_DATA: 02 9d90 02 0016c001ff1025bf
0:08:47.213577	LOG	PULL_ACK: 02 9d90 04
0:08:49.369324	LOG	First uplink received. Open reception window.
0:08:49.475770	LOG	PUSH_ACK: 02 393a 01
0:08:49.477772	LOG	GPS Time from gateway: 1385109779012
0:08:49.478789	LOG	PUSH_DATA: Protocol version = 02, Token = 393a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4233091318, 'time': '2023-11-27T08:42:40.013085Z', 'tmms': 1385109779012, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3324, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCsgEDBwIlBznb3Y8ZfOSrvw=='}]}
0:08:49.480771	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 01b2, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 7ce4abbf)
0:08:49.481927	LOG	Server <---------- DUT
0:08:49.483926	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:08:49.485927	LOG	Command Answer: 0307
0:08:49.494926	LOG	MAC command communication completed
0:08:49.497932	LOG	End Test Step: Redundancy
0:08:49.501931	LOG	Partial Verdict: PASS
0:08:49.506044	LOG	==========
0:08:49.510246	LOG	==========
0:08:49.512255	LOG	Start Test Step: Successful LinkADRReq commands block
0:08:49.524324	LOG	Step 01-02
0:08:49.528274	LOG	Send MAC command block process starts
0:08:54.370694	LOG	First uplink received. Open reception window.
0:08:54.485688	LOG	PUSH_ACK: 02 867b 01
0:08:54.487654	LOG	GPS Time from gateway: 1385109784012
0:08:54.488686	LOG	PUSH_DATA: Protocol version = 02, Token = 867b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4238090948, 'time': '2023-11-27T08:42:45.012713Z', 'tmms': 1385109784012, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3328, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAswECcOKh61btE20dVew='}]}
0:08:54.490654	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01b3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6d1d55ec)
0:08:54.491687	LOG	Server <---------- DUT
0:08:54.493682	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0162, FOpts:), FPort: 00, FRMPayload: 03010000000344010000033100061), MIC: d0d2d266)

0:08:54.495655	LOG	PULL_RESP: Protocol version = 02, Token = ac08, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4240090948, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 28, 'data': 'YAAAAAAAYgEAx8w13N/cQTmFLcCLrZKG0NLSZg=='}}
0:08:54.496690	LOG	Server ----------> DUT
0:08:54.499697	LOG	TX_ACK: 02 ac08 05 0016c001ff1025bf
0:08:57.220498	LOG	GPS Time updated: 1385109786862
0:08:57.221464	LOG	PULL_DATA: 02 cfe0 02 0016c001ff1025bf
0:08:57.223478	LOG	PULL_ACK: 02 cfe0 04
0:08:59.521557	LOG	First uplink received. Open reception window.
0:08:59.629519	LOG	PUSH_ACK: 02 5e48 01
0:08:59.630486	LOG	GPS Time from gateway: 1385109789162
0:08:59.633010	LOG	PUSH_DATA: Protocol version = 02, Token = 5e48, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4243240108, 'time': '2023-11-27T08:42:50.161873Z', 'tmms': 1385109789162, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3328, 'rssi': -52, 'size': 26, 'data': 'QAAAAACGtAEDBwMHAwcCxGVHwh4kXAQMGaA='}]}
0:08:59.634009	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 86, FCnt: 01b4, FOpts: 030703070307), FPort: 02, FRMPayload: 00000001020000, MIC: 040c19a0)
0:08:59.635009	LOG	Server <---------- DUT
0:08:59.637515	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:08:59.638520	LOG	Command Answer: 030703070307
0:08:59.719475	LOG	MAC command communication completed
0:08:59.724442	LOG	Step 03
0:08:59.727443	LOG	Receive frame on specific channels process starts
0:08:59.737500	LOG	Attempt 1/15
0:09:04.499077	LOG	First uplink received. Open reception window.
0:09:04.602121	LOG	PUSH_ACK: 02 4a20 01
0:09:04.604089	LOG	GPS Time from gateway: 1385109794141
0:09:04.605122	LOG	PUSH_DATA: Protocol version = 02, Token = 4a20, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4248219236, 'time': '2023-11-27T08:42:55.141000Z', 'tmms': 1385109794141, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3322, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAtQECx8Icnml9s0mJcUI='}]}
0:09:04.606090	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01b5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 49897142)
0:09:04.608177	LOG	Server <---------- DUT
0:09:04.610176	LOG	Attempt 2/15
0:09:07.300481	LOG	GPS Time updated: 1385109796943
0:09:07.302481	LOG	PULL_DATA: 02 7923 02 0016c001ff1025bf
0:09:07.303483	LOG	PULL_ACK: 02 7923 04
0:09:09.503737	LOG	First uplink received. Open reception window.
0:09:09.619031	LOG	PUSH_ACK: 02 75db 01
0:09:09.620999	LOG	GPS Time from gateway: 1385109799141
0:09:09.621998	LOG	PUSH_DATA: Protocol version = 02, Token = 75db, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4253218978, 'time': '2023-11-27T08:43:00.140741Z', 'tmms': 1385109799141, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3318, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAtgECZshUrgnoGjMJOvc='}]}
0:09:09.623003	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01b6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 33093af7)
0:09:09.625003	LOG	Server <---------- DUT
0:09:09.627004	LOG	Attempt 3/15
0:09:14.493938	LOG	First uplink received. Open reception window.

0:09:14.607658	LOG	PUSH_ACK: 02 f94b 01
0:09:14.609626	LOG	GPS Time from gateway: 1385109804140
0:09:14.610661	LOG	PUSH_DATA: Protocol version = 02, Token = f94b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4258218720, 'time': '2023-11-27T08:43:05.140482Z', 'tmms': 1385109804140, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3316, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAtwECr+Vz3GIyk/tpxZA='}]}
0:09:14.611659	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01b7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fb69c590)
0:09:14.613659	LOG	Server <---------- DUT
0:09:14.614660	LOG	Attempt 4/15
0:09:17.380709	LOG	GPS Time updated: 1385109807027
0:09:17.381729	LOG	PULL_DATA: 02 d862 02 0016c001ff1025bf
0:09:17.383697	LOG	PULL_ACK: 02 d862 04
0:09:19.502647	LOG	First uplink received. Open reception window.
0:09:19.616571	LOG	PUSH_ACK: 02 34e3 01
0:09:19.618165	LOG	GPS Time from gateway: 1385109809140
0:09:19.620167	LOG	PUSH_DATA: Protocol version = 02, Token = 34e3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4263218466, 'time': '2023-11-27T08:43:10.140227Z', 'tmms': 1385109809140, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3318, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAuAECJd2OGL4opVTWBEE='}]}
0:09:19.621166	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01b8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 54d60441)
0:09:19.622165	LOG	Server <---------- DUT
0:09:19.624171	LOG	Attempt 5/15
0:09:24.495897	LOG	First uplink received. Open reception window.
0:09:24.599904	LOG	PUSH_ACK: 02 d748 01
0:09:24.601870	LOG	GPS Time from gateway: 1385109814140
0:09:24.602873	LOG	PUSH_DATA: Protocol version = 02, Token = d748, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4268218200, 'time': '2023-11-27T08:43:15.139960Z', 'tmms': 1385109814140, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3320, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAuQECwPaY2wdXu4+MzdY='}]}
0:09:24.603878	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01b9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8f8ccdd6)
0:09:24.605878	LOG	Server <---------- DUT
0:09:24.607383	LOG	Attempt 6/15
0:09:27.461308	LOG	GPS Time updated: 1385109817105
0:09:27.462308	LOG	PULL_DATA: 02 2b71 02 0016c001ff1025bf
0:09:27.464311	LOG	PULL_ACK: 02 2b71 04
0:09:29.499763	LOG	First uplink received. Open reception window.
0:09:29.604398	LOG	PUSH_ACK: 02 14c8 01
0:09:29.605971	LOG	GPS Time from gateway: 1385109819140
0:09:29.607995	LOG	PUSH_DATA: Protocol version = 02, Token = 14c8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4273217945, 'time': '2023-11-27T08:43:20.139703Z', 'tmms': 1385109819140, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3318, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAugEC1zQvIlkWiB8bvI4='}]}
0:09:29.608972	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01ba, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1f1bbc8e)
0:09:29.609975	LOG	Server <---------- DUT
0:09:29.611938	LOG	Attempt 7/15
0:09:34.501985	LOG	First uplink received. Open reception window.
0:09:34.607291	LOG	PUSH_ACK: 02 0123 01
0:09:34.609328	LOG	GPS Time from gateway: 1385109824139

0:09:34.610328	LOG	PUSH_DATA: Protocol version = 02, Token = 0123, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4278217688, 'time': '2023-11-27T08:43:25.139447Z', 'tmms': 1385109824139, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3314, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAuwECZcBaTExHA5qFMM8='}]}
0:09:34.611328	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01bb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9a8530cf)
0:09:34.613329	LOG	Server <---------- DUT
0:09:34.614295	LOG	Attempt 8/15
0:09:37.541025	LOG	GPS Time updated: 1385109827179
0:09:37.542014	LOG	PULL_DATA: 02 923a 02 0016c001ff1025bf
0:09:37.543015	LOG	PULL_ACK: 02 923a 04
0:09:39.495509	LOG	First uplink received. Open reception window.
0:09:39.601185	LOG	PUSH_ACK: 02 5d18 01
0:09:39.602731	LOG	GPS Time from gateway: 1385109829139
0:09:39.604726	LOG	PUSH_DATA: Protocol version = 02, Token = 5d18, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4283217426, 'time': '2023-11-27T08:43:30.139184Z', 'tmms': 1385109829139, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3311, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAvAECZtqrM8xNbPis44A='}]}
0:09:39.605758	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01bc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f8ace380)
0:09:39.607269	LOG	Server <---------- DUT
0:09:39.609274	LOG	Attempt 9/15
0:09:44.498083	LOG	First uplink received. Open reception window.
0:09:44.605016	LOG	PUSH_ACK: 02 b52c 01
0:09:44.607017	LOG	GPS Time from gateway: 1385109834139
0:09:44.608525	LOG	PUSH_DATA: Protocol version = 02, Token = b52c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4288217172, 'time': '2023-11-27T08:43:35.138929Z', 'tmms': 1385109834139, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3309, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAvQECyTHimYmA0fsBcXk='}]}
0:09:44.609525	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01bd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fb017179)
0:09:44.610525	LOG	Server <---------- DUT
0:09:44.615559	LOG	Receive frame on specific channels process tested successfully
0:09:44.619526	LOG	Step 04-05
0:09:44.624532	LOG	Send LinkADRReq process starts
0:09:47.622127	LOG	GPS Time updated: 1385109837262
0:09:47.623126	LOG	PULL_DATA: 02 7443 02 0016c001ff1025bf
0:09:47.625130	LOG	PULL_ACK: 02 7443 04
0:09:49.495351	LOG	First uplink received. Open reception window.
0:09:49.598761	LOG	PUSH_ACK: 02 33ed 01
0:09:49.600269	LOG	GPS Time from gateway: 1385109839139
0:09:49.602270	LOG	PUSH_DATA: Protocol version = 02, Token = 33ed, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4293216912, 'time': '2023-11-27T08:43:40.138668Z', 'tmms': 1385109839139, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3307, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAvgECgjuPMqfRgc6yC18='}]}
0:09:49.603269	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01be, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ceb20b5f)
0:09:49.604270	LOG	Server <---------- DUT
0:09:49.607270	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0163, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: 417adb09)
0:09:49.608783	LOG	PULL_RESP: Protocol version = 02, Token = 1fa3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 249616, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125',

		'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAYwEA+nsStqFBetsJ'}}
0:09:49.610779	LOG	Server ----------> DUT
0:09:49.615581	LOG	TX_ACK: 02 1fa3 05 0016c001ff1025bf
0:09:54.363038	LOG	First uplink received. Open reception window.
0:09:54.470424	LOG	PUSH_ACK: 02 66a8 01
0:09:54.472392	LOG	GPS Time from gateway: 1385109844010
0:09:54.473393	LOG	PUSH_DATA: Protocol version = 02, Token = 66a8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3120690, 'time': '2023-11-27T08:43:45.009741Z', 'tmms': 1385109844010, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3313, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCvwEDBwKZq669JxPK4H05jA=='}]}
0:09:54.475392	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 01bf, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: e07d398c)
0:09:54.476393	LOG	Server <---------- DUT
0:09:54.478392	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:09:54.480393	LOG	Command Answer: 0307
0:09:54.488421	LOG	MAC command communication completed
0:09:54.491448	LOG	End Test Step: Successful LinkADRReq commands block
0:09:54.495415	LOG	Partial Verdict: PASS
0:09:54.499486	LOG	==========
0:09:54.503486	LOG	==========
0:09:54.506452	LOG	Start Test Step: Unsuccessful LinkADRReq commands block
0:09:54.516825	LOG	Step 01-02
0:09:54.521737	LOG	Send MAC command block process starts
0:09:57.811354	LOG	GPS Time updated: 1385109847458
0:09:57.813362	LOG	PULL_DATA: 02 c860 02 0016c001ff1025bf
0:09:57.814358	LOG	PULL_ACK: 02 c860 04
0:09:59.364640	LOG	First uplink received. Open reception window.
0:09:59.468875	LOG	PUSH_ACK: 02 f3a0 01
0:09:59.470905	LOG	GPS Time from gateway: 1385109849009
0:09:59.471905	LOG	PUSH_DATA: Protocol version = 02, Token = f3a0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 8120332, 'time': '2023-11-27T08:43:50.009382Z', 'tmms': 1385109849009, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3309, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAwAECGSo+mRqdzPT69W8='}]}
0:09:59.473873	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01c0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f4faf56f)
0:09:59.474905	LOG	Server <---------- DUT
0:09:59.476896	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0164, FOpts:), FPort: 00, FRMPayload: 034401000003310000610350000001), MIC: be00761d)
0:09:59.478872	LOG	PULL_RESP: Protocol version = 02, Token = fa0f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 10120332, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 28, 'data': 'YAAAAAAAZAEAkqzxh4BvSwEy9dsDzefhvgB2HQ=='}}
0:09:59.479905	LOG	Server ----------> DUT
0:09:59.483479	LOG	TX_ACK: 02 fa0f 05 0016c001ff1025bf
0:10:04.937485	LOG	First uplink received. Open reception window.
0:10:05.039096	LOG	PUSH_ACK: 02 c2c6 01
0:10:05.041065	LOG	GPS Time from gateway: 1385109854578
0:10:05.042064	LOG	PUSH_DATA: Protocol version = 02, Token = c2c6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 13689171, 'time': '2023-11-27T08:43:55.578220Z', 'tmms': 1385109854578, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA',

		'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3308, 'rssi': -49, 'size': 26, 'data': 'QAAAAACGwQEDBAMEAwQCAieKxh6/PZrUCps='}]}
0:10:05.044065	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 86, FCnt: 01c1, FOpts: 030403040304), FPort: 02, FRMPayload: 00000001020000, MIC: 9ad40a9b)
0:10:05.045065	LOG	Server <---------- DUT
0:10:05.046576	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:10:05.048576	LOG	Command Answer: 030403040304
0:10:05.126041	LOG	MAC command communication completed
0:10:05.129084	LOG	End Test Step: Unsuccessful LinkADRReq commands block
0:10:05.133052	LOG	Partial Verdict: PASS
0:10:05.137051	LOG	==========
0:10:05.140562	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_012_A
0:10:05.142562	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_012_B	
Verdict	PASS	
Date	2023-11-27 09:43:57	
Description		
Technology Version	LCTT v3.11.0_R1 | GUI v2.6.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.3	
Test Specs Version	USv1.5.1/EUv1.6.2/KRv1.2.1/ASv1.1.1/INv1.1.1/ALL_Av1.6/ALL_Cv1.0/ ALL_Bv1.0/SCHCv1.1/ALPv1.0	
Project	ref-stack	
Project Creation Date	2023-10-04 09:10:20	
Sample Parameters		
	SF7BW250 Frequency	868.100
	FSK Frequency	868.100
	Addition of a single channel frequency	867.700
	Conformance	TRUE
	LR-FHSSCR1/3BW137 Frequency	868.000
	LR-FHSSCR2/3BW137 Frequency	868.000
	LR-FHSSCR1/3BW336 Frequency	868.600
	LR-FHSSCR2/3BW336 Frequency	868.600
	Data Rate decay to be measured	ALL

Time Stamp (ms)	Event	Summary
0:00:00.009130	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_012_B
0:00:00.066688	LOG	==========
0:00:00.068728	LOG	Start Test Step: Device activation
0:00:00.151763	LOG	Activation process has finished successfully
0:00:00.153768	LOG	Data stored in the DUT after Activation:
0:00:00.156765	LOG	DevAddr: 00000000
0:00:00.159782	LOG	AppEUI: 0000000000000000
0:00:00.163292	LOG	NwkSKey: 6bfb58c6a233389e6e66450a9e520a70
0:00:00.166294	LOG	AppSKey: ded4e508ab9cede444c3765e0533fcac
0:00:00.170291	LOG	End Test Step: Device activation
0:00:00.174292	LOG	Partial Verdict: PASS
0:00:00.178297	LOG	==========
0:00:00.183295	LOG	==========
0:00:00.185296	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.193805	LOG	DUT Pre-condition activation process starts
0:00:00.197809	LOG	DUT Pre-condition activation completed

0:00:00.200805	LOG	End Test Step: DUT Pre-condition settings
0:00:00.205805	LOG	Partial Verdict: PASS
0:00:00.209810	LOG	==========
0:00:00.213812	LOG	==========
0:00:00.215811	LOG	Start Test Step: Data Rate Decay for all devices
0:00:00.231315	LOG	Step 01
0:00:00.234318	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:00:02.039433	LOG	PUSH_DATA received while waiting first PULL_DATA
0:00:07.046169	LOG	PUSH_DATA received while waiting first PULL_DATA
0:00:10.295920	LOG	GPS Time updated: 1385109862833
0:00:10.296917	LOG	PULL_DATA: 02 9d4d 02 0016c001ff1025bf
0:00:10.298918	LOG	PULL_ACK: 02 9d4d 04
0:00:12.041196	LOG	First uplink received. Open reception window.
0:00:12.145572	LOG	PUSH_ACK: 02 752f 01
0:00:12.147572	LOG	GPS Time from gateway: 1385109869351
0:00:12.148573	LOG	PUSH_DATA: Protocol version = 02, Token = 752f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 28462113, 'time': '2023-11-27T08:44:10.351158Z', 'tmms': 1385109869351, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3305, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAxAECKDj3CKiA5wK604M='}]}
0:00:12.150111	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01c4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 02bad383)
0:00:12.151117	LOG	Server <---------- DUT
0:00:12.154116	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0165, FOpts:), FPort: e0, FRMPayload: 0500), MIC: e762d257)
0:00:12.156117	LOG	Frame command sent to the DUT
0:00:12.157117	LOG	PULL_RESP: Protocol version = 02, Token = 350d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 30462113, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAZQHgIdXnYtJX'}}
0:00:12.158117	LOG	Server ----------> DUT
0:00:12.161637	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:00:12.166629	LOG	Step 03
0:00:12.170630	LOG	Send NewChannelReq process starts
0:00:17.042136	LOG	First uplink received. Open reception window.
0:00:17.148792	LOG	PUSH_ACK: 02 87d3 01
0:00:17.150759	LOG	GPS Time from gateway: 1385109874351
0:00:17.151759	LOG	PUSH_DATA: Protocol version = 02, Token = 87d3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 33461858, 'time': '2023-11-27T08:44:15.350904Z', 'tmms': 1385109874351, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3309, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAxQECarPAHRuoTqwpjCk='}]}
0:00:17.153759	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01c5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ac298c29)
0:00:17.154262	LOG	Server <---------- DUT
0:00:17.156268	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0166, FOpts:), FPort: 00, FRMPayload: 070388668450), MIC: 1c9bbc74)
0:00:17.158268	LOG	PULL_RESP: Protocol version = 02, Token = b34f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 35461858, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YAAAAAAAZgEAnikD4dM5HJu8dA=='}}
0:00:17.159268	LOG	Server ----------> DUT
0:00:17.162792	LOG	TX_ACK: 02 b34f 05 0016c001ff1025bf
0:00:20.305793	LOG	GPS Time updated: 1385109877614
0:00:20.306755	LOG	PULL_DATA: 02 483c 02 0016c001ff1025bf
0:00:20.308757	LOG	PULL_ACK: 02 483c 04

0:00:22.052058	LOG	First uplink received. Open reception window.
0:00:22.158060	LOG	PUSH_ACK: 02 ff40 01
0:00:22.159062	LOG	GPS Time from gateway: 1385109879351
0:00:22.161146	LOG	PUSH_DATA: Protocol version = 02, Token = ff40, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 38461691, 'time': '2023-11-27T08:44:20.350736Z', 'tmms': 1385109879351, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3309, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCxgEHAwLUR3jzADZ9uZSVSg==\'}]}
0:00:22.163154	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 01c6, FOpts: 0703), FPort: 02, FRMPayload: 00000001020000, MIC: b994954a)
0:00:22.164151	LOG	Server <---------- DUT
0:00:22.166153	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:22.169185	LOG	Command Answer: 0703
0:00:22.175154	LOG	MAC command communication completed
0:00:22.179190	LOG	Step 04-05
0:00:22.183157	LOG	Send LinkADRReq process starts
0:00:27.039747	LOG	First uplink received. Open reception window.
0:00:27.155430	LOG	PUSH_ACK: 02 4f74 01
0:00:27.157395	LOG	GPS Time from gateway: 1385109884350
0:00:27.158395	LOG	PUSH_DATA: Protocol version = 02, Token = 4f74, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 43461340, 'time': '2023-11-27T08:44:25.350384Z', 'tmms': 1385109884350, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3292, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAxwEC8/eBe1b4PocDNt8=\'}]}
0:00:27.160400	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01c7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 870336df)
0:00:27.161904	LOG	Server <---------- DUT
0:00:27.163910	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0167, FOpts:), FPort: 00, FRMPayload: 0351080002), MIC: 646ada09)
0:00:27.165917	LOG	PULL_RESP: Protocol version = 02, Token = df2f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 45461340, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAZwEAOjSku7dkatoJ'}}
0:00:27.168505	LOG	Server ----------> DUT
0:00:27.172465	LOG	TX_ACK: 02 df2f 05 0016c001ff1025bf
0:00:30.316041	LOG	GPS Time updated: 1385109887627
0:00:30.317072	LOG	PULL_DATA: 02 8382 02 0016c001ff1025bf
0:00:30.319041	LOG	PULL_ACK: 02 8382 04
0:00:32.114101	LOG	First uplink received. Open reception window.
0:00:32.218654	LOG	PUSH_ACK: 02 61ea 01
0:00:32.220655	LOG	GPS Time from gateway: 1385109889417
0:00:32.221654	LOG	PUSH_DATA: Protocol version = 02, Token = 61ea, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 48527659, 'time': '2023-11-27T08:44:30.416702Z', 'tmms': 1385109889417, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3308, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCyAEDBwJN6aAuKRvkfkc+5Q==\'}]}
0:00:32.223621	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 01c8, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 7e473ee5)
0:00:32.224703	LOG	Server <---------- DUT
0:00:32.226708	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:32.228704	LOG	Command Answer: 0307
0:00:32.236739	LOG	MAC command communication completed
0:00:32.240774	LOG	Step 06
0:00:32.243996	LOG	Check number of uplinks repetitions process starts

0:00:34.402446	LOG	First uplink received. Open reception window.
0:00:34.514662	LOG	PUSH_ACK: 02 2a2a 01
0:00:34.516696	LOG	GPS Time from gateway: 1385109891704
0:00:34.517700	LOG	PUSH_DATA: Protocol version = 02, Token = 2a2a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 50815521, 'time': '2023-11-27T08:44:32.704564Z', 'tmms': 1385109891704, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3308, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCyAEDBwJN6aAuKRvkfkc+5Q=='}]}
0:00:34.518701	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 01c8, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 7e473ee5)
0:00:34.520665	LOG	Server <---------- DUT
0:00:34.521670	LOG	FRMPayload is the same between retransmissions
0:00:34.522670	LOG	Original uplink: 00000001020000
0:00:34.524710	LOG	Actual retransmission: 00000001020000
0:00:34.525702	LOG	FOpts is the same between retransmissions
0:00:34.526703	LOG	Original uplink: 0307
0:00:34.527702	LOG	Actual retransmission: 0307
0:00:34.529702	LOG	FPort is the same between retransmissions
0:00:34.530703	LOG	Original uplink: 02
0:00:34.531706	LOG	Actual retransmission: 02
0:00:37.045516	LOG	First uplink received. Open reception window.
0:00:37.156465	LOG	PUSH_ACK: 02 4a1d 01
0:00:37.158433	LOG	GPS Time from gateway: 1385109894350
0:00:37.159433	LOG	PUSH_DATA: Protocol version = 02, Token = 4a1d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 53460827, 'time': '2023-11-27T08:44:35.349869Z', 'tmms': 1385109894350, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 12.8, 'foff': -3292, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAyQECEFMuyozig9vD+S0='}]}
0:00:37.160437	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01c9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: dbc3f92d)
0:00:37.161941	LOG	Server <---------- DUT
0:00:37.165953	LOG	Expected repetitions of uplink message have been received
0:00:37.169988	LOG	Check previous uplink data rate process starts
0:00:37.175001	LOG	Uplink received with expected Data Rate
0:00:37.177953	LOG	Sending an EchoPayloadReq CP command to restart the ADRACKCnt in DUT
0:00:37.181497	LOG	Send Test Command EchoPayloadReq process starts
0:00:39.333684	LOG	First uplink received. Open reception window.
0:00:39.437665	LOG	PUSH_ACK: 02 ca0c 01
0:00:39.439634	LOG	GPS Time from gateway: 1385109896639
0:00:39.440665	LOG	PUSH_DATA: Protocol version = 02, Token = ca0c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 55749780, 'time': '2023-11-27T08:44:37.638822Z', 'tmms': 1385109896639, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3292, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAyQECEFMuyozig9vD+S0='}]}
0:00:39.441668	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01c9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: dbc3f92d)
0:00:39.443753	LOG	Server <---------- DUT
0:00:39.445752	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0168, FOpts:), FPort: e0, FRMPayload: 080a0b0c), MIC: 6b484f5c)
0:00:39.446753	LOG	Frame command sent to the DUT
0:00:39.448805	LOG	PULL_RESP: Protocol version = 02, Token = 5b29, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 57749780, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YAAAAAAAaAHgO+fQqGtIT1w='}}
0:00:39.450754	LOG	Server ----------> DUT
0:00:39.453753	LOG	TX_ACK: 02 5b29 05 0016c001ff1025bf

0:00:40.496098	LOG	GPS Time updated: 1385109897802
0:00:40.497092	LOG	PULL_DATA: 02 028d 02 0016c001ff1025bf
0:00:40.499094	LOG	PULL_ACK: 02 028d 04
0:00:42.585517	LOG	First uplink received. Open reception window.
0:00:42.698556	LOG	PUSH_ACK: 02 a940 01
0:00:42.700524	LOG	GPS Time from gateway: 1385109899898
0:00:42.701523	LOG	PUSH_DATA: Protocol version = 02, Token = a940, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 59008568, 'time': '2023-11-27T08:44:40.897609Z', 'tmms': 1385109899898, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3308, 'rssi': -52, 'size': 17, 'data': 'QAAAAACAygHgrEFa/iAnLok='}]}
0:00:42.703524	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01ca, FOpts:), FPort: e0, FRMPayload: 080b0c0d, MIC: 20272e89)
0:00:42.704524	LOG	Server <---------- DUT
0:00:42.706524	LOG	Frame Command Payload in the Answer: 080b0c0d
0:00:42.709356	LOG	Checking if the payload of the EchoPayloadAns is correct
0:00:42.713366	LOG	Send Test Command EchoPayloadReq process completed
0:00:42.717365	LOG	Step 07
0:00:42.721366	LOG	ADRACKReq bit is disabled
0:00:42.723871	LOG	ADRACKReq bit from DUT tested successfully
0:00:42.727878	LOG	Test adaptive data rate control in frame header process starts
0:00:44.872093	LOG	First uplink received. Open reception window.
0:00:44.981758	LOG	PUSH_ACK: 02 62f5 01
0:00:44.983727	LOG	GPS Time from gateway: 1385109902181
0:00:44.984725	LOG	PUSH_DATA: Protocol version = 02, Token = 62f5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 61291940, 'time': '2023-11-27T08:44:43.180981Z', 'tmms': 1385109902181, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3292, 'rssi': -52, 'size': 17, 'data': 'QAAAAACAygHgrEFa/iAnLok='}]}
0:00:44.986229	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01ca, FOpts:), FPort: e0, FRMPayload: 080b0c0d, MIC: 20272e89)
0:00:44.988234	LOG	Server <---------- DUT
0:00:44.989235	LOG	Repeated frame. It does not count
0:00:50.576243	LOG	GPS Time updated: 1385109907886
0:00:50.577246	LOG	PULL_DATA: 02 93ff 02 0016c001ff1025bf
0:00:50.579248	LOG	PULL_ACK: 02 93ff 04
0:00:52.039281	LOG	First uplink received. Open reception window.
0:00:52.151042	LOG	PUSH_ACK: 02 4208 01
0:00:52.153010	LOG	GPS Time from gateway: 1385109909349
0:00:52.154045	LOG	PUSH_DATA: Protocol version = 02, Token = 4208, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 68460047, 'time': '2023-11-27T08:44:50.349085Z', 'tmms': 1385109909349, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAywEClvI/M4jfQ2r0UKg='}]}
0:00:52.156012	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01cb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6af450a8)
0:00:52.157045	LOG	Server <---------- DUT
0:00:52.159026	LOG	Count = 2
0:00:54.335923	LOG	First uplink received. Open reception window.
0:00:54.447462	LOG	PUSH_ACK: 02 2ec9 01
0:00:54.449461	LOG	GPS Time from gateway: 1385109911638
0:00:54.450461	LOG	PUSH_DATA: Protocol version = 02, Token = 2ec9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 70748827, 'time': '2023-11-27T08:44:52.637866Z', 'tmms': 1385109911638, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAywEClvI/M4jfQ2r0UKg='}]}

0:00:54.452461	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01cb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6af450a8)
0:00:54.453501	LOG	Server <---------- DUT
0:00:54.455496	LOG	Repeated frame. It does not count
0:00:57.038313	LOG	First uplink received. Open reception window.
0:00:57.142262	LOG	PUSH_ACK: 02 db76 01
0:00:57.144227	LOG	GPS Time from gateway: 1385109914349
0:00:57.145227	LOG	PUSH_DATA: Protocol version = 02, Token = db76, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 73459796, 'time': '2023-11-27T08:44:55.348833Z', 'tmms': 1385109914349, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAzAEC8RSTV9m3uWZ+Cbs='}]}
0:00:57.147232	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01cc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 667e09bb)
0:00:57.148232	LOG	Server <---------- DUT
0:00:57.150232	LOG	Count = 3
0:00:59.330362	LOG	First uplink received. Open reception window.
0:00:59.443294	LOG	PUSH_ACK: 02 05db 01
0:00:59.445300	LOG	GPS Time from gateway: 1385109916637
0:00:59.446332	LOG	PUSH_DATA: Protocol version = 02, Token = 05db, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 75747694, 'time': '2023-11-27T08:44:57.636732Z', 'tmms': 1385109916637, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAzAEC8RSTV9m3uWZ+Cbs='}]}
0:00:59.448301	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01cc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 667e09bb)
0:00:59.449299	LOG	Server <---------- DUT
0:00:59.451332	LOG	Repeated frame. It does not count
0:01:00.656362	LOG	GPS Time updated: 1385109917963
0:01:00.657361	LOG	PULL_DATA: 02 b754 02 0016c001ff1025bf
0:01:00.659324	LOG	PULL_ACK: 02 b754 04
0:01:02.038952	LOG	First uplink received. Open reception window.
0:01:02.142020	LOG	PUSH_ACK: 02 4f3a 01
0:01:02.143988	LOG	GPS Time from gateway: 1385109919348
0:01:02.144988	LOG	PUSH_DATA: Protocol version = 02, Token = 4f3a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 78459528, 'time': '2023-11-27T08:45:00.348566Z', 'tmms': 1385109919348, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAzQEC8zkdb3TEfxiTXFk='}]}
0:01:02.146988	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01cd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 18935c59)
0:01:02.147994	LOG	Server <---------- DUT
0:01:02.149993	LOG	Count = 4
0:01:04.334206	LOG	First uplink received. Open reception window.
0:01:04.440252	LOG	PUSH_ACK: 02 d6b0 01
0:01:04.442253	LOG	GPS Time from gateway: 1385109921637
0:01:04.443221	LOG	PUSH_DATA: Protocol version = 02, Token = d6b0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 80747858, 'time': '2023-11-27T08:45:02.636895Z', 'tmms': 1385109921637, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAzQEC8zkdb3TEfxiTXFk='}]}
0:01:04.445315	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01cd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 18935c59)
0:01:04.447314	LOG	Server <---------- DUT
0:01:04.449387	LOG	Repeated frame. It does not count
0:01:07.040227	LOG	First uplink received. Open reception window.

0:01:07.152822	LOG	PUSH_ACK: 02 2400 01
0:01:07.154792	LOG	GPS Time from gateway: 1385109924348
0:01:07.155825	LOG	PUSH_DATA: Protocol version = 02, Token = 2400, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 83459274, 'time': '2023-11-27T08:45:05.348311Z', 'tmms': 1385109924348, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.0, 'foff': -3285, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAzgECFJjylztQxEezAfc='}]}
0:01:07.157809	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01ce, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 47b301f7)
0:01:07.158823	LOG	Server <---------- DUT
0:01:07.160792	LOG	Count = 5
0:01:09.331316	LOG	First uplink received. Open reception window.
0:01:09.443276	LOG	PUSH_ACK: 02 da6e 01
0:01:09.444782	LOG	GPS Time from gateway: 1385109926636
0:01:09.446784	LOG	PUSH_DATA: Protocol version = 02, Token = da6e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 85747209, 'time': '2023-11-27T08:45:07.636245Z', 'tmms': 1385109926636, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAzgECFJjylztQxEezAfc='}]}
0:01:09.447783	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01ce, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 47b301f7)
0:01:09.448784	LOG	Server <---------- DUT
0:01:09.450784	LOG	Repeated frame. It does not count
0:01:10.736043	LOG	GPS Time updated: 1385109928042
0:01:10.738010	LOG	PULL_DATA: 02 7a02 02 0016c001ff1025bf
0:01:10.739012	LOG	PULL_ACK: 02 7a02 04
0:01:12.036005	LOG	First uplink received. Open reception window.
0:01:12.144468	LOG	PUSH_ACK: 02 737c 01
0:01:12.146436	LOG	GPS Time from gateway: 1385109929348
0:01:12.147441	LOG	PUSH_DATA: Protocol version = 02, Token = 737c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 88459015, 'time': '2023-11-27T08:45:10.348051Z', 'tmms': 1385109929348, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3285, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAzwECnfZrtQqq6H25UZw='}]}
0:01:12.149446	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01cf, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7db9519c)
0:01:12.150446	LOG	Server <---------- DUT
0:01:12.152447	LOG	Count = 6
0:01:14.331257	LOG	First uplink received. Open reception window.
0:01:14.432649	LOG	PUSH_ACK: 02 8f1d 01
0:01:14.434651	LOG	GPS Time from gateway: 1385109931636
0:01:14.435651	LOG	PUSH_DATA: Protocol version = 02, Token = 8f1d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 90747352, 'time': '2023-11-27T08:45:12.636386Z', 'tmms': 1385109931636, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAzwECnfZrtQqq6H25UZw='}]}
0:01:14.437650	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01cf, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7db9519c)
0:01:14.438652	LOG	Server <---------- DUT
0:01:14.440650	LOG	Repeated frame. It does not count
0:01:17.040425	LOG	First uplink received. Open reception window.
0:01:17.146264	LOG	PUSH_ACK: 02 bdf1 01
0:01:17.148234	LOG	GPS Time from gateway: 1385109934348
0:01:17.149236	LOG	PUSH_DATA: Protocol version = 02, Token = bdf1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 93458753, 'time': '2023-11-27T08:45:15.347788Z', 'tmms': 1385109934348, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA',

		'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3285, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA0AEC8UWFPc28vxyjPS0='}]}
0:01:17.151241	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01d0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1ca33d2d)
0:01:17.152241	LOG	Server <---------- DUT
0:01:17.154241	LOG	Count = 7
0:01:19.331481	LOG	First uplink received. Open reception window.
0:01:19.445062	LOG	PUSH_ACK: 02 1250 01
0:01:19.447063	LOG	GPS Time from gateway: 1385109936636
0:01:19.448063	LOG	PUSH_DATA: Protocol version = 02, Token = 1250, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 95747188, 'time': '2023-11-27T08:45:17.636221Z', 'tmms': 1385109936636, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3285, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA0AEC8UWFPc28vxyjPS0='}]}
0:01:19.450063	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01d0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1ca33d2d)
0:01:19.451065	LOG	Server <---------- DUT
0:01:19.453031	LOG	Repeated frame. It does not count
0:01:20.816862	LOG	GPS Time updated: 1385109938121
0:01:20.817861	LOG	PULL_DATA: 02 f055 02 0016c001ff1025bf
0:01:20.819862	LOG	PULL_ACK: 02 f055 04
0:01:22.040685	LOG	First uplink received. Open reception window.
0:01:22.153544	LOG	PUSH_ACK: 02 581f 01
0:01:22.155510	LOG	GPS Time from gateway: 1385109939347
0:01:22.157516	LOG	PUSH_DATA: Protocol version = 02, Token = 581f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 98458491, 'time': '2023-11-27T08:45:20.347525Z', 'tmms': 1385109939347, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3285, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA0QECiPWIWDnvMFZ6XlQ='}]}
0:01:22.158516	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01d1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 567a5e54)
0:01:22.160516	LOG	Server <---------- DUT
0:01:22.161515	LOG	Count = 8
0:01:24.327739	LOG	First uplink received. Open reception window.
0:01:24.439431	LOG	PUSH_ACK: 02 1e34 01
0:01:24.441398	LOG	GPS Time from gateway: 1385109941636
0:01:24.442430	LOG	PUSH_DATA: Protocol version = 02, Token = 1e34, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 100746917, 'time': '2023-11-27T08:45:22.635951Z', 'tmms': 1385109941636, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3285, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA0QECiPWIWDnvMFZ6XlQ='}]}
0:01:24.443978	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01d1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 567a5e54)
0:01:24.445985	LOG	Server <---------- DUT
0:01:24.447983	LOG	Repeated frame. It does not count
0:01:27.039901	LOG	First uplink received. Open reception window.
0:01:27.147457	LOG	PUSH_ACK: 02 9524 01
0:01:27.149463	LOG	GPS Time from gateway: 1385109944347
0:01:27.150495	LOG	PUSH_DATA: Protocol version = 02, Token = 9524, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 103458237, 'time': '2023-11-27T08:45:25.347270Z', 'tmms': 1385109944347, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3285, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA0gECJ8ZPWSlEXtTR42o='}]}
0:01:27.152496	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01d2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d4d1e36a)
0:01:27.153463	LOG	Server <---------- DUT

0:01:27.155465	LOG	Count = 9
0:01:29.323198	LOG	First uplink received. Open reception window.
0:01:29.425294	LOG	PUSH_ACK: 02 0f4c 01
0:01:29.427300	LOG	GPS Time from gateway: 1385109946636
0:01:29.428806	LOG	PUSH_DATA: Protocol version = 02, Token = 0f4c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 105746622, 'time': '2023-11-27T08:45:27.635655Z', 'tmms': 1385109946636, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3285, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA0gECJ8ZPWSlEXtTR42o='}]}
0:01:29.429844	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01d2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d4d1e36a)
0:01:29.430844	LOG	Server <---------- DUT
0:01:29.432844	LOG	Repeated frame. It does not count
0:01:30.896802	LOG	GPS Time updated: 1385109948209
0:01:30.897802	LOG	PULL_DATA: 02 785e 02 0016c001ff1025bf
0:01:30.899804	LOG	PULL_ACK: 02 785e 04
0:01:32.045365	LOG	First uplink received. Open reception window.
0:01:32.146516	LOG	PUSH_ACK: 02 874f 01
0:01:32.148587	LOG	GPS Time from gateway: 1385109949347
0:01:32.149588	LOG	PUSH_DATA: Protocol version = 02, Token = 874f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 108457988, 'time': '2023-11-27T08:45:30.347020Z', 'tmms': 1385109949347, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3277, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA0wECPqTrvyHO41lZ688='}]}
0:01:32.151556	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01d3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5959ebcf)
0:01:32.152589	LOG	Server <---------- DUT
0:01:32.154557	LOG	Count = 10
0:01:34.327914	LOG	First uplink received. Open reception window.
0:01:34.433782	LOG	PUSH_ACK: 02 0eab 01
0:01:34.435789	LOG	GPS Time from gateway: 1385109951635
0:01:34.437789	LOG	PUSH_DATA: Protocol version = 02, Token = 0eab, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 110746331, 'time': '2023-11-27T08:45:32.635363Z', 'tmms': 1385109951635, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3285, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA0wECPqTrvyHO41lZ688='}]}
0:01:34.438789	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01d3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5959ebcf)
0:01:34.440790	LOG	Server <---------- DUT
0:01:34.442789	LOG	Repeated frame. It does not count
0:01:38.370535	LOG	First uplink received. Open reception window.
0:01:38.480747	LOG	PUSH_ACK: 02 4fe9 01
0:01:38.482748	LOG	GPS Time from gateway: 1385109955677
0:01:38.483716	LOG	PUSH_DATA: Protocol version = 02, Token = 4fe9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 114787839, 'time': '2023-11-27T08:45:36.676870Z', 'tmms': 1385109955677, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.0, 'foff': -3277, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA1AECMZNQrGG4gxz3dLI='}]}
0:01:38.485749	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01d4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1cf774b2)
0:01:38.486748	LOG	Server <---------- DUT
0:01:38.488717	LOG	Count = 11
0:01:40.659963	LOG	First uplink received. Open reception window.
0:01:40.765812	LOG	PUSH_ACK: 02 8e94 01
0:01:40.767781	LOG	GPS Time from gateway: 1385109957965

0:01:40.768780	LOG	PUSH_DATA: Protocol version = 02, Token = 8e94, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 117075691, 'time': '2023-11-27T08:45:38.964722Z', 'tmms': 1385109957965, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3277, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA1AECMZNQrGG4gxz3dLI='}]}
0:01:40.770781	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01d4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1cf774b2)
0:01:40.771780	LOG	Server <---------- DUT
0:01:40.773786	LOG	Repeated frame. It does not count
0:01:40.976866	LOG	GPS Time updated: 1385109958282
0:01:40.978868	LOG	PULL_DATA: 02 6f01 02 0016c001ff1025bf
0:01:40.979868	LOG	PULL_ACK: 02 6f01 04
0:01:43.144312	LOG	First uplink received. Open reception window.
0:01:43.248303	LOG	PUSH_ACK: 02 11ff 01
0:01:43.250272	LOG	GPS Time from gateway: 1385109960453
0:01:43.251271	LOG	PUSH_DATA: Protocol version = 02, Token = 11ff, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 119563856, 'time': '2023-11-27T08:45:41.452886Z', 'tmms': 1385109960453, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3277, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA1QECMe6jXvaRXrsQAKI='}]}
0:01:43.253270	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01d5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: bb1000a2)
0:01:43.254271	LOG	Server <---------- DUT
0:01:43.255271	LOG	Count = 12
0:01:45.436639	LOG	First uplink received. Open reception window.
0:01:45.548171	LOG	PUSH_ACK: 02 1ece 01
0:01:45.550174	LOG	GPS Time from gateway: 1385109962742
0:01:45.551206	LOG	PUSH_DATA: Protocol version = 02, Token = 1ece, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 121852626, 'time': '2023-11-27T08:45:43.741656Z', 'tmms': 1385109962742, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3277, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA1QECMe6jXvaRXrsQAKI='}]}
0:01:45.553212	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01d5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: bb1000a2)
0:01:45.554207	LOG	Server <---------- DUT
0:01:45.556273	LOG	Repeated frame. It does not count
0:01:48.146416	LOG	First uplink received. Open reception window.
0:01:48.257035	LOG	PUSH_ACK: 02 f031 01
0:01:48.259039	LOG	GPS Time from gateway: 1385109965453
0:01:48.260039	LOG	PUSH_DATA: Protocol version = 02, Token = f031, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 124563589, 'time': '2023-11-27T08:45:46.452618Z', 'tmms': 1385109965453, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3277, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA1gECCsPXhPn/ApfEzWI='}]}
0:01:48.262040	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01d6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 97c4cd62)
0:01:48.263040	LOG	Server <---------- DUT
0:01:48.265040	LOG	Count = 13
0:01:50.437961	LOG	First uplink received. Open reception window.
0:01:50.551525	LOG	PUSH_ACK: 02 1ee1 01
0:01:50.553527	LOG	GPS Time from gateway: 1385109967741
0:01:50.554526	LOG	PUSH_DATA: Protocol version = 02, Token = 1ee1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 126852039, 'time': '2023-11-27T08:45:48.741068Z', 'tmms': 1385109967741, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3277, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA1gECCsPXhPn/ApfEzWI='}]}

0:01:50.556531	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01d6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 97c4cd62)
0:01:50.557530	LOG	Server <---------- DUT
0:01:50.559532	LOG	Repeated frame. It does not count
0:01:51.056983	LOG	GPS Time updated: 1385109968360
0:01:51.058957	LOG	PULL_DATA: 02 8676 02 0016c001ff1025bf
0:01:51.060583	LOG	PULL_ACK: 02 8676 04
0:01:53.148988	LOG	First uplink received. Open reception window.
0:01:53.261035	LOG	PUSH_ACK: 02 00a4 01
0:01:53.263037	LOG	GPS Time from gateway: 1385109970452
0:01:53.264070	LOG	PUSH_DATA: Protocol version = 02, Token = 00a4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 129563341, 'time': '2023-11-27T08:45:51.452369Z', 'tmms': 1385109970452, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3277, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA1wECfpa/rO4VshhkLy4='}]}
0:01:53.266039	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01d7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 18642f2e)
0:01:53.267070	LOG	Server <---------- DUT
0:01:53.269037	LOG	Count = 14
0:01:55.434954	LOG	First uplink received. Open reception window.
0:01:55.545384	LOG	PUSH_ACK: 02 aa95 01
0:01:55.547386	LOG	GPS Time from gateway: 1385109972740
0:01:55.548386	LOG	PUSH_DATA: Protocol version = 02, Token = aa95, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 131851357, 'time': '2023-11-27T08:45:53.740385Z', 'tmms': 1385109972740, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3277, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA1wECfpa/rO4VshhkLy4='}]}
0:01:55.550387	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01d7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 18642f2e)
0:01:55.551387	LOG	Server <---------- DUT
0:01:55.552387	LOG	Repeated frame. It does not count
0:01:58.149719	LOG	First uplink received. Open reception window.
0:01:58.262420	LOG	PUSH_ACK: 02 c8b9 01
0:01:58.264390	LOG	GPS Time from gateway: 1385109975452
0:01:58.266394	LOG	PUSH_DATA: Protocol version = 02, Token = c8b9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 134563077, 'time': '2023-11-27T08:45:56.452103Z', 'tmms': 1385109975452, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3277, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA2AECgk/vwjqM06S+5/E='}]}
0:01:58.267386	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01d8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a4bee7f1)
0:01:58.269388	LOG	Server <---------- DUT
0:01:58.271388	LOG	Count = 15
0:02:00.435936	LOG	First uplink received. Open reception window.
0:02:00.548050	LOG	PUSH_ACK: 02 e241 01
0:02:00.550019	LOG	GPS Time from gateway: 1385109977740
0:02:00.551018	LOG	PUSH_DATA: Protocol version = 02, Token = e241, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 136850971, 'time': '2023-11-27T08:45:58.739998Z', 'tmms': 1385109977740, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3277, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA2AECgk/vwjqM06S+5/E='}]}
0:02:00.553018	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01d8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a4bee7f1)
0:02:00.554018	LOG	Server <---------- DUT
0:02:00.556019	LOG	Repeated frame. It does not count
0:02:01.137307	LOG	GPS Time updated: 1385109978442

0:02:01.138305	LOG	PULL_DATA: 02 1769 02 0016c001ff1025bf
0:02:01.140307	LOG	PULL_ACK: 02 1769 04
0:02:03.150010	LOG	First uplink received. Open reception window.
0:02:03.265799	LOG	PUSH_ACK: 02 9026 01
0:02:03.267799	LOG	GPS Time from gateway: 1385109980452
0:02:03.268801	LOG	PUSH_DATA: Protocol version = 02, Token = 9026, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 139562821, 'time': '2023-11-27T08:46:01.451846Z', 'tmms': 1385109980452, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3277, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA2QECq2ADnKvys3bOado='}]}
0:02:03.270800	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01d9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 76ce69da)
0:02:03.271800	LOG	Server <---------- DUT
0:02:03.273824	LOG	Count = 16
0:02:05.438962	LOG	First uplink received. Open reception window.
0:02:05.546575	LOG	PUSH_ACK: 02 14df 01
0:02:05.548576	LOG	GPS Time from gateway: 1385109982740
0:02:05.549580	LOG	PUSH_DATA: Protocol version = 02, Token = 14df, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 141851193, 'time': '2023-11-27T08:46:03.740219Z', 'tmms': 1385109982740, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3277, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA2QECq2ADnKvys3bOado='}]}
0:02:05.551582	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01d9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 76ce69da)
0:02:05.552615	LOG	Server <---------- DUT
0:02:05.554582	LOG	Repeated frame. It does not count
0:02:08.140511	LOG	First uplink received. Open reception window.
0:02:08.249160	LOG	PUSH_ACK: 02 0f2e 01
0:02:08.251125	LOG	GPS Time from gateway: 1385109985451
0:02:08.252129	LOG	PUSH_DATA: Protocol version = 02, Token = 0f2e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 144562563, 'time': '2023-11-27T08:46:06.451589Z', 'tmms': 1385109985451, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3277, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA2gECN0KpUoCBdJDAFqY='}]}
0:02:08.254130	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01da, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 90c016a6)
0:02:08.255130	LOG	Server <---------- DUT
0:02:08.257131	LOG	Count = 17
0:02:10.436839	LOG	First uplink received. Open reception window.
0:02:10.540453	LOG	PUSH_ACK: 02 c3bc 01
0:02:10.542421	LOG	GPS Time from gateway: 1385109987740
0:02:10.543424	LOG	PUSH_DATA: Protocol version = 02, Token = c3bc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 146851326, 'time': '2023-11-27T08:46:08.740351Z', 'tmms': 1385109987740, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3285, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA2gECN0KpUoCBdJDAFqY='}]}
0:02:10.545424	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01da, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 90c016a6)
0:02:10.546454	LOG	Server <---------- DUT
0:02:10.548455	LOG	Repeated frame. It does not count
0:02:11.217389	LOG	GPS Time updated: 1385109988522
0:02:11.218420	LOG	PULL_DATA: 02 9ed4 02 0016c001ff1025bf
0:02:11.220421	LOG	PULL_ACK: 02 9ed4 04
0:02:13.148949	LOG	First uplink received. Open reception window.
0:02:13.260655	LOG	PUSH_ACK: 02 bbbd 01
0:02:13.262623	LOG	GPS Time from gateway: 1385109990451

0:02:13.263622	LOG	PUSH_DATA: Protocol version = 02, Token = bbbd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 149562307, 'time': '2023-11-27T08:46:11.451332Z', 'tmms': 1385109990451, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3285, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA2wECxlBLy4lnPzCB2SM='}]}
0:02:13.265623	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01db, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3081d923)
0:02:13.266622	LOG	Server <---------- DUT
0:02:13.268623	LOG	Count = 18
0:02:15.432890	LOG	First uplink received. Open reception window.
0:02:15.541537	LOG	PUSH_ACK: 02 a2ac 01
0:02:15.543506	LOG	GPS Time from gateway: 1385109992740
0:02:15.544507	LOG	PUSH_DATA: Protocol version = 02, Token = a2ac, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 151850749, 'time': '2023-11-27T08:46:13.739773Z', 'tmms': 1385109992740, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3285, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA2wECxlBLy4lnPzCB2SM='}]}
0:02:15.546538	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01db, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3081d923)
0:02:15.547539	LOG	Server <---------- DUT
0:02:15.549535	LOG	Repeated frame. It does not count
0:02:18.144212	LOG	First uplink received. Open reception window.
0:02:18.259830	LOG	PUSH_ACK: 02 eec0 01
0:02:18.261793	LOG	GPS Time from gateway: 1385109995451
0:02:18.262793	LOG	PUSH_DATA: Protocol version = 02, Token = eec0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 154562042, 'time': '2023-11-27T08:46:16.451066Z', 'tmms': 1385109995451, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3285, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA3AECHVdq3EulIJQSH/k='}]}
0:02:18.264798	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01dc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 94121ff9)
0:02:18.265831	LOG	Server <---------- DUT
0:02:18.267798	LOG	Count = 19
0:02:20.439021	LOG	First uplink received. Open reception window.
0:02:20.552641	LOG	PUSH_ACK: 02 8d74 01
0:02:20.554609	LOG	GPS Time from gateway: 1385109997739
0:02:20.555609	LOG	PUSH_DATA: Protocol version = 02, Token = 8d74, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 156850261, 'time': '2023-11-27T08:46:18.739283Z', 'tmms': 1385109997739, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3285, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA3AECHVdq3EulIJQSH/k='}]}
0:02:20.557610	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01dc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 94121ff9)
0:02:20.558609	LOG	Server <---------- DUT
0:02:20.560610	LOG	Repeated frame. It does not count
0:02:21.307757	LOG	GPS Time updated: 1385109998607
0:02:21.309724	LOG	PULL_DATA: 02 368d 02 0016c001ff1025bf
0:02:21.310724	LOG	PULL_ACK: 02 368d 04
0:02:23.148556	LOG	First uplink received. Open reception window.
0:02:23.260209	LOG	PUSH_ACK: 02 18e1 01
0:02:23.262210	LOG	GPS Time from gateway: 1385110000451
0:02:23.263205	LOG	PUSH_DATA: Protocol version = 02, Token = 18e1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 159561782, 'time': '2023-11-27T08:46:21.450805Z', 'tmms': 1385110000451, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3277, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA3QECE7QpcnfdDMRkSpY='}]}

0:02:23.265211	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01dd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c4644a96)
0:02:23.266210	LOG	Server <---------- DUT
0:02:23.268179	LOG	Count = 20
0:02:25.429910	LOG	First uplink received. Open reception window.
0:02:25.540540	LOG	PUSH_ACK: 02 22e1 01
0:02:25.542508	LOG	GPS Time from gateway: 1385110002739
0:02:25.543507	LOG	PUSH_DATA: Protocol version = 02, Token = 22e1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 161849835, 'time': '2023-11-27T08:46:23.738856Z', 'tmms': 1385110002739, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3285, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA3QECE7QpcnfdDMRkSpY='}]}
0:02:25.545508	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01dd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c4644a96)
0:02:25.546507	LOG	Server <---------- DUT
0:02:25.548509	LOG	Repeated frame. It does not count
0:02:28.140754	LOG	First uplink received. Open reception window.
0:02:28.241398	LOG	PUSH_ACK: 02 9a04 01
0:02:28.243367	LOG	GPS Time from gateway: 1385110005450
0:02:28.244366	LOG	PUSH_DATA: Protocol version = 02, Token = 9a04, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 164561532, 'time': '2023-11-27T08:46:26.450554Z', 'tmms': 1385110005450, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3277, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA3gEC6wUQqZhrTzIQ340='}]}
0:02:28.246367	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01de, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3210df8d)
0:02:28.247367	LOG	Server <---------- DUT
0:02:28.249367	LOG	Count = 21
0:02:30.443329	LOG	First uplink received. Open reception window.
0:02:30.550945	LOG	PUSH_ACK: 02 22b2 01
0:02:30.552908	LOG	GPS Time from gateway: 1385110007739
0:02:30.553909	LOG	PUSH_DATA: Protocol version = 02, Token = 22b2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 166850216, 'time': '2023-11-27T08:46:28.739236Z', 'tmms': 1385110007739, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3285, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA3gEC6wUQqZhrTzIQ340='}]}
0:02:30.555923	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01de, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3210df8d)
0:02:30.556910	LOG	Server <---------- DUT
0:02:30.558910	LOG	Repeated frame. It does not count
0:02:31.387884	LOG	GPS Time updated: 1385110008691
0:02:31.389851	LOG	PULL_DATA: 02 6db2 02 0016c001ff1025bf
0:02:31.391355	LOG	PULL_ACK: 02 6db2 04
0:02:33.144442	LOG	First uplink received. Open reception window.
0:02:33.255473	LOG	PUSH_ACK: 02 d882 01
0:02:33.257441	LOG	GPS Time from gateway: 1385110010450
0:02:33.258441	LOG	PUSH_DATA: Protocol version = 02, Token = d882, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 169561277, 'time': '2023-11-27T08:46:31.450298Z', 'tmms': 1385110010450, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3277, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA3wECQxfk5HD+/8rUHmc='}]}
0:02:33.260442	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01df, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: cad41e67)
0:02:33.261442	LOG	Server <---------- DUT
0:02:33.263442	LOG	Count = 22
0:02:35.431737	LOG	First uplink received. Open reception window.

0:02:35.537340	LOG	PUSH_ACK: 02 91e7 01
0:02:35.539306	LOG	GPS Time from gateway: 1385110012738
0:02:35.540309	LOG	PUSH_DATA: Protocol version = 02, Token = 91e7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 171849599, 'time': '2023-11-27T08:46:33.738620Z', 'tmms': 1385110012738, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3285, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA3wECQxfk5HD+/8rUHmc='}]}
0:02:35.542337	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01df, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: cad41e67)
0:02:35.543342	LOG	Server <---------- DUT
0:02:35.545337	LOG	Repeated frame. It does not count
0:02:38.143613	LOG	First uplink received. Open reception window.
0:02:38.255816	LOG	PUSH_ACK: 02 b0de 01
0:02:38.257783	LOG	GPS Time from gateway: 1385110015450
0:02:38.258784	LOG	PUSH_DATA: Protocol version = 02, Token = b0de, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 174561016, 'time': '2023-11-27T08:46:36.450036Z', 'tmms': 1385110015450, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3277, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA4AECvjBw8QEMTKBpwBU='}]}
0:02:38.260784	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01e0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a069c015)
0:02:38.261785	LOG	Server <---------- DUT
0:02:38.263784	LOG	Count = 23
0:02:40.434101	LOG	First uplink received. Open reception window.
0:02:40.538165	LOG	PUSH_ACK: 02 9b22 01
0:02:40.540133	LOG	GPS Time from gateway: 1385110017738
0:02:40.541146	LOG	PUSH_DATA: Protocol version = 02, Token = 9b22, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 176849539, 'time': '2023-11-27T08:46:38.738559Z', 'tmms': 1385110017738, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3285, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA4AECvjBw8QEMTKBpwBU='}]}
0:02:40.543167	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01e0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a069c015)
0:02:40.544165	LOG	Server <---------- DUT
0:02:40.546167	LOG	Repeated frame. It does not count
0:02:41.467512	LOG	GPS Time updated: 1385110018771
0:02:41.469479	LOG	PULL_DATA: 02 4756 02 0016c001ff1025bf
0:02:41.470481	LOG	PULL_ACK: 02 4756 04
0:02:43.146094	LOG	First uplink received. Open reception window.
0:02:43.258718	LOG	PUSH_ACK: 02 dfe9 01
0:02:43.260717	LOG	GPS Time from gateway: 1385110020450
0:02:43.261717	LOG	PUSH_DATA: Protocol version = 02, Token = dfe9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 179560763, 'time': '2023-11-27T08:46:41.449782Z', 'tmms': 1385110020450, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3277, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA4QEC0X/qOBaopeGDyDo='}]}
0:02:43.263717	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01e1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e183c83a)
0:02:43.264718	LOG	Server <---------- DUT
0:02:43.266710	LOG	Count = 24
0:02:45.427515	LOG	First uplink received. Open reception window.
0:02:45.539162	LOG	PUSH_ACK: 02 02cd 01
0:02:45.541162	LOG	GPS Time from gateway: 1385110022738
0:02:45.542163	LOG	PUSH_DATA: Protocol version = 02, Token = 02cd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 181848701, 'time': '2023-11-27T08:46:43.737720Z', 'tmms': 1385110022738, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.0, 'foff': -3277, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA4QEC0X/qOBaopeGDyDo='}]}
0:02:45.544132	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01e1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e183c83a)
0:02:45.545164	LOG	Server <---------- DUT
0:02:45.547132	LOG	Repeated frame. It does not count
0:02:48.148715	LOG	First uplink received. Open reception window.
0:02:48.258403	LOG	PUSH_ACK: 02 a98f 01
0:02:48.260403	LOG	GPS Time from gateway: 1385110025449
0:02:48.261404	LOG	PUSH_DATA: Protocol version = 02, Token = a98f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 184560503, 'time': '2023-11-27T08:46:46.449521Z', 'tmms': 1385110025449, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3277, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA4gECsAmyxVbF86m3mAU='}]}
0:02:48.262404	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01e2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a9b79805)
0:02:48.264405	LOG	Server <---------- DUT
0:02:48.266406	LOG	Count = 25
0:02:50.434640	LOG	First uplink received. Open reception window.
0:02:50.537292	LOG	PUSH_ACK: 02 41e0 01
0:02:50.539255	LOG	GPS Time from gateway: 1385110027737
0:02:50.540255	LOG	PUSH_DATA: Protocol version = 02, Token = 41e0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 186848569, 'time': '2023-11-27T08:46:48.737587Z', 'tmms': 1385110027737, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3277, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA4gECsAmyxVbF86m3mAU='}]}
0:02:50.542256	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01e2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a9b79805)
0:02:50.543256	LOG	Server <---------- DUT
0:02:50.545260	LOG	Repeated frame. It does not count
0:02:51.547566	LOG	GPS Time updated: 1385110028851
0:02:51.549561	LOG	PULL_DATA: 02 1c5a 02 0016c001ff1025bf
0:02:51.551529	LOG	PULL_ACK: 02 1c5a 04
0:02:53.140898	LOG	First uplink received. Open reception window.
0:02:53.244472	LOG	PUSH_ACK: 02 c13f 01
0:02:53.246441	LOG	GPS Time from gateway: 1385110030449
0:02:53.247473	LOG	PUSH_DATA: Protocol version = 02, Token = c13f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 189560238, 'time': '2023-11-27T08:46:51.449255Z', 'tmms': 1385110030449, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3277, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA4wECr0g/9gGqEeKDnIw='}]}
0:02:53.249443	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01e3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e2839c8c)
0:02:53.250476	LOG	Server <---------- DUT
0:02:53.252441	LOG	Count = 26
0:02:55.434688	LOG	First uplink received. Open reception window.
0:02:55.542340	LOG	PUSH_ACK: 02 3b5b 01
0:02:55.544306	LOG	GPS Time from gateway: 1385110032738
0:02:55.545308	LOG	PUSH_DATA: Protocol version = 02, Token = 3b5b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 191849020, 'time': '2023-11-27T08:46:53.738037Z', 'tmms': 1385110032738, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3285, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA4wECr0g/9gGqEeKDnIw='}]}
0:02:55.547308	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01e3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e2839c8c)
0:02:55.548308	LOG	Server <---------- DUT

0:02:55.550307	LOG	Repeated frame. It does not count
0:02:59.543549	LOG	First uplink received. Open reception window.
0:02:59.650036	LOG	PUSH_ACK: 02 435d 01
0:02:59.652004	LOG	GPS Time from gateway: 1385110036848
0:02:59.653003	LOG	PUSH_DATA: Protocol version = 02, Token = 435d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 195959437, 'time': '2023-11-27T08:46:57.848453Z', 'tmms': 1385110036848, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.0, 'foff': -3277, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA5AECBBDEQc+7SyBMrP8='}]}
0:02:59.655004	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01e4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 204cacff)
0:02:59.656004	LOG	Server <---------- DUT
0:02:59.658004	LOG	Count = 27
0:03:01.628908	LOG	GPS Time updated: 1385110038933
0:03:01.629910	LOG	PULL_DATA: 02 0db1 02 0016c001ff1025bf
0:03:01.631909	LOG	PULL_ACK: 02 0db1 04
0:03:01.829938	LOG	First uplink received. Open reception window.
0:03:01.932259	LOG	PUSH_ACK: 02 0fe5 01
0:03:01.934452	LOG	GPS Time from gateway: 1385110039136
0:03:01.936349	LOG	PUSH_DATA: Protocol version = 02, Token = 0fe5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 198247525, 'time': '2023-11-27T08:47:00.136541Z', 'tmms': 1385110039136, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3285, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA5AECBBDEQc+7SyBMrP8='}]}
0:03:01.937500	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01e4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 204cacff)
0:03:01.939166	LOG	Server <---------- DUT
0:03:01.940823	LOG	Repeated frame. It does not count
0:03:04.314148	LOG	First uplink received. Open reception window.
0:03:04.431014	LOG	PUSH_ACK: 02 33a0 01
0:03:04.433714	LOG	GPS Time from gateway: 1385110041624
0:03:04.435362	LOG	PUSH_DATA: Protocol version = 02, Token = 33a0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 200735446, 'time': '2023-11-27T08:47:02.624461Z', 'tmms': 1385110041624, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3277, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA5QEC2S+JtZB5JI0Z/Vw='}]}
0:03:04.437026	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01e5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8d19fd5c)
0:03:04.438955	LOG	Server <---------- DUT
0:03:04.441207	LOG	Count = 28
0:03:06.603810	LOG	First uplink received. Open reception window.
0:03:06.711389	LOG	PUSH_ACK: 02 cce3 01
0:03:06.713365	LOG	GPS Time from gateway: 1385110043912
0:03:06.714396	LOG	PUSH_DATA: Protocol version = 02, Token = cce3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 203023392, 'time': '2023-11-27T08:47:04.912407Z', 'tmms': 1385110043912, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.0, 'foff': -3285, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA5QEC2S+JtZB5JI0Z/Vw='}]}
0:03:06.716395	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01e5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8d19fd5c)
0:03:06.717396	LOG	Server <---------- DUT
0:03:06.719364	LOG	Repeated frame. It does not count
0:03:09.317317	LOG	First uplink received. Open reception window.
0:03:09.430366	LOG	PUSH_ACK: 02 7f50 01
0:03:09.432403	LOG	GPS Time from gateway: 1385110046624

0:03:09.433412	LOG	PUSH_DATA: Protocol version = 02, Token = 7f50, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 205735187, 'time': '2023-11-27T08:47:07.624201Z', 'tmms': 1385110046624, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3277, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA5gECb7Tx3XR5gopqXcE='}]}
0:03:09.435371	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01e6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8a6a5dc1)
0:03:09.436371	LOG	Server <---------- DUT
0:03:09.438371	LOG	Count = 29
0:03:11.603111	LOG	First uplink received. Open reception window.
0:03:11.707725	LOG	PULL_DATA: 02 7052 02 0016c001ff1025bf
0:03:11.709726	LOG	PULL_ACK: 02 7052 04
0:03:11.711727	LOG	PUSH_ACK: 02 739e 01
0:03:11.713729	LOG	GPS Time from gateway: 1385110048912
0:03:11.714759	LOG	PUSH_DATA: Protocol version = 02, Token = 739e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 208023143, 'time': '2023-11-27T08:47:09.912157Z', 'tmms': 1385110048912, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3285, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA5gECb7Tx3XR5gopqXcE='}]}
0:03:11.716728	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01e6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8a6a5dc1)
0:03:11.717733	LOG	Server <---------- DUT
0:03:11.719733	LOG	Repeated frame. It does not count
0:03:14.315507	LOG	First uplink received. Open reception window.
0:03:14.417757	LOG	PUSH_ACK: 02 8873 01
0:03:14.419725	LOG	GPS Time from gateway: 1385110051624
0:03:14.420725	LOG	PUSH_DATA: Protocol version = 02, Token = 8873, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 210734923, 'time': '2023-11-27T08:47:12.623935Z', 'tmms': 1385110051624, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3285, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA5wECkcl85JU1RvXWj8Q='}]}
0:03:14.422730	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01e7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f5d68fc4)
0:03:14.423729	LOG	Server <---------- DUT
0:03:14.425730	LOG	Count = 30
0:03:16.610896	LOG	First uplink received. Open reception window.
0:03:16.714582	LOG	PUSH_ACK: 02 2031 01
0:03:16.716584	LOG	GPS Time from gateway: 1385110053912
0:03:16.717588	LOG	PUSH_DATA: Protocol version = 02, Token = 2031, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 213023056, 'time': '2023-11-27T08:47:14.912069Z', 'tmms': 1385110053912, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3285, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA5wECkcl85JU1RvXWj8Q='}]}
0:03:16.719585	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01e7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f5d68fc4)
0:03:16.720562	LOG	Server <---------- DUT
0:03:16.722549	LOG	Repeated frame. It does not count
0:03:19.313614	LOG	First uplink received. Open reception window.
0:03:19.419223	LOG	PUSH_ACK: 02 0261 01
0:03:19.421225	LOG	GPS Time from gateway: 1385110056624
0:03:19.423229	LOG	PUSH_DATA: Protocol version = 02, Token = 0261, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 215734678, 'time': '2023-11-27T08:47:17.623689Z', 'tmms': 1385110056624, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3285, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA6AECRd9T/ILT/dg0/tk='}]}

0:03:19.424258	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01e8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d834fed9)
0:03:19.425258	LOG	Server <---------- DUT
0:03:19.427266	LOG	Count = 31
0:03:21.610418	LOG	First uplink received. Open reception window.
0:03:21.713067	LOG	PUSH_ACK: 02 111f 01
0:03:21.715081	LOG	GPS Time from gateway: 1385110058912
0:03:21.716037	LOG	PUSH_DATA: Protocol version = 02, Token = 111f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 218022752, 'time': '2023-11-27T08:47:19.911764Z', 'tmms': 1385110058912, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3292, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA6AECRd9T/ILT/dg0/tk='}]}
0:03:21.718035	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01e8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d834fed9)
0:03:21.720036	LOG	Server <---------- DUT
0:03:21.721073	LOG	Repeated frame. It does not count
0:03:21.808763	LOG	GPS Time updated: 1385110059110
0:03:21.809919	LOG	PULL_DATA: 02 bbd2 02 0016c001ff1025bf
0:03:21.811592	LOG	PULL_ACK: 02 bbd2 04
0:03:24.323587	LOG	First uplink received. Open reception window.
0:03:24.436812	LOG	PUSH_ACK: 02 5ef6 01
0:03:24.439017	LOG	GPS Time from gateway: 1385110061623
0:03:24.440650	LOG	PUSH_DATA: Protocol version = 02, Token = 5ef6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 220734419, 'time': '2023-11-27T08:47:22.623431Z', 'tmms': 1385110061623, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.0, 'foff': -3285, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA6QECwB2Hxj76MubPZEc='}]}
0:03:24.442857	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01e9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e6cf6447)
0:03:24.444490	LOG	Server <---------- DUT
0:03:24.446560	LOG	Count = 32
0:03:26.607583	LOG	First uplink received. Open reception window.
0:03:26.715226	LOG	PUSH_ACK: 02 2ea1 01
0:03:26.717195	LOG	GPS Time from gateway: 1385110063912
0:03:26.718194	LOG	PUSH_DATA: Protocol version = 02, Token = 2ea1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 223022805, 'time': '2023-11-27T08:47:24.911816Z', 'tmms': 1385110063912, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3292, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA6QECwB2Hxj76MubPZEc='}]}
0:03:26.720210	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01e9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e6cf6447)
0:03:26.721195	LOG	Server <---------- DUT
0:03:26.723199	LOG	Repeated frame. It does not count
0:03:29.322277	LOG	First uplink received. Open reception window.
0:03:29.433290	LOG	PUSH_ACK: 02 533b 01
0:03:29.435304	LOG	GPS Time from gateway: 1385110066623
0:03:29.436341	LOG	PUSH_DATA: Protocol version = 02, Token = 533b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 225734163, 'time': '2023-11-27T08:47:27.623174Z', 'tmms': 1385110066623, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA6gECBo/W+TW9Rkw4UXM='}]}
0:03:29.438308	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01ea, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4c385173)
0:03:29.439308	LOG	Server <---------- DUT
0:03:29.441342	LOG	Count = 33
0:03:31.607684	LOG	First uplink received. Open reception window.

0:03:31.713332	LOG	PUSH_ACK: 02 5262 01
0:03:31.715299	LOG	GPS Time from gateway: 1385110068912
0:03:31.716298	LOG	PUSH_DATA: Protocol version = 02, Token = 5262, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 228022795, 'time': '2023-11-27T08:47:29.911805Z', 'tmms': 1385110068912, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3292, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA6gECBo/W+TW9Rkw4UXM='}]}
0:03:31.718299	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01ea, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4c385173)
0:03:31.719298	LOG	Server <---------- DUT
0:03:31.721299	LOG	Repeated frame. It does not count
0:03:31.898541	LOG	GPS Time updated: 1385110069204
0:03:31.900123	LOG	PULL_DATA: 02 2185 02 0016c001ff1025bf
0:03:31.901696	LOG	PULL_ACK: 02 2185 04
0:03:34.321000	LOG	First uplink received. Open reception window.
0:03:34.421714	LOG	PUSH_ACK: 02 03ed 01
0:03:34.424242	LOG	GPS Time from gateway: 1385110071623
0:03:34.426110	LOG	PUSH_DATA: Protocol version = 02, Token = 03ed, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 230733895, 'time': '2023-11-27T08:47:32.622905Z', 'tmms': 1385110071623, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.0, 'foff': -3292, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA6wEC7UKlzUfAGug6srg='}]}
0:03:34.428131	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01eb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e83ab2b8)
0:03:34.429413	LOG	Server <---------- DUT
0:03:34.431623	LOG	Count = 34
0:03:36.604514	LOG	First uplink received. Open reception window.
0:03:36.716160	LOG	PUSH_ACK: 02 6982 01
0:03:36.718162	LOG	GPS Time from gateway: 1385110073911
0:03:36.719164	LOG	PUSH_DATA: Protocol version = 02, Token = 6982, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 233021786, 'time': '2023-11-27T08:47:34.910794Z', 'tmms': 1385110073911, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 12.8, 'foff': -3292, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA6wEC7UKlzUfAGug6srg='}]}
0:03:36.721137	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01eb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e83ab2b8)
0:03:36.722161	LOG	Server <---------- DUT
0:03:36.724166	LOG	Repeated frame. It does not count
0:03:39.315057	LOG	First uplink received. Open reception window.
0:03:39.418971	LOG	PUSH_ACK: 02 3ec0 01
0:03:39.420938	LOG	GPS Time from gateway: 1385110076622
0:03:39.422952	LOG	PUSH_DATA: Protocol version = 02, Token = 3ec0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 235733637, 'time': '2023-11-27T08:47:37.622646Z', 'tmms': 1385110076622, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3292, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA7AECX8QGGdSjN+Q96g4='}]}
0:03:39.423939	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01ec, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e43dea0e)
0:03:39.425955	LOG	Server <---------- DUT
0:03:39.427941	LOG	Count = 35
0:03:41.602017	LOG	First uplink received. Open reception window.
0:03:41.711841	LOG	PUSH_ACK: 02 5e0c 01
0:03:41.713810	LOG	GPS Time from gateway: 1385110078911
0:03:41.714809	LOG	PUSH_DATA: Protocol version = 02, Token = 5e0c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 238022292, 'time': '2023-11-27T08:47:39.911299Z', 'tmms': 1385110078911, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3308, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA7AECX8QGGdSjN+Q96g4='}]}
0:03:41.716810	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01ec, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e43dea0e)
0:03:41.717809	LOG	Server <---------- DUT
0:03:41.719810	LOG	Repeated frame. It does not count
0:03:41.978958	LOG	GPS Time updated: 1385110079287
0:03:41.980946	LOG	PULL_DATA: 02 03e6 02 0016c001ff1025bf
0:03:41.981958	LOG	PULL_ACK: 02 03e6 04
0:03:44.323057	LOG	First uplink received. Open reception window.
0:03:44.435441	LOG	PUSH_ACK: 02 7f23 01
0:03:44.437441	LOG	GPS Time from gateway: 1385110081622
0:03:44.438446	LOG	PUSH_DATA: Protocol version = 02, Token = 7f23, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 240733384, 'time': '2023-11-27T08:47:42.622392Z', 'tmms': 1385110081622, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3292, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA7QECIQRB4adEELKNgis='}]}
0:03:44.440450	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01ed, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b28d822b)
0:03:44.441442	LOG	Server <---------- DUT
0:03:44.443410	LOG	Count = 36
0:03:46.606030	LOG	First uplink received. Open reception window.
0:03:46.716609	LOG	PUSH_ACK: 02 1882 01
0:03:46.718612	LOG	GPS Time from gateway: 1385110083911
0:03:46.719644	LOG	PUSH_DATA: Protocol version = 02, Token = 1882, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 243021859, 'time': '2023-11-27T08:47:44.910865Z', 'tmms': 1385110083911, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3308, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA7QECIQRB4adEELKNgis='}]}
0:03:46.720644	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01ed, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b28d822b)
0:03:46.722611	LOG	Server <---------- DUT
0:03:46.724643	LOG	Repeated frame. It does not count
0:03:49.316911	LOG	First uplink received. Open reception window.
0:03:49.418447	LOG	PUSH_ACK: 02 8529 01
0:03:49.420449	LOG	GPS Time from gateway: 1385110086622
0:03:49.422415	LOG	PUSH_DATA: Protocol version = 02, Token = 8529, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 245733121, 'time': '2023-11-27T08:47:47.622128Z', 'tmms': 1385110086622, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 12.8, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA7gEC6Uqraw2QNe+F2J8='}]}
0:03:49.423415	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01ee, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ef85d89f)
0:03:49.424415	LOG	Server <---------- DUT
0:03:49.426450	LOG	Count = 37
0:03:51.601197	LOG	First uplink received. Open reception window.
0:03:51.715147	LOG	PUSH_ACK: 02 a140 01
0:03:51.717114	LOG	GPS Time from gateway: 1385110088910
0:03:51.718114	LOG	PUSH_DATA: Protocol version = 02, Token = a140, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 248021092, 'time': '2023-11-27T08:47:49.910099Z', 'tmms': 1385110088910, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.0, 'foff': -3308, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA7gEC6Uqraw2QNe+F2J8='}]}
0:03:51.720115	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01ee, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ef85d89f)
0:03:51.721115	LOG	Server <---------- DUT

0:03:51.723115	LOG	Repeated frame. It does not count
0:03:52.059304	LOG	GPS Time updated: 1385110089369
0:03:52.061306	LOG	PULL_DATA: 02 fcff 02 0016c001ff1025bf
0:03:52.062306	LOG	PULL_ACK: 02 fcff 04
0:03:54.319928	LOG	First uplink received. Open reception window.
0:03:54.435446	LOG	PUSH_ACK: 02 372a 01
0:03:54.437413	LOG	GPS Time from gateway: 1385110091622
0:03:54.438447	LOG	PUSH_DATA: Protocol version = 02, Token = 372a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 250732871, 'time': '2023-11-27T08:47:52.621877Z', 'tmms': 1385110091622, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA7wEC25e7GbYj4XxTy0o='}]}
0:03:54.440411	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01ef, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7c53cb4a)
0:03:54.441445	LOG	Server <---------- DUT
0:03:54.443445	LOG	Count = 38
0:03:56.609465	LOG	First uplink received. Open reception window.
0:03:56.715982	LOG	PUSH_ACK: 02 a08a 01
0:03:56.717983	LOG	GPS Time from gateway: 1385110093909
0:03:56.718982	LOG	PUSH_DATA: Protocol version = 02, Token = a08a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 253020682, 'time': '2023-11-27T08:47:54.909688Z', 'tmms': 1385110093909, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3308, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA7wEC25e7GbYj4XxTy0o='}]}
0:03:56.720982	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01ef, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7c53cb4a)
0:03:56.721983	LOG	Server <---------- DUT
0:03:56.723983	LOG	Repeated frame. It does not count
0:03:59.314099	LOG	First uplink received. Open reception window.
0:03:59.418442	LOG	PUSH_ACK: 02 65f3 01
0:03:59.420457	LOG	GPS Time from gateway: 1385110096621
0:03:59.421410	LOG	PUSH_DATA: Protocol version = 02, Token = 65f3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 255732603, 'time': '2023-11-27T08:47:57.621608Z', 'tmms': 1385110096621, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA8AEChWgV7yUgPeuFTdE='}]}
0:03:59.423409	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01f0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: eb854dd1)
0:03:59.424411	LOG	Server <---------- DUT
0:03:59.426410	LOG	Count = 39
0:04:01.603579	LOG	First uplink received. Open reception window.
0:04:01.713208	LOG	PUSH_ACK: 02 ed86 01
0:04:01.715173	LOG	GPS Time from gateway: 1385110098910
0:04:01.716209	LOG	PUSH_DATA: Protocol version = 02, Token = ed86, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 258021194, 'time': '2023-11-27T08:47:59.910199Z', 'tmms': 1385110098910, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3308, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA8AEChWgV7yUgPeuFTdE='}]}
0:04:01.718215	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01f0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: eb854dd1)
0:04:01.719173	LOG	Server <---------- DUT
0:04:01.721175	LOG	Repeated frame. It does not count
0:04:02.158869	LOG	GPS Time updated: 1385110099465
0:04:02.160842	LOG	PULL_DATA: 02 78f0 02 0016c001ff1025bf
0:04:02.161832	LOG	PULL_ACK: 02 78f0 04
0:04:04.321400	LOG	First uplink received. Open reception window.

0:04:04.423028	LOG	PUSH_ACK: 02 74e1 01
0:04:04.424571	LOG	GPS Time from gateway: 1385110101621
0:04:04.426576	LOG	PUSH_DATA: Protocol version = 02, Token = 74e1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 260732349, 'time': '2023-11-27T08:48:02.621353Z', 'tmms': 1385110101621, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3308, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA8QECA3uDKDilYYJbACM='}]}
0:04:04.427569	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01f1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 825b0023)
0:04:04.428579	LOG	Server <---------- DUT
0:04:04.430536	LOG	Count = 40
0:04:06.600732	LOG	First uplink received. Open reception window.
0:04:06.702342	LOG	PUSH_ACK: 02 72b2 01
0:04:06.704346	LOG	GPS Time from gateway: 1385110103909
0:04:06.705342	LOG	PUSH_DATA: Protocol version = 02, Token = 72b2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 263020204, 'time': '2023-11-27T08:48:04.909208Z', 'tmms': 1385110103909, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3308, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA8QECA3uDKDilYYJbACM='}]}
0:04:06.707322	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01f1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 825b0023)
0:04:06.708342	LOG	Server <---------- DUT
0:04:06.710311	LOG	Repeated frame. It does not count
0:04:09.317741	LOG	First uplink received. Open reception window.
0:04:09.421257	LOG	PUSH_ACK: 02 a10e 01
0:04:09.423258	LOG	GPS Time from gateway: 1385110106621
0:04:09.425258	LOG	PUSH_DATA: Protocol version = 02, Token = a10e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 265732086, 'time': '2023-11-27T08:48:07.621089Z', 'tmms': 1385110106621, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.0, 'foff': -3308, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA8gECwZfifrBXihf2aww='}]}
0:04:09.426257	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01f2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 17f66b0c)
0:04:09.427259	LOG	Server <---------- DUT
0:04:09.429258	LOG	Count = 41
0:04:11.609056	LOG	First uplink received. Open reception window.
0:04:11.716468	LOG	PUSH_ACK: 02 1a66 01
0:04:11.718433	LOG	GPS Time from gateway: 1385110108909
0:04:11.719433	LOG	PUSH_DATA: Protocol version = 02, Token = 1a66, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 268020213, 'time': '2023-11-27T08:48:09.909216Z', 'tmms': 1385110108909, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3308, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA8gECwZfifrBXihf2aww='}]}
0:04:11.721436	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01f2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 17f66b0c)
0:04:11.722433	LOG	Server <---------- DUT
0:04:11.724434	LOG	Repeated frame. It does not count
0:04:12.239512	LOG	GPS Time updated: 1385110109540
0:04:12.240542	LOG	PULL_DATA: 02 e69a 02 0016c001ff1025bf
0:04:12.242540	LOG	PULL_ACK: 02 e69a 04
0:04:14.319629	LOG	First uplink received. Open reception window.
0:04:14.426262	LOG	PUSH_ACK: 02 8afe 01
0:04:14.428226	LOG	GPS Time from gateway: 1385110111621
0:04:14.429225	LOG	PUSH_DATA: Protocol version = 02, Token = 8afe, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 270731824, 'time': '2023-11-27T08:48:12.620826Z', 'tmms': 1385110111621, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3308, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA8wECKq/4VJsMwb61jfY='}]}
0:04:14.431226	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01f3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: beb58df6)
0:04:14.432226	LOG	Server <---------- DUT
0:04:14.434226	LOG	Count = 42
0:04:16.604787	LOG	First uplink received. Open reception window.
0:04:16.708154	LOG	PUSH_ACK: 02 1c0f 01
0:04:16.710130	LOG	GPS Time from gateway: 1385110113909
0:04:16.711132	LOG	PUSH_DATA: Protocol version = 02, Token = 1c0f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 273020370, 'time': '2023-11-27T08:48:14.909372Z', 'tmms': 1385110113909, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3308, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA8wECKq/4VJsMwb61jfY='}]}
0:04:16.713165	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01f3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: beb58df6)
0:04:16.714164	LOG	Server <---------- DUT
0:04:16.716131	LOG	Repeated frame. It does not count
0:04:20.722122	LOG	First uplink received. Open reception window.
0:04:20.830863	LOG	PUSH_ACK: 02 28bd 01
0:04:20.832826	LOG	GPS Time from gateway: 1385110118020
0:04:20.833826	LOG	PUSH_DATA: Protocol version = 02, Token = 28bd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 277131628, 'time': '2023-11-27T08:48:19.020629Z', 'tmms': 1385110118020, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3292, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA9AECsqygRmzp7ioOTBY='}]}
0:04:20.835827	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01f4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2a0e4c16)
0:04:20.836826	LOG	Server <---------- DUT
0:04:20.838826	LOG	Count = 43
0:04:22.320225	LOG	GPS Time updated: 1385110119618
0:04:22.321228	LOG	PULL_DATA: 02 4f24 02 0016c001ff1025bf
0:04:22.323236	LOG	PULL_ACK: 02 4f24 04
0:04:23.001973	LOG	First uplink received. Open reception window.
0:04:23.115203	LOG	PUSH_ACK: 02 bc86 01
0:04:23.117172	LOG	GPS Time from gateway: 1385110120310
0:04:23.118170	LOG	PUSH_DATA: Protocol version = 02, Token = bc86, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 279421688, 'time': '2023-11-27T08:48:21.310689Z', 'tmms': 1385110120310, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3308, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA9AECsqygRmzp7ioOTBY='}]}
0:04:23.120171	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01f4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2a0e4c16)
0:04:23.121172	LOG	Server <---------- DUT
0:04:23.123172	LOG	Repeated frame. It does not count
0:04:25.490156	LOG	First uplink received. Open reception window.
0:04:25.595462	LOG	PUSH_ACK: 02 4e5c 01
0:04:25.597467	LOG	GPS Time from gateway: 1385110122797
0:04:25.598466	LOG	PUSH_DATA: Protocol version = 02, Token = 4e5c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 281908016, 'time': '2023-11-27T08:48:23.797016Z', 'tmms': 1385110122797, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3292, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA9QEC2Yud0vf6xQ5lcms='}]}
0:04:25.600466	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01f5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0e65726b)
0:04:25.601467	LOG	Server <---------- DUT

0:04:25.603466	LOG	Count = 44
0:04:27.784859	LOG	First uplink received. Open reception window.
0:04:27.892142	LOG	PUSH_ACK: 02 11b3 01
0:04:27.894107	LOG	GPS Time from gateway: 1385110125085
0:04:27.895105	LOG	PUSH_DATA: Protocol version = 02, Token = 11b3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 284196488, 'time': '2023-11-27T08:48:26.085488Z', 'tmms': 1385110125085, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3292, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA9QEC2Yud0vf6xQ5lcms='}]}
0:04:27.897108	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01f5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0e65726b)
0:04:27.898112	LOG	Server <---------- DUT
0:04:27.900113	LOG	Repeated frame. It does not count
0:04:30.497182	LOG	First uplink received. Open reception window.
0:04:30.609695	LOG	PUSH_ACK: 02 4ffe 01
0:04:30.611697	LOG	GPS Time from gateway: 1385110127797
0:04:30.612698	LOG	PUSH_DATA: Protocol version = 02, Token = 4ffe, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 286907749, 'time': '2023-11-27T08:48:28.796747Z', 'tmms': 1385110127797, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3292, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA9gECzIgqTn5DBqPvN8I='}]}
0:04:30.614699	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01f6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a3ef37c2)
0:04:30.615744	LOG	Server <---------- DUT
0:04:30.617743	LOG	Count = 45
0:04:32.409108	LOG	GPS Time updated: 1385110129709
0:04:32.411076	LOG	PULL_DATA: 02 3ac8 02 0016c001ff1025bf
0:04:32.413076	LOG	PULL_ACK: 02 3ac8 04
0:04:32.781482	LOG	First uplink received. Open reception window.
0:04:32.893135	LOG	PUSH_ACK: 02 eeae 01
0:04:32.895099	LOG	GPS Time from gateway: 1385110130085
0:04:32.896135	LOG	PUSH_DATA: Protocol version = 02, Token = eeae, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 289196436, 'time': '2023-11-27T08:48:31.085434Z', 'tmms': 1385110130085, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3308, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA9gECzIgqTn5DBqPvN8I='}]}
0:04:32.898134	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01f6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a3ef37c2)
0:04:32.899100	LOG	Server <---------- DUT
0:04:32.901107	LOG	Repeated frame. It does not count
0:04:35.491357	LOG	First uplink received. Open reception window.
0:04:35.598934	LOG	PUSH_ACK: 02 a960 01
0:04:35.600901	LOG	GPS Time from gateway: 1385110132796
0:04:35.601903	LOG	PUSH_DATA: Protocol version = 02, Token = a960, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 291907497, 'time': '2023-11-27T08:48:33.796494Z', 'tmms': 1385110132796, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3292, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA9wEChdMth/l6G3lazj0='}]}
0:04:35.603938	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01f7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 795ace3d)
0:04:35.604943	LOG	Server <---------- DUT
0:04:35.606943	LOG	Count = 46
0:04:37.784534	LOG	First uplink received. Open reception window.
0:04:37.894730	LOG	PUSH_ACK: 02 604b 01
0:04:37.896699	LOG	GPS Time from gateway: 1385110135084

0:04:37.897698	LOG	PUSH_DATA: Protocol version = 02, Token = 604b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 294195534, 'time': '2023-11-27T08:48:36.084532Z', 'tmms': 1385110135084, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA9wEChdMth/l6G3lazj0='}]}
0:04:37.899699	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01f7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 795ace3d)
0:04:37.900699	LOG	Server <---------- DUT
0:04:37.902700	LOG	Repeated frame. It does not count
0:04:40.489508	LOG	First uplink received. Open reception window.
0:04:40.597124	LOG	PUSH_ACK: 02 4b88 01
0:04:40.599124	LOG	GPS Time from gateway: 1385110137796
0:04:40.600125	LOG	PUSH_DATA: Protocol version = 02, Token = 4b88, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 296907231, 'time': '2023-11-27T08:48:38.796227Z', 'tmms': 1385110137796, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA+AECsdGbL3NYe7MvZGM='}]}
0:04:40.601126	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01f8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b32f6463)
0:04:40.603126	LOG	Server <---------- DUT
0:04:40.605127	LOG	Count = 47
0:04:42.489723	LOG	GPS Time updated: 1385110139796
0:04:42.491706	LOG	PULL_DATA: 02 2931 02 0016c001ff1025bf
0:04:42.492723	LOG	PULL_ACK: 02 2931 04
0:04:42.784990	LOG	First uplink received. Open reception window.
0:04:42.897414	LOG	PUSH_ACK: 02 22b3 01
0:04:42.899382	LOG	GPS Time from gateway: 1385110140084
0:04:42.900381	LOG	PUSH_DATA: Protocol version = 02, Token = 22b3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 299195716, 'time': '2023-11-27T08:48:41.084713Z', 'tmms': 1385110140084, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3308, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA+AECsdGbL3NYe7MvZGM='}]}
0:04:42.902382	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01f8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b32f6463)
0:04:42.903382	LOG	Server <---------- DUT
0:04:42.905382	LOG	Repeated frame. It does not count
0:04:45.495208	LOG	First uplink received. Open reception window.
0:04:45.607265	LOG	PUSH_ACK: 02 303e 01
0:04:45.609234	LOG	GPS Time from gateway: 1385110142796
0:04:45.610266	LOG	PUSH_DATA: Protocol version = 02, Token = 303e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 301906979, 'time': '2023-11-27T08:48:43.795976Z', 'tmms': 1385110142796, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3292, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA+QEC+hy7KTIlMlYcnTk='}]}
0:04:45.612265	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01f9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 561c9d39)
0:04:45.613265	LOG	Server <---------- DUT
0:04:45.615248	LOG	Count = 48
0:04:47.784150	LOG	First uplink received. Open reception window.
0:04:47.886735	LOG	PUSH_ACK: 02 c258 01
0:04:47.888699	LOG	GPS Time from gateway: 1385110145084
0:04:47.889699	LOG	PUSH_DATA: Protocol version = 02, Token = c258, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 304195162, 'time': '2023-11-27T08:48:46.084157Z', 'tmms': 1385110145084, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3292, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA+QEC+hy7KTIlMlYcnTk='}]}

0:04:47.891700	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01f9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 561c9d39)
0:04:47.892699	LOG	Server <---------- DUT
0:04:47.894700	LOG	Repeated frame. It does not count
0:04:50.497897	LOG	First uplink received. Open reception window.
0:04:50.604432	LOG	PUSH_ACK: 02 fb12 01
0:04:50.606401	LOG	GPS Time from gateway: 1385110147795
0:04:50.608401	LOG	PUSH_DATA: Protocol version = 02, Token = fb12, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 306906720, 'time': '2023-11-27T08:48:48.795716Z', 'tmms': 1385110147795, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.0, 'foff': -3292, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA+gECk85pi5B/K5ayQbg='}]}
0:04:50.610402	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01fa, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 96b241b8)
0:04:50.611433	LOG	Server <---------- DUT
0:04:50.613445	LOG	Count = 49
0:04:52.580116	LOG	GPS Time updated: 1385110149879
0:04:52.582083	LOG	PULL_DATA: 02 7cb7 02 0016c001ff1025bf
0:04:52.583083	LOG	PULL_ACK: 02 7cb7 04
0:04:52.776900	LOG	First uplink received. Open reception window.
0:04:52.884546	LOG	PUSH_ACK: 02 98ca 01
0:04:52.886514	LOG	GPS Time from gateway: 1385110150084
0:04:52.888515	LOG	PUSH_DATA: Protocol version = 02, Token = 98ca, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 309194956, 'time': '2023-11-27T08:48:51.083951Z', 'tmms': 1385110150084, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA+gECk85pi5B/K5ayQbg='}]}
0:04:52.889514	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01fa, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 96b241b8)
0:04:52.891514	LOG	Server <---------- DUT
0:04:52.892514	LOG	Repeated frame. It does not count
0:04:55.488094	LOG	First uplink received. Open reception window.
0:04:55.592635	LOG	PUSH_ACK: 02 14a9 01
0:04:55.594603	LOG	GPS Time from gateway: 1385110152795
0:04:55.595602	LOG	PUSH_DATA: Protocol version = 02, Token = 14a9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 311906461, 'time': '2023-11-27T08:48:53.795456Z', 'tmms': 1385110152795, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA+wECWmQRd+GrqQ1OSYs='}]}
0:04:55.597602	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01fb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0d4e498b)
0:04:55.598603	LOG	Server <---------- DUT
0:04:55.600603	LOG	Count = 50
0:04:57.776682	LOG	First uplink received. Open reception window.
0:04:57.890334	LOG	PUSH_ACK: 02 7d63 01
0:04:57.892301	LOG	GPS Time from gateway: 1385110155083
0:04:57.894302	LOG	PUSH_DATA: Protocol version = 02, Token = 7d63, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 314194624, 'time': '2023-11-27T08:48:56.083616Z', 'tmms': 1385110155083, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA+wECWmQRd+GrqQ1OSYs='}]}
0:04:57.895300	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01fb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0d4e498b)
0:04:57.897302	LOG	Server <---------- DUT
0:04:57.899302	LOG	Repeated frame. It does not count
0:05:00.498212	LOG	First uplink received. Open reception window.

0:05:00.606796	LOG	PUSH_ACK: 02 a7b7 01
0:05:00.608783	LOG	GPS Time from gateway: 1385110157795
0:05:00.609760	LOG	PUSH_DATA: Protocol version = 02, Token = a7b7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 316906194, 'time': '2023-11-27T08:48:58.795188Z', 'tmms': 1385110157795, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.0, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA/AEC8S6ulkjMRUfgr4Q='}]}
0:05:00.611760	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01fc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 47e0af84)
0:05:00.612794	LOG	Server <---------- DUT
0:05:00.614760	LOG	Count = 51
0:05:02.660344	LOG	GPS Time updated: 1385110159957
0:05:02.661900	LOG	PULL_DATA: 02 2b95 02 0016c001ff1025bf
0:05:02.662900	LOG	PULL_ACK: 02 2b95 04
0:05:02.779053	LOG	First uplink received. Open reception window.
0:05:02.889697	LOG	PUSH_ACK: 02 65d5 01
0:05:02.891699	LOG	GPS Time from gateway: 1385110160083
0:05:02.893667	LOG	PUSH_DATA: Protocol version = 02, Token = 65d5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 319194196, 'time': '2023-11-27T08:49:01.083187Z', 'tmms': 1385110160083, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA/AEC8S6ulkjMRUfgr4Q='}]}
0:05:02.894702	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01fc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 47e0af84)
0:05:02.895698	LOG	Server <---------- DUT
0:05:02.897699	LOG	Repeated frame. It does not count
0:05:05.486384	LOG	First uplink received. Open reception window.
0:05:05.600033	LOG	PUSH_ACK: 02 f5c5 01
0:05:05.602043	LOG	GPS Time from gateway: 1385110162795
0:05:05.603000	LOG	PUSH_DATA: Protocol version = 02, Token = f5c5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 321905951, 'time': '2023-11-27T08:49:03.794944Z', 'tmms': 1385110162795, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3285, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA/QECR3uo5lZGblP8+6k='}]}
0:05:05.605035	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01fd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 53fcfba9)
0:05:05.606000	LOG	Server <---------- DUT
0:05:05.608000	LOG	Count = 52
0:05:07.783537	LOG	First uplink received. Open reception window.
0:05:07.895667	LOG	PUSH_ACK: 02 2063 01
0:05:07.897667	LOG	GPS Time from gateway: 1385110165083
0:05:07.898669	LOG	PUSH_DATA: Protocol version = 02, Token = 2063, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 324193936, 'time': '2023-11-27T08:49:06.082926Z', 'tmms': 1385110165083, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA/QECR3uo5lZGblP8+6k='}]}
0:05:07.900668	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01fd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 53fcfba9)
0:05:07.901668	LOG	Server <---------- DUT
0:05:07.903670	LOG	Repeated frame. It does not count
0:05:10.494752	LOG	First uplink received. Open reception window.
0:05:10.596401	LOG	PUSH_ACK: 02 ecb2 01
0:05:10.598370	LOG	GPS Time from gateway: 1385110167794
0:05:10.599370	LOG	PUSH_DATA: Protocol version = 02, Token = ecb2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 326905684, 'time': '2023-11-27T08:49:08.794676Z', 'tmms': 1385110167794, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3285, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA/gECXgviKUWJVGARJ0s='}]}
0:05:10.601368	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01fe, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6011274b)
0:05:10.602368	LOG	Server <---------- DUT
0:05:10.604370	LOG	Count = 53
0:05:12.740527	LOG	GPS Time updated: 1385110170040
0:05:12.742493	LOG	PULL_DATA: 02 9c0e 02 0016c001ff1025bf
0:05:12.743532	LOG	PULL_ACK: 02 9c0e 04
0:05:12.776630	LOG	First uplink received. Open reception window.
0:05:12.879209	LOG	PUSH_ACK: 02 65cc 01
0:05:12.881177	LOG	GPS Time from gateway: 1385110170082
0:05:12.882176	LOG	PUSH_DATA: Protocol version = 02, Token = 65cc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 329193523, 'time': '2023-11-27T08:49:11.082514Z', 'tmms': 1385110170082, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA/gECXgviKUWJVGARJ0s='}]}
0:05:12.884175	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01fe, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6011274b)
0:05:12.885176	LOG	Server <---------- DUT
0:05:12.887177	LOG	Repeated frame. It does not count
0:05:15.492043	LOG	First uplink received. Open reception window.
0:05:15.598689	LOG	PUSH_ACK: 02 4d28 01
0:05:15.600658	LOG	GPS Time from gateway: 1385110172794
0:05:15.601657	LOG	PUSH_DATA: Protocol version = 02, Token = 4d28, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 331905435, 'time': '2023-11-27T08:49:13.794426Z', 'tmms': 1385110172794, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3285, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA/wECq9sc+lD632z7pxc='}]}
0:05:15.603661	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01ff, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6cfba717)
0:05:15.604657	LOG	Server <---------- DUT
0:05:15.606658	LOG	Count = 54
0:05:17.776948	LOG	First uplink received. Open reception window.
0:05:17.878866	LOG	PUSH_ACK: 02 2448 01
0:05:17.880866	LOG	GPS Time from gateway: 1385110175083
0:05:17.881878	LOG	PUSH_DATA: Protocol version = 02, Token = 2448, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 334194224, 'time': '2023-11-27T08:49:16.083215Z', 'tmms': 1385110175083, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3285, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA/wECq9sc+lD632z7pxc='}]}
0:05:17.883835	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 01ff, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6cfba717)
0:05:17.884865	LOG	Server <---------- DUT
0:05:17.886833	LOG	Repeated frame. It does not count
0:05:20.488029	LOG	First uplink received. Open reception window.
0:05:20.595520	LOG	PUSH_ACK: 02 3aa0 01
0:05:20.597522	LOG	GPS Time from gateway: 1385110177794
0:05:20.598521	LOG	PUSH_DATA: Protocol version = 02, Token = 3aa0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 336905170, 'time': '2023-11-27T08:49:18.794160Z', 'tmms': 1385110177794, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3285, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAAAICKnG11PS/QuNRj9M='}]}
0:05:20.600522	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0200, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e3518fd3)
0:05:20.601522	LOG	Server <---------- DUT

0:05:20.603523	LOG	Count = 55
0:05:22.783760	LOG	First uplink received. Open reception window.
0:05:22.820793	LOG	PULL_DATA: 02 6a14 02 0016c001ff1025bf
0:05:22.822760	LOG	PULL_ACK: 02 6a14 04
0:05:22.895590	LOG	PUSH_ACK: 02 00d2 01
0:05:22.897590	LOG	GPS Time from gateway: 1385110180083
0:05:22.898559	LOG	PUSH_DATA: Protocol version = 02, Token = 00d2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 339193791, 'time': '2023-11-27T08:49:21.082781Z', 'tmms': 1385110180083, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3285, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAAAICKnG11PS/QuNRj9M='}]}
0:05:22.900560	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0200, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e3518fd3)
0:05:22.901594	LOG	Server <---------- DUT
0:05:22.902592	LOG	Repeated frame. It does not count
0:05:25.493997	LOG	First uplink received. Open reception window.
0:05:25.601692	LOG	PUSH_ACK: 02 7ce8 01
0:05:25.603693	LOG	GPS Time from gateway: 1385110182794
0:05:25.604662	LOG	PUSH_DATA: Protocol version = 02, Token = 7ce8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 341904913, 'time': '2023-11-27T08:49:23.793902Z', 'tmms': 1385110182794, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3285, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAAQICcsBtk/NFrVJL8FE='}]}
0:05:25.606661	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0201, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 524bf051)
0:05:25.607693	LOG	Server <---------- DUT
0:05:25.609662	LOG	Count = 56
0:05:27.777699	LOG	First uplink received. Open reception window.
0:05:27.883968	LOG	PUSH_ACK: 02 7723 01
0:05:27.885936	LOG	GPS Time from gateway: 1385110185082
0:05:27.886936	LOG	PUSH_DATA: Protocol version = 02, Token = 7723, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 344193546, 'time': '2023-11-27T08:49:26.082535Z', 'tmms': 1385110185082, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3292, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAAQICcsBtk/NFrVJL8FE='}]}
0:05:27.888937	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0201, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 524bf051)
0:05:27.889936	LOG	Server <---------- DUT
0:05:27.891936	LOG	Repeated frame. It does not count
0:05:30.491941	LOG	First uplink received. Open reception window.
0:05:30.603490	LOG	PUSH_ACK: 02 9fa3 01
0:05:30.605487	LOG	GPS Time from gateway: 1385110187793
0:05:30.606460	LOG	PUSH_DATA: Protocol version = 02, Token = 9fa3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 346904647, 'time': '2023-11-27T08:49:28.793635Z', 'tmms': 1385110187793, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3285, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAAgICKU8GGt1g8syG0Go='}]}
0:05:30.608459	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0202, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: cc86d06a)
0:05:30.609459	LOG	Server <---------- DUT
0:05:30.611486	LOG	Count = 57
0:05:32.782508	LOG	First uplink received. Open reception window.
0:05:32.889396	LOG	PUSH_ACK: 02 b905 01
0:05:32.891364	LOG	GPS Time from gateway: 1385110190082
0:05:32.892363	LOG	PUSH_DATA: Protocol version = 02, Token = b905, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 349193161, 'time': '2023-11-27T08:49:31.082149Z',

		'tmms': 1385110190082, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAAgICKU8GGt1g8syG0Go='}]}
0:05:32.894364	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0202, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: cc86d06a)
0:05:32.895364	LOG	Server <---------- DUT
0:05:32.897364	LOG	Repeated frame. It does not count
0:05:32.900397	LOG	GPS Time updated: 1385110190200
0:05:32.901364	LOG	PULL_DATA: 02 78ae 02 0016c001ff1025bf
0:05:32.903364	LOG	PULL_ACK: 02 78ae 04
0:05:35.492609	LOG	First uplink received. Open reception window.
0:05:35.593261	LOG	PUSH_ACK: 02 ca98 01
0:05:35.595229	LOG	GPS Time from gateway: 1385110192793
0:05:35.596229	LOG	PUSH_DATA: Protocol version = 02, Token = ca98, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 351904399, 'time': '2023-11-27T08:49:33.793386Z', 'tmms': 1385110192793, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3285, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAAwICuy9cvo3A+iIz5tI='}]}
0:05:35.598229	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0203, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2233e6d2)
0:05:35.599228	LOG	Server <---------- DUT
0:05:35.601230	LOG	Count = 58
0:05:37.775379	LOG	First uplink received. Open reception window.
0:05:37.889492	LOG	PUSH_ACK: 02 1253 01
0:05:37.891453	LOG	GPS Time from gateway: 1385110195082
0:05:37.893455	LOG	PUSH_DATA: Protocol version = 02, Token = 1253, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 354192910, 'time': '2023-11-27T08:49:36.081897Z', 'tmms': 1385110195082, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAAwICuy9cvo3A+iIz5tI='}]}
0:05:37.894455	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0203, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2233e6d2)
0:05:37.895454	LOG	Server <---------- DUT
0:05:37.897484	LOG	Repeated frame. It does not count
0:05:41.888845	LOG	First uplink received. Open reception window.
0:05:41.996686	LOG	PUSH_ACK: 02 059f 01
0:05:41.998837	LOG	GPS Time from gateway: 1385110199192
0:05:41.999940	LOG	PUSH_DATA: Protocol version = 02, Token = 059f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 358303300, 'time': '2023-11-27T08:49:40.192286Z', 'tmms': 1385110199192, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3285, 'rssi': -52, 'size': 20, 'data': 'QAAAAACABAICWGGvxOrnS1B9KiI='}]}
0:05:42.001494	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0204, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 507d2a22)
0:05:42.002493	LOG	Server <---------- DUT
0:05:42.004496	LOG	Count = 59
0:05:42.981074	LOG	GPS Time updated: 1385110200286
0:05:42.983035	LOG	PULL_DATA: 02 0c6a 02 0016c001ff1025bf
0:05:42.984036	LOG	PULL_ACK: 02 0c6a 04
0:05:44.173657	LOG	First uplink received. Open reception window.
0:05:44.279017	LOG	PUSH_ACK: 02 6c59 01
0:05:44.280982	LOG	GPS Time from gateway: 1385110201480
0:05:44.281981	LOG	PUSH_DATA: Protocol version = 02, Token = 6c59, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 360591359, 'time': '2023-11-27T08:49:42.480345Z', 'tmms': 1385110201480, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAACABAICWGGvxOrnS1B9KiI='}]}
0:05:44.283982	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0204, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 507d2a22)
0:05:44.284981	LOG	Server <---------- DUT
0:05:44.286983	LOG	Repeated frame. It does not count
0:05:46.662485	LOG	First uplink received. Open reception window.
0:05:46.771010	LOG	PUSH_ACK: 02 9290 01
0:05:46.773010	LOG	GPS Time from gateway: 1385110203968
0:05:46.774011	LOG	PUSH_DATA: Protocol version = 02, Token = 9290, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 363079603, 'time': '2023-11-27T08:49:44.968588Z', 'tmms': 1385110203968, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3285, 'rssi': -52, 'size': 20, 'data': 'QAAAAACABQICf6ocZ2+Vd45dZN8='}]}
0:05:46.775011	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0205, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8e5d64df)
0:05:46.777011	LOG	Server <---------- DUT
0:05:46.779064	LOG	Count = 60
0:05:48.952939	LOG	First uplink received. Open reception window.
0:05:49.066651	LOG	PUSH_ACK: 02 a2cc 01
0:05:49.068652	LOG	GPS Time from gateway: 1385110206257
0:05:49.069652	LOG	PUSH_DATA: Protocol version = 02, Token = a2cc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 365367841, 'time': '2023-11-27T08:49:47.256826Z', 'tmms': 1385110206257, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAACABQICf6ocZ2+Vd45dZN8='}]}
0:05:49.071655	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0205, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8e5d64df)
0:05:49.072652	LOG	Server <---------- DUT
0:05:49.074621	LOG	Repeated frame. It does not count
0:05:51.668378	LOG	First uplink received. Open reception window.
0:05:51.783068	LOG	PUSH_ACK: 02 31a2 01
0:05:51.785032	LOG	GPS Time from gateway: 1385110208968
0:05:51.786068	LOG	PUSH_DATA: Protocol version = 02, Token = 31a2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 368079351, 'time': '2023-11-27T08:49:49.968334Z', 'tmms': 1385110208968, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3285, 'rssi': -52, 'size': 20, 'data': 'QAAAAACABgICi0i8Uzx1av632rI='}]}
0:05:51.787064	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0206, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: feb7dab2)
0:05:51.789065	LOG	Server <---------- DUT
0:05:51.791078	LOG	Count = 61
0:05:53.071064	LOG	GPS Time updated: 1385110210371
0:05:53.073031	LOG	PULL_DATA: 02 9f9b 02 0016c001ff1025bf
0:05:53.074069	LOG	PULL_ACK: 02 9f9b 04
0:05:53.953057	LOG	First uplink received. Open reception window.
0:05:54.055672	LOG	PUSH_ACK: 02 b61b 01
0:05:54.057640	LOG	GPS Time from gateway: 1385110211257
0:05:54.058639	LOG	PUSH_DATA: Protocol version = 02, Token = b61b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 370367976, 'time': '2023-11-27T08:49:52.256960Z', 'tmms': 1385110211257, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3285, 'rssi': -52, 'size': 20, 'data': 'QAAAAACABgICi0i8Uzx1av632rI='}]}
0:05:54.060639	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0206, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: feb7dab2)
0:05:54.061640	LOG	Server <---------- DUT

0:05:54.063639	LOG	Repeated frame. It does not count
0:05:56.668341	LOG	First uplink received. Open reception window.
0:05:56.776924	LOG	PUSH_ACK: 02 832d 01
0:05:56.778890	LOG	GPS Time from gateway: 1385110213968
0:05:56.779889	LOG	PUSH_DATA: Protocol version = 02, Token = 832d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 373079090, 'time': '2023-11-27T08:49:54.968072Z', 'tmms': 1385110213968, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3285, 'rssi': -52, 'size': 20, 'data': 'QAAAAACABwICB4+Ap89jOIQ/Qik='}]}
0:05:56.781890	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0207, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 843f4229)
0:05:56.782890	LOG	Server <---------- DUT
0:05:56.784891	LOG	Count = 62
0:05:58.948917	LOG	First uplink received. Open reception window.
0:05:59.054525	LOG	PUSH_ACK: 02 3e23 01
0:05:59.056493	LOG	GPS Time from gateway: 1385110216256
0:05:59.057493	LOG	PUSH_DATA: Protocol version = 02, Token = 3e23, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 375367452, 'time': '2023-11-27T08:49:57.256435Z', 'tmms': 1385110216256, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAACABwICB4+Ap89jOIQ/Qik='}]}
0:05:59.059492	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0207, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 843f4229)
0:05:59.060493	LOG	Server <---------- DUT
0:05:59.062494	LOG	Repeated frame. It does not count
0:06:01.667263	LOG	First uplink received. Open reception window.
0:06:01.771842	LOG	PUSH_ACK: 02 d0f7 01
0:06:01.773877	LOG	GPS Time from gateway: 1385110218968
0:06:01.774880	LOG	PUSH_DATA: Protocol version = 02, Token = d0f7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 378078821, 'time': '2023-11-27T08:49:59.967802Z', 'tmms': 1385110218968, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3285, 'rssi': -52, 'size': 20, 'data': 'QAAAAACACAICdWqXD0xFIY95P3A='}]}
0:06:01.775881	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0208, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8f793f70)
0:06:01.777876	LOG	Server <---------- DUT
0:06:01.779846	LOG	Count = 63
0:06:03.171660	LOG	GPS Time updated: 1385110220473
0:06:03.172661	LOG	PULL_DATA: 02 2848 02 0016c001ff1025bf
0:06:03.174661	LOG	PULL_ACK: 02 2848 04
0:06:03.949394	LOG	First uplink received. Open reception window.
0:06:04.056602	LOG	PUSH_ACK: 02 a6f2 01
0:06:04.058603	LOG	GPS Time from gateway: 1385110221256
0:06:04.060571	LOG	PUSH_DATA: Protocol version = 02, Token = a6f2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 380366891, 'time': '2023-11-27T08:50:02.255873Z', 'tmms': 1385110221256, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAACACAICdWqXD0xFIY95P3A='}]}
0:06:04.061603	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0208, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8f793f70)
0:06:04.062602	LOG	Server <---------- DUT
0:06:04.064571	LOG	Repeated frame. It does not count
0:06:06.661085	LOG	First uplink received. Open reception window.
0:06:06.776660	LOG	PUSH_ACK: 02 e0b8 01
0:06:06.778660	LOG	GPS Time from gateway: 1385110223967

0:06:06.779660	LOG	PUSH_DATA: Protocol version = 02, Token = e0b8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 383078568, 'time': '2023-11-27T08:50:04.967550Z', 'tmms': 1385110223967, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3285, 'rssi': -52, 'size': 20, 'data': 'QAAAAACACQIC+lec+6DGn1VBBPM='}]}
0:06:06.781628	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0209, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 554104f3)
0:06:06.782661	LOG	Server <---------- DUT
0:06:06.784662	LOG	Count = 64
0:06:08.949736	LOG	First uplink received. Open reception window.
0:06:09.054384	LOG	PUSH_ACK: 02 45e3 01
0:06:09.056353	LOG	GPS Time from gateway: 1385110226256
0:06:09.057352	LOG	PUSH_DATA: Protocol version = 02, Token = 45e3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 385367036, 'time': '2023-11-27T08:50:07.256017Z', 'tmms': 1385110226256, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3292, 'rssi': -51, 'size': 20, 'data': 'QAAAAACACQIC+lec+6DGn1VBBPM='}]}
0:06:09.059352	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0209, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 554104f3)
0:06:09.060353	LOG	Server <---------- DUT
0:06:09.062354	LOG	Repeated frame. It does not count
0:06:11.669081	LOG	First uplink received. Open reception window.
0:06:11.774211	LOG	PUSH_ACK: 02 83c2 01
0:06:11.776179	LOG	GPS Time from gateway: 1385110228967
0:06:11.777211	LOG	PUSH_DATA: Protocol version = 02, Token = 83c2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 388078317, 'time': '2023-11-27T08:50:09.967298Z', 'tmms': 1385110228967, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADACgICO1/AImoImVM9zME='}]}
0:06:11.779211	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 020a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 533dccc1)
0:06:11.780211	LOG	Server <---------- DUT
0:06:11.782178	LOG	Count = 65
0:06:11.784180	LOG	Waiting for the retransmissions
0:06:13.251231	LOG	GPS Time updated: 1385110230549
0:06:13.253246	LOG	PULL_DATA: 02 b5ef 02 0016c001ff1025bf
0:06:13.254234	LOG	PULL_ACK: 02 b5ef 04
0:06:13.948747	LOG	First uplink received. Open reception window.
0:06:14.057777	LOG	PUSH_ACK: 02 1c47 01
0:06:14.059811	LOG	GPS Time from gateway: 1385110231256
0:06:14.060811	LOG	PUSH_DATA: Protocol version = 02, Token = 1c47, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 390366973, 'time': '2023-11-27T08:50:12.255953Z', 'tmms': 1385110231256, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.0, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADACgICO1/AImoImVM9zME='}]}
0:06:14.062807	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 020a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 533dccc1)
0:06:14.063814	LOG	Server <---------- DUT
0:06:14.092779	LOG	Expected number of uplink messages have been received
0:06:14.096657	LOG	Step 08
0:06:14.099698	LOG	Test adaptive data rate control in frame header process starts
0:06:16.664972	LOG	First uplink received. Open reception window.
0:06:16.778225	LOG	PUSH_ACK: 02 7fbe 01
0:06:16.780194	LOG	GPS Time from gateway: 1385110233967
0:06:16.781193	LOG	PUSH_DATA: Protocol version = 02, Token = 7fbe, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 393078059, 'time': '2023-11-27T08:50:14.967039Z',

		'tmms': 1385110233967, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADACwICQvNfQc6BaOsscMM='}]}
0:06:16.783194	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 020b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: eb2c70c3)
0:06:16.784193	LOG	Server <---------- DUT
0:06:16.786208	LOG	Count = 2
0:06:18.955823	LOG	First uplink received. Open reception window.
0:06:19.058435	LOG	PUSH_ACK: 02 14b0 01
0:06:19.060472	LOG	GPS Time from gateway: 1385110236255
0:06:19.061473	LOG	PUSH_DATA: Protocol version = 02, Token = 14b0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 395366807, 'time': '2023-11-27T08:50:17.255786Z', 'tmms': 1385110236255, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3308, 'rssi': -52, 'size': 20, 'data': 'QAAAAADACwICQvNfQc6BaOsscMM='}]}
0:06:19.063437	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 020b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: eb2c70c3)
0:06:19.064469	LOG	Server <---------- DUT
0:06:19.066452	LOG	Repeated frame. It does not count
0:06:21.664005	LOG	First uplink received. Open reception window.
0:06:21.776637	LOG	PUSH_ACK: 02 60b3 01
0:06:21.778636	LOG	GPS Time from gateway: 1385110238966
0:06:21.779637	LOG	PUSH_DATA: Protocol version = 02, Token = 60b3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 398077798, 'time': '2023-11-27T08:50:19.966777Z', 'tmms': 1385110238966, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADADAICDcQpsOYTBn2lsNs='}]}
0:06:21.781637	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 020c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7da5b0db)
0:06:21.782637	LOG	Server <---------- DUT
0:06:21.784605	LOG	Count = 3
0:06:23.331150	LOG	GPS Time updated: 1385110240633
0:06:23.333150	LOG	PULL_DATA: 02 4c16 02 0016c001ff1025bf
0:06:23.335151	LOG	PULL_ACK: 02 4c16 04
0:06:23.948828	LOG	First uplink received. Open reception window.
0:06:24.062233	LOG	PUSH_ACK: 02 cecf 01
0:06:24.064202	LOG	GPS Time from gateway: 1385110241256
0:06:24.065201	LOG	PUSH_DATA: Protocol version = 02, Token = cecf, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 400367019, 'time': '2023-11-27T08:50:22.255996Z', 'tmms': 1385110241256, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADADAICDcQpsOYTBn2lsNs='}]}
0:06:24.067201	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 020c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7da5b0db)
0:06:24.068201	LOG	Server <---------- DUT
0:06:24.070202	LOG	Repeated frame. It does not count
0:06:26.661355	LOG	First uplink received. Open reception window.
0:06:26.764969	LOG	PUSH_ACK: 02 430c 01
0:06:26.766936	LOG	GPS Time from gateway: 1385110243966
0:06:26.767937	LOG	PUSH_DATA: Protocol version = 02, Token = 430c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 403077541, 'time': '2023-11-27T08:50:24.966519Z', 'tmms': 1385110243966, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADADQICJTiUMf1TEZhe0/Y='}]}
0:06:26.769938	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 020d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 985ed3f6)

0:06:26.770936	LOG	Server <---------- DUT
0:06:26.772937	LOG	Count = 4
0:06:28.954235	LOG	First uplink received. Open reception window.
0:06:29.061863	LOG	PUSH_ACK: 02 f214 01
0:06:29.063830	LOG	GPS Time from gateway: 1385110246254
0:06:29.064831	LOG	PUSH_DATA: Protocol version = 02, Token = f214, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 405365472, 'time': '2023-11-27T08:50:27.254448Z', 'tmms': 1385110246254, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADADQICJTiUMf1TEZhe0/Y='}]}
0:06:29.066832	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 020d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 985ed3f6)
0:06:29.067830	LOG	Server <---------- DUT
0:06:29.069833	LOG	Repeated frame. It does not count
0:06:31.662426	LOG	First uplink received. Open reception window.
0:06:31.764106	LOG	PUSH_ACK: 02 041a 01
0:06:31.766074	LOG	GPS Time from gateway: 1385110248966
0:06:31.767073	LOG	PUSH_DATA: Protocol version = 02, Token = 041a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 408077277, 'time': '2023-11-27T08:50:29.966254Z', 'tmms': 1385110248966, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADADgICOP+fLy/pgyRZLTY='}]}
0:06:31.769074	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 020e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 24592d36)
0:06:31.770073	LOG	Server <---------- DUT
0:06:31.772074	LOG	Count = 5
0:06:33.410789	LOG	GPS Time updated: 1385110250714
0:06:33.412789	LOG	PULL_DATA: 02 5caa 02 0016c001ff1025bf
0:06:33.413810	LOG	PULL_ACK: 02 5caa 04
0:06:33.957051	LOG	First uplink received. Open reception window.
0:06:34.066491	LOG	PUSH_ACK: 02 0d3d 01
0:06:34.068459	LOG	GPS Time from gateway: 1385110251255
0:06:34.070467	LOG	PUSH_DATA: Protocol version = 02, Token = 0d3d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 410365840, 'time': '2023-11-27T08:50:32.254815Z', 'tmms': 1385110251255, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADADgICOP+fLy/pgyRZLTY='}]}
0:06:34.071494	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 020e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 24592d36)
0:06:34.072461	LOG	Server <---------- DUT
0:06:34.074461	LOG	Repeated frame. It does not count
0:06:36.660052	LOG	First uplink received. Open reception window.
0:06:36.771728	LOG	PUSH_ACK: 02 6252 01
0:06:36.773697	LOG	GPS Time from gateway: 1385110253966
0:06:36.774696	LOG	PUSH_DATA: Protocol version = 02, Token = 6252, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 413077021, 'time': '2023-11-27T08:50:34.965997Z', 'tmms': 1385110253966, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADADwIC6ydKf5iuoKfZ+fU='}]}
0:06:36.776697	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 020f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a7d9f9f5)
0:06:36.777696	LOG	Server <---------- DUT
0:06:36.779697	LOG	Count = 6
0:06:38.956390	LOG	First uplink received. Open reception window.
0:06:39.069038	LOG	PUSH_ACK: 02 2018 01
0:06:39.071038	LOG	GPS Time from gateway: 1385110256254

0:06:39.072038	LOG	PUSH_DATA: Protocol version = 02, Token = 2018, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 415365316, 'time': '2023-11-27T08:50:37.254290Z', 'tmms': 1385110256254, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADADwIC6ydKf5iuoKfZ+fU='}]}
0:06:39.074008	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 020f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a7d9f9f5)
0:06:39.075039	LOG	Server <---------- DUT
0:06:39.077005	LOG	Repeated frame. It does not count
0:06:41.663826	LOG	First uplink received. Open reception window.
0:06:41.771648	LOG	PUSH_ACK: 02 da52 01
0:06:41.773614	LOG	GPS Time from gateway: 1385110258965
0:06:41.774614	LOG	PUSH_DATA: Protocol version = 02, Token = da52, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 418076755, 'time': '2023-11-27T08:50:39.965730Z', 'tmms': 1385110258965, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAEAICo9DItX8fUJkvU+M='}]}
0:06:41.775614	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0210, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 992f53e3)
0:06:41.777614	LOG	Server <---------- DUT
0:06:41.779618	LOG	Count = 7
0:06:43.501526	LOG	GPS Time updated: 1385110260803
0:06:43.502526	LOG	PULL_DATA: 02 92f6 02 0016c001ff1025bf
0:06:43.504528	LOG	PULL_ACK: 02 92f6 04
0:06:43.957699	LOG	First uplink received. Open reception window.
0:06:44.071044	LOG	PUSH_ACK: 02 9912 01
0:06:44.073011	LOG	GPS Time from gateway: 1385110261254
0:06:44.074010	LOG	PUSH_DATA: Protocol version = 02, Token = 9912, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 420365239, 'time': '2023-11-27T08:50:42.254214Z', 'tmms': 1385110261254, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAEAICo9DItX8fUJkvU+M='}]}
0:06:44.076011	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0210, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 992f53e3)
0:06:44.077010	LOG	Server <---------- DUT
0:06:44.079012	LOG	Repeated frame. It does not count
0:06:46.668297	LOG	First uplink received. Open reception window.
0:06:46.776321	LOG	PUSH_ACK: 02 b4ad 01
0:06:46.778290	LOG	GPS Time from gateway: 1385110263965
0:06:46.779290	LOG	PUSH_DATA: Protocol version = 02, Token = b4ad, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 423076502, 'time': '2023-11-27T08:50:44.965476Z', 'tmms': 1385110263965, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAEQIC89GyDSEE88Eh7fA='}]}
0:06:46.781323	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0211, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c121edf0)
0:06:46.782338	LOG	Server <---------- DUT
0:06:46.784290	LOG	Count = 8
0:06:48.955469	LOG	First uplink received. Open reception window.
0:06:49.057726	LOG	PUSH_ACK: 02 c214 01
0:06:49.059731	LOG	GPS Time from gateway: 1385110266253
0:06:49.060730	LOG	PUSH_DATA: Protocol version = 02, Token = c214, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 425364654, 'time': '2023-11-27T08:50:47.253628Z', 'tmms': 1385110266253, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAEQIC89GyDSEE88Eh7fA='}]}

0:06:49.062731	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0211, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c121edf0)
0:06:49.063730	LOG	Server <---------- DUT
0:06:49.065732	LOG	Repeated frame. It does not count
0:06:51.658903	LOG	First uplink received. Open reception window.
0:06:51.773258	LOG	PUSH_ACK: 02 600e 01
0:06:51.775225	LOG	GPS Time from gateway: 1385110268965
0:06:51.776225	LOG	PUSH_DATA: Protocol version = 02, Token = 600e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 428076240, 'time': '2023-11-27T08:50:49.965213Z', 'tmms': 1385110268965, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAEgIC+9IhQc2WVaawdOk='}]}
0:06:51.778226	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0212, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a6b074e9)
0:06:51.779225	LOG	Server <---------- DUT
0:06:51.781227	LOG	Count = 9
0:06:53.582076	LOG	GPS Time updated: 1385110270889
0:06:53.584044	LOG	PULL_DATA: 02 2a2e 02 0016c001ff1025bf
0:06:53.585044	LOG	PULL_ACK: 02 2a2e 04
0:06:53.948759	LOG	First uplink received. Open reception window.
0:06:54.057207	LOG	PUSH_ACK: 02 de6e 01
0:06:54.059451	LOG	GPS Time from gateway: 1385110271253
0:06:54.060566	LOG	PUSH_DATA: Protocol version = 02, Token = de6e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 430364524, 'time': '2023-11-27T08:50:52.253496Z', 'tmms': 1385110271253, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAEgIC+9IhQc2WVaawdOk='}]}
0:06:54.062185	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0212, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a6b074e9)
0:06:54.063700	LOG	Server <---------- DUT
0:06:54.064700	LOG	Repeated frame. It does not count
0:06:56.659183	LOG	First uplink received. Open reception window.
0:06:56.775412	LOG	PUSH_ACK: 02 3bd0 01
0:06:56.777378	LOG	GPS Time from gateway: 1385110273965
0:06:56.778410	LOG	PUSH_DATA: Protocol version = 02, Token = 3bd0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 433075991, 'time': '2023-11-27T08:50:54.964963Z', 'tmms': 1385110273965, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAEwICs6hh07mZHCkPmP0='}]}
0:06:56.779413	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0213, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 290f98fd)
0:06:56.781410	LOG	Server <---------- DUT
0:06:56.783410	LOG	Count = 10
0:06:58.955925	LOG	First uplink received. Open reception window.
0:06:59.056502	LOG	PUSH_ACK: 02 823f 01
0:06:59.058502	LOG	GPS Time from gateway: 1385110276253
0:06:59.059502	LOG	PUSH_DATA: Protocol version = 02, Token = 823f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 435364342, 'time': '2023-11-27T08:50:57.253313Z', 'tmms': 1385110276253, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAEwICs6hh07mZHCkPmP0='}]}
0:06:59.061507	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0213, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 290f98fd)
0:06:59.062470	LOG	Server <---------- DUT
0:06:59.064470	LOG	Repeated frame. It does not count
0:07:03.065645	LOG	First uplink received. Open reception window.

0:07:03.181304	LOG	PUSH_ACK: 02 ebde 01
0:07:03.183305	LOG	GPS Time from gateway: 1385110280363
0:07:03.184306	LOG	PUSH_DATA: Protocol version = 02, Token = ebde, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 439474307, 'time': '2023-11-27T08:51:01.363278Z', 'tmms': 1385110280363, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3292, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAFAICsrkZ/FtURDE0WPM='}]}
0:07:03.186306	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0214, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 313458f3)
0:07:03.187305	LOG	Server <---------- DUT
0:07:03.189307	LOG	Count = 11
0:07:03.665955	LOG	GPS Time updated: 1385110280963
0:07:03.667618	LOG	PULL_DATA: 02 e9f8 02 0016c001ff1025bf
0:07:03.669621	LOG	PULL_ACK: 02 e9f8 04
0:07:05.348426	LOG	First uplink received. Open reception window.
0:07:05.463079	LOG	PUSH_ACK: 02 1b4b 01
0:07:05.465044	LOG	GPS Time from gateway: 1385110282651
0:07:05.466044	LOG	PUSH_DATA: Protocol version = 02, Token = 1b4b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 441762033, 'time': '2023-11-27T08:51:03.651004Z', 'tmms': 1385110282651, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 12.8, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAFAICsrkZ/FtURDE0WPM='}]}
0:07:05.468045	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0214, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 313458f3)
0:07:05.469044	LOG	Server <---------- DUT
0:07:05.471059	LOG	Repeated frame. It does not count
0:07:07.842663	LOG	First uplink received. Open reception window.
0:07:07.953294	LOG	PUSH_ACK: 02 4a3c 01
0:07:07.955262	LOG	GPS Time from gateway: 1385110285139
0:07:07.956262	LOG	PUSH_DATA: Protocol version = 02, Token = 4a3c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 444250209, 'time': '2023-11-27T08:51:06.139179Z', 'tmms': 1385110285139, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAFQIC8t3uB9YMgtXOPzY='}]}
0:07:07.958263	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0215, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d5ce3f36)
0:07:07.959261	LOG	Server <---------- DUT
0:07:07.961263	LOG	Count = 12
0:07:10.127364	LOG	First uplink received. Open reception window.
0:07:10.233008	LOG	PUSH_ACK: 02 df3d 01
0:07:10.235008	LOG	GPS Time from gateway: 1385110287427
0:07:10.235978	LOG	PUSH_DATA: Protocol version = 02, Token = df3d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 446538508, 'time': '2023-11-27T08:51:08.427478Z', 'tmms': 1385110287427, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAFQIC8t3uB9YMgtXOPzY='}]}
0:07:10.238015	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0215, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d5ce3f36)
0:07:10.239009	LOG	Server <---------- DUT
0:07:10.240977	LOG	Repeated frame. It does not count
0:07:12.833517	LOG	First uplink received. Open reception window.
0:07:12.939168	LOG	PUSH_ACK: 02 3972 01
0:07:12.941136	LOG	GPS Time from gateway: 1385110290139
0:07:12.942136	LOG	PUSH_DATA: Protocol version = 02, Token = 3972, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 449249951, 'time': '2023-11-27T08:51:11.138920Z', 'tmms': 1385110290139, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAFgICa3ogPXEI7+A6ckU='}]}
0:07:12.944135	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0216, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e03a7245)
0:07:12.945135	LOG	Server <---------- DUT
0:07:12.947146	LOG	Count = 13
0:07:13.751683	LOG	GPS Time updated: 1385110291057
0:07:13.753651	LOG	PULL_DATA: 02 34d3 02 0016c001ff1025bf
0:07:13.754650	LOG	PULL_ACK: 02 34d3 04
0:07:15.127682	LOG	First uplink received. Open reception window.
0:07:15.238329	LOG	PUSH_ACK: 02 84e8 01
0:07:15.240330	LOG	GPS Time from gateway: 1385110292427
0:07:15.241329	LOG	PUSH_DATA: Protocol version = 02, Token = 84e8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 451538001, 'time': '2023-11-27T08:51:13.426970Z', 'tmms': 1385110292427, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3292, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAFgICa3ogPXEI7+A6ckU='}]}
0:07:15.243297	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0216, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e03a7245)
0:07:15.244296	LOG	Server <---------- DUT
0:07:15.246298	LOG	Repeated frame. It does not count
0:07:17.838323	LOG	First uplink received. Open reception window.
0:07:17.941714	LOG	PUSH_ACK: 02 8046 01
0:07:17.943683	LOG	GPS Time from gateway: 1385110295138
0:07:17.944682	LOG	PUSH_DATA: Protocol version = 02, Token = 8046, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 454249702, 'time': '2023-11-27T08:51:16.138670Z', 'tmms': 1385110295138, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.0, 'foff': -3292, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAFwICw59DUeRfIoI7sQU='}]}
0:07:17.946683	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0217, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 823bb105)
0:07:17.947682	LOG	Server <---------- DUT
0:07:17.949683	LOG	Count = 14
0:07:20.121046	LOG	First uplink received. Open reception window.
0:07:20.236689	LOG	PUSH_ACK: 02 fde1 01
0:07:20.238658	LOG	GPS Time from gateway: 1385110297426
0:07:20.239657	LOG	PUSH_DATA: Protocol version = 02, Token = fde1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 456537715, 'time': '2023-11-27T08:51:18.426683Z', 'tmms': 1385110297426, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3292, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAFwICw59DUeRfIoI7sQU='}]}
0:07:20.241657	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0217, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 823bb105)
0:07:20.242658	LOG	Server <---------- DUT
0:07:20.244658	LOG	Repeated frame. It does not count
0:07:22.834374	LOG	First uplink received. Open reception window.
0:07:22.941869	LOG	PUSH_ACK: 02 5527 01
0:07:22.943870	LOG	GPS Time from gateway: 1385110300138
0:07:22.945872	LOG	PUSH_DATA: Protocol version = 02, Token = 5527, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 459249441, 'time': '2023-11-27T08:51:21.138408Z', 'tmms': 1385110300138, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAGAICvFBNCpggjdteNcc='}]}
0:07:22.946871	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0218, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: db5e35c7)
0:07:22.947871	LOG	Server <---------- DUT

0:07:22.949871	LOG	Count = 15
0:07:23.832891	LOG	GPS Time updated: 1385110301137
0:07:23.833891	LOG	PULL_DATA: 02 0f33 02 0016c001ff1025bf
0:07:23.835893	LOG	PULL_ACK: 02 0f33 04
0:07:25.129353	LOG	First uplink received. Open reception window.
0:07:25.242200	LOG	PUSH_ACK: 02 954a 01
0:07:25.244164	LOG	GPS Time from gateway: 1385110302427
0:07:25.245196	LOG	PUSH_DATA: Protocol version = 02, Token = 954a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 461538146, 'time': '2023-11-27T08:51:23.427113Z', 'tmms': 1385110302427, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3292, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAGAICvFBNCpggjdteNcc='}]}
0:07:25.247162	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0218, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: db5e35c7)
0:07:25.248162	LOG	Server <---------- DUT
0:07:25.250200	LOG	Repeated frame. It does not count
0:07:27.837719	LOG	First uplink received. Open reception window.
0:07:27.944976	LOG	PUSH_ACK: 02 0317 01
0:07:27.946944	LOG	GPS Time from gateway: 1385110305138
0:07:27.947943	LOG	PUSH_DATA: Protocol version = 02, Token = 0317, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 464249186, 'time': '2023-11-27T08:51:26.138151Z', 'tmms': 1385110305138, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.0, 'foff': -3285, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAGQIC2eLs+qKMnOmsyEA='}]}
0:07:27.949944	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0219, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e9acc840)
0:07:27.950944	LOG	Server <---------- DUT
0:07:27.952961	LOG	Count = 16
0:07:30.129289	LOG	First uplink received. Open reception window.
0:07:30.240834	LOG	PUSH_ACK: 02 89ee 01
0:07:30.242836	LOG	GPS Time from gateway: 1385110307426
0:07:30.243836	LOG	PUSH_DATA: Protocol version = 02, Token = 89ee, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 466537191, 'time': '2023-11-27T08:51:28.426157Z', 'tmms': 1385110307426, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3285, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAGQIC2eLs+qKMnOmsyEA='}]}
0:07:30.245836	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0219, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e9acc840)
0:07:30.246802	LOG	Server <---------- DUT
0:07:30.248803	LOG	Repeated frame. It does not count
0:07:32.840688	LOG	First uplink received. Open reception window.
0:07:32.945314	LOG	PUSH_ACK: 02 f672 01
0:07:32.947302	LOG	GPS Time from gateway: 1385110310138
0:07:32.948316	LOG	PUSH_DATA: Protocol version = 02, Token = f672, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 469248920, 'time': '2023-11-27T08:51:31.137884Z', 'tmms': 1385110310138, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.0, 'foff': -3285, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAGgICDZ633yl+O53CEXY='}]}
0:07:32.950316	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 021a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9dc21176)
0:07:32.951306	LOG	Server <---------- DUT
0:07:32.953281	LOG	Count = 17
0:07:33.913037	LOG	GPS Time updated: 1385110311211
0:07:33.914037	LOG	PULL_DATA: 02 e611 02 0016c001ff1025bf
0:07:33.916038	LOG	PULL_ACK: 02 e611 04
0:07:35.124681	LOG	First uplink received. Open reception window.

0:07:35.230296	LOG	PUSH_ACK: 02 bd31 01
0:07:35.232265	LOG	GPS Time from gateway: 1385110312426
0:07:35.233264	LOG	PUSH_DATA: Protocol version = 02, Token = bd31, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 471537182, 'time': '2023-11-27T08:51:33.426147Z', 'tmms': 1385110312426, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3285, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAGgICDZ633yl+O53CEXY='}]}
0:07:35.235265	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 021a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9dc21176)
0:07:35.236265	LOG	Server <---------- DUT
0:07:35.238265	LOG	Repeated frame. It does not count
0:07:37.836542	LOG	First uplink received. Open reception window.
0:07:37.950909	LOG	PUSH_ACK: 02 4d20 01
0:07:37.952909	LOG	GPS Time from gateway: 1385110315137
0:07:37.953911	LOG	PUSH_DATA: Protocol version = 02, Token = 4d20, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 474248668, 'time': '2023-11-27T08:51:36.137631Z', 'tmms': 1385110315137, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3285, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAGwICFi2lJ/9CqbgY2mU='}]}
0:07:37.955911	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 021b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b818da65)
0:07:37.956910	LOG	Server <---------- DUT
0:07:37.958910	LOG	Count = 18
0:07:40.127302	LOG	First uplink received. Open reception window.
0:07:40.231207	LOG	PUSH_ACK: 02 5e52 01
0:07:40.233176	LOG	GPS Time from gateway: 1385110317426
0:07:40.235176	LOG	PUSH_DATA: Protocol version = 02, Token = 5e52, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 476537077, 'time': '2023-11-27T08:51:38.426041Z', 'tmms': 1385110317426, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3285, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAGwICFi2lJ/9CqbgY2mU='}]}
0:07:40.236209	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 021b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b818da65)
0:07:40.237206	LOG	Server <---------- DUT
0:07:40.239188	LOG	Repeated frame. It does not count
0:07:42.832974	LOG	First uplink received. Open reception window.
0:07:42.935619	LOG	PUSH_ACK: 02 9f92 01
0:07:42.937604	LOG	GPS Time from gateway: 1385110320137
0:07:42.938587	LOG	PUSH_DATA: Protocol version = 02, Token = 9f92, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 479248397, 'time': '2023-11-27T08:51:41.137361Z', 'tmms': 1385110320137, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.0, 'foff': -3285, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAHAICYo5z2IpDqnhuewY='}]}
0:07:42.940588	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 021c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 786e7b06)
0:07:42.941587	LOG	Server <---------- DUT
0:07:42.943589	LOG	Count = 19
0:07:43.992749	LOG	GPS Time updated: 1385110321296
0:07:43.993749	LOG	PULL_DATA: 02 2523 02 0016c001ff1025bf
0:07:43.995750	LOG	PULL_ACK: 02 2523 04
0:07:45.128888	LOG	First uplink received. Open reception window.
0:07:45.234504	LOG	PUSH_ACK: 02 7aa5 01
0:07:45.236506	LOG	GPS Time from gateway: 1385110322425
0:07:45.237503	LOG	PUSH_DATA: Protocol version = 02, Token = 7aa5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 481536739, 'time': '2023-11-27T08:51:43.425702Z', 'tmms': 1385110322425, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAHAICYo5z2IpDqnhuewY='}]}
0:07:45.239471	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 021c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 786e7b06)
0:07:45.240470	LOG	Server <---------- DUT
0:07:45.242504	LOG	Repeated frame. It does not count
0:07:47.838911	LOG	First uplink received. Open reception window.
0:07:47.939556	LOG	PUSH_ACK: 02 6977 01
0:07:47.941525	LOG	GPS Time from gateway: 1385110325137
0:07:47.942557	LOG	PUSH_DATA: Protocol version = 02, Token = 6977, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 484248143, 'time': '2023-11-27T08:51:46.137106Z', 'tmms': 1385110325137, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3285, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAHQIC65dWxL2oOpMWG2I='}]}
0:07:47.944557	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 021d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 93161b62)
0:07:47.945558	LOG	Server <---------- DUT
0:07:47.947523	LOG	Count = 20
0:07:50.119444	LOG	First uplink received. Open reception window.
0:07:50.234742	LOG	PUSH_ACK: 02 86be 01
0:07:50.236708	LOG	GPS Time from gateway: 1385110327425
0:07:50.237708	LOG	PUSH_DATA: Protocol version = 02, Token = 86be, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 486536280, 'time': '2023-11-27T08:51:48.425242Z', 'tmms': 1385110327425, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3285, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAHQIC65dWxL2oOpMWG2I='}]}
0:07:50.239722	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 021d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 93161b62)
0:07:50.240708	LOG	Server <---------- DUT
0:07:50.242708	LOG	Repeated frame. It does not count
0:07:52.841113	LOG	First uplink received. Open reception window.
0:07:52.943899	LOG	PUSH_ACK: 02 9f96 01
0:07:52.945866	LOG	GPS Time from gateway: 1385110330136
0:07:52.946866	LOG	PUSH_DATA: Protocol version = 02, Token = 9f96, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 489247883, 'time': '2023-11-27T08:51:51.136845Z', 'tmms': 1385110330136, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3285, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAHgIC9HUZHaV8U9pARb4='}]}
0:07:52.948867	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 021e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: da4045be)
0:07:52.949866	LOG	Server <---------- DUT
0:07:52.951867	LOG	Count = 21
0:07:54.073389	LOG	GPS Time updated: 1385110331367
0:07:54.074389	LOG	PULL_DATA: 02 f134 02 0016c001ff1025bf
0:07:54.076359	LOG	PULL_ACK: 02 f134 04
0:07:55.122980	LOG	First uplink received. Open reception window.
0:07:55.227761	LOG	PUSH_ACK: 02 e0f5 01
0:07:55.229728	LOG	GPS Time from gateway: 1385110332424
0:07:55.230728	LOG	PUSH_DATA: Protocol version = 02, Token = e0f5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 491535790, 'time': '2023-11-27T08:51:53.424750Z', 'tmms': 1385110332424, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAHgIC9HUZHaV8U9pARb4='}]}
0:07:55.232729	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 021e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: da4045be)
0:07:55.233728	LOG	Server <---------- DUT

0:07:55.235728	LOG	Repeated frame. It does not count
0:07:57.832695	LOG	First uplink received. Open reception window.
0:07:57.946208	LOG	PUSH_ACK: 02 4c6a 01
0:07:57.948211	LOG	GPS Time from gateway: 1385110335136
0:07:57.949211	LOG	PUSH_DATA: Protocol version = 02, Token = 4c6a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 494247626, 'time': '2023-11-27T08:51:56.136587Z', 'tmms': 1385110335136, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAHwICK1KQesAKyBrkBQg='}]}
0:07:57.951211	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 021f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1ae40508)
0:07:57.952212	LOG	Server <---------- DUT
0:07:57.954212	LOG	Count = 22
0:08:00.125108	LOG	First uplink received. Open reception window.
0:08:00.226223	LOG	PUSH_ACK: 02 e342 01
0:08:00.228224	LOG	GPS Time from gateway: 1385110337425
0:08:00.229223	LOG	PUSH_DATA: Protocol version = 02, Token = e342, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 496536358, 'time': '2023-11-27T08:51:58.425317Z', 'tmms': 1385110337425, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAHwICK1KQesAKyBrkBQg='}]}
0:08:00.231226	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 021f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1ae40508)
0:08:00.232412	LOG	Server <---------- DUT
0:08:00.234379	LOG	Repeated frame. It does not count
0:08:02.834421	LOG	First uplink received. Open reception window.
0:08:02.947290	LOG	PUSH_ACK: 02 dcca 01
0:08:02.949256	LOG	GPS Time from gateway: 1385110340136
0:08:02.950256	LOG	PUSH_DATA: Protocol version = 02, Token = dcca, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 499247369, 'time': '2023-11-27T08:52:01.136329Z', 'tmms': 1385110340136, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAIAIC3FywP3ZcFxn9Ksw='}]}
0:08:02.951257	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0220, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 19fd2acc)
0:08:02.953257	LOG	Server <---------- DUT
0:08:02.955267	LOG	Count = 23
0:08:04.153211	LOG	GPS Time updated: 1385110341455
0:08:04.154207	LOG	PULL_DATA: 02 539a 02 0016c001ff1025bf
0:08:04.156207	LOG	PULL_ACK: 02 539a 04
0:08:05.126373	LOG	First uplink received. Open reception window.
0:08:05.232985	LOG	PUSH_ACK: 02 fba1 01
0:08:05.234985	LOG	GPS Time from gateway: 1385110342425
0:08:05.236529	LOG	PUSH_DATA: Protocol version = 02, Token = fba1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 501536171, 'time': '2023-11-27T08:52:03.425129Z', 'tmms': 1385110342425, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAIAIC3FywP3ZcFxn9Ksw='}]}
0:08:05.237566	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0220, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 19fd2acc)
0:08:05.239533	LOG	Server <---------- DUT
0:08:05.241549	LOG	Repeated frame. It does not count
0:08:07.833604	LOG	First uplink received. Open reception window.
0:08:07.936145	LOG	PUSH_ACK: 02 ba13 01
0:08:07.937118	LOG	GPS Time from gateway: 1385110345136

0:08:07.939628	LOG	PUSH_DATA: Protocol version = 02, Token = ba13, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 504247120, 'time': '2023-11-27T08:52:06.136079Z', 'tmms': 1385110345136, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAIQICgtVmAh/muNQz1iw='}]}
0:08:07.940628	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0221, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d433d62c)
0:08:07.942628	LOG	Server <---------- DUT
0:08:07.944630	LOG	Count = 24
0:08:10.128025	LOG	First uplink received. Open reception window.
0:08:10.230657	LOG	PUSH_ACK: 02 656d 01
0:08:10.232631	LOG	GPS Time from gateway: 1385110347424
0:08:10.233625	LOG	PUSH_DATA: Protocol version = 02, Token = 656d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 506535637, 'time': '2023-11-27T08:52:08.424596Z', 'tmms': 1385110347424, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAIQICgtVmAh/muNQz1iw='}]}
0:08:10.235625	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0221, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d433d62c)
0:08:10.236625	LOG	Server <---------- DUT
0:08:10.238641	LOG	Repeated frame. It does not count
0:08:12.833622	LOG	First uplink received. Open reception window.
0:08:12.936266	LOG	PUSH_ACK: 02 aa8a 01
0:08:12.938244	LOG	GPS Time from gateway: 1385110350135
0:08:12.939234	LOG	PUSH_DATA: Protocol version = 02, Token = aa8a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 509246856, 'time': '2023-11-27T08:52:11.135814Z', 'tmms': 1385110350135, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3285, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAIgICuste9cE5vXz8d4w='}]}
0:08:12.941265	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0222, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7cfc778c)
0:08:12.942267	LOG	Server <---------- DUT
0:08:12.944246	LOG	Count = 25
0:08:14.242779	LOG	GPS Time updated: 1385110351544
0:08:14.243811	LOG	PULL_DATA: 02 9025 02 0016c001ff1025bf
0:08:14.245318	LOG	PULL_ACK: 02 9025 04
0:08:15.126827	LOG	First uplink received. Open reception window.
0:08:15.233476	LOG	PUSH_ACK: 02 30f9 01
0:08:15.235471	LOG	GPS Time from gateway: 1385110352424
0:08:15.236477	LOG	PUSH_DATA: Protocol version = 02, Token = 30f9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 511535543, 'time': '2023-11-27T08:52:13.424501Z', 'tmms': 1385110352424, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAIgICuste9cE5vXz8d4w='}]}
0:08:15.238485	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0222, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7cfc778c)
0:08:15.239478	LOG	Server <---------- DUT
0:08:15.241445	LOG	Repeated frame. It does not count
0:08:17.834920	LOG	First uplink received. Open reception window.
0:08:17.937534	LOG	PUSH_ACK: 02 9cb6 01
0:08:17.939540	LOG	GPS Time from gateway: 1385110355135
0:08:17.940535	LOG	PUSH_DATA: Protocol version = 02, Token = 9cb6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 514246605, 'time': '2023-11-27T08:52:16.135562Z', 'tmms': 1385110355135, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.0, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAIwICR4/OqBJbo+cJpKs='}]}

0:08:17.942535	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0223, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e709a4ab)
0:08:17.943534	LOG	Server <---------- DUT
0:08:17.945532	LOG	Count = 26
0:08:20.127563	LOG	First uplink received. Open reception window.
0:08:20.235104	LOG	PUSH_ACK: 02 b83b 01
0:08:20.237140	LOG	GPS Time from gateway: 1385110357424
0:08:20.239108	LOG	PUSH_DATA: Protocol version = 02, Token = b83b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 516535032, 'time': '2023-11-27T08:52:18.423989Z', 'tmms': 1385110357424, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAIwICR4/OqBJbo+cJpKs='}]}
0:08:20.240108	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0223, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e709a4ab)
0:08:20.242107	LOG	Server <---------- DUT
0:08:20.243106	LOG	Repeated frame. It does not count
0:08:24.233977	LOG	First uplink received. Open reception window.
0:08:24.322863	LOG	PULL_DATA: 02 702d 02 0016c001ff1025bf
0:08:24.323828	LOG	PULL_ACK: 02 702d 04
0:08:24.348013	LOG	PUSH_ACK: 02 4ca9 01
0:08:24.350053	LOG	GPS Time from gateway: 1385110361535
0:08:24.352055	LOG	PUSH_DATA: Protocol version = 02, Token = 4ca9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 520646822, 'time': '2023-11-27T08:52:22.535778Z', 'tmms': 1385110361535, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAJAIC9xinTRCZqELHxLg='}]}
0:08:24.353051	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0224, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 42c7c4b8)
0:08:24.354589	LOG	Server <---------- DUT
0:08:24.356629	LOG	Count = 27
0:08:26.519519	LOG	First uplink received. Open reception window.
0:08:26.630534	LOG	PUSH_ACK: 02 9ebc 01
0:08:26.632500	LOG	GPS Time from gateway: 1385110363824
0:08:26.633502	LOG	PUSH_DATA: Protocol version = 02, Token = 9ebc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 522935239, 'time': '2023-11-27T08:52:24.824195Z', 'tmms': 1385110363824, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAJAIC9xinTRCZqELHxLg='}]}
0:08:26.635500	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0224, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 42c7c4b8)
0:08:26.636502	LOG	Server <---------- DUT
0:08:26.638502	LOG	Repeated frame. It does not count
0:08:29.012613	LOG	First uplink received. Open reception window.
0:08:29.122186	LOG	PUSH_ACK: 02 9782 01
0:08:29.124191	LOG	GPS Time from gateway: 1385110366311
0:08:29.125187	LOG	PUSH_DATA: Protocol version = 02, Token = 9782, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 525422778, 'time': '2023-11-27T08:52:27.311733Z', 'tmms': 1385110366311, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAJQIChiyaBB1BW2J0HhQ='}]}
0:08:29.127156	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0225, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 62741e14)
0:08:29.128153	LOG	Server <---------- DUT
0:08:29.130155	LOG	Count = 28
0:08:31.298009	LOG	First uplink received. Open reception window.
0:08:31.402365	LOG	PUSH_ACK: 02 fe73 01

0:08:31.404334	LOG	GPS Time from gateway: 1385110368599
0:08:31.405367	LOG	PUSH_DATA: Protocol version = 02, Token = fe73, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 527710671, 'time': '2023-11-27T08:52:29.599626Z', 'tmms': 1385110368599, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3292, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAJQIChiyaBB1BW2J0HhQ='}]}
0:08:31.407333	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0225, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 62741e14)
0:08:31.408332	LOG	Server <---------- DUT
0:08:31.410333	LOG	Repeated frame. It does not count
0:08:34.016165	LOG	First uplink received. Open reception window.
0:08:34.124419	LOG	PUSH_ACK: 02 4c51 01
0:08:34.126023	LOG	GPS Time from gateway: 1385110371311
0:08:34.128035	LOG	PUSH_DATA: Protocol version = 02, Token = 4c51, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 530422528, 'time': '2023-11-27T08:52:32.311482Z', 'tmms': 1385110371311, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3285, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAJgICLXmROl5DqGFJbb8='}]}
0:08:34.129062	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0226, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 61496dbf)
0:08:34.131028	LOG	Server <---------- DUT
0:08:34.132063	LOG	Count = 29
0:08:34.413812	LOG	GPS Time updated: 1385110371708
0:08:34.414802	LOG	PULL_DATA: 02 0d47 02 0016c001ff1025bf
0:08:34.416815	LOG	PULL_ACK: 02 0d47 04
0:08:36.299738	LOG	First uplink received. Open reception window.
0:08:36.405386	LOG	PUSH_ACK: 02 f2c8 01
0:08:36.407354	LOG	GPS Time from gateway: 1385110373600
0:08:36.408353	LOG	PUSH_DATA: Protocol version = 02, Token = f2c8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 532711300, 'time': '2023-11-27T08:52:34.600254Z', 'tmms': 1385110373600, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3285, 'rssi': -52, 'size': 20, 'data': 'QAAAAADAJgICLXmROl5DqGFJbb8='}]}
0:08:36.410353	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0226, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 61496dbf)
0:08:36.411353	LOG	Server <---------- DUT
0:08:36.412353	LOG	Repeated frame. It does not count
0:08:39.010808	LOG	First uplink received. Open reception window.
0:08:39.125848	LOG	PUSH_ACK: 02 5ac0 01
0:08:39.127846	LOG	GPS Time from gateway: 1385110376311
0:08:39.128845	LOG	PUSH_DATA: Protocol version = 02, Token = 5ac0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 535422256, 'time': '2023-11-27T08:52:37.311209Z', 'tmms': 1385110376311, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.0, 'foff': -3285, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAJwICoW2m4KL2NotohOc='}]}
0:08:39.130835	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0227, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8b6884e7)
0:08:39.131848	LOG	Server <---------- DUT
0:08:39.133814	LOG	Count = 30
0:08:41.304035	LOG	First uplink received. Open reception window.
0:08:41.405471	LOG	PUSH_ACK: 02 2d8b 01
0:08:41.407436	LOG	GPS Time from gateway: 1385110378599
0:08:41.408468	LOG	PUSH_DATA: Protocol version = 02, Token = 2d8b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 537710615, 'time': '2023-11-27T08:52:39.599568Z', 'tmms': 1385110378599, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3285, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAJwICoW2m4KL2NotohOc='}]}
0:08:41.410463	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0227, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8b6884e7)
0:08:41.411438	LOG	Server <---------- DUT
0:08:41.413469	LOG	Repeated frame. It does not count
0:08:44.013954	LOG	First uplink received. Open reception window.
0:08:44.126590	LOG	PUSH_ACK: 02 4abd 01
0:08:44.129586	LOG	GPS Time from gateway: 1385110381311
0:08:44.131206	LOG	PUSH_DATA: Protocol version = 02, Token = 4abd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 540422007, 'time': '2023-11-27T08:52:42.310959Z', 'tmms': 1385110381311, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3285, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAKAIClIkAwt9PPFKAG5Q='}]}
0:08:44.132903	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0228, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 52801b94)
0:08:44.134607	LOG	Server <---------- DUT
0:08:44.136293	LOG	Count = 31
0:08:44.493219	LOG	GPS Time updated: 1385110381792
0:08:44.494218	LOG	PULL_DATA: 02 b07a 02 0016c001ff1025bf
0:08:44.496219	LOG	PULL_ACK: 02 b07a 04
0:08:46.300525	LOG	First uplink received. Open reception window.
0:08:46.408748	LOG	PUSH_ACK: 02 b74c 01
0:08:46.410716	LOG	GPS Time from gateway: 1385110383599
0:08:46.411751	LOG	PUSH_DATA: Protocol version = 02, Token = b74c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 542710101, 'time': '2023-11-27T08:52:44.599053Z', 'tmms': 1385110383599, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3285, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAKAIClIkAwt9PPFKAG5Q='}]}
0:08:46.413715	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0228, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 52801b94)
0:08:46.414749	LOG	Server <---------- DUT
0:08:46.416718	LOG	Repeated frame. It does not count
0:08:49.005741	LOG	First uplink received. Open reception window.
0:08:49.111351	LOG	PUSH_ACK: 02 316f 01
0:08:49.113384	LOG	GPS Time from gateway: 1385110386310
0:08:49.114385	LOG	PUSH_DATA: Protocol version = 02, Token = 316f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 545421745, 'time': '2023-11-27T08:52:47.310696Z', 'tmms': 1385110386310, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3285, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAKQICRCuvkK5JITxjSqE='}]}
0:08:49.116352	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0229, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3c634aa1)
0:08:49.117353	LOG	Server <---------- DUT
0:08:49.119357	LOG	Count = 32
0:08:51.303197	LOG	First uplink received. Open reception window.
0:08:51.406447	LOG	PUSH_ACK: 02 887d 01
0:08:51.408446	LOG	GPS Time from gateway: 1385110388599
0:08:51.409447	LOG	PUSH_DATA: Protocol version = 02, Token = 887d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 547710333, 'time': '2023-11-27T08:52:49.599284Z', 'tmms': 1385110388599, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3285, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAKQICRCuvkK5JITxjSqE='}]}
0:08:51.411447	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0229, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3c634aa1)
0:08:51.412484	LOG	Server <---------- DUT

0:08:51.414447	LOG	Repeated frame. It does not count
0:08:54.020724	LOG	First uplink received. Open reception window.
0:08:54.129255	LOG	PUSH_ACK: 02 18f8 01
0:08:54.131939	LOG	GPS Time from gateway: 1385110391310
0:08:54.133611	LOG	PUSH_DATA: Protocol version = 02, Token = 18f8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 550421490, 'time': '2023-11-27T08:52:52.310439Z', 'tmms': 1385110391310, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3285, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAKgICAKXhsNoACDPZdQ8='}]}
0:08:54.135470	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 022a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 33d9750f)
0:08:54.136578	LOG	Server <---------- DUT
0:08:54.138838	LOG	Count = 33
0:08:54.573752	LOG	GPS Time updated: 1385110391871
0:08:54.574726	LOG	PULL_DATA: 02 aab7 02 0016c001ff1025bf
0:08:54.576725	LOG	PULL_ACK: 02 aab7 04
0:08:56.294768	LOG	First uplink received. Open reception window.
0:08:56.396981	LOG	PUSH_ACK: 02 b441 01
0:08:56.399015	LOG	GPS Time from gateway: 1385110393599
0:08:56.400015	LOG	PUSH_DATA: Protocol version = 02, Token = b441, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 552710045, 'time': '2023-11-27T08:52:54.598995Z', 'tmms': 1385110393599, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3285, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAKgICAKXhsNoACDPZdQ8='}]}
0:08:56.401984	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 022a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 33d9750f)
0:08:56.403018	LOG	Server <---------- DUT
0:08:56.404982	LOG	Repeated frame. It does not count
0:08:59.006034	LOG	First uplink received. Open reception window.
0:08:59.115682	LOG	PUSH_ACK: 02 39b2 01
0:08:59.117651	LOG	GPS Time from gateway: 1385110396310
0:08:59.118648	LOG	PUSH_DATA: Protocol version = 02, Token = 39b2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 555421264, 'time': '2023-11-27T08:52:57.310212Z', 'tmms': 1385110396310, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3285, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAKwICVy6rKhn1x7yTKbY='}]}
0:08:59.120648	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 022b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: bc9329b6)
0:08:59.121648	LOG	Server <---------- DUT
0:08:59.123648	LOG	Count = 34
0:09:01.302252	LOG	First uplink received. Open reception window.
0:09:01.409866	LOG	PUSH_ACK: 02 b585 01
0:09:01.411835	LOG	GPS Time from gateway: 1385110398598
0:09:01.412834	LOG	PUSH_DATA: Protocol version = 02, Token = b585, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 557709477, 'time': '2023-11-27T08:52:59.598426Z', 'tmms': 1385110398598, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3285, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAKwICVy6rKhn1x7yTKbY='}]}
0:09:01.414834	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 022b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: bc9329b6)
0:09:01.415834	LOG	Server <---------- DUT
0:09:01.417835	LOG	Repeated frame. It does not count
0:09:04.012827	LOG	First uplink received. Open reception window.
0:09:04.123056	LOG	PUSH_ACK: 02 03c2 01
0:09:04.127741	LOG	GPS Time from gateway: 1385110401310

0:09:04.131473	LOG	PUSH_DATA: Protocol version = 02, Token = 03c2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 560421029, 'time': '2023-11-27T08:53:02.309976Z', 'tmms': 1385110401310, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3285, 'rssi': -49, 'size': 20, 'data': 'QAAAAADALAICpzTROJzIGKiekH4='}]}
0:09:04.133614	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 022c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a89e907e)
0:09:04.135660	LOG	Server <---------- DUT
0:09:04.137235	LOG	Count = 35
0:09:04.663908	LOG	GPS Time updated: 1385110401961
0:09:04.665635	LOG	PULL_DATA: 02 ccf6 02 0016c001ff1025bf
0:09:04.667237	LOG	PULL_ACK: 02 ccf6 04
0:09:06.298116	LOG	First uplink received. Open reception window.
0:09:06.406928	LOG	PUSH_ACK: 02 8a26 01
0:09:06.408929	LOG	GPS Time from gateway: 1385110403598
0:09:06.409930	LOG	PUSH_DATA: Protocol version = 02, Token = 8a26, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 562709234, 'time': '2023-11-27T08:53:04.598182Z', 'tmms': 1385110403598, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3285, 'rssi': -49, 'size': 20, 'data': 'QAAAAADALAICpzTROJzIGKiekH4='}]}
0:09:06.411930	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 022c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a89e907e)
0:09:06.412929	LOG	Server <---------- DUT
0:09:06.414930	LOG	Repeated frame. It does not count
0:09:09.012790	LOG	First uplink received. Open reception window.
0:09:09.125434	LOG	PUSH_ACK: 02 b66b 01
0:09:09.127436	LOG	GPS Time from gateway: 1385110406309
0:09:09.128402	LOG	PUSH_DATA: Protocol version = 02, Token = b66b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 565420800, 'time': '2023-11-27T08:53:07.309748Z', 'tmms': 1385110406309, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3285, 'rssi': -49, 'size': 20, 'data': 'QAAAAADALQIColJieQg4cigBdDo='}]}
0:09:09.130402	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 022d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2801743a)
0:09:09.131403	LOG	Server <---------- DUT
0:09:09.133401	LOG	Count = 36
0:09:11.295995	LOG	First uplink received. Open reception window.
0:09:11.406201	LOG	PUSH_ACK: 02 f631 01
0:09:11.408166	LOG	GPS Time from gateway: 1385110408597
0:09:11.409166	LOG	PUSH_DATA: Protocol version = 02, Token = f631, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 567708771, 'time': '2023-11-27T08:53:09.597718Z', 'tmms': 1385110408597, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3285, 'rssi': -49, 'size': 20, 'data': 'QAAAAADALQIColJieQg4cigBdDo='}]}
0:09:11.411166	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 022d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2801743a)
0:09:11.412166	LOG	Server <---------- DUT
0:09:11.414166	LOG	Repeated frame. It does not count
0:09:14.010958	LOG	First uplink received. Open reception window.
0:09:14.117366	LOG	PUSH_ACK: 02 a1a6 01
0:09:14.118874	LOG	GPS Time from gateway: 1385110411309
0:09:14.120874	LOG	PUSH_DATA: Protocol version = 02, Token = a1a6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 570420598, 'time': '2023-11-27T08:53:12.309545Z', 'tmms': 1385110411309, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3285, 'rssi': -49, 'size': 20, 'data': 'QAAAAADALgICRbdF24Xo6daE9gI='}]}

0:09:14.121873	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 022e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d684f602)
0:09:14.122874	LOG	Server <---------- DUT
0:09:14.124877	LOG	Count = 37
0:09:14.752821	LOG	GPS Time updated: 1385110412052
0:09:14.754787	LOG	PULL_DATA: 02 ab58 02 0016c001ff1025bf
0:09:14.756830	LOG	PULL_ACK: 02 ab58 04
0:09:16.295470	LOG	First uplink received. Open reception window.
0:09:16.398989	LOG	PUSH_ACK: 02 f2dc 01
0:09:16.401014	LOG	GPS Time from gateway: 1385110413597
0:09:16.401983	LOG	PUSH_DATA: Protocol version = 02, Token = f2dc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 572708625, 'time': '2023-11-27T08:53:14.597571Z', 'tmms': 1385110413597, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3292, 'rssi': -49, 'size': 20, 'data': 'QAAAAADALgICRbdF24Xo6daE9gI='}]}
0:09:16.404014	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 022e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d684f602)
0:09:16.405016	LOG	Server <---------- DUT
0:09:16.407487	LOG	Repeated frame. It does not count
0:09:19.005755	LOG	First uplink received. Open reception window.
0:09:19.118115	LOG	PUSH_ACK: 02 c77a 01
0:09:19.120127	LOG	GPS Time from gateway: 1385110416309
0:09:19.122084	LOG	PUSH_DATA: Protocol version = 02, Token = c77a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 575420358, 'time': '2023-11-27T08:53:17.309304Z', 'tmms': 1385110416309, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3285, 'rssi': -49, 'size': 20, 'data': 'QAAAAADALwICYIB8VzHHpHaSCx0='}]}
0:09:19.123116	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 022f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 76920b1d)
0:09:19.124084	LOG	Server <---------- DUT
0:09:19.126093	LOG	Count = 38
0:09:21.299208	LOG	First uplink received. Open reception window.
0:09:21.410679	LOG	PUSH_ACK: 02 5ae0 01
0:09:21.412217	LOG	GPS Time from gateway: 1385110418597
0:09:21.414259	LOG	PUSH_DATA: Protocol version = 02, Token = 5ae0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 577708481, 'time': '2023-11-27T08:53:19.597425Z', 'tmms': 1385110418597, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3292, 'rssi': -49, 'size': 20, 'data': 'QAAAAADALwICYIB8VzHHpHaSCx0='}]}
0:09:21.415257	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 022f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 76920b1d)
0:09:21.417221	LOG	Server <---------- DUT
0:09:21.419222	LOG	Repeated frame. It does not count
0:09:24.003307	LOG	First uplink received. Open reception window.
0:09:24.120094	LOG	PUSH_ACK: 02 7204 01
0:09:24.121609	LOG	GPS Time from gateway: 1385110421309
0:09:24.123640	LOG	PUSH_DATA: Protocol version = 02, Token = 7204, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 580420091, 'time': '2023-11-27T08:53:22.309036Z', 'tmms': 1385110421309, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3292, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAMAIC4AaU4KATXciedDc='}]}
0:09:24.124640	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0230, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c89e7437)
0:09:24.126607	LOG	Server <---------- DUT
0:09:24.127641	LOG	Count = 39
0:09:24.833308	LOG	GPS Time updated: 1385110422139

0:09:24.834307	LOG	PULL_DATA: 02 9726 02 0016c001ff1025bf
0:09:24.836307	LOG	PULL_ACK: 02 9726 04
0:09:26.299180	LOG	First uplink received. Open reception window.
0:09:26.402761	LOG	PUSH_ACK: 02 46d0 01
0:09:26.404802	LOG	GPS Time from gateway: 1385110423597
0:09:26.405838	LOG	PUSH_DATA: Protocol version = 02, Token = 46d0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 582708512, 'time': '2023-11-27T08:53:24.597455Z', 'tmms': 1385110423597, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3292, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAMAIC4AaU4KATXciedDc='}]}
0:09:26.407823	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0230, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c89e7437)
0:09:26.408830	LOG	Server <---------- DUT
0:09:26.410804	LOG	Repeated frame. It does not count
0:09:29.009483	LOG	First uplink received. Open reception window.
0:09:29.122638	LOG	PUSH_ACK: 02 d8fb 01
0:09:29.124638	LOG	GPS Time from gateway: 1385110426308
0:09:29.126606	LOG	PUSH_DATA: Protocol version = 02, Token = d8fb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 585419904, 'time': '2023-11-27T08:53:27.308848Z', 'tmms': 1385110426308, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3292, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAMQICN03yfUmPj8R2Wmg='}]}
0:09:29.127604	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0231, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c4765a68)
0:09:29.128607	LOG	Server <---------- DUT
0:09:29.130604	LOG	Count = 40
0:09:31.292979	LOG	First uplink received. Open reception window.
0:09:31.405056	LOG	PUSH_ACK: 02 55dc 01
0:09:31.407022	LOG	GPS Time from gateway: 1385110428596
0:09:31.408021	LOG	PUSH_DATA: Protocol version = 02, Token = 55dc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 587707933, 'time': '2023-11-27T08:53:29.596875Z', 'tmms': 1385110428596, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3292, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAMQICN03yfUmPj8R2Wmg='}]}
0:09:31.410039	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0231, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c4765a68)
0:09:31.411025	LOG	Server <---------- DUT
0:09:31.413026	LOG	Repeated frame. It does not count
0:09:34.006802	LOG	First uplink received. Open reception window.
0:09:34.111493	LOG	PUSH_ACK: 02 bd21 01
0:09:34.113650	LOG	GPS Time from gateway: 1385110431308
0:09:34.115304	LOG	PUSH_DATA: Protocol version = 02, Token = bd21, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 590419639, 'time': '2023-11-27T08:53:32.308582Z', 'tmms': 1385110431308, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3292, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAMgICGqnIkNPlbRSHJ2c='}]}
0:09:34.116458	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0232, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 14872767)
0:09:34.118128	LOG	Server <---------- DUT
0:09:34.119741	LOG	Count = 41
0:09:34.913508	LOG	GPS Time updated: 1385110432215
0:09:34.914474	LOG	PULL_DATA: 02 d248 02 0016c001ff1025bf
0:09:34.916475	LOG	PULL_ACK: 02 d248 04
0:09:36.302448	LOG	First uplink received. Open reception window.
0:09:36.409031	LOG	PUSH_ACK: 02 4788 01
0:09:36.411000	LOG	GPS Time from gateway: 1385110433596

0:09:36.412000	LOG	PUSH_DATA: Protocol version = 02, Token = 4788, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 592707947, 'time': '2023-11-27T08:53:34.596890Z', 'tmms': 1385110433596, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3308, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAMgICGqnIkNPlbRSHJ2c='}]}
0:09:36.414005	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0232, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 14872767)
0:09:36.415004	LOG	Server <---------- DUT
0:09:36.417005	LOG	Repeated frame. It does not count
0:09:39.010325	LOG	First uplink received. Open reception window.
0:09:39.114232	LOG	PUSH_ACK: 02 b32e 01
0:09:39.116200	LOG	GPS Time from gateway: 1385110436308
0:09:39.117205	LOG	PUSH_DATA: Protocol version = 02, Token = b32e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 595419410, 'time': '2023-11-27T08:53:37.308352Z', 'tmms': 1385110436308, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3292, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAMwICHNFG+SAKYaE2yZ8='}]}
0:09:39.119209	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0233, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a136c99f)
0:09:39.120205	LOG	Server <---------- DUT
0:09:39.122205	LOG	Count = 42
0:09:41.298711	LOG	First uplink received. Open reception window.
0:09:41.409105	LOG	PUSH_ACK: 02 5f0e 01
0:09:41.411073	LOG	GPS Time from gateway: 1385110438597
0:09:41.412105	LOG	PUSH_DATA: Protocol version = 02, Token = 5f0e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 597708551, 'time': '2023-11-27T08:53:39.597493Z', 'tmms': 1385110438597, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3292, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAMwICHNFG+SAKYaE2yZ8='}]}
0:09:41.414106	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0233, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a136c99f)
0:09:41.415107	LOG	Server <---------- DUT
0:09:41.417074	LOG	Repeated frame. It does not count
0:09:45.003110	LOG	GPS Time updated: 1385110442302
0:09:45.005110	LOG	PULL_DATA: 02 4f0a 02 0016c001ff1025bf
0:09:45.006112	LOG	PULL_ACK: 02 4f0a 04
0:09:45.407258	LOG	First uplink received. Open reception window.
0:09:45.508143	LOG	PUSH_ACK: 02 6641 01
0:09:45.510119	LOG	GPS Time from gateway: 1385110442707
0:09:45.512110	LOG	PUSH_DATA: Protocol version = 02, Token = 6641, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 601818163, 'time': '2023-11-27T08:53:43.707104Z', 'tmms': 1385110442707, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3308, 'rssi': -49, 'size': 20, 'data': 'QAAAAADANAICvWmpGOHMCil/JY4='}]}
0:09:45.513141	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0234, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 297f258e)
0:09:45.514142	LOG	Server <---------- DUT
0:09:45.516111	LOG	Count = 43
0:09:47.691271	LOG	First uplink received. Open reception window.
0:09:47.804876	LOG	PUSH_ACK: 02 e72e 01
0:09:47.806877	LOG	GPS Time from gateway: 1385110444996
0:09:47.807913	LOG	PUSH_DATA: Protocol version = 02, Token = e72e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 604107090, 'time': '2023-11-27T08:53:45.996029Z', 'tmms': 1385110444996, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.0, 'foff': -3308, 'rssi': -49, 'size': 20, 'data': 'QAAAAADANAICvWmpGOHMCil/JY4='}]}

0:09:47.809886	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0234, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 297f258e)
0:09:47.810910	LOG	Server <---------- DUT
0:09:47.812879	LOG	Repeated frame. It does not count
0:09:50.179505	LOG	First uplink received. Open reception window.
0:09:50.282071	LOG	PUSH_ACK: 02 bc41 01
0:09:50.284071	LOG	GPS Time from gateway: 1385110447483
0:09:50.285075	LOG	PUSH_DATA: Protocol version = 02, Token = bc41, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 606594637, 'time': '2023-11-27T08:53:48.483577Z', 'tmms': 1385110447483, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3308, 'rssi': -49, 'size': 20, 'data': 'QAAAAADANQICjSygAKhoRCs2cgY='}]}
0:09:50.287108	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0235, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2b367206)
0:09:50.288105	LOG	Server <---------- DUT
0:09:50.290072	LOG	Count = 44
0:09:52.474567	LOG	First uplink received. Open reception window.
0:09:52.581219	LOG	PUSH_ACK: 02 0e2e 01
0:09:52.583187	LOG	GPS Time from gateway: 1385110449772
0:09:52.584187	LOG	PUSH_DATA: Protocol version = 02, Token = 0e2e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 608883003, 'time': '2023-11-27T08:53:50.771943Z', 'tmms': 1385110449772, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3308, 'rssi': -49, 'size': 20, 'data': 'QAAAAADANQICjSygAKhoRCs2cgY='}]}
0:09:52.586201	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0235, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2b367206)
0:09:52.587186	LOG	Server <---------- DUT
0:09:52.589187	LOG	Repeated frame. It does not count
0:09:55.093621	LOG	GPS Time updated: 1385110452391
0:09:55.094620	LOG	PULL_DATA: 02 45a5 02 0016c001ff1025bf
0:09:55.096622	LOG	PULL_ACK: 02 45a5 04
0:09:55.181204	LOG	First uplink received. Open reception window.
0:09:55.288815	LOG	PUSH_ACK: 02 558b 01
0:09:55.290782	LOG	GPS Time from gateway: 1385110452483
0:09:55.291782	LOG	PUSH_DATA: Protocol version = 02, Token = 558b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 611594452, 'time': '2023-11-27T08:53:53.483391Z', 'tmms': 1385110452483, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.8, 'foff': -3292, 'rssi': -49, 'size': 20, 'data': 'QAAAAADANgICI101zZ8EXCzbR7I='}]}
0:09:55.293799	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0236, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2cdb47b2)
0:09:55.294782	LOG	Server <---------- DUT
0:09:55.296784	LOG	Count = 45
0:09:57.477143	LOG	First uplink received. Open reception window.
0:09:57.588291	LOG	PUSH_ACK: 02 752d 01
0:09:57.590260	LOG	GPS Time from gateway: 1385110454772
0:09:57.591258	LOG	PUSH_DATA: Protocol version = 02, Token = 752d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 613882991, 'time': '2023-11-27T08:53:55.771930Z', 'tmms': 1385110454772, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3308, 'rssi': -49, 'size': 20, 'data': 'QAAAAADANgICI101zZ8EXCzbR7I='}]}
0:09:57.593259	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0236, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2cdb47b2)
0:09:57.594259	LOG	Server <---------- DUT
0:09:57.596260	LOG	Repeated frame. It does not count
0:10:00.189681	LOG	First uplink received. Open reception window.

0:10:00.304258	LOG	PUSH_ACK: 02 86ca 01
0:10:00.306224	LOG	GPS Time from gateway: 1385110457483
0:10:00.307223	LOG	PUSH_DATA: Protocol version = 02, Token = 86ca, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 616594222, 'time': '2023-11-27T08:53:58.483160Z', 'tmms': 1385110457483, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3308, 'rssi': -49, 'size': 20, 'data': 'QAAAAADANwICDysnoDno2IIGvXw='}]}
0:10:00.309224	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0237, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8206bd7c)
0:10:00.310223	LOG	Server <---------- DUT
0:10:00.312237	LOG	Count = 46
0:10:02.473491	LOG	First uplink received. Open reception window.
0:10:02.585148	LOG	PUSH_ACK: 02 0944 01
0:10:02.587118	LOG	GPS Time from gateway: 1385110459771
0:10:02.588154	LOG	PUSH_DATA: Protocol version = 02, Token = 0944, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 618882892, 'time': '2023-11-27T08:54:00.771830Z', 'tmms': 1385110459771, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3308, 'rssi': -49, 'size': 20, 'data': 'QAAAAADANwICDysnoDno2IIGvXw='}]}
0:10:02.590151	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0237, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8206bd7c)
0:10:02.591150	LOG	Server <---------- DUT
0:10:02.593149	LOG	Repeated frame. It does not count
0:10:05.173763	LOG	GPS Time updated: 1385110462472
0:10:05.175794	LOG	PULL_DATA: 02 ebdb 02 0016c001ff1025bf
0:10:05.176794	LOG	PULL_ACK: 02 ebdb 04
0:10:05.185762	LOG	First uplink received. Open reception window.
0:10:05.289137	LOG	PUSH_ACK: 02 8c32 01
0:10:05.291137	LOG	GPS Time from gateway: 1385110462482
0:10:05.292137	LOG	PUSH_DATA: Protocol version = 02, Token = 8c32, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 621593957, 'time': '2023-11-27T08:54:03.482894Z', 'tmms': 1385110462482, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3308, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAOAICp9GfWSlV/Nrekks='}]}
0:10:05.294155	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0238, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: dade924b)
0:10:05.295139	LOG	Server <---------- DUT
0:10:05.297106	LOG	Count = 47
0:10:07.473079	LOG	First uplink received. Open reception window.
0:10:07.585713	LOG	PUSH_ACK: 02 643f 01
0:10:07.587714	LOG	GPS Time from gateway: 1385110464770
0:10:07.588715	LOG	PUSH_DATA: Protocol version = 02, Token = 643f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 623881963, 'time': '2023-11-27T08:54:05.770900Z', 'tmms': 1385110464770, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3308, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAOAICp9GfWSlV/Nrekks='}]}
0:10:07.590680	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0238, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: dade924b)
0:10:07.591714	LOG	Server <---------- DUT
0:10:07.593710	LOG	Repeated frame. It does not count
0:10:10.181518	LOG	First uplink received. Open reception window.
0:10:10.286708	LOG	PUSH_ACK: 02 e8bf 01
0:10:10.288675	LOG	GPS Time from gateway: 1385110467482
0:10:10.289678	LOG	PUSH_DATA: Protocol version = 02, Token = e8bf, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 626593738, 'time': '2023-11-27T08:54:08.482674Z', 'tmms': 1385110467482, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3292, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAOQICoC4nyTaVI0wu4ok='}]}
0:10:10.291713	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0239, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4c2ee289)
0:10:10.292705	LOG	Server <---------- DUT
0:10:10.294689	LOG	Count = 48
0:10:12.466403	LOG	First uplink received. Open reception window.
0:10:12.567555	LOG	PUSH_ACK: 02 de37 01
0:10:12.569521	LOG	GPS Time from gateway: 1385110469770
0:10:12.571521	LOG	PUSH_DATA: Protocol version = 02, Token = de37, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 628881619, 'time': '2023-11-27T08:54:10.770555Z', 'tmms': 1385110469770, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3308, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAOQICoC4nyTaVI0wu4ok='}]}
0:10:12.572521	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0239, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4c2ee289)
0:10:12.574521	LOG	Server <---------- DUT
0:10:12.575521	LOG	Repeated frame. It does not count
0:10:15.181524	LOG	First uplink received. Open reception window.
0:10:15.254562	LOG	PULL_DATA: 02 78b1 02 0016c001ff1025bf
0:10:15.255562	LOG	PULL_ACK: 02 78b1 04
0:10:15.288205	LOG	PUSH_ACK: 02 ca45 01
0:10:15.290208	LOG	GPS Time from gateway: 1385110472482
0:10:15.291207	LOG	PUSH_DATA: Protocol version = 02, Token = ca45, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 631593472, 'time': '2023-11-27T08:54:13.482407Z', 'tmms': 1385110472482, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3292, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAOgICNpne0U1tnap5GXs='}]}
0:10:15.293239	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 023a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: aa79197b)
0:10:15.294240	LOG	Server <---------- DUT
0:10:15.296240	LOG	Count = 49
0:10:17.467310	LOG	First uplink received. Open reception window.
0:10:17.568551	LOG	PUSH_ACK: 02 7334 01
0:10:17.570520	LOG	GPS Time from gateway: 1385110474770
0:10:17.572023	LOG	PUSH_DATA: Protocol version = 02, Token = 7334, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 633881737, 'time': '2023-11-27T08:54:15.770672Z', 'tmms': 1385110474770, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3308, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAOgICNpne0U1tnap5GXs='}]}
0:10:17.573028	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 023a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: aa79197b)
0:10:17.575028	LOG	Server <---------- DUT
0:10:17.576028	LOG	Repeated frame. It does not count
0:10:20.179721	LOG	First uplink received. Open reception window.
0:10:20.284238	LOG	PUSH_ACK: 02 f281 01
0:10:20.286206	LOG	GPS Time from gateway: 1385110477482
0:10:20.287205	LOG	PUSH_DATA: Protocol version = 02, Token = f281, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 636593248, 'time': '2023-11-27T08:54:18.482181Z', 'tmms': 1385110477482, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3292, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAOwIC3eMsNpfmEEEDZv8='}]}
0:10:20.289206	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 023b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 410366ff)
0:10:20.290205	LOG	Server <---------- DUT
0:10:20.292206	LOG	Count = 50

0:10:22.472177	LOG	First uplink received. Open reception window.
0:10:22.578417	LOG	PUSH_ACK: 02 6337 01
0:10:22.580384	LOG	GPS Time from gateway: 1385110479770
0:10:22.581386	LOG	PUSH_DATA: Protocol version = 02, Token = 6337, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 638881314, 'time': '2023-11-27T08:54:20.770248Z', 'tmms': 1385110479770, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3292, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAOwIC3eMsNpfmEEEDZv8='}]}
0:10:22.583383	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 023b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 410366ff)
0:10:22.584384	LOG	Server <---------- DUT
0:10:22.586417	LOG	Repeated frame. It does not count
0:10:25.182288	LOG	First uplink received. Open reception window.
0:10:25.295472	LOG	PUSH_ACK: 02 26b8 01
0:10:25.297467	LOG	GPS Time from gateway: 1385110482481
0:10:25.298473	LOG	PUSH_DATA: Protocol version = 02, Token = 26b8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 641593012, 'time': '2023-11-27T08:54:23.481944Z', 'tmms': 1385110482481, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3292, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAPAICdPMZDz4C9flPNQA='}]}
0:10:25.300439	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 023c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f94f3500)
0:10:25.301438	LOG	Server <---------- DUT
0:10:25.303439	LOG	Count = 51
0:10:25.335534	LOG	GPS Time updated: 1385110482633
0:10:25.339519	LOG	PULL_DATA: 02 c39b 02 0016c001ff1025bf
0:10:25.343563	LOG	PULL_ACK: 02 c39b 04
0:10:27.468085	LOG	First uplink received. Open reception window.
0:10:27.576602	LOG	PUSH_ACK: 02 e549 01
0:10:27.578603	LOG	GPS Time from gateway: 1385110484770
0:10:27.579605	LOG	PUSH_DATA: Protocol version = 02, Token = e549, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 643881148, 'time': '2023-11-27T08:54:25.770081Z', 'tmms': 1385110484770, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3308, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAPAICdPMZDz4C9flPNQA='}]}
0:10:27.581603	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 023c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f94f3500)
0:10:27.583111	LOG	Server <---------- DUT
0:10:27.584111	LOG	Repeated frame. It does not count
0:10:30.181742	LOG	First uplink received. Open reception window.
0:10:30.292757	LOG	PUSH_ACK: 02 65ef 01
0:10:30.294757	LOG	GPS Time from gateway: 1385110487481
0:10:30.296759	LOG	PUSH_DATA: Protocol version = 02, Token = 65ef, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 646592797, 'time': '2023-11-27T08:54:28.481728Z', 'tmms': 1385110487481, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3292, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAPQICvx7LOxkU74QOqdk='}]}
0:10:30.297757	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 023d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 840ea9d9)
0:10:30.299758	LOG	Server <---------- DUT
0:10:30.301758	LOG	Count = 52
0:10:32.466935	LOG	First uplink received. Open reception window.
0:10:32.572143	LOG	PUSH_ACK: 02 8d50 01
0:10:32.574143	LOG	GPS Time from gateway: 1385110489770
0:10:32.576128	LOG	PUSH_DATA: Protocol version = 02, Token = 8d50, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 648881090, 'time': '2023-11-27T08:54:30.770022Z',

		'tmms': 1385110489770, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3308, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAPQICvx7LOxkU74QOqdk='}]}
0:10:32.577110	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 023d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 840ea9d9)
0:10:32.579111	LOG	Server <---------- DUT
0:10:32.580109	LOG	Repeated frame. It does not count
0:10:35.182273	LOG	First uplink received. Open reception window.
0:10:35.291507	LOG	PUSH_ACK: 02 ca19 01
0:10:35.293475	LOG	GPS Time from gateway: 1385110492481
0:10:35.294490	LOG	PUSH_DATA: Protocol version = 02, Token = ca19, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 651592563, 'time': '2023-11-27T08:54:33.481495Z', 'tmms': 1385110492481, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.0, 'foff': -3292, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAPgICwVQjLM5wqnq02Rk='}]}
0:10:35.296475	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 023e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7ab4d919)
0:10:35.297474	LOG	Server <---------- DUT
0:10:35.299475	LOG	Count = 53
0:10:35.424088	LOG	GPS Time updated: 1385110492723
0:10:35.426089	LOG	PULL_DATA: 02 822e 02 0016c001ff1025bf
0:10:35.427087	LOG	PULL_ACK: 02 822e 04
0:10:37.473979	LOG	First uplink received. Open reception window.
0:10:37.587487	LOG	PUSH_ACK: 02 58e3 01
0:10:37.589456	LOG	GPS Time from gateway: 1385110494769
0:10:37.590475	LOG	PUSH_DATA: Protocol version = 02, Token = 58e3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 653880544, 'time': '2023-11-27T08:54:35.769475Z', 'tmms': 1385110494769, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3308, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAPgICwVQjLM5wqnq02Rk='}]}
0:10:37.592013	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 023e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7ab4d919)
0:10:37.594018	LOG	Server <---------- DUT
0:10:37.595017	LOG	Repeated frame. It does not count
0:10:40.181767	LOG	First uplink received. Open reception window.
0:10:40.291412	LOG	PUSH_ACK: 02 a2dd 01
0:10:40.293379	LOG	GPS Time from gateway: 1385110497481
0:10:40.294884	LOG	PUSH_DATA: Protocol version = 02, Token = a2dd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 656592342, 'time': '2023-11-27T08:54:38.481273Z', 'tmms': 1385110497481, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3308, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAPwIC/G9bFZDIrvh2ZiE='}]}
0:10:40.296890	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 023f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f8766621)
0:10:40.297889	LOG	Server <---------- DUT
0:10:40.299890	LOG	Count = 54
0:10:42.472487	LOG	First uplink received. Open reception window.
0:10:42.587763	LOG	PUSH_ACK: 02 776c 01
0:10:42.589727	LOG	GPS Time from gateway: 1385110499769
0:10:42.590729	LOG	PUSH_DATA: Protocol version = 02, Token = 776c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 658880536, 'time': '2023-11-27T08:54:40.769466Z', 'tmms': 1385110499769, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3308, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAPwIC/G9bFZDIrvh2ZiE='}]}
0:10:42.592738	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 023f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f8766621)

0:10:42.593763	LOG	Server <---------- DUT
0:10:42.595763	LOG	Repeated frame. It does not count
0:10:45.177997	LOG	First uplink received. Open reception window.
0:10:45.292686	LOG	PUSH_ACK: 02 22f0 01
0:10:45.294688	LOG	GPS Time from gateway: 1385110502481
0:10:45.295661	LOG	PUSH_DATA: Protocol version = 02, Token = 22f0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 661592073, 'time': '2023-11-27T08:54:43.481003Z', 'tmms': 1385110502481, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3308, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAQAICRUPSPRs/GyfHxGo='}]}
0:10:45.297653	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0240, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 27c7c46a)
0:10:45.298652	LOG	Server <---------- DUT
0:10:45.300156	LOG	Count = 55
0:10:45.503647	LOG	GPS Time updated: 1385110502807
0:10:45.505646	LOG	PULL_DATA: 02 1d95 02 0016c001ff1025bf
0:10:45.506616	LOG	PULL_ACK: 02 1d95 04
0:10:47.474724	LOG	First uplink received. Open reception window.
0:10:47.589223	LOG	PUSH_ACK: 02 240f 01
0:10:47.591191	LOG	GPS Time from gateway: 1385110504769
0:10:47.592191	LOG	PUSH_DATA: Protocol version = 02, Token = 240f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 663880826, 'time': '2023-11-27T08:54:45.769754Z', 'tmms': 1385110504769, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3308, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAQAICRUPSPRs/GyfHxGo='}]}
0:10:47.594191	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0240, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 27c7c46a)
0:10:47.595191	LOG	Server <---------- DUT
0:10:47.597192	LOG	Repeated frame. It does not count
0:10:50.177647	LOG	First uplink received. Open reception window.
0:10:50.278928	LOG	PUSH_ACK: 02 1687 01
0:10:50.280897	LOG	GPS Time from gateway: 1385110507480
0:10:50.281929	LOG	PUSH_DATA: Protocol version = 02, Token = 1687, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 666591839, 'time': '2023-11-27T08:54:48.480768Z', 'tmms': 1385110507480, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3308, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAQQICR3+oeBCAW0rxHlQ='}]}
0:10:50.283929	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0241, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4af11e54)
0:10:50.284929	LOG	Server <---------- DUT
0:10:50.286897	LOG	Count = 56
0:10:52.468711	LOG	First uplink received. Open reception window.
0:10:52.577318	LOG	PUSH_ACK: 02 473c 01
0:10:52.579286	LOG	GPS Time from gateway: 1385110509769
0:10:52.580286	LOG	PUSH_DATA: Protocol version = 02, Token = 473c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 668880497, 'time': '2023-11-27T08:54:50.769424Z', 'tmms': 1385110509769, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3308, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAQQICR3+oeBCAW0rxHlQ='}]}
0:10:52.582286	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0241, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4af11e54)
0:10:52.583285	LOG	Server <---------- DUT
0:10:52.585286	LOG	Repeated frame. It does not count
0:10:55.181704	LOG	First uplink received. Open reception window.
0:10:55.282315	LOG	PUSH_ACK: 02 3f0a 01
0:10:55.284283	LOG	GPS Time from gateway: 1385110512480

0:10:55.285316	LOG	PUSH_DATA: Protocol version = 02, Token = 3f0a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 671591589, 'time': '2023-11-27T08:54:53.480517Z', 'tmms': 1385110512480, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3308, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAQgIC59ALo46TWGCzY5U='}]}
0:10:55.287316	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0242, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 60b36395)
0:10:55.288317	LOG	Server <---------- DUT
0:10:55.290284	LOG	Count = 57
0:10:55.584435	LOG	GPS Time updated: 1385110512883
0:10:55.585435	LOG	PULL_DATA: 02 d725 02 0016c001ff1025bf
0:10:55.587439	LOG	PULL_ACK: 02 d725 04
0:10:57.467360	LOG	First uplink received. Open reception window.
0:10:57.579009	LOG	PUSH_ACK: 02 533c 01
0:10:57.580974	LOG	GPS Time from gateway: 1385110514769
0:10:57.581976	LOG	PUSH_DATA: Protocol version = 02, Token = 533c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 673880106, 'time': '2023-11-27T08:54:55.769032Z', 'tmms': 1385110514769, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3308, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAQgIC59ALo46TWGCzY5U='}]}
0:10:57.583990	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0242, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 60b36395)
0:10:57.584975	LOG	Server <---------- DUT
0:10:57.586976	LOG	Repeated frame. It does not count
0:11:00.184379	LOG	First uplink received. Open reception window.
0:11:00.299896	LOG	PUSH_ACK: 02 14e1 01
0:11:00.301898	LOG	GPS Time from gateway: 1385110517480
0:11:00.303898	LOG	PUSH_DATA: Protocol version = 02, Token = 14e1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 676591388, 'time': '2023-11-27T08:54:58.480315Z', 'tmms': 1385110517480, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3292, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAQwIC7zGpSU+6P7M7HUw='}]}
0:11:00.304896	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0243, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b33b1d4c)
0:11:00.306897	LOG	Server <---------- DUT
0:11:00.308898	LOG	Count = 58
0:11:02.472525	LOG	First uplink received. Open reception window.
0:11:02.581134	LOG	PUSH_ACK: 02 8cde 01
0:11:02.583101	LOG	GPS Time from gateway: 1385110519768
0:11:02.584103	LOG	PUSH_DATA: Protocol version = 02, Token = 8cde, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 678879662, 'time': '2023-11-27T08:55:00.768589Z', 'tmms': 1385110519768, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3308, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAQwIC7zGpSU+6P7M7HUw='}]}
0:11:02.586101	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0243, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b33b1d4c)
0:11:02.587136	LOG	Server <---------- DUT
0:11:02.589115	LOG	Repeated frame. It does not count
0:11:05.665023	LOG	GPS Time updated: 1385110522968
0:11:05.666022	LOG	PULL_DATA: 02 fa0f 02 0016c001ff1025bf
0:11:05.668023	LOG	PULL_ACK: 02 fa0f 04
0:11:06.578187	LOG	First uplink received. Open reception window.
0:11:06.692805	LOG	PUSH_ACK: 02 0d53 01
0:11:06.694806	LOG	GPS Time from gateway: 1385110523878
0:11:06.695807	LOG	PUSH_DATA: Protocol version = 02, Token = 0d53, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 682989866, 'time': '2023-11-27T08:55:04.878792Z',

		'tmms': 1385110523878, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3292, 'rssi': -50, 'size': 20, 'data': 'QAAAAADARAICRCEvQlhbEB8DbnQ='}]}
0:11:06.697806	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0244, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1f036e74)
0:11:06.698842	LOG	Server <---------- DUT
0:11:06.700808	LOG	Count = 59
0:11:08.864467	LOG	First uplink received. Open reception window.
0:11:08.975385	LOG	PUSH_ACK: 02 f20c 01
0:11:08.977386	LOG	GPS Time from gateway: 1385110526166
0:11:08.979354	LOG	PUSH_DATA: Protocol version = 02, Token = f20c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 685277803, 'time': '2023-11-27T08:55:07.166728Z', 'tmms': 1385110526166, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3292, 'rssi': -50, 'size': 20, 'data': 'QAAAAADARAICRCEvQlhbEB8DbnQ='}]}
0:11:08.980354	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0244, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1f036e74)
0:11:08.982353	LOG	Server <---------- DUT
0:11:08.984353	LOG	Repeated frame. It does not count
0:11:11.357084	LOG	First uplink received. Open reception window.
0:11:11.467426	LOG	PUSH_ACK: 02 e90b 01
0:11:11.469391	LOG	GPS Time from gateway: 1385110528654
0:11:11.471391	LOG	PUSH_DATA: Protocol version = 02, Token = e90b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 687765741, 'time': '2023-11-27T08:55:09.654666Z', 'tmms': 1385110528654, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3292, 'rssi': -50, 'size': 20, 'data': 'QAAAAADARQICc8373UESDGdAO5I='}]}
0:11:11.472425	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0245, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 67403b92)
0:11:11.473422	LOG	Server <---------- DUT
0:11:11.475392	LOG	Count = 60
0:11:13.641541	LOG	First uplink received. Open reception window.
0:11:13.751680	LOG	PUSH_ACK: 02 010c 01
0:11:13.753682	LOG	GPS Time from gateway: 1385110530942
0:11:13.754681	LOG	PUSH_DATA: Protocol version = 02, Token = 010c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 690053766, 'time': '2023-11-27T08:55:11.942691Z', 'tmms': 1385110530942, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3292, 'rssi': -49, 'size': 20, 'data': 'QAAAAADARQICc8373UESDGdAO5I='}]}
0:11:13.756649	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0245, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 67403b92)
0:11:13.757648	LOG	Server <---------- DUT
0:11:13.759652	LOG	Repeated frame. It does not count
0:11:15.744378	LOG	GPS Time updated: 1385110533045
0:11:15.745346	LOG	PULL_DATA: 02 fb1e 02 0016c001ff1025bf
0:11:15.747346	LOG	PULL_ACK: 02 fb1e 04
0:11:16.357650	LOG	First uplink received. Open reception window.
0:11:16.461912	LOG	PUSH_ACK: 02 a11f 01
0:11:16.463493	LOG	GPS Time from gateway: 1385110533654
0:11:16.465496	LOG	PUSH_DATA: Protocol version = 02, Token = a11f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 692765553, 'time': '2023-11-27T08:55:14.654477Z', 'tmms': 1385110533654, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3285, 'rssi': -49, 'size': 20, 'data': 'QAAAAADARgICi0VZMuOszhSaPfA='}]}
0:11:16.466495	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0246, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 149a3df0)

0:11:16.468482	LOG	Server <---------- DUT
0:11:16.470462	LOG	Count = 61
0:11:18.644317	LOG	First uplink received. Open reception window.
0:11:18.759582	LOG	PUSH_ACK: 02 2eb8 01
0:11:18.761550	LOG	GPS Time from gateway: 1385110535943
0:11:18.762550	LOG	PUSH_DATA: Protocol version = 02, Token = 2eb8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 695054135, 'time': '2023-11-27T08:55:16.943059Z', 'tmms': 1385110535943, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3292, 'rssi': -49, 'size': 20, 'data': 'QAAAAADARgICi0VZMuOszhSaPfA='}]}
0:11:18.764551	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0246, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 149a3df0)
0:11:18.765550	LOG	Server <---------- DUT
0:11:18.767550	LOG	Repeated frame. It does not count
0:11:21.351698	LOG	First uplink received. Open reception window.
0:11:21.463415	LOG	PUSH_ACK: 02 a775 01
0:11:21.464988	LOG	GPS Time from gateway: 1385110538654
0:11:21.466957	LOG	PUSH_DATA: Protocol version = 02, Token = a775, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 697765293, 'time': '2023-11-27T08:55:19.654216Z', 'tmms': 1385110538654, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3285, 'rssi': -49, 'size': 20, 'data': 'QAAAAADARwICfPhyY1cWNBhsmJQ='}]}
0:11:21.467993	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0247, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 186c9894)
0:11:21.468989	LOG	Server <---------- DUT
0:11:21.470957	LOG	Count = 62
0:11:23.644509	LOG	First uplink received. Open reception window.
0:11:23.750452	LOG	PUSH_ACK: 02 f4e6 01
0:11:23.752419	LOG	GPS Time from gateway: 1385110540942
0:11:23.753420	LOG	PUSH_DATA: Protocol version = 02, Token = f4e6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 700053998, 'time': '2023-11-27T08:55:21.942921Z', 'tmms': 1385110540942, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3292, 'rssi': -49, 'size': 20, 'data': 'QAAAAADARwICfPhyY1cWNBhsmJQ='}]}
0:11:23.755419	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0247, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 186c9894)
0:11:23.756419	LOG	Server <---------- DUT
0:11:23.758420	LOG	Repeated frame. It does not count
0:11:25.824586	LOG	GPS Time updated: 1385110543122
0:11:25.825586	LOG	PULL_DATA: 02 7fcc 02 0016c001ff1025bf
0:11:25.827624	LOG	PULL_ACK: 02 7fcc 04
0:11:26.356943	LOG	First uplink received. Open reception window.
0:11:26.472260	LOG	PUSH_ACK: 02 0bd2 01
0:11:26.474229	LOG	GPS Time from gateway: 1385110543653
0:11:26.475229	LOG	PUSH_DATA: Protocol version = 02, Token = 0bd2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 702765036, 'time': '2023-11-27T08:55:24.653958Z', 'tmms': 1385110543653, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3285, 'rssi': -50, 'size': 20, 'data': 'QAAAAADASAIChNrOTaDREshpu6I='}]}
0:11:26.477229	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0248, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c869bba2)
0:11:26.478229	LOG	Server <---------- DUT
0:11:26.480229	LOG	Count = 63
0:11:28.643210	LOG	First uplink received. Open reception window.
0:11:28.754952	LOG	PUSH_ACK: 02 081f 01
0:11:28.756921	LOG	GPS Time from gateway: 1385110545941

0:11:28.757956	LOG	PUSH_DATA: Protocol version = 02, Token = 081f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 705053007, 'time': '2023-11-27T08:55:26.941929Z', 'tmms': 1385110545941, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3285, 'rssi': -50, 'size': 20, 'data': 'QAAAAADASAIChNrOTaDREshpu6I='}]}
0:11:28.759944	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0248, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c869bba2)
0:11:28.760953	LOG	Server <---------- DUT
0:11:28.762922	LOG	Repeated frame. It does not count
0:11:31.359816	LOG	First uplink received. Open reception window.
0:11:31.473116	LOG	PUSH_ACK: 02 b395 01
0:11:31.475106	LOG	GPS Time from gateway: 1385110548653
0:11:31.476122	LOG	PUSH_DATA: Protocol version = 02, Token = b395, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 707764764, 'time': '2023-11-27T08:55:29.653685Z', 'tmms': 1385110548653, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3277, 'rssi': -50, 'size': 20, 'data': 'QAAAAADASQICg4Ic8Rg4vCJF8tc='}]}
0:11:31.478084	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0249, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2245f2d7)
0:11:31.479083	LOG	Server <---------- DUT
0:11:31.481135	LOG	Count = 64
0:11:33.646713	LOG	First uplink received. Open reception window.
0:11:33.758395	LOG	PUSH_ACK: 02 feae 01
0:11:33.760393	LOG	GPS Time from gateway: 1385110550942
0:11:33.761392	LOG	PUSH_DATA: Protocol version = 02, Token = feae, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 710053419, 'time': '2023-11-27T08:55:31.942340Z', 'tmms': 1385110550942, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3285, 'rssi': -50, 'size': 20, 'data': 'QAAAAADASQICg4Ic8Rg4vCJF8tc='}]}
0:11:33.763363	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0249, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2245f2d7)
0:11:33.764393	LOG	Server <---------- DUT
0:11:33.766362	LOG	Repeated frame. It does not count
0:11:35.904800	LOG	GPS Time updated: 1385110553199
0:11:35.905830	LOG	PULL_DATA: 02 a40b 02 0016c001ff1025bf
0:11:35.907833	LOG	PULL_ACK: 02 a40b 04
0:11:36.398544	LOG	First uplink received. Open reception window.
0:11:36.509809	LOG	PUSH_ACK: 02 0196 01
0:11:36.511778	LOG	GPS Time from gateway: 1385110553699
0:11:36.512815	LOG	PUSH_DATA: Protocol version = 02, Token = 0196, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 712810883, 'time': '2023-11-27T08:55:34.699803Z', 'tmms': 1385110553699, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 15.0, 'foff': -3285, 'rssi': -49, 'size': 20, 'data': 'QAAAAADASgICYE7cJBV8WmzGM8U='}]}
0:11:36.514826	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 024a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6cc633c5)
0:11:36.515809	LOG	Server <---------- DUT
0:11:36.517779	LOG	Count = 65
0:11:36.518810	LOG	Waiting for the retransmissions
0:11:38.736384	LOG	First uplink received. Open reception window.
0:11:38.849207	LOG	PUSH_ACK: 02 1794 01
0:11:38.851176	LOG	GPS Time from gateway: 1385110556035
0:11:38.852177	LOG	PUSH_DATA: Protocol version = 02, Token = 1794, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 715146492, 'time': '2023-11-27T08:55:37.035412Z', 'tmms': 1385110556035, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 16.0, 'foff': -3285, 'rssi': -50, 'size': 20, 'data': 'QAAAAADASgICYE7cJBV8WmzGM8U='}]}
0:11:38.853682	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 024a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6cc633c5)
0:11:38.855687	LOG	Server <---------- DUT
0:11:38.882686	LOG	Expected number of uplink messages have been received
0:11:38.887529	LOG	Step 09
0:11:38.891037	LOG	Test adaptive data rate control in frame header process starts
0:11:41.401622	LOG	First uplink received. Open reception window.
0:11:41.508232	LOG	PUSH_ACK: 02 9f2b 01
0:11:41.510108	LOG	GPS Time from gateway: 1385110558699
0:11:41.511808	LOG	PUSH_DATA: Protocol version = 02, Token = 9f2b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 717810652, 'time': '2023-11-27T08:55:39.699571Z', 'tmms': 1385110558699, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 15.0, 'foff': -3277, 'rssi': -49, 'size': 20, 'data': 'QAAAAADASwICXnAisecQDSn40YQ='}]}
0:11:41.513469	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 024b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 29f8d184)
0:11:41.514474	LOG	Server <---------- DUT
0:11:41.516475	LOG	Count = 2
0:11:43.736212	LOG	First uplink received. Open reception window.
0:11:43.839963	LOG	PUSH_ACK: 02 0c9a 01
0:11:43.841964	LOG	GPS Time from gateway: 1385110561034
0:11:43.842966	LOG	PUSH_DATA: Protocol version = 02, Token = 0c9a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 720145385, 'time': '2023-11-27T08:55:42.034303Z', 'tmms': 1385110561034, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 15.8, 'foff': -3285, 'rssi': -49, 'size': 20, 'data': 'QAAAAADASwICXnAisecQDSn40YQ='}]}
0:11:43.844968	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 024b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 29f8d184)
0:11:43.845970	LOG	Server <---------- DUT
0:11:43.847970	LOG	Repeated frame. It does not count
0:11:45.984253	LOG	GPS Time updated: 1385110563282
0:11:45.986218	LOG	PULL_DATA: 02 4aae 02 0016c001ff1025bf
0:11:45.988219	LOG	PULL_ACK: 02 4aae 04
0:11:46.396671	LOG	First uplink received. Open reception window.
0:11:46.498554	LOG	PUSH_ACK: 02 ba78 01
0:11:46.500554	LOG	GPS Time from gateway: 1385110563699
0:11:46.501556	LOG	PUSH_DATA: Protocol version = 02, Token = ba78, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 722810424, 'time': '2023-11-27T08:55:44.699341Z', 'tmms': 1385110563699, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.5, 'foff': -3277, 'rssi': -49, 'size': 20, 'data': 'QAAAAADATAIC9dqf9D1kbQ3rhHA='}]}
0:11:46.503555	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 024c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0deb8470)
0:11:46.504555	LOG	Server <---------- DUT
0:11:46.506588	LOG	Count = 3
0:11:48.733993	LOG	First uplink received. Open reception window.
0:11:48.840734	LOG	PUSH_ACK: 02 6661 01
0:11:48.842695	LOG	GPS Time from gateway: 1385110566035
0:11:48.843695	LOG	PUSH_DATA: Protocol version = 02, Token = 6661, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 725146099, 'time': '2023-11-27T08:55:47.035017Z', 'tmms': 1385110566035, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 15.0, 'foff': -3285, 'rssi': -49, 'size': 20, 'data': 'QAAAAADATAIC9dqf9D1kbQ3rhHA='}]}

0:11:48.845696	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 024c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0deb8470)
0:11:48.846696	LOG	Server <---------- DUT
0:11:48.848697	LOG	Repeated frame. It does not count
0:11:51.399427	LOG	First uplink received. Open reception window.
0:11:51.512715	LOG	PUSH_ACK: 02 ed5a 01
0:11:51.514679	LOG	GPS Time from gateway: 1385110568699
0:11:51.515679	LOG	PUSH_DATA: Protocol version = 02, Token = ed5a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 727810205, 'time': '2023-11-27T08:55:49.699121Z', 'tmms': 1385110568699, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.8, 'foff': -3285, 'rssi': -49, 'size': 20, 'data': 'QAAAAADATQIClf4Wtogsamimm9c='}]}
0:11:51.517679	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 024d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 68a69bd7)
0:11:51.518680	LOG	Server <---------- DUT
0:11:51.520679	LOG	Count = 4
0:11:53.736489	LOG	First uplink received. Open reception window.
0:11:53.841470	LOG	PUSH_ACK: 02 476c 01
0:11:53.843464	LOG	GPS Time from gateway: 1385110571034
0:11:53.844465	LOG	PUSH_DATA: Protocol version = 02, Token = 476c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 730145104, 'time': '2023-11-27T08:55:52.034021Z', 'tmms': 1385110571034, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.8, 'foff': -3277, 'rssi': -49, 'size': 20, 'data': 'QAAAAADATQIClf4Wtogsamimm9c='}]}
0:11:53.846432	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 024d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 68a69bd7)
0:11:53.847464	LOG	Server <---------- DUT
0:11:53.848464	LOG	Repeated frame. It does not count
0:11:56.064427	LOG	GPS Time updated: 1385110573362
0:11:56.066427	LOG	PULL_DATA: 02 2653 02 0016c001ff1025bf
0:11:56.068396	LOG	PULL_ACK: 02 2653 04
0:11:56.396329	LOG	First uplink received. Open reception window.
0:11:56.503543	LOG	PUSH_ACK: 02 3e2f 01
0:11:56.505577	LOG	GPS Time from gateway: 1385110573698
0:11:56.506579	LOG	PUSH_DATA: Protocol version = 02, Token = 3e2f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 732809937, 'time': '2023-11-27T08:55:54.698854Z', 'tmms': 1385110573698, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.8, 'foff': -3277, 'rssi': -49, 'size': 20, 'data': 'QAAAAADATgICeOKjJFQT0Xby6dU='}]}
0:11:56.508546	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 024e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 76f2e9d5)
0:11:56.509578	LOG	Server <---------- DUT
0:11:56.511558	LOG	Count = 5
0:11:58.732895	LOG	First uplink received. Open reception window.
0:11:58.842658	LOG	PUSH_ACK: 02 72f2 01
0:11:58.844659	LOG	GPS Time from gateway: 1385110576033
0:11:58.845661	LOG	PUSH_DATA: Protocol version = 02, Token = 72f2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 735144923, 'time': '2023-11-27T08:55:57.033838Z', 'tmms': 1385110576033, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 16.2, 'foff': -3277, 'rssi': -50, 'size': 20, 'data': 'QAAAAADATgICeOKjJFQT0Xby6dU='}]}
0:11:58.847659	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 024e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 76f2e9d5)
0:11:58.848660	LOG	Server <---------- DUT
0:11:58.850672	LOG	Repeated frame. It does not count
0:12:01.400771	LOG	First uplink received. Open reception window.

0:12:01.516115	LOG	PUSH_ACK: 02 c470 01
0:12:01.518117	LOG	GPS Time from gateway: 1385110578698
0:12:01.519083	LOG	PUSH_DATA: Protocol version = 02, Token = c470, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 737809688, 'time': '2023-11-27T08:55:59.698604Z', 'tmms': 1385110578698, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 16.0, 'foff': -3277, 'rssi': -49, 'size': 20, 'data': 'QAAAAADATwICbh8Jzs/WenlS4ug='}]}
0:12:01.521083	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 024f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7952e2e8)
0:12:01.522082	LOG	Server <---------- DUT
0:12:01.524082	LOG	Count = 6
0:12:03.739518	LOG	First uplink received. Open reception window.
0:12:03.847022	LOG	PUSH_ACK: 02 a068 01
0:12:03.848989	LOG	GPS Time from gateway: 1385110581034
0:12:03.849989	LOG	PUSH_DATA: Protocol version = 02, Token = a068, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 740145269, 'time': '2023-11-27T08:56:02.034183Z', 'tmms': 1385110581034, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 16.0, 'foff': -3277, 'rssi': -49, 'size': 20, 'data': 'QAAAAADATwICbh8Jzs/WenlS4ug='}]}
0:12:03.851990	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 024f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7952e2e8)
0:12:03.852989	LOG	Server <---------- DUT
0:12:03.854990	LOG	Repeated frame. It does not count
0:12:06.144885	LOG	GPS Time updated: 1385110583439
0:12:06.146884	LOG	PULL_DATA: 02 7ba1 02 0016c001ff1025bf
0:12:06.148886	LOG	PULL_ACK: 02 7ba1 04
0:12:06.404280	LOG	First uplink received. Open reception window.
0:12:06.506491	LOG	PUSH_ACK: 02 fe92 01
0:12:06.508459	LOG	GPS Time from gateway: 1385110583698
0:12:06.509495	LOG	PUSH_DATA: Protocol version = 02, Token = fe92, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 742809454, 'time': '2023-11-27T08:56:04.698369Z', 'tmms': 1385110583698, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.8, 'foff': -3277, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAUAICLo7oloOdiM7VC/8='}]}
0:12:06.510492	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0250, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ced50bff)
0:12:06.512459	LOG	Server <---------- DUT
0:12:06.514464	LOG	Count = 7
0:12:08.739909	LOG	First uplink received. Open reception window.
0:12:08.847524	LOG	PUSH_ACK: 02 3528 01
0:12:08.849491	LOG	GPS Time from gateway: 1385110586033
0:12:08.850494	LOG	PUSH_DATA: Protocol version = 02, Token = 3528, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 745144381, 'time': '2023-11-27T08:56:07.033295Z', 'tmms': 1385110586033, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 16.0, 'foff': -3285, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAUAICLo7oloOdiM7VC/8='}]}
0:12:08.852526	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0250, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ced50bff)
0:12:08.853526	LOG	Server <---------- DUT
0:12:08.855492	LOG	Repeated frame. It does not count
0:12:11.398042	LOG	First uplink received. Open reception window.
0:12:11.504624	LOG	PUSH_ACK: 02 549f 01
0:12:11.506657	LOG	GPS Time from gateway: 1385110588698
0:12:11.507660	LOG	PUSH_DATA: Protocol version = 02, Token = 549f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 747809193, 'time': '2023-11-27T08:56:09.698107Z', 'tmms': 1385110588698, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 16.2, 'foff': -3285, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAUQICWHDwGQPpnl8Hm2M='}]}
0:12:11.509659	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0251, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5f079b63)
0:12:11.510625	LOG	Server <---------- DUT
0:12:11.512624	LOG	Count = 8
0:12:13.737368	LOG	First uplink received. Open reception window.
0:12:13.850853	LOG	PUSH_ACK: 02 6f9e 01
0:12:13.852852	LOG	GPS Time from gateway: 1385110591032
0:12:13.853855	LOG	PUSH_DATA: Protocol version = 02, Token = 6f9e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 750144051, 'time': '2023-11-27T08:56:12.032962Z', 'tmms': 1385110591032, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 15.0, 'foff': -3285, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAUQICWHDwGQPpnl8Hm2M='}]}
0:12:13.855819	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0251, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5f079b63)
0:12:13.856818	LOG	Server <---------- DUT
0:12:13.858870	LOG	Repeated frame. It does not count
0:12:16.224730	LOG	GPS Time updated: 1385110593519
0:12:16.226699	LOG	PULL_DATA: 02 4d29 02 0016c001ff1025bf
0:12:16.227697	LOG	PULL_ACK: 02 4d29 04
0:12:16.395154	LOG	First uplink received. Open reception window.
0:12:16.500384	LOG	PUSH_ACK: 02 16b3 01
0:12:16.502352	LOG	GPS Time from gateway: 1385110593697
0:12:16.503352	LOG	PUSH_DATA: Protocol version = 02, Token = 16b3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 752808966, 'time': '2023-11-27T08:56:14.697879Z', 'tmms': 1385110593697, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.8, 'foff': -3277, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAUgIC+7kzbferLd3mjiY='}]}
0:12:16.505352	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0252, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: dde68e26)
0:12:16.506352	LOG	Server <---------- DUT
0:12:16.508352	LOG	Count = 9
0:12:18.741076	LOG	First uplink received. Open reception window.
0:12:18.856849	LOG	PUSH_ACK: 02 8a03 01
0:12:18.858850	LOG	GPS Time from gateway: 1385110596033
0:12:18.859819	LOG	PUSH_DATA: Protocol version = 02, Token = 8a03, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 755144157, 'time': '2023-11-27T08:56:17.033067Z', 'tmms': 1385110596033, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 16.2, 'foff': -3285, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAUgIC+7kzbferLd3mjiY='}]}
0:12:18.861850	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0252, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: dde68e26)
0:12:18.862878	LOG	Server <---------- DUT
0:12:18.864842	LOG	Repeated frame. It does not count
0:12:21.397076	LOG	Multiple frames received. Selecting the correct frame...
0:12:21.399042	LOG	Frame selected: {'jver': 1, 'tmst': 757808741, 'time': '2023-11-27T08:56:19.697653Z', 'tmms': 1385110598697, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.8, 'foff': -3273, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAUwICg7e+kIHPNW1TAsE='}
0:12:21.400553	LOG	First uplink received. Open reception window.
0:12:21.516299	LOG	PUSH_ACK: 02 0ed2 01
0:12:21.518333	LOG	GPS Time from gateway: 1385110598697
0:12:21.519302	LOG	PUSH_DATA: Protocol version = 02, Token = 0ed2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 757808741, 'time': '2023-11-27T08:56:19.697653Z',

		'tmms': 1385110598697, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.8, 'foff': -3273, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAUwICg7e+kIHPNW1TAsE='}, {'jver': 1, 'tmst': 757808756, 'time': '2023-11-27T08:56:19.697668Z', 'tmms': 1385110598697, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -113, 'lsnr': -7.2, 'foff': 21727, 'rssi': -106, 'size': 20, 'data': 'QAAAAADAUwICg7e+kIHPNW1TAsE='}]}
0:12:21.520300	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0253, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6d5302c1)
0:12:21.522300	LOG	Server <---------- DUT
0:12:21.524337	LOG	Count = 10
0:12:23.731359	LOG	First uplink received. Open reception window.
0:12:23.846052	LOG	PUSH_ACK: 02 6f34 01
0:12:23.848016	LOG	GPS Time from gateway: 1385110601033
0:12:23.849015	LOG	PUSH_DATA: Protocol version = 02, Token = 6f34, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 760144302, 'time': '2023-11-27T08:56:22.033214Z', 'tmms': 1385110601033, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 15.0, 'foff': -3277, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAUwICg7e+kIHPNW1TAsE='}]}
0:12:23.851015	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0253, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6d5302c1)
0:12:23.852015	LOG	Server <---------- DUT
0:12:23.854031	LOG	Repeated frame. It does not count
0:12:26.334518	LOG	GPS Time updated: 1385110603636
0:12:26.336518	LOG	PULL_DATA: 02 25ad 02 0016c001ff1025bf
0:12:26.337522	LOG	PULL_ACK: 02 25ad 04
0:12:27.894443	LOG	First uplink received. Open reception window.
0:12:28.001368	LOG	PUSH_ACK: 02 6397 01
0:12:28.003369	LOG	GPS Time from gateway: 1385110605190
0:12:28.004370	LOG	PUSH_DATA: Protocol version = 02, Token = 6397, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 764301456, 'time': '2023-11-27T08:56:26.190367Z', 'tmms': 1385110605190, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.8, 'foff': -3277, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAVAICbE6O/QvJUv5AYWI='}]}
0:12:28.005368	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0254, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fe406162)
0:12:28.007880	LOG	Server <---------- DUT
0:12:28.008911	LOG	Count = 11
0:12:30.230742	LOG	First uplink received. Open reception window.
0:12:30.341386	LOG	PUSH_ACK: 02 9f27 01
0:12:30.343354	LOG	GPS Time from gateway: 1385110607524
0:12:30.344353	LOG	PUSH_DATA: Protocol version = 02, Token = 9f27, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 766635520, 'time': '2023-11-27T08:56:28.524429Z', 'tmms': 1385110607524, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.8, 'foff': -3277, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAVAICbE6O/QvJUv5AYWI='}]}
0:12:30.346354	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0254, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fe406162)
0:12:30.347354	LOG	Server <---------- DUT
0:12:30.349354	LOG	Repeated frame. It does not count
0:12:32.672952	LOG	First uplink received. Open reception window.
0:12:32.777339	LOG	PUSH_ACK: 02 083f 01
0:12:32.779339	LOG	GPS Time from gateway: 1385110609966
0:12:32.780338	LOG	PUSH_DATA: Protocol version = 02, Token = 083f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 769077718, 'time': '2023-11-27T08:56:30.966628Z', 'tmms': 1385110609966, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.8, 'foff': -3273, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAVQICGcsNpjxyjvpJM9g='}]}
0:12:32.782303	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0255, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fa4933d8)
0:12:32.783337	LOG	Server <---------- DUT
0:12:32.785304	LOG	Count = 12
0:12:35.002495	LOG	First uplink received. Open reception window.
0:12:35.107076	LOG	PUSH_ACK: 02 8f83 01
0:12:35.109076	LOG	GPS Time from gateway: 1385110612302
0:12:35.110079	LOG	PUSH_DATA: Protocol version = 02, Token = 8f83, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 771413352, 'time': '2023-11-27T08:56:33.302261Z', 'tmms': 1385110612302, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.5, 'foff': -3273, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAVQICGcsNpjxyjvpJM9g='}]}
0:12:35.111077	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0255, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fa4933d8)
0:12:35.113627	LOG	Server <---------- DUT
0:12:35.114658	LOG	Repeated frame. It does not count
0:12:36.415171	LOG	GPS Time updated: 1385110613715
0:12:36.417174	LOG	PULL_DATA: 02 e08d 02 0016c001ff1025bf
0:12:36.418140	LOG	PULL_ACK: 02 e08d 04
0:12:37.672751	LOG	First uplink received. Open reception window.
0:12:37.781500	LOG	PUSH_ACK: 02 1616 01
0:12:37.783468	LOG	GPS Time from gateway: 1385110614966
0:12:37.784467	LOG	PUSH_DATA: Protocol version = 02, Token = 1616, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 774077466, 'time': '2023-11-27T08:56:35.966375Z', 'tmms': 1385110614966, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.8, 'foff': -3269, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAVgIClK7pYRfX6zbLhCY='}]}
0:12:37.786468	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0256, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 36cb8426)
0:12:37.787468	LOG	Server <---------- DUT
0:12:37.789468	LOG	Count = 13
0:12:40.007975	LOG	First uplink received. Open reception window.
0:12:40.121556	LOG	PUSH_ACK: 02 b6a9 01
0:12:40.123558	LOG	GPS Time from gateway: 1385110617301
0:12:40.124559	LOG	PUSH_DATA: Protocol version = 02, Token = b6a9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 776412766, 'time': '2023-11-27T08:56:38.301673Z', 'tmms': 1385110617301, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.8, 'foff': -3269, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAVgIClK7pYRfX6zbLhCY='}]}
0:12:40.126551	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0256, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 36cb8426)
0:12:40.127523	LOG	Server <---------- DUT
0:12:40.129522	LOG	Repeated frame. It does not count
0:12:42.667338	LOG	First uplink received. Open reception window.
0:12:42.770184	LOG	PUSH_ACK: 02 485a 01
0:12:42.772186	LOG	GPS Time from gateway: 1385110619966
0:12:42.773183	LOG	PUSH_DATA: Protocol version = 02, Token = 485a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 779077211, 'time': '2023-11-27T08:56:40.966119Z', 'tmms': 1385110619966, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 15.8, 'foff': -3269, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAVwICSbYdtfUjhfiS1+Y='}]}
0:12:42.775193	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0257, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f892d7e6)
0:12:42.776183	LOG	Server <---------- DUT

0:12:42.778149	LOG	Count = 14
0:12:45.001883	LOG	First uplink received. Open reception window.
0:12:45.115535	LOG	PUSH_ACK: 02 a896 01
0:12:45.117503	LOG	GPS Time from gateway: 1385110622301
0:12:45.118503	LOG	PUSH_DATA: Protocol version = 02, Token = a896, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 781412722, 'time': '2023-11-27T08:56:43.301628Z', 'tmms': 1385110622301, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 15.0, 'foff': -3266, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAVwICSbYdtfUjhfiS1+Y='}]}
0:12:45.120502	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0257, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f892d7e6)
0:12:45.121502	LOG	Server <---------- DUT
0:12:45.123502	LOG	Repeated frame. It does not count
0:12:46.495334	LOG	GPS Time updated: 1385110623794
0:12:46.496333	LOG	PULL_DATA: 02 84be 02 0016c001ff1025bf
0:12:46.498334	LOG	PULL_ACK: 02 84be 04
0:12:47.670853	LOG	First uplink received. Open reception window.
0:12:47.775502	LOG	PUSH_ACK: 02 490e 01
0:12:47.777503	LOG	GPS Time from gateway: 1385110624965
0:12:47.778503	LOG	PUSH_DATA: Protocol version = 02, Token = 490e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 784076951, 'time': '2023-11-27T08:56:45.965858Z', 'tmms': 1385110624965, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 15.0, 'foff': -3266, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAWAICfcAoZBzOIKfPxjs='}]}
0:12:47.780471	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0258, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a7cfc63b)
0:12:47.781505	LOG	Server <---------- DUT
0:12:47.783470	LOG	Count = 15
0:12:49.998956	LOG	First uplink received. Open reception window.
0:12:50.113601	LOG	PUSH_ACK: 02 c157 01
0:12:50.115605	LOG	GPS Time from gateway: 1385110627301
0:12:50.116603	LOG	PUSH_DATA: Protocol version = 02, Token = c157, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 786412504, 'time': '2023-11-27T08:56:48.301409Z', 'tmms': 1385110627301, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3269, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAWAICfcAoZBzOIKfPxjs='}]}
0:12:50.118593	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0258, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a7cfc63b)
0:12:50.119569	LOG	Server <---------- DUT
0:12:50.121571	LOG	Repeated frame. It does not count
0:12:52.668833	LOG	First uplink received. Open reception window.
0:12:52.774397	LOG	PUSH_ACK: 02 e030 01
0:12:52.776365	LOG	GPS Time from gateway: 1385110629965
0:12:52.777391	LOG	PUSH_DATA: Protocol version = 02, Token = e030, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 789076714, 'time': '2023-11-27T08:56:50.965620Z', 'tmms': 1385110629965, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 15.8, 'foff': -3266, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAWQIC7DgOwxBsI2qezmQ='}]}
0:12:52.779366	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0259, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6a9ece64)
0:12:52.780402	LOG	Server <---------- DUT
0:12:52.782396	LOG	Count = 16
0:12:54.998410	LOG	First uplink received. Open reception window.
0:12:55.102645	LOG	PUSH_ACK: 02 8c05 01
0:12:55.104645	LOG	GPS Time from gateway: 1385110632300

0:12:55.105645	LOG	PUSH_DATA: Protocol version = 02, Token = 8c05, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 791412000, 'time': '2023-11-27T08:56:53.300906Z', 'tmms': 1385110632300, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 16.0, 'foff': -3269, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAWQIC7DgOwxBsI2qezmQ='}]}
0:12:55.107645	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0259, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6a9ece64)
0:12:55.109645	LOG	Server <---------- DUT
0:12:55.110645	LOG	Repeated frame. It does not count
0:12:56.574854	LOG	GPS Time updated: 1385110633876
0:12:56.576821	LOG	PULL_DATA: 02 ddef 02 0016c001ff1025bf
0:12:56.577823	LOG	PULL_ACK: 02 ddef 04
0:12:57.667465	LOG	First uplink received. Open reception window.
0:12:57.775738	LOG	PUSH_ACK: 02 9d7d 01
0:12:57.777705	LOG	GPS Time from gateway: 1385110634965
0:12:57.778705	LOG	PUSH_DATA: Protocol version = 02, Token = 9d7d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 794076491, 'time': '2023-11-27T08:56:55.965396Z', 'tmms': 1385110634965, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 16.0, 'foff': -3266, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAWgIChwW/xXudt4smgqM='}]}
0:12:57.780705	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 025a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8b2682a3)
0:12:57.781704	LOG	Server <---------- DUT
0:12:57.783705	LOG	Count = 17
0:13:00.005522	LOG	First uplink received. Open reception window.
0:13:00.114813	LOG	PUSH_ACK: 02 17a5 01
0:13:00.118779	LOG	GPS Time from gateway: 1385110637301
0:13:00.120780	LOG	PUSH_DATA: Protocol version = 02, Token = 17a5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 796412159, 'time': '2023-11-27T08:56:58.301064Z', 'tmms': 1385110637301, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 16.0, 'foff': -3269, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAWgIChwW/xXudt4smgqM='}]}
0:13:00.121785	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 025a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8b2682a3)
0:13:00.123786	LOG	Server <---------- DUT
0:13:00.124785	LOG	Repeated frame. It does not count
0:13:02.666366	LOG	First uplink received. Open reception window.
0:13:02.777695	LOG	PUSH_ACK: 02 bca6 01
0:13:02.779661	LOG	GPS Time from gateway: 1385110639965
0:13:02.780661	LOG	PUSH_DATA: Protocol version = 02, Token = bca6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 799076232, 'time': '2023-11-27T08:57:00.965136Z', 'tmms': 1385110639965, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 16.2, 'foff': -3266, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAWwIC4lHPGNUA/zvX31U='}]}
0:13:02.782666	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 025b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3bd7df55)
0:13:02.784374	LOG	Server <---------- DUT
0:13:02.786484	LOG	Count = 18
0:13:05.005307	LOG	First uplink received. Open reception window.
0:13:05.108656	LOG	PUSH_ACK: 02 289d 01
0:13:05.110625	LOG	GPS Time from gateway: 1385110642299
0:13:05.111624	LOG	PUSH_DATA: Protocol version = 02, Token = 289d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 801411059, 'time': '2023-11-27T08:57:03.299963Z', 'tmms': 1385110642299, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.8, 'foff': -3269, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAWwIC4lHPGNUA/zvX31U='}]}

0:13:05.113625	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 025b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3bd7df55)
0:13:05.114624	LOG	Server <---------- DUT
0:13:05.116625	LOG	Repeated frame. It does not count
0:13:06.656044	LOG	GPS Time updated: 1385110643949
0:13:06.657043	LOG	PULL_DATA: 02 343e 02 0016c001ff1025bf
0:13:06.659044	LOG	PULL_ACK: 02 343e 04
0:13:07.672694	LOG	First uplink received. Open reception window.
0:13:07.782494	LOG	PUSH_ACK: 02 b3ea 01
0:13:07.784495	LOG	GPS Time from gateway: 1385110644964
0:13:07.785495	LOG	PUSH_DATA: Protocol version = 02, Token = b3ea, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 804076007, 'time': '2023-11-27T08:57:05.964909Z', 'tmms': 1385110644964, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 15.0, 'foff': -3266, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAXAICsF7GnJzbW/pl9LU='}]}
0:13:07.787475	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 025c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fa65f4b5)
0:13:07.788459	LOG	Server <---------- DUT
0:13:07.790495	LOG	Count = 19
0:13:10.006447	LOG	First uplink received. Open reception window.
0:13:10.108498	LOG	PUSH_ACK: 02 e79e 01
0:13:10.110465	LOG	GPS Time from gateway: 1385110647299
0:13:10.111467	LOG	PUSH_DATA: Protocol version = 02, Token = e79e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 806411086, 'time': '2023-11-27T08:57:08.299989Z', 'tmms': 1385110647299, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 16.0, 'foff': -3266, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAXAICsF7GnJzbW/pl9LU='}]}
0:13:10.113464	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 025c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fa65f4b5)
0:13:10.114464	LOG	Server <---------- DUT
0:13:10.116483	LOG	Repeated frame. It does not count
0:13:12.666010	LOG	First uplink received. Open reception window.
0:13:12.771914	LOG	PUSH_ACK: 02 f89c 01
0:13:12.773882	LOG	GPS Time from gateway: 1385110649964
0:13:12.774882	LOG	PUSH_DATA: Protocol version = 02, Token = f89c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 809075759, 'time': '2023-11-27T08:57:10.964660Z', 'tmms': 1385110649964, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.8, 'foff': -3258, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAXQIC3a3+2fnmSkc0f8E='}]}
0:13:12.776882	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 025d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 47347fc1)
0:13:12.777890	LOG	Server <---------- DUT
0:13:12.779882	LOG	Count = 20
0:13:15.006521	LOG	First uplink received. Open reception window.
0:13:15.118577	LOG	PUSH_ACK: 02 c67c 01
0:13:15.120612	LOG	GPS Time from gateway: 1385110652299
0:13:15.121578	LOG	PUSH_DATA: Protocol version = 02, Token = c67c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 811410876, 'time': '2023-11-27T08:57:13.299778Z', 'tmms': 1385110652299, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 16.2, 'foff': -3266, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAXQIC3a3+2fnmSkc0f8E='}]}
0:13:15.123578	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 025d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 47347fc1)
0:13:15.124577	LOG	Server <---------- DUT
0:13:15.126578	LOG	Repeated frame. It does not count
0:13:16.745955	LOG	GPS Time updated: 1385110654039

0:13:16.746993	LOG	PULL_DATA: 02 5a0f 02 0016c001ff1025bf
0:13:16.748954	LOG	PULL_ACK: 02 5a0f 04
0:13:17.665838	LOG	First uplink received. Open reception window.
0:13:17.780171	LOG	PUSH_ACK: 02 8b1b 01
0:13:17.782137	LOG	GPS Time from gateway: 1385110654964
0:13:17.783137	LOG	PUSH_DATA: Protocol version = 02, Token = 8b1b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 814075491, 'time': '2023-11-27T08:57:15.964391Z', 'tmms': 1385110654964, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 15.0, 'foff': -3258, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAXgIC3q2ISJKVwlcK1YI='}]}
0:13:17.785137	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 025e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 570ad582)
0:13:17.786136	LOG	Server <---------- DUT
0:13:17.788138	LOG	Count = 21
0:13:19.999687	LOG	First uplink received. Open reception window.
0:13:20.107996	LOG	PUSH_ACK: 02 676b 01
0:13:20.109996	LOG	GPS Time from gateway: 1385110657299
0:13:20.110998	LOG	PUSH_DATA: Protocol version = 02, Token = 676b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 816410603, 'time': '2023-11-27T08:57:18.299504Z', 'tmms': 1385110657299, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 15.0, 'foff': -3258, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAXgIC3q2ISJKVwlcK1YI='}]}
0:13:20.112964	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 025e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 570ad582)
0:13:20.113963	LOG	Server <---------- DUT
0:13:20.115963	LOG	Repeated frame. It does not count
0:13:22.662586	LOG	First uplink received. Open reception window.
0:13:22.769880	LOG	PUSH_ACK: 02 4bf3 01
0:13:22.771847	LOG	GPS Time from gateway: 1385110659964
0:13:22.772847	LOG	PUSH_DATA: Protocol version = 02, Token = 4bf3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 819075239, 'time': '2023-11-27T08:57:20.964140Z', 'tmms': 1385110659964, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 15.0, 'foff': -3254, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAXwICJttC8+wnU5ERII8='}]}
0:13:22.774848	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 025f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9111208f)
0:13:22.775848	LOG	Server <---------- DUT
0:13:22.777847	LOG	Count = 22
0:13:24.998402	LOG	First uplink received. Open reception window.
0:13:25.113722	LOG	PUSH_ACK: 02 7128 01
0:13:25.115691	LOG	GPS Time from gateway: 1385110662299
0:13:25.116689	LOG	PUSH_DATA: Protocol version = 02, Token = 7128, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 821410823, 'time': '2023-11-27T08:57:23.299723Z', 'tmms': 1385110662299, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.8, 'foff': -3258, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAXwICJttC8+wnU5ERII8='}]}
0:13:25.118690	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 025f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9111208f)
0:13:25.119690	LOG	Server <---------- DUT
0:13:25.120689	LOG	Repeated frame. It does not count
0:13:26.825769	LOG	GPS Time updated: 1385110664125
0:13:26.826800	LOG	PULL_DATA: 02 e20e 02 0016c001ff1025bf
0:13:26.828807	LOG	PULL_ACK: 02 e20e 04
0:13:27.666046	LOG	First uplink received. Open reception window.
0:13:27.771693	LOG	PUSH_ACK: 02 a5f9 01
0:13:27.773673	LOG	GPS Time from gateway: 1385110664963

0:13:27.774691	LOG	PUSH_DATA: Protocol version = 02, Token = a5f9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 824075017, 'time': '2023-11-27T08:57:25.963917Z', 'tmms': 1385110664963, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 15.0, 'foff': -3254, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAYAICfeXVdDV5DCaxT2Y='}]}
0:13:27.776704	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0260, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 26b14f66)
0:13:27.777691	LOG	Server <---------- DUT
0:13:27.779697	LOG	Count = 23
0:13:30.003036	LOG	First uplink received. Open reception window.
0:13:30.111571	LOG	PUSH_ACK: 02 b362 01
0:13:30.113529	LOG	GPS Time from gateway: 1385110667299
0:13:30.115530	LOG	PUSH_DATA: Protocol version = 02, Token = b362, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 826410507, 'time': '2023-11-27T08:57:28.299406Z', 'tmms': 1385110667299, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 15.0, 'foff': -3258, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAYAICfeXVdDV5DCaxT2Y='}]}
0:13:30.116529	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0260, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 26b14f66)
0:13:30.118529	LOG	Server <---------- DUT
0:13:30.120537	LOG	Repeated frame. It does not count
0:13:32.670270	LOG	First uplink received. Open reception window.
0:13:32.785127	LOG	PUSH_ACK: 02 a0db 01
0:13:32.787095	LOG	GPS Time from gateway: 1385110669963
0:13:32.789094	LOG	PUSH_DATA: Protocol version = 02, Token = a0db, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 829074790, 'time': '2023-11-27T08:57:30.963689Z', 'tmms': 1385110669963, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 15.0, 'foff': -3258, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAYQIChzyoLuxoGkCZqpQ='}]}
0:13:32.790127	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0261, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4099aa94)
0:13:32.791127	LOG	Server <---------- DUT
0:13:32.793095	LOG	Count = 24
0:13:35.006187	LOG	First uplink received. Open reception window.
0:13:35.114736	LOG	PUSH_ACK: 02 ffd4 01
0:13:35.116701	LOG	GPS Time from gateway: 1385110672298
0:13:35.117702	LOG	PUSH_DATA: Protocol version = 02, Token = ffd4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 831409743, 'time': '2023-11-27T08:57:33.298641Z', 'tmms': 1385110672298, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.8, 'foff': -3266, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAYQIChzyoLuxoGkCZqpQ='}]}
0:13:35.119702	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0261, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4099aa94)
0:13:35.120700	LOG	Server <---------- DUT
0:13:35.122701	LOG	Repeated frame. It does not count
0:13:36.906226	LOG	GPS Time updated: 1385110674198
0:13:36.907226	LOG	PULL_DATA: 02 1ab2 02 0016c001ff1025bf
0:13:36.909230	LOG	PULL_ACK: 02 1ab2 04
0:13:37.662998	LOG	First uplink received. Open reception window.
0:13:37.773292	LOG	PUSH_ACK: 02 be01 01
0:13:37.775263	LOG	GPS Time from gateway: 1385110674963
0:13:37.776293	LOG	PUSH_DATA: Protocol version = 02, Token = be01, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 834074528, 'time': '2023-11-27T08:57:35.963426Z', 'tmms': 1385110674963, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 16.0, 'foff': -3258, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAYgIC5ICvVjSru0t6ZTk='}]}

0:13:37.778277	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0262, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4b7a6539)
0:13:37.779292	LOG	Server <---------- DUT
0:13:37.781272	LOG	Count = 25
0:13:40.000188	LOG	First uplink received. Open reception window.
0:13:40.115337	LOG	PUSH_ACK: 02 50b2 01
0:13:40.117302	LOG	GPS Time from gateway: 1385110677298
0:13:40.118302	LOG	PUSH_DATA: Protocol version = 02, Token = 50b2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 836409364, 'time': '2023-11-27T08:57:38.298261Z', 'tmms': 1385110677298, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 15.8, 'foff': -3266, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAYgIC5ICvVjSru0t6ZTk='}]}
0:13:40.120303	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0262, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4b7a6539)
0:13:40.121303	LOG	Server <---------- DUT
0:13:40.123302	LOG	Repeated frame. It does not count
0:13:42.668195	LOG	First uplink received. Open reception window.
0:13:42.778153	LOG	PUSH_ACK: 02 4ef7 01
0:13:42.780118	LOG	GPS Time from gateway: 1385110679963
0:13:42.781117	LOG	PUSH_DATA: Protocol version = 02, Token = 4ef7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 839074267, 'time': '2023-11-27T08:57:40.963164Z', 'tmms': 1385110679963, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 15.0, 'foff': -3258, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAYwICFfsOeaAlBqY/1Gk='}]}
0:13:42.783118	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0263, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a63fd469)
0:13:42.784117	LOG	Server <---------- DUT
0:13:42.786118	LOG	Count = 26
0:13:45.004091	LOG	First uplink received. Open reception window.
0:13:45.106168	LOG	PUSH_ACK: 02 c5a8 01
0:13:45.108137	LOG	GPS Time from gateway: 1385110682298
0:13:45.109136	LOG	PUSH_DATA: Protocol version = 02, Token = c5a8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 841409900, 'time': '2023-11-27T08:57:43.298796Z', 'tmms': 1385110682298, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.8, 'foff': -3266, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAYwICFfsOeaAlBqY/1Gk='}]}
0:13:45.111133	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0263, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a63fd469)
0:13:45.112133	LOG	Server <---------- DUT
0:13:45.114134	LOG	Repeated frame. It does not count
0:13:46.986441	LOG	GPS Time updated: 1385110684279
0:13:46.987441	LOG	PULL_DATA: 02 0750 02 0016c001ff1025bf
0:13:46.989442	LOG	PULL_ACK: 02 0750 04
0:13:49.155382	LOG	First uplink received. Open reception window.
0:13:49.257558	LOG	PUSH_ACK: 02 c36e 01
0:13:49.259593	LOG	GPS Time from gateway: 1385110686454
0:13:49.260560	LOG	PUSH_DATA: Protocol version = 02, Token = c36e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 845565637, 'time': '2023-11-27T08:57:47.454533Z', 'tmms': 1385110686454, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.8, 'foff': -3266, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAZAICz+HardqRA77RQvk='}]}
0:13:49.262561	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0264, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: bed142f9)
0:13:49.263592	LOG	Server <---------- DUT
0:13:49.265581	LOG	Count = 27
0:13:51.494383	LOG	First uplink received. Open reception window.

0:13:51.599030	LOG	PUSH_ACK: 02 bb0e 01
0:13:51.600998	LOG	GPS Time from gateway: 1385110688789
0:13:51.601998	LOG	PUSH_DATA: Protocol version = 02, Token = bb0e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 847900713, 'time': '2023-11-27T08:57:49.789608Z', 'tmms': 1385110688789, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 15.8, 'foff': -3266, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAZAICz+HardqRA77RQvk='}]}
0:13:51.603998	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0264, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: bed142f9)
0:13:51.604999	LOG	Server <---------- DUT
0:13:51.606998	LOG	Repeated frame. It does not count
0:13:53.929045	LOG	First uplink received. Open reception window.
0:13:54.033970	LOG	PUSH_ACK: 02 612c 01
0:13:54.036938	LOG	GPS Time from gateway: 1385110691230
0:13:54.037973	LOG	PUSH_DATA: Protocol version = 02, Token = 612c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 850341263, 'time': '2023-11-27T08:57:52.230158Z', 'tmms': 1385110691230, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 16.0, 'foff': -3258, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAZQICuCWzRWthWkdUCnc='}]}
0:13:54.039971	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0265, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 47540a77)
0:13:54.040970	LOG	Server <---------- DUT
0:13:54.042944	LOG	Count = 28
0:13:56.266946	LOG	First uplink received. Open reception window.
0:13:56.377904	LOG	PUSH_ACK: 02 3643 01
0:13:56.379905	LOG	GPS Time from gateway: 1385110693565
0:13:56.380874	LOG	PUSH_DATA: Protocol version = 02, Token = 3643, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 852676828, 'time': '2023-11-27T08:57:54.565722Z', 'tmms': 1385110693565, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 16.2, 'foff': -3258, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAZQICuCWzRWthWkdUCnc='}]}
0:13:56.382918	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0265, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 47540a77)
0:13:56.383873	LOG	Server <---------- DUT
0:13:56.385874	LOG	Repeated frame. It does not count
0:13:57.065054	LOG	GPS Time updated: 1385110694364
0:13:57.067023	LOG	PULL_DATA: 02 3adc 02 0016c001ff1025bf
0:13:57.068055	LOG	PULL_ACK: 02 3adc 04
0:13:58.930174	LOG	First uplink received. Open reception window.
0:13:59.035757	LOG	PUSH_ACK: 02 3ded 01
0:13:59.037759	LOG	GPS Time from gateway: 1385110696229
0:13:59.038759	LOG	PUSH_DATA: Protocol version = 02, Token = 3ded, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 855341035, 'time': '2023-11-27T08:57:57.229929Z', 'tmms': 1385110696229, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.8, 'foff': -3254, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAZgIC00XRFYTVOMSoi30='}]}
0:13:59.040759	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0266, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c4a88b7d)
0:13:59.041758	LOG	Server <---------- DUT
0:13:59.043759	LOG	Count = 29
0:14:01.266658	LOG	First uplink received. Open reception window.
0:14:01.374301	LOG	PUSH_ACK: 02 3edd 01
0:14:01.376269	LOG	GPS Time from gateway: 1385110698564
0:14:01.378271	LOG	PUSH_DATA: Protocol version = 02, Token = 3edd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 857676103, 'time': '2023-11-27T08:57:59.564996Z', 'tmms': 1385110698564, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.8, 'foff': -3250, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAZgIC00XRFYTVOMSoi30='}]}
0:14:01.379302	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0266, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c4a88b7d)
0:14:01.380339	LOG	Server <---------- DUT
0:14:01.382340	LOG	Repeated frame. It does not count
0:14:03.937490	LOG	First uplink received. Open reception window.
0:14:04.048019	LOG	PUSH_ACK: 02 c93d 01
0:14:04.049987	LOG	GPS Time from gateway: 1385110701229
0:14:04.050986	LOG	PUSH_DATA: Protocol version = 02, Token = c93d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 860340805, 'time': '2023-11-27T08:58:02.229698Z', 'tmms': 1385110701229, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.5, 'foff': -3254, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAZwIC6KjJRnv3Odp12WE='}]}
0:14:04.052987	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0267, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: da75d961)
0:14:04.053987	LOG	Server <---------- DUT
0:14:04.055987	LOG	Count = 30
0:14:06.263525	LOG	First uplink received. Open reception window.
0:14:06.376473	LOG	PUSH_ACK: 02 b1e3 01
0:14:06.378507	LOG	GPS Time from gateway: 1385110703564
0:14:06.380461	LOG	PUSH_DATA: Protocol version = 02, Token = b1e3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 862676011, 'time': '2023-11-27T08:58:04.564902Z', 'tmms': 1385110703564, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 16.0, 'foff': -3254, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAZwIC6KjJRnv3Odp12WE='}]}
0:14:06.381461	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0267, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: da75d961)
0:14:06.383461	LOG	Server <---------- DUT
0:14:06.385471	LOG	Repeated frame. It does not count
0:14:07.145603	LOG	GPS Time updated: 1385110704446
0:14:07.148571	LOG	PULL_DATA: 02 ef6f 02 0016c001ff1025bf
0:14:07.149571	LOG	PULL_ACK: 02 ef6f 04
0:14:08.934279	LOG	First uplink received. Open reception window.
0:14:09.048847	LOG	PUSH_ACK: 02 e43f 01
0:14:09.050816	LOG	GPS Time from gateway: 1385110706229
0:14:09.051815	LOG	PUSH_DATA: Protocol version = 02, Token = e43f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 865340558, 'time': '2023-11-27T08:58:07.229450Z', 'tmms': 1385110706229, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 16.0, 'foff': -3254, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAaAICg6k/wJnTa1P687M='}]}
0:14:09.053828	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0268, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 53faf3b3)
0:14:09.054814	LOG	Server <---------- DUT
0:14:09.056816	LOG	Count = 31
0:14:11.262426	LOG	First uplink received. Open reception window.
0:14:11.374001	LOG	PUSH_ACK: 02 876f 01
0:14:11.375968	LOG	GPS Time from gateway: 1385110708564
0:14:11.376970	LOG	PUSH_DATA: Protocol version = 02, Token = 876f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 867675848, 'time': '2023-11-27T08:58:09.564738Z', 'tmms': 1385110708564, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.8, 'foff': -3258, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAaAICg6k/wJnTa1P687M='}]}
0:14:11.379003	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0268, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 53faf3b3)
0:14:11.380003	LOG	Server <---------- DUT

0:14:11.381970	LOG	Repeated frame. It does not count
0:14:13.934376	LOG	First uplink received. Open reception window.
0:14:14.049953	LOG	PUSH_ACK: 02 0d4c 01
0:14:14.051970	LOG	GPS Time from gateway: 1385110711229
0:14:14.052989	LOG	PUSH_DATA: Protocol version = 02, Token = 0d4c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 870340296, 'time': '2023-11-27T08:58:12.229187Z', 'tmms': 1385110711229, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.8, 'foff': -3254, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAaQICUJ2jMN65WpP6a0A='}]}
0:14:14.054996	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0269, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 93fa6b40)
0:14:14.055978	LOG	Server <---------- DUT
0:14:14.058004	LOG	Count = 32
0:14:16.262331	LOG	First uplink received. Open reception window.
0:14:16.377979	LOG	PUSH_ACK: 02 1714 01
0:14:16.379978	LOG	GPS Time from gateway: 1385110713563
0:14:16.380946	LOG	PUSH_DATA: Protocol version = 02, Token = 1714, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 872675051, 'time': '2023-11-27T08:58:14.563940Z', 'tmms': 1385110713563, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 15.2, 'foff': -3254, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAaQICUJ2jMN65WpP6a0A='}]}
0:14:16.382947	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0269, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 93fa6b40)
0:14:16.383945	LOG	Server <---------- DUT
0:14:16.385946	LOG	Repeated frame. It does not count
0:14:17.226025	LOG	GPS Time updated: 1385110714527
0:14:17.227024	LOG	PULL_DATA: 02 9cda 02 0016c001ff1025bf
0:14:17.229025	LOG	PULL_ACK: 02 9cda 04
0:14:19.012113	LOG	First uplink received. Open reception window.
0:14:19.126302	LOG	PUSH_ACK: 02 8258 01
0:14:19.128270	LOG	GPS Time from gateway: 1385110716311
0:14:19.129302	LOG	PUSH_DATA: Protocol version = 02, Token = 8258, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 875422474, 'time': '2023-11-27T08:58:17.311364Z', 'tmms': 1385110716311, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3252, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAagICfKeK/G6ULnr92fY='}]}
0:14:19.131271	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 026a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7afdd9f6)
0:14:19.132305	LOG	Server <---------- DUT
0:14:19.134302	LOG	Count = 33
0:14:19.135270	LOG	Waiting for the retransmissions
0:14:21.432643	LOG	First uplink received. Open reception window.
0:14:21.542828	LOG	PUSH_ACK: 02 e8e3 01
0:14:21.544829	LOG	GPS Time from gateway: 1385110718728
0:14:21.545831	LOG	PUSH_DATA: Protocol version = 02, Token = e8e3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 877839297, 'time': '2023-11-27T08:58:19.728187Z', 'tmms': 1385110718728, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3252, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAagICfKeK/G6ULnr92fY='}]}
0:14:21.547829	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 026a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7afdd9f6)
0:14:21.548828	LOG	Server <---------- DUT
0:14:21.564845	LOG	Expected number of uplink messages have been received
0:14:21.568832	LOG	Step 10
0:14:21.572830	LOG	Test adaptive data rate control in frame header process starts
0:14:24.020903	LOG	First uplink received. Open reception window.

0:14:24.130194	LOG	PUSH_ACK: 02 841e 01
0:14:24.132158	LOG	GPS Time from gateway: 1385110721311
0:14:24.133160	LOG	PUSH_DATA: Protocol version = 02, Token = 841e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 880422239, 'time': '2023-11-27T08:58:22.311128Z', 'tmms': 1385110721311, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3252, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAawIC/EqOnqhA+G4UdT8='}]}
0:14:24.135189	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 026b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6e14753f)
0:14:24.136194	LOG	Server <---------- DUT
0:14:24.138192	LOG	Count = 2
0:14:26.431327	LOG	First uplink received. Open reception window.
0:14:26.534149	LOG	PUSH_ACK: 02 27bf 01
0:14:26.536118	LOG	GPS Time from gateway: 1385110723728
0:14:26.537116	LOG	PUSH_DATA: Protocol version = 02, Token = 27bf, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 882839724, 'time': '2023-11-27T08:58:24.728613Z', 'tmms': 1385110723728, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3252, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAawIC/EqOnqhA+G4UdT8='}]}
0:14:26.539118	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 026b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6e14753f)
0:14:26.540117	LOG	Server <---------- DUT
0:14:26.542118	LOG	Repeated frame. It does not count
0:14:27.306271	LOG	GPS Time updated: 1385110724603
0:14:27.307270	LOG	PULL_DATA: 02 fa64 02 0016c001ff1025bf
0:14:27.309272	LOG	PULL_ACK: 02 fa64 04
0:14:29.013723	LOG	First uplink received. Open reception window.
0:14:29.118236	LOG	PUSH_ACK: 02 ac38 01
0:14:29.120265	LOG	GPS Time from gateway: 1385110726310
0:14:29.121269	LOG	PUSH_DATA: Protocol version = 02, Token = ac38, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 885422021, 'time': '2023-11-27T08:58:27.310909Z', 'tmms': 1385110726310, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3252, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAbAICeAldYOQu3kKUmLw='}]}
0:14:29.122739	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 026c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 429498bc)
0:14:29.124743	LOG	Server <---------- DUT
0:14:29.125744	LOG	Count = 3
0:14:31.432858	LOG	First uplink received. Open reception window.
0:14:31.534555	LOG	PUSH_ACK: 02 4175 01
0:14:31.536523	LOG	GPS Time from gateway: 1385110728728
0:14:31.537523	LOG	PUSH_DATA: Protocol version = 02, Token = 4175, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 887839263, 'time': '2023-11-27T08:58:29.728151Z', 'tmms': 1385110728728, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3252, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAbAICeAldYOQu3kKUmLw='}]}
0:14:31.539524	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 026c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 429498bc)
0:14:31.540523	LOG	Server <---------- DUT
0:14:31.542523	LOG	Repeated frame. It does not count
0:14:34.015376	LOG	First uplink received. Open reception window.
0:14:34.117814	LOG	PUSH_ACK: 02 75f2 01
0:14:34.119783	LOG	GPS Time from gateway: 1385110731310
0:14:34.120783	LOG	PUSH_DATA: Protocol version = 02, Token = 75f2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 890421821, 'time': '2023-11-27T08:58:32.310708Z', 'tmms': 1385110731310, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3252, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAbQICcOrinN+jSqx3Jxs='}]}
0:14:34.122808	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 026d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ac77271b)
0:14:34.123814	LOG	Server <---------- DUT
0:14:34.125782	LOG	Count = 4
0:14:36.436959	LOG	First uplink received. Open reception window.
0:14:36.548874	LOG	PUSH_ACK: 02 5864 01
0:14:36.550877	LOG	GPS Time from gateway: 1385110733727
0:14:36.551879	LOG	PUSH_DATA: Protocol version = 02, Token = 5864, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 892838981, 'time': '2023-11-27T08:58:34.727868Z', 'tmms': 1385110733727, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3256, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAbQICcOrinN+jSqx3Jxs='}]}
0:14:36.553882	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 026d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ac77271b)
0:14:36.554879	LOG	Server <---------- DUT
0:14:36.555877	LOG	Repeated frame. It does not count
0:14:37.385375	LOG	GPS Time updated: 1385110734676
0:14:37.387375	LOG	PULL_DATA: 02 613d 02 0016c001ff1025bf
0:14:37.389378	LOG	PULL_ACK: 02 613d 04
0:14:39.019706	LOG	First uplink received. Open reception window.
0:14:39.131285	LOG	PUSH_ACK: 02 a382 01
0:14:39.132821	LOG	GPS Time from gateway: 1385110736310
0:14:39.134826	LOG	PUSH_DATA: Protocol version = 02, Token = a382, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 895421561, 'time': '2023-11-27T08:58:37.310447Z', 'tmms': 1385110736310, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3252, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAbgICXcteAmWMHp+HeFs='}]}
0:14:39.135826	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 026e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9f87785b)
0:14:39.137858	LOG	Server <---------- DUT
0:14:39.138863	LOG	Count = 5
0:14:41.429955	LOG	First uplink received. Open reception window.
0:14:41.534206	LOG	PUSH_ACK: 02 f160 01
0:14:41.535710	LOG	GPS Time from gateway: 1385110738727
0:14:41.537715	LOG	PUSH_DATA: Protocol version = 02, Token = f160, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 897838640, 'time': '2023-11-27T08:58:39.727526Z', 'tmms': 1385110738727, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3256, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAbgICXcteAmWMHp+HeFs='}]}
0:14:41.539715	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 026e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9f87785b)
0:14:41.540715	LOG	Server <---------- DUT
0:14:41.542716	LOG	Repeated frame. It does not count
0:14:44.018103	LOG	First uplink received. Open reception window.
0:14:44.121453	LOG	PUSH_ACK: 02 7708 01
0:14:44.123457	LOG	GPS Time from gateway: 1385110741310
0:14:44.125459	LOG	PUSH_DATA: Protocol version = 02, Token = 7708, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 900421308, 'time': '2023-11-27T08:58:42.310193Z', 'tmms': 1385110741310, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3250, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAbwICtE3v/HY/INbD3mM='}]}
0:14:44.126495	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 026f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d6c3de63)
0:14:44.127491	LOG	Server <---------- DUT

0:14:44.129460	LOG	Count = 6
0:14:46.428036	LOG	First uplink received. Open reception window.
0:14:46.538279	LOG	PUSH_ACK: 02 7514 01
0:14:46.539815	LOG	GPS Time from gateway: 1385110743727
0:14:46.541853	LOG	PUSH_DATA: Protocol version = 02, Token = 7514, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 902838889, 'time': '2023-11-27T08:58:44.727774Z', 'tmms': 1385110743727, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.0, 'foff': -3250, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAbwICtE3v/HY/INbD3mM='}]}
0:14:46.542868	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 026f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d6c3de63)
0:14:46.543853	LOG	Server <---------- DUT
0:14:46.545853	LOG	Repeated frame. It does not count
0:14:47.466319	LOG	GPS Time updated: 1385110744765
0:14:47.467318	LOG	PULL_DATA: 02 e2f7 02 0016c001ff1025bf
0:14:47.469319	LOG	PULL_ACK: 02 e2f7 04
0:14:49.014896	LOG	First uplink received. Open reception window.
0:14:49.120470	LOG	PUSH_ACK: 02 6cca 01
0:14:49.122505	LOG	GPS Time from gateway: 1385110746309
0:14:49.123507	LOG	PUSH_DATA: Protocol version = 02, Token = 6cca, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 905421082, 'time': '2023-11-27T08:58:47.309965Z', 'tmms': 1385110746309, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3248, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAcAICS6/IPZ5Pwh6H7mM='}]}
0:14:49.125471	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0270, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1e87ee63)
0:14:49.126471	LOG	Server <---------- DUT
0:14:49.128476	LOG	Count = 7
0:14:51.428544	LOG	First uplink received. Open reception window.
0:14:51.534879	LOG	PUSH_ACK: 02 dbf0 01
0:14:51.536864	LOG	GPS Time from gateway: 1385110748727
0:14:51.537861	LOG	PUSH_DATA: Protocol version = 02, Token = dbf0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 907838701, 'time': '2023-11-27T08:58:49.727585Z', 'tmms': 1385110748727, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3250, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAcAICS6/IPZ5Pwh6H7mM='}]}
0:14:51.539829	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0270, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1e87ee63)
0:14:51.541828	LOG	Server <---------- DUT
0:14:51.542876	LOG	Repeated frame. It does not count
0:14:54.014999	LOG	First uplink received. Open reception window.
0:14:54.121588	LOG	PUSH_ACK: 02 e802 01
0:14:54.123556	LOG	GPS Time from gateway: 1385110751309
0:14:54.124556	LOG	PUSH_DATA: Protocol version = 02, Token = e802, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 910420822, 'time': '2023-11-27T08:58:52.309704Z', 'tmms': 1385110751309, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3245, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAcQICDu1TmjyCKCdcD48='}]}
0:14:54.126557	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0271, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 275c0f8f)
0:14:54.127556	LOG	Server <---------- DUT
0:14:54.128556	LOG	Count = 8
0:14:56.428762	LOG	First uplink received. Open reception window.
0:14:56.540978	LOG	PUSH_ACK: 02 afe3 01
0:14:56.543012	LOG	GPS Time from gateway: 1385110753726

0:14:56.544013	LOG	PUSH_DATA: Protocol version = 02, Token = afe3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 912837945, 'time': '2023-11-27T08:58:54.726828Z', 'tmms': 1385110753726, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.0, 'foff': -3247, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAcQICDu1TmjyCKCdcD48='}]}
0:14:56.545979	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0271, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 275c0f8f)
0:14:56.546979	LOG	Server <---------- DUT
0:14:56.549017	LOG	Repeated frame. It does not count
0:14:57.545770	LOG	GPS Time updated: 1385110754843
0:14:57.547738	LOG	PULL_DATA: 02 665c 02 0016c001ff1025bf
0:14:57.548739	LOG	PULL_ACK: 02 665c 04
0:14:59.013323	LOG	First uplink received. Open reception window.
0:14:59.124942	LOG	PUSH_ACK: 02 1ba7 01
0:14:59.126938	LOG	GPS Time from gateway: 1385110756309
0:14:59.127943	LOG	PUSH_DATA: Protocol version = 02, Token = 1ba7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 915420602, 'time': '2023-11-27T08:58:57.309485Z', 'tmms': 1385110756309, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.0, 'foff': -3243, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAcgICRf0K4WbpfzqEvTU='}]}
0:14:59.129924	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0272, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3a84bd35)
0:14:59.130908	LOG	Server <---------- DUT
0:14:59.132911	LOG	Count = 9
0:15:01.427257	LOG	First uplink received. Open reception window.
0:15:01.542455	LOG	PUSH_ACK: 02 d191 01
0:15:01.544424	LOG	GPS Time from gateway: 1385110758726
0:15:01.545424	LOG	PUSH_DATA: Protocol version = 02, Token = d191, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 917838043, 'time': '2023-11-27T08:58:59.726925Z', 'tmms': 1385110758726, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.0, 'foff': -3243, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAcgICRf0K4WbpfzqEvTU='}]}
0:15:01.547425	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0272, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3a84bd35)
0:15:01.548457	LOG	Server <---------- DUT
0:15:01.550424	LOG	Repeated frame. It does not count
0:15:04.012426	LOG	First uplink received. Open reception window.
0:15:04.115653	LOG	PUSH_ACK: 02 992a 01
0:15:04.117654	LOG	GPS Time from gateway: 1385110761309
0:15:04.118622	LOG	PUSH_DATA: Protocol version = 02, Token = 992a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 920420344, 'time': '2023-11-27T08:59:02.309226Z', 'tmms': 1385110761309, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.8, 'foff': -3241, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAcwICZMKOOQfpvo/5Qrc='}]}
0:15:04.120624	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0273, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8ff942b7)
0:15:04.121622	LOG	Server <---------- DUT
0:15:04.123634	LOG	Count = 10
0:15:06.434564	LOG	First uplink received. Open reception window.
0:15:06.545785	LOG	PUSH_ACK: 02 f5fa 01
0:15:06.547754	LOG	GPS Time from gateway: 1385110763726
0:15:06.548756	LOG	PUSH_DATA: Protocol version = 02, Token = f5fa, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 922837809, 'time': '2023-11-27T08:59:04.726690Z', 'tmms': 1385110763726, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.0, 'foff': -3235, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAcwICZMKOOQfpvo/5Qrc='}]}

0:15:06.550755	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0273, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8ff942b7)
0:15:06.551755	LOG	Server <---------- DUT
0:15:06.553756	LOG	Repeated frame. It does not count
0:15:07.636206	LOG	GPS Time updated: 1385110764928
0:15:07.637218	LOG	PULL_DATA: 02 6799 02 0016c001ff1025bf
0:15:07.639185	LOG	PULL_ACK: 02 6799 04
0:15:10.674435	LOG	First uplink received. Open reception window.
0:15:10.789519	LOG	PUSH_ACK: 02 c46d 01
0:15:10.791483	LOG	GPS Time from gateway: 1385110767965
0:15:10.792484	LOG	PUSH_DATA: Protocol version = 02, Token = c46d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 927076771, 'time': '2023-11-27T08:59:08.965650Z', 'tmms': 1385110767965, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.8, 'foff': -3235, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAdAICbVL9NFc2M4S2vdE='}]}
0:15:10.794483	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0274, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 84b6bdd1)
0:15:10.795482	LOG	Server <---------- DUT
0:15:10.797483	LOG	Count = 11
0:15:13.087651	LOG	First uplink received. Open reception window.
0:15:13.192478	LOG	PUSH_ACK: 02 1a3b 01
0:15:13.194446	LOG	GPS Time from gateway: 1385110770382
0:15:13.195446	LOG	PUSH_DATA: Protocol version = 02, Token = 1a3b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 929493804, 'time': '2023-11-27T08:59:11.382684Z', 'tmms': 1385110770382, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.0, 'foff': -3237, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAdAICbVL9NFc2M4S2vdE='}]}
0:15:13.197448	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0274, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 84b6bdd1)
0:15:13.198446	LOG	Server <---------- DUT
0:15:13.200447	LOG	Repeated frame. It does not count
0:15:17.724915	LOG	GPS Time updated: 1385110775019
0:15:17.725916	LOG	PULL_DATA: 02 758f 02 0016c001ff1025bf
0:15:17.727917	LOG	PULL_ACK: 02 758f 04
0:15:20.442562	LOG	First uplink received. Open reception window.
0:15:20.550216	LOG	PUSH_ACK: 02 4f57 01
0:15:20.552184	LOG	GPS Time from gateway: 1385110777741
0:15:20.553183	LOG	PUSH_DATA: Protocol version = 02, Token = 4f57, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 936853109, 'time': '2023-11-27T08:59:18.741988Z', 'tmms': 1385110777741, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.8, 'foff': -3237, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAdQICAAd7OhQsLFPfXZc='}]}
0:15:20.555183	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0275, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 53df5d97)
0:15:20.556183	LOG	Server <---------- DUT
0:15:20.557189	LOG	Count = 12
0:15:22.869054	LOG	First uplink received. Open reception window.
0:15:22.973844	LOG	PUSH_ACK: 02 87bb 01
0:15:22.975810	LOG	GPS Time from gateway: 1385110780159
0:15:22.976809	LOG	PUSH_DATA: Protocol version = 02, Token = 87bb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 939270828, 'time': '2023-11-27T08:59:21.159706Z', 'tmms': 1385110780159, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.0, 'foff': -3237, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAdQICAAd7OhQsLFPfXZc='}]}
0:15:22.978811	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0275, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 53df5d97)

0:15:22.980327	LOG	Server <---------- DUT
0:15:22.981332	LOG	Repeated frame. It does not count
0:15:25.444395	LOG	First uplink received. Open reception window.
0:15:25.546506	LOG	PUSH_ACK: 02 2162 01
0:15:25.548471	LOG	GPS Time from gateway: 1385110782741
0:15:25.549470	LOG	PUSH_DATA: Protocol version = 02, Token = 2162, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 941852862, 'time': '2023-11-27T08:59:23.741740Z', 'tmms': 1385110782741, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3235, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAdgIClfH2WuDegMEVzuI='}]}
0:15:25.551472	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0276, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c115cee2)
0:15:25.552470	LOG	Server <---------- DUT
0:15:25.554471	LOG	Count = 13
0:15:27.807250	LOG	GPS Time updated: 1385110785104
0:15:27.808249	LOG	PULL_DATA: 02 ac09 02 0016c001ff1025bf
0:15:27.810250	LOG	PULL_ACK: 02 ac09 04
0:15:27.866893	LOG	First uplink received. Open reception window.
0:15:27.980090	LOG	PUSH_ACK: 02 645b 01
0:15:27.982056	LOG	GPS Time from gateway: 1385110785159
0:15:27.983059	LOG	PUSH_DATA: Protocol version = 02, Token = 645b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 944270455, 'time': '2023-11-27T08:59:26.159332Z', 'tmms': 1385110785159, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.8, 'foff': -3235, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAdgIClfH2WuDegMEVzuI='}]}
0:15:27.985061	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0276, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c115cee2)
0:15:27.986574	LOG	Server <---------- DUT
0:15:27.987578	LOG	Repeated frame. It does not count
0:15:30.450427	LOG	First uplink received. Open reception window.
0:15:30.562499	LOG	PUSH_ACK: 02 ecca 01
0:15:30.564468	LOG	GPS Time from gateway: 1385110787741
0:15:30.565507	LOG	PUSH_DATA: Protocol version = 02, Token = ecca, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 946852607, 'time': '2023-11-27T08:59:28.741484Z', 'tmms': 1385110787741, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.0, 'foff': -3235, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAdwICcHzPv9idCs7st3Y='}]}
0:15:30.567505	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0277, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ceecb776)
0:15:30.568500	LOG	Server <---------- DUT
0:15:30.569500	LOG	Count = 14
0:15:32.861001	LOG	First uplink received. Open reception window.
0:15:32.964389	LOG	PUSH_ACK: 02 b708 01
0:15:32.966358	LOG	GPS Time from gateway: 1385110790158
0:15:32.967356	LOG	PUSH_DATA: Protocol version = 02, Token = b708, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 949269559, 'time': '2023-11-27T08:59:31.158435Z', 'tmms': 1385110790158, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3235, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAdwICcHzPv9idCs7st3Y='}]}
0:15:32.969358	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0277, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ceecb776)
0:15:32.970357	LOG	Server <---------- DUT
0:15:32.972358	LOG	Repeated frame. It does not count
0:15:35.442564	LOG	First uplink received. Open reception window.
0:15:35.548211	LOG	PUSH_ACK: 02 7189 01
0:15:35.550178	LOG	GPS Time from gateway: 1385110792741

0:15:35.551178	LOG	PUSH_DATA: Protocol version = 02, Token = 7189, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 951852348, 'time': '2023-11-27T08:59:33.741224Z', 'tmms': 1385110792741, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.0, 'foff': -3233, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAeAIC81hAmdn2Ll0VNSk='}]}
0:15:35.553179	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0278, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5d153529)
0:15:35.554178	LOG	Server <---------- DUT
0:15:35.555178	LOG	Count = 15
0:15:37.865281	LOG	First uplink received. Open reception window.
0:15:37.886878	LOG	PULL_DATA: 02 b38e 02 0016c001ff1025bf
0:15:37.887879	LOG	PULL_ACK: 02 b38e 04
0:15:37.967816	LOG	PUSH_ACK: 02 990a 01
0:15:37.969783	LOG	GPS Time from gateway: 1385110795158
0:15:37.970782	LOG	PUSH_DATA: Protocol version = 02, Token = 990a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 954269741, 'time': '2023-11-27T08:59:36.158616Z', 'tmms': 1385110795158, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.0, 'foff': -3235, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAeAIC81hAmdn2Ll0VNSk='}]}
0:15:37.972798	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0278, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5d153529)
0:15:37.973781	LOG	Server <---------- DUT
0:15:37.975783	LOG	Repeated frame. It does not count
0:15:40.446662	LOG	First uplink received. Open reception window.
0:15:40.549976	LOG	PUSH_ACK: 02 2780 01
0:15:40.551943	LOG	GPS Time from gateway: 1385110797740
0:15:40.552945	LOG	PUSH_DATA: Protocol version = 02, Token = 2780, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 956852113, 'time': '2023-11-27T08:59:38.740988Z', 'tmms': 1385110797740, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3235, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAeQICkEtHYJdyw2MVdwI='}]}
0:15:40.554971	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0279, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 63157702)
0:15:40.555976	LOG	Server <---------- DUT
0:15:40.557969	LOG	Count = 16
0:15:42.865427	LOG	First uplink received. Open reception window.
0:15:42.971750	LOG	PUSH_ACK: 02 d4eb 01
0:15:42.973751	LOG	GPS Time from gateway: 1385110800157
0:15:42.974720	LOG	PUSH_DATA: Protocol version = 02, Token = d4eb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 959268935, 'time': '2023-11-27T08:59:41.157808Z', 'tmms': 1385110800157, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3237, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAeQICkEtHYJdyw2MVdwI='}]}
0:15:42.976720	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0279, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 63157702)
0:15:42.977718	LOG	Server <---------- DUT
0:15:42.979725	LOG	Repeated frame. It does not count
0:15:45.444269	LOG	First uplink received. Open reception window.
0:15:45.547818	LOG	PUSH_ACK: 02 edee 01
0:15:45.549785	LOG	GPS Time from gateway: 1385110802740
0:15:45.550785	LOG	PUSH_DATA: Protocol version = 02, Token = edee, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 961851893, 'time': '2023-11-27T08:59:43.740767Z', 'tmms': 1385110802740, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3233, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAegICd17JlDavhTYdrRI='}]}

0:15:45.551785	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 027a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 361dad12)
0:15:45.553785	LOG	Server <---------- DUT
0:15:45.554784	LOG	Count = 17
0:15:47.858103	LOG	First uplink received. Open reception window.
0:15:47.964883	LOG	PUSH_ACK: 02 2762 01
0:15:47.966886	LOG	GPS Time from gateway: 1385110805158
0:15:47.967851	LOG	PUSH_DATA: Protocol version = 02, Token = 2762, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 964269333, 'time': '2023-11-27T08:59:46.158205Z', 'tmms': 1385110805158, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3235, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAegICd17JlDavhTYdrRI='}]}
0:15:47.969884	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 027a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 361dad12)
0:15:47.970884	LOG	Server <---------- DUT
0:15:47.972885	LOG	Repeated frame. It does not count
0:15:47.974884	LOG	GPS Time updated: 1385110805274
0:15:47.975851	LOG	PULL_DATA: 02 7e76 02 0016c001ff1025bf
0:15:47.977851	LOG	PULL_ACK: 02 7e76 04
0:15:50.441130	LOG	First uplink received. Open reception window.
0:15:50.547601	LOG	PUSH_ACK: 02 b905 01
0:15:50.549570	LOG	GPS Time from gateway: 1385110807740
0:15:50.550569	LOG	PUSH_DATA: Protocol version = 02, Token = b905, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 966851631, 'time': '2023-11-27T08:59:48.740504Z', 'tmms': 1385110807740, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.0, 'foff': -3235, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAewICNuerjk45+gr4zlM='}]}
0:15:50.552580	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 027b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0af8ce53)
0:15:50.553569	LOG	Server <---------- DUT
0:15:50.555570	LOG	Count = 18
0:15:52.864876	LOG	First uplink received. Open reception window.
0:15:52.967331	LOG	PUSH_ACK: 02 32da 01
0:15:52.969295	LOG	GPS Time from gateway: 1385110810157
0:15:52.970296	LOG	PUSH_DATA: Protocol version = 02, Token = 32da, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 969268861, 'time': '2023-11-27T08:59:51.157732Z', 'tmms': 1385110810157, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.0, 'foff': -3235, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAewICNuerjk45+gr4zlM='}]}
0:15:52.972308	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 027b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0af8ce53)
0:15:52.973294	LOG	Server <---------- DUT
0:15:52.975295	LOG	Repeated frame. It does not count
0:15:55.447158	LOG	First uplink received. Open reception window.
0:15:55.549808	LOG	PUSH_ACK: 02 67de 01
0:15:55.551774	LOG	GPS Time from gateway: 1385110812740
0:15:55.552773	LOG	PUSH_DATA: Protocol version = 02, Token = 67de, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 971851387, 'time': '2023-11-27T08:59:53.740259Z', 'tmms': 1385110812740, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3233, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAfAICaXnd+rQnVFb45PQ='}]}
0:15:55.554774	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 027c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 56f8e4f4)
0:15:55.555773	LOG	Server <---------- DUT
0:15:55.557774	LOG	Count = 19
0:15:57.867277	LOG	First uplink received. Open reception window.

0:15:57.981868	LOG	PUSH_ACK: 02 e3cb 01
0:15:57.983868	LOG	GPS Time from gateway: 1385110815157
0:15:57.984838	LOG	PUSH_DATA: Protocol version = 02, Token = e3cb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 974268681, 'time': '2023-11-27T08:59:56.157553Z', 'tmms': 1385110815157, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3235, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAfAICaXnd+rQnVFb45PQ='}]}
0:15:57.986836	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 027c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 56f8e4f4)
0:15:57.987835	LOG	Server <---------- DUT
0:15:57.989845	LOG	Repeated frame. It does not count
0:15:58.066786	LOG	GPS Time updated: 1385110815356
0:15:58.068771	LOG	PULL_DATA: 02 39d0 02 0016c001ff1025bf
0:15:58.069769	LOG	PULL_ACK: 02 39d0 04
0:16:00.446338	LOG	First uplink received. Open reception window.
0:16:00.559893	LOG	PUSH_ACK: 02 95f1 01
0:16:00.562066	LOG	GPS Time from gateway: 1385110817739
0:16:00.563752	LOG	PUSH_DATA: Protocol version = 02, Token = 95f1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 976851186, 'time': '2023-11-27T08:59:58.740057Z', 'tmms': 1385110817739, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3233, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAfQICDGaxrt6Hj8XIbao='}]}
0:16:00.565391	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 027d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c5c86daa)
0:16:00.567031	LOG	Server <---------- DUT
0:16:00.569349	LOG	Count = 20
0:16:02.859765	LOG	First uplink received. Open reception window.
0:16:02.962906	LOG	PUSH_ACK: 02 d806 01
0:16:02.964907	LOG	GPS Time from gateway: 1385110820157
0:16:02.966908	LOG	PUSH_DATA: Protocol version = 02, Token = d806, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 979268818, 'time': '2023-11-27T09:00:01.157689Z', 'tmms': 1385110820157, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3235, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAfQICDGaxrt6Hj8XIbao='}]}
0:16:02.967906	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 027d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c5c86daa)
0:16:02.969907	LOG	Server <---------- DUT
0:16:02.971907	LOG	Repeated frame. It does not count
0:16:05.442715	LOG	First uplink received. Open reception window.
0:16:05.552809	LOG	PUSH_ACK: 02 7a71 01
0:16:05.555319	LOG	GPS Time from gateway: 1385110822739
0:16:05.556329	LOG	PUSH_DATA: Protocol version = 02, Token = 7a71, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 981850923, 'time': '2023-11-27T09:00:03.739793Z', 'tmms': 1385110822739, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3231, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAfgICxqkVdAaujbBv0bY='}]}
0:16:05.559328	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 027e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b06fd1b6)
0:16:05.561329	LOG	Server <---------- DUT
0:16:05.563328	LOG	Count = 21
0:16:07.857959	LOG	First uplink received. Open reception window.
0:16:07.969056	LOG	PUSH_ACK: 02 102d 01
0:16:07.971025	LOG	GPS Time from gateway: 1385110825156
0:16:07.973024	LOG	PUSH_DATA: Protocol version = 02, Token = 102d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 984267778, 'time': '2023-11-27T09:00:06.156648Z', 'tmms': 1385110825156, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3233, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAfgICxqkVdAaujbBv0bY='}]}
0:16:07.974024	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 027e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b06fd1b6)
0:16:07.976024	LOG	Server <---------- DUT
0:16:07.977024	LOG	Repeated frame. It does not count
0:16:08.146471	LOG	GPS Time updated: 1385110825446
0:16:08.147471	LOG	PULL_DATA: 02 ff14 02 0016c001ff1025bf
0:16:08.150016	LOG	PULL_ACK: 02 ff14 04
0:16:10.443797	LOG	First uplink received. Open reception window.
0:16:10.557419	LOG	PUSH_ACK: 02 941b 01
0:16:10.559383	LOG	GPS Time from gateway: 1385110827739
0:16:10.561384	LOG	PUSH_DATA: Protocol version = 02, Token = 941b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 986850698, 'time': '2023-11-27T09:00:08.739567Z', 'tmms': 1385110827739, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3231, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAfwICSy9YavxVcd6edS8='}]}
0:16:10.563383	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 027f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: de9e752f)
0:16:10.564384	LOG	Server <---------- DUT
0:16:10.566382	LOG	Count = 22
0:16:12.864247	LOG	First uplink received. Open reception window.
0:16:12.970852	LOG	PUSH_ACK: 02 1281 01
0:16:12.975851	LOG	GPS Time from gateway: 1385110830156
0:16:12.976849	LOG	PUSH_DATA: Protocol version = 02, Token = 1281, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 989268080, 'time': '2023-11-27T09:00:11.156949Z', 'tmms': 1385110830156, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3231, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAfwICSy9YavxVcd6edS8='}]}
0:16:12.978857	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 027f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: de9e752f)
0:16:12.980856	LOG	Server <---------- DUT
0:16:12.982857	LOG	Repeated frame. It does not count
0:16:15.449401	LOG	First uplink received. Open reception window.
0:16:15.550803	LOG	PUSH_ACK: 02 0939 01
0:16:15.552769	LOG	GPS Time from gateway: 1385110832739
0:16:15.553767	LOG	PUSH_DATA: Protocol version = 02, Token = 0939, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 991850446, 'time': '2023-11-27T09:00:13.739313Z', 'tmms': 1385110832739, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3231, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAgAICSSOpFwwAkPZY38c='}]}
0:16:15.555769	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0280, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f658dfc7)
0:16:15.557000	LOG	Server <---------- DUT
0:16:15.559002	LOG	Count = 23
0:16:17.861191	LOG	First uplink received. Open reception window.
0:16:17.970856	LOG	PUSH_ACK: 02 e387 01
0:16:17.972862	LOG	GPS Time from gateway: 1385110835156
0:16:17.973824	LOG	PUSH_DATA: Protocol version = 02, Token = e387, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 994268124, 'time': '2023-11-27T09:00:16.156992Z', 'tmms': 1385110835156, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3231, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAgAICSSOpFwwAkPZY38c='}]}
0:16:17.975859	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0280, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f658dfc7)
0:16:17.976862	LOG	Server <---------- DUT

0:16:17.978862	LOG	Repeated frame. It does not count
0:16:18.226724	LOG	GPS Time updated: 1385110835521
0:16:18.227691	LOG	PULL_DATA: 02 b09c 02 0016c001ff1025bf
0:16:18.229690	LOG	PULL_ACK: 02 b09c 04
0:16:20.447030	LOG	First uplink received. Open reception window.
0:16:20.558289	LOG	PUSH_ACK: 02 8ce2 01
0:16:20.560283	LOG	GPS Time from gateway: 1385110837738
0:16:20.561256	LOG	PUSH_DATA: Protocol version = 02, Token = 8ce2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 996850214, 'time': '2023-11-27T09:00:18.739080Z', 'tmms': 1385110837738, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3227, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAgQICHH37ewBtiY4UnXY='}]}
0:16:20.563257	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0281, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8e149d76)
0:16:20.564255	LOG	Server <---------- DUT
0:16:20.566264	LOG	Count = 24
0:16:22.863665	LOG	First uplink received. Open reception window.
0:16:22.979195	LOG	PUSH_ACK: 02 76f3 01
0:16:22.981163	LOG	GPS Time from gateway: 1385110840155
0:16:22.982197	LOG	PUSH_DATA: Protocol version = 02, Token = 76f3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 999267144, 'time': '2023-11-27T09:00:21.156011Z', 'tmms': 1385110840155, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3231, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAgQICHH37ewBtiY4UnXY='}]}
0:16:22.984199	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0281, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8e149d76)
0:16:22.985165	LOG	Server <---------- DUT
0:16:22.987165	LOG	Repeated frame. It does not count
0:16:25.445914	LOG	First uplink received. Open reception window.
0:16:25.546988	LOG	PUSH_ACK: 02 c059 01
0:16:25.548952	LOG	GPS Time from gateway: 1385110842738
0:16:25.549952	LOG	PUSH_DATA: Protocol version = 02, Token = c059, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1001849970, 'time': '2023-11-27T09:00:23.738837Z', 'tmms': 1385110842738, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3231, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAggICFo4sapRK3bX12xs='}]}
0:16:25.551957	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0282, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b5f5db1b)
0:16:25.552957	LOG	Server <---------- DUT
0:16:25.554957	LOG	Count = 25
0:16:27.857752	LOG	First uplink received. Open reception window.
0:16:27.970931	LOG	PUSH_ACK: 02 bef9 01
0:16:27.972899	LOG	GPS Time from gateway: 1385110845155
0:16:27.974903	LOG	PUSH_DATA: Protocol version = 02, Token = bef9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1004267120, 'time': '2023-11-27T09:00:26.155986Z', 'tmms': 1385110845155, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3231, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAggICFo4sapRK3bX12xs='}]}
0:16:27.975898	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0282, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b5f5db1b)
0:16:27.977900	LOG	Server <---------- DUT
0:16:27.978904	LOG	Repeated frame. It does not count
0:16:28.307157	LOG	GPS Time updated: 1385110845604
0:16:28.308190	LOG	PULL_DATA: 02 2953 02 0016c001ff1025bf
0:16:28.310165	LOG	PULL_ACK: 02 2953 04
0:16:30.440668	LOG	First uplink received. Open reception window.

0:16:30.546365	LOG	PUSH_ACK: 02 ea01 01
0:16:30.548338	LOG	GPS Time from gateway: 1385110847738
0:16:30.549333	LOG	PUSH_DATA: Protocol version = 02, Token = ea01, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1006849741, 'time': '2023-11-27T09:00:28.738607Z', 'tmms': 1385110847738, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3227, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAgwIC7ASU3hlb4cRpMjg='}]}
0:16:30.550837	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0283, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c4693238)
0:16:30.552841	LOG	Server <---------- DUT
0:16:30.553842	LOG	Count = 26
0:16:32.864805	LOG	First uplink received. Open reception window.
0:16:32.975044	LOG	PUSH_ACK: 02 5964 01
0:16:32.977009	LOG	GPS Time from gateway: 1385110850155
0:16:32.978009	LOG	PUSH_DATA: Protocol version = 02, Token = 5964, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1009266874, 'time': '2023-11-27T09:00:31.155739Z', 'tmms': 1385110850155, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3227, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAgwIC7ASU3hlb4cRpMjg='}]}
0:16:32.980019	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0283, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c4693238)
0:16:32.981018	LOG	Server <---------- DUT
0:16:32.983027	LOG	Repeated frame. It does not count
0:16:37.100182	LOG	First uplink received. Open reception window.
0:16:37.203838	LOG	PUSH_ACK: 02 7269 01
0:16:37.205807	LOG	GPS Time from gateway: 1385110854394
0:16:37.206807	LOG	PUSH_DATA: Protocol version = 02, Token = 7269, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1013506058, 'time': '2023-11-27T09:00:35.394922Z', 'tmms': 1385110854394, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3226, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAhAICtE0lBqscGANrGNw='}]}
0:16:37.208811	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0284, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 036b18dc)
0:16:37.209811	LOG	Server <---------- DUT
0:16:37.210811	LOG	Count = 27
0:16:38.406865	LOG	GPS Time updated: 1385110855701
0:16:38.408827	LOG	PULL_DATA: 02 9172 02 0016c001ff1025bf
0:16:38.409827	LOG	PULL_ACK: 02 9172 04
0:16:39.512740	LOG	First uplink received. Open reception window.
0:16:39.622621	LOG	PUSH_ACK: 02 7dd8 01
0:16:39.624588	LOG	GPS Time from gateway: 1385110856811
0:16:39.625624	LOG	PUSH_DATA: Protocol version = 02, Token = 7dd8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1015922778, 'time': '2023-11-27T09:00:37.811642Z', 'tmms': 1385110856811, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3226, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAhAICtE0lBqscGANrGNw='}]}
0:16:39.627622	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0284, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 036b18dc)
0:16:39.628626	LOG	Server <---------- DUT
0:16:39.630590	LOG	Repeated frame. It does not count
0:16:46.874712	LOG	First uplink received. Open reception window.
0:16:46.977869	LOG	PUSH_ACK: 02 f3ab 01
0:16:46.979875	LOG	GPS Time from gateway: 1385110864170
0:16:46.980886	LOG	PUSH_DATA: Protocol version = 02, Token = f3ab, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1023281534, 'time': '2023-11-27T09:00:45.170395Z', 'tmms': 1385110864170, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3227, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAhQICSDwOiK16j9jFSLo='}]}
0:16:46.982879	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0285, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d8c548ba)
0:16:46.983879	LOG	Server <---------- DUT
0:16:46.985879	LOG	Count = 28
0:16:48.487573	LOG	GPS Time updated: 1385110865783
0:16:48.488604	LOG	PULL_DATA: 02 92fd 02 0016c001ff1025bf
0:16:48.490572	LOG	PULL_ACK: 02 92fd 04
0:16:49.297818	LOG	First uplink received. Open reception window.
0:16:49.412877	LOG	PUSH_ACK: 02 e575 01
0:16:49.414877	LOG	GPS Time from gateway: 1385110866587
0:16:49.416850	LOG	PUSH_DATA: Protocol version = 02, Token = e575, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1025698359, 'time': '2023-11-27T09:00:47.587221Z', 'tmms': 1385110866587, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3231, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAhQICSDwOiK16j9jFSLo='}]}
0:16:49.417856	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0285, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d8c548ba)
0:16:49.418855	LOG	Server <---------- DUT
0:16:49.420853	LOG	Repeated frame. It does not count
0:16:51.879414	LOG	First uplink received. Open reception window.
0:16:51.983458	LOG	PUSH_ACK: 02 8495 01
0:16:51.985462	LOG	GPS Time from gateway: 1385110869169
0:16:51.987426	LOG	PUSH_DATA: Protocol version = 02, Token = 8495, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1028281274, 'time': '2023-11-27T09:00:50.170134Z', 'tmms': 1385110869169, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3227, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAhgICxAmpcyyhQi/7pHo='}]}
0:16:51.988430	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0286, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2ffba47a)
0:16:51.990450	LOG	Server <---------- DUT
0:16:51.991464	LOG	Count = 29
0:16:54.287400	LOG	First uplink received. Open reception window.
0:16:54.401320	LOG	PUSH_ACK: 02 1111 01
0:16:54.405511	LOG	GPS Time from gateway: 1385110871586
0:16:54.407956	LOG	PUSH_DATA: Protocol version = 02, Token = 1111, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1030698098, 'time': '2023-11-27T09:00:52.586959Z', 'tmms': 1385110871586, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3231, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAhgICxAmpcyyhQi/7pHo='}]}
0:16:54.410321	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0286, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2ffba47a)
0:16:54.412080	LOG	Server <---------- DUT
0:16:54.413777	LOG	Repeated frame. It does not count
0:16:56.879085	LOG	First uplink received. Open reception window.
0:16:56.988522	LOG	PUSH_ACK: 02 7787 01
0:16:56.990489	LOG	GPS Time from gateway: 1385110874169
0:16:56.991489	LOG	PUSH_DATA: Protocol version = 02, Token = 7787, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1033281054, 'time': '2023-11-27T09:00:55.169915Z', 'tmms': 1385110874169, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3231, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAhwICnGYoLCUqZ30hvwc='}]}
0:16:56.992489	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0287, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7d21bf07)
0:16:56.995001	LOG	Server <---------- DUT

0:16:56.997000	LOG	Count = 30
0:16:58.567607	LOG	GPS Time updated: 1385110875857
0:16:58.569572	LOG	PULL_DATA: 02 0437 02 0016c001ff1025bf
0:16:58.570571	LOG	PULL_ACK: 02 0437 04
0:16:59.294084	LOG	First uplink received. Open reception window.
0:16:59.396476	LOG	PUSH_ACK: 02 e1c3 01
0:16:59.398476	LOG	GPS Time from gateway: 1385110876586
0:16:59.399981	LOG	PUSH_DATA: Protocol version = 02, Token = e1c3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1035697785, 'time': '2023-11-27T09:00:57.586645Z', 'tmms': 1385110876586, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3233, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAhwICnGYoLCUqZ30hvwc='}]}
0:16:59.400986	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0287, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7d21bf07)
0:16:59.402987	LOG	Server <---------- DUT
0:16:59.403986	LOG	Repeated frame. It does not count
0:17:01.879139	LOG	First uplink received. Open reception window.
0:17:01.987677	LOG	PUSH_ACK: 02 300a 01
0:17:01.989674	LOG	GPS Time from gateway: 1385110879169
0:17:01.990645	LOG	PUSH_DATA: Protocol version = 02, Token = 300a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1038280802, 'time': '2023-11-27T09:01:00.169662Z', 'tmms': 1385110879169, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3233, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAiAIC/rEi2E2Srpwd/Z0='}]}
0:17:01.992653	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0288, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9c1dfd9d)
0:17:01.994157	LOG	Server <---------- DUT
0:17:01.996161	LOG	Count = 31
0:17:04.292127	LOG	First uplink received. Open reception window.
0:17:04.395659	LOG	PUSH_ACK: 02 161b 01
0:17:04.397626	LOG	GPS Time from gateway: 1385110881586
0:17:04.398632	LOG	PUSH_DATA: Protocol version = 02, Token = 161b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1040697778, 'time': '2023-11-27T09:01:02.586637Z', 'tmms': 1385110881586, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3233, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAiAIC/rEi2E2Srpwd/Z0='}]}
0:17:04.401144	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0288, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9c1dfd9d)
0:17:04.402143	LOG	Server <---------- DUT
0:17:04.405144	LOG	Repeated frame. It does not count
0:17:06.872283	LOG	First uplink received. Open reception window.
0:17:06.973635	LOG	PUSH_ACK: 02 0c70 01
0:17:06.975681	LOG	GPS Time from gateway: 1385110884169
0:17:06.976674	LOG	PUSH_DATA: Protocol version = 02, Token = 0c70, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1043280577, 'time': '2023-11-27T09:01:05.169436Z', 'tmms': 1385110884169, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.0, 'foff': -3227, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAiQICOWocopm9jGMunqk='}]}
0:17:06.978648	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0289, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 632e9ea9)
0:17:06.979636	LOG	Server <---------- DUT
0:17:06.981636	LOG	Count = 32
0:17:08.647465	LOG	GPS Time updated: 1385110885944
0:17:08.648464	LOG	PULL_DATA: 02 7f7e 02 0016c001ff1025bf
0:17:08.650465	LOG	PULL_ACK: 02 7f7e 04
0:17:09.296324	LOG	First uplink received. Open reception window.

0:17:09.408343	LOG	PUSH_ACK: 02 d911 01
0:17:09.410311	LOG	GPS Time from gateway: 1385110886586
0:17:09.411311	LOG	PUSH_DATA: Protocol version = 02, Token = d911, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1045698232, 'time': '2023-11-27T09:01:07.587089Z', 'tmms': 1385110886586, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.0, 'foff': -3227, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAiQICOWocopm9jGMunqk='}]}
0:17:09.413312	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0289, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 632e9ea9)
0:17:09.414311	LOG	Server <---------- DUT
0:17:09.416311	LOG	Repeated frame. It does not count
0:17:12.065824	LOG	First uplink received. Open reception window.
0:17:12.181541	LOG	PUSH_ACK: 02 e989 01
0:17:12.183546	LOG	GPS Time from gateway: 1385110889354
0:17:12.185545	LOG	PUSH_DATA: Protocol version = 02, Token = e989, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1048465692, 'time': '2023-11-27T09:01:10.354550Z', 'tmms': 1385110889354, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.0, 'foff': -3227, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAigICGiV9TZ+X81+6rRg='}]}
0:17:12.186546	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 028a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5fbaad18)
0:17:12.188577	LOG	Server <---------- DUT
0:17:12.190583	LOG	Count = 33
0:17:12.191579	LOG	Waiting for the retransmissions
0:17:14.663545	LOG	First uplink received. Open reception window.
0:17:14.771068	LOG	PUSH_ACK: 02 68dd 01
0:17:14.773069	LOG	GPS Time from gateway: 1385110891956
0:17:14.774070	LOG	PUSH_DATA: Protocol version = 02, Token = 68dd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1051068103, 'time': '2023-11-27T09:01:12.956959Z', 'tmms': 1385110891956, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3227, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAigICGiV9TZ+X81+6rRg='}]}
0:17:14.775609	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 028a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5fbaad18)
0:17:14.777649	LOG	Server <---------- DUT
0:17:14.794623	LOG	Expected number of uplink messages have been received
0:17:14.798237	LOG	Test adaptive data rate control in frame header process starts
0:17:18.727077	LOG	GPS Time updated: 1385110896021
0:17:18.729048	LOG	PULL_DATA: 02 35fb 02 0016c001ff1025bf
0:17:18.730054	LOG	PULL_ACK: 02 35fb 04
0:17:22.060896	LOG	First uplink received. Open reception window.
0:17:22.166450	LOG	PUSH_ACK: 02 da1a 01
0:17:22.168453	LOG	GPS Time from gateway: 1385110899353
0:17:22.169455	LOG	PUSH_DATA: Protocol version = 02, Token = da1a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1058465175, 'time': '2023-11-27T09:01:20.354031Z', 'tmms': 1385110899353, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3227, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAiwICq1Rh0rQhb0Ezuck='}]}
0:17:22.171459	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 028b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4133b9c9)
0:17:22.172459	LOG	Server <---------- DUT
0:17:22.173459	LOG	Count = 2
0:17:24.662760	LOG	First uplink received. Open reception window.
0:17:24.767666	LOG	PUSH_ACK: 02 705e 01
0:17:24.769635	LOG	GPS Time from gateway: 1385110901956

0:17:24.770634	LOG	PUSH_DATA: Protocol version = 02, Token = 705e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1061067579, 'time': '2023-11-27T09:01:22.956435Z', 'tmms': 1385110901956, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3227, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAiwICq1Rh0rQhb0Ezuck='}]}
0:17:24.772639	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 028b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4133b9c9)
0:17:24.773638	LOG	Server <---------- DUT
0:17:24.775640	LOG	Repeated frame. It does not count
0:17:28.815081	LOG	GPS Time updated: 1385110906109
0:17:28.817049	LOG	PULL_DATA: 02 af82 02 0016c001ff1025bf
0:17:28.818048	LOG	PULL_ACK: 02 af82 04
0:17:32.062995	LOG	First uplink received. Open reception window.
0:17:32.168876	LOG	PUSH_ACK: 02 6f26 01
0:17:32.170844	LOG	GPS Time from gateway: 1385110909353
0:17:32.171844	LOG	PUSH_DATA: Protocol version = 02, Token = 6f26, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1068464661, 'time': '2023-11-27T09:01:30.353515Z', 'tmms': 1385110909353, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 10, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.0, 'foff': -3227, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAjAICJMBQ5Gjqnh/iwtg='}]}
0:17:32.173850	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 028c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1fe2c2d8)
0:17:32.174850	LOG	Server <---------- DUT
0:17:32.176849	LOG	Count = 3
0:17:34.665600	LOG	First uplink received. Open reception window.
0:17:34.775959	LOG	PUSH_ACK: 02 0974 01
0:17:34.777963	LOG	GPS Time from gateway: 1385110911955
0:17:34.778964	LOG	PUSH_DATA: Protocol version = 02, Token = 0974, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1071067213, 'time': '2023-11-27T09:01:32.956067Z', 'tmms': 1385110911955, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3227, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAjAICJMBQ5Gjqnh/iwtg='}]}
0:17:34.780963	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 028c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1fe2c2d8)
0:17:34.781964	LOG	Server <---------- DUT
0:17:34.784816	LOG	Repeated frame. It does not count
0:17:38.897457	LOG	GPS Time updated: 1385110916187
0:17:38.899427	LOG	PULL_DATA: 02 5dea 02 0016c001ff1025bf
0:17:38.900934	LOG	PULL_ACK: 02 5dea 04
0:17:42.059431	LOG	First uplink received. Open reception window.
0:17:42.173214	LOG	PUSH_ACK: 02 f54d 01
0:17:42.175215	LOG	GPS Time from gateway: 1385110919352
0:17:42.176182	LOG	PUSH_DATA: Protocol version = 02, Token = f54d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1078464144, 'time': '2023-11-27T09:01:40.352996Z', 'tmms': 1385110919352, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3226, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAjQICI4WpUcWpkvPKw2I='}]}
0:17:42.178217	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 028d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f3cac362)
0:17:42.179212	LOG	Server <---------- DUT
0:17:42.181179	LOG	Count = 4
0:17:44.662396	LOG	First uplink received. Open reception window.
0:17:44.776133	LOG	PUSH_ACK: 02 a801 01
0:17:44.778139	LOG	GPS Time from gateway: 1385110921956
0:17:44.779139	LOG	PUSH_DATA: Protocol version = 02, Token = a801, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1081068022, 'time': '2023-11-27T09:01:42.956874Z',

		'tmms': 1385110921956, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3224, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAjQICI4WpUcWpkvPKw2I='}]}
0:17:44.781138	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 028d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f3cac362)
0:17:44.782138	LOG	Server <---------- DUT
0:17:44.784139	LOG	Repeated frame. It does not count
0:17:48.977644	LOG	GPS Time updated: 1385110926271
0:17:48.978613	LOG	PULL_DATA: 02 bd28 02 0016c001ff1025bf
0:17:48.980618	LOG	PULL_ACK: 02 bd28 04
0:17:52.059620	LOG	First uplink received. Open reception window.
0:17:52.160056	LOG	PUSH_ACK: 02 7f97 01
0:17:52.162059	LOG	GPS Time from gateway: 1385110929352
0:17:52.163057	LOG	PUSH_DATA: Protocol version = 02, Token = 7f97, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1088463636, 'time': '2023-11-27T09:01:50.352485Z', 'tmms': 1385110929352, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3227, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAjgICpvnZ9Qdm+McZts0='}]}
0:17:52.165072	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 028e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c719b6cd)
0:17:52.166058	LOG	Server <---------- DUT
0:17:52.168064	LOG	Count = 5
0:17:54.666119	LOG	First uplink received. Open reception window.
0:17:54.773903	LOG	PUSH_ACK: 02 3970 01
0:17:54.776406	LOG	GPS Time from gateway: 1385110931954
0:17:54.777411	LOG	PUSH_DATA: Protocol version = 02, Token = 3970, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1091065988, 'time': '2023-11-27T09:01:52.954838Z', 'tmms': 1385110931954, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3223, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAjgICpvnZ9Qdm+McZts0='}]}
0:17:54.778410	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 028e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c719b6cd)
0:17:54.780409	LOG	Server <---------- DUT
0:17:54.782410	LOG	Repeated frame. It does not count
0:17:59.067909	LOG	GPS Time updated: 1385110936355
0:17:59.068909	LOG	PULL_DATA: 02 ee22 02 0016c001ff1025bf
0:17:59.070925	LOG	PULL_ACK: 02 ee22 04
0:18:02.062544	LOG	First uplink received. Open reception window.
0:18:02.163959	LOG	PUSH_ACK: 02 f956 01
0:18:02.165925	LOG	GPS Time from gateway: 1385110939351
0:18:02.166928	LOG	PUSH_DATA: Protocol version = 02, Token = f956, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1098463123, 'time': '2023-11-27T09:02:00.351970Z', 'tmms': 1385110939351, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3227, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAjwICM1cDIf6RCk6IOvc='}]}
0:18:02.168932	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 028f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4e883af7)
0:18:02.169931	LOG	Server <---------- DUT
0:18:02.171933	LOG	Count = 6
0:18:04.665478	LOG	First uplink received. Open reception window.
0:18:04.779441	LOG	PUSH_ACK: 02 ff2e 01
0:18:04.781406	LOG	GPS Time from gateway: 1385110941954
0:18:04.782406	LOG	PUSH_DATA: Protocol version = 02, Token = ff2e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1101065853, 'time': '2023-11-27T09:02:02.954701Z', 'tmms': 1385110941954, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3222, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAjwICM1cDIf6RCk6IOvc='}]}
0:18:04.784406	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 028f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4e883af7)
0:18:04.785406	LOG	Server <---------- DUT
0:18:04.787406	LOG	Repeated frame. It does not count
0:18:09.147378	LOG	GPS Time updated: 1385110946436
0:18:09.149378	LOG	PULL_DATA: 02 51d9 02 0016c001ff1025bf
0:18:09.151377	LOG	PULL_ACK: 02 51d9 04
0:18:12.061153	LOG	First uplink received. Open reception window.
0:18:12.170373	LOG	PUSH_ACK: 02 38f7 01
0:18:12.172341	LOG	GPS Time from gateway: 1385110949351
0:18:12.174341	LOG	PUSH_DATA: Protocol version = 02, Token = 38f7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1108462609, 'time': '2023-11-27T09:02:10.351456Z', 'tmms': 1385110949351, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3223, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAkAICOsrQdA+Y83OcIfs='}]}
0:18:12.175346	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0290, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 739c21fb)
0:18:12.177346	LOG	Server <---------- DUT
0:18:12.179346	LOG	Count = 7
0:18:14.666437	LOG	First uplink received. Open reception window.
0:18:14.773041	LOG	PUSH_ACK: 02 44a7 01
0:18:14.775010	LOG	GPS Time from gateway: 1385110951954
0:18:14.776525	LOG	PUSH_DATA: Protocol version = 02, Token = 44a7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1111065607, 'time': '2023-11-27T09:02:12.954453Z', 'tmms': 1385110951954, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3221, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAkAICOsrQdA+Y83OcIfs='}]}
0:18:14.778566	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0290, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 739c21fb)
0:18:14.780563	LOG	Server <---------- DUT
0:18:14.782531	LOG	Repeated frame. It does not count
0:18:19.227924	LOG	GPS Time updated: 1385110956515
0:18:19.228925	LOG	PULL_DATA: 02 1d4d 02 0016c001ff1025bf
0:18:19.230930	LOG	PULL_ACK: 02 1d4d 04
0:18:22.054330	LOG	First uplink received. Open reception window.
0:18:22.160972	LOG	PUSH_ACK: 02 1b7a 01
0:18:22.162974	LOG	GPS Time from gateway: 1385110959350
0:18:22.163974	LOG	PUSH_DATA: Protocol version = 02, Token = 1b7a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1118462100, 'time': '2023-11-27T09:02:20.350945Z', 'tmms': 1385110959350, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3223, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAkQICNf124IpoBIya4Ig='}]}
0:18:22.165974	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0291, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8c9ae088)
0:18:22.166974	LOG	Server <---------- DUT
0:18:22.168979	LOG	Count = 8
0:18:24.657593	LOG	First uplink received. Open reception window.
0:18:24.763819	LOG	PUSH_ACK: 02 3852 01
0:18:24.765821	LOG	GPS Time from gateway: 1385110961953
0:18:24.766823	LOG	PUSH_DATA: Protocol version = 02, Token = 3852, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1121065074, 'time': '2023-11-27T09:02:22.953917Z', 'tmms': 1385110961953, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3218, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAkQICNf124IpoBIya4Ig='}]}

0:18:24.768879	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0291, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8c9ae088)
0:18:24.769859	LOG	Server <---------- DUT
0:18:24.771853	LOG	Repeated frame. It does not count
0:18:29.308046	LOG	GPS Time updated: 1385110966604
0:18:29.309554	LOG	PULL_DATA: 02 082d 02 0016c001ff1025bf
0:18:29.310554	LOG	PULL_ACK: 02 082d 04
0:18:32.061244	LOG	First uplink received. Open reception window.
0:18:32.165268	LOG	PUSH_ACK: 02 a0b0 01
0:18:32.167235	LOG	GPS Time from gateway: 1385110969350
0:18:32.169242	LOG	PUSH_DATA: Protocol version = 02, Token = a0b0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1128461581, 'time': '2023-11-27T09:02:30.350424Z', 'tmms': 1385110969350, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3219, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAkgICHDRd8WLY9cRx2F0='}]}
0:18:32.170277	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0292, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c471d85d)
0:18:32.171289	LOG	Server <---------- DUT
0:18:32.173273	LOG	Count = 9
0:18:34.662082	LOG	First uplink received. Open reception window.
0:18:34.766950	LOG	PUSH_ACK: 02 2e5d 01
0:18:34.768495	LOG	GPS Time from gateway: 1385110971952
0:18:34.770496	LOG	PUSH_DATA: Protocol version = 02, Token = 2e5d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1131064161, 'time': '2023-11-27T09:02:32.953004Z', 'tmms': 1385110971952, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3214, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAkgICHDRd8WLY9cRx2F0='}]}
0:18:34.771527	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0292, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c471d85d)
0:18:34.773498	LOG	Server <---------- DUT
0:18:34.774541	LOG	Repeated frame. It does not count
0:18:39.397656	LOG	GPS Time updated: 1385110976687
0:18:39.399623	LOG	PULL_DATA: 02 d8ad 02 0016c001ff1025bf
0:18:39.401624	LOG	PULL_ACK: 02 d8ad 04
0:18:42.053729	LOG	First uplink received. Open reception window.
0:18:42.158144	LOG	PUSH_ACK: 02 1de2 01
0:18:42.160149	LOG	GPS Time from gateway: 1385110979349
0:18:42.161148	LOG	PUSH_DATA: Protocol version = 02, Token = 1de2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1138461075, 'time': '2023-11-27T09:02:40.349916Z', 'tmms': 1385110979349, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3214, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAkwIC6Dajm17OHzSehno='}]}
0:18:42.163154	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0293, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 349e867a)
0:18:42.164148	LOG	Server <---------- DUT
0:18:42.166149	LOG	Count = 10
0:18:44.656743	LOG	First uplink received. Open reception window.
0:18:44.762973	LOG	PUSH_ACK: 02 3417 01
0:18:44.764973	LOG	GPS Time from gateway: 1385110981952
0:18:44.766943	LOG	PUSH_DATA: Protocol version = 02, Token = 3417, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1141063799, 'time': '2023-11-27T09:02:42.952640Z', 'tmms': 1385110981952, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3213, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAkwIC6Dajm17OHzSehno='}]}
0:18:44.767973	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0293, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 349e867a)

0:18:44.769939	LOG	Server <---------- DUT
0:18:44.770940	LOG	Repeated frame. It does not count
0:18:49.477755	LOG	GPS Time updated: 1385110986773
0:18:49.479723	LOG	PULL_DATA: 02 3933 02 0016c001ff1025bf
0:18:49.481725	LOG	PULL_ACK: 02 3933 04
0:18:52.055314	LOG	First uplink received. Open reception window.
0:18:52.166685	LOG	PUSH_ACK: 02 458a 01
0:18:52.168657	LOG	GPS Time from gateway: 1385110989349
0:18:52.169657	LOG	PUSH_DATA: Protocol version = 02, Token = 458a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1148460551, 'time': '2023-11-27T09:02:50.349390Z', 'tmms': 1385110989349, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3214, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAlAICeJ9Dz8fdZ8kwBMc='}]}
0:18:52.171662	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0294, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c93004c7)
0:18:52.172662	LOG	Server <---------- DUT
0:18:52.174662	LOG	Count = 11
0:18:54.658645	LOG	First uplink received. Open reception window.
0:18:54.774362	LOG	PUSH_ACK: 02 0d8e 01
0:18:54.775327	LOG	GPS Time from gateway: 1385110991952
0:18:54.777836	LOG	PUSH_DATA: Protocol version = 02, Token = 0d8e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1151063683, 'time': '2023-11-27T09:02:52.952522Z', 'tmms': 1385110991952, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3214, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAlAICeJ9Dz8fdZ8kwBMc='}]}
0:18:54.778835	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0294, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c93004c7)
0:18:54.780868	LOG	Server <---------- DUT
0:18:54.781871	LOG	Repeated frame. It does not count
0:18:59.558272	LOG	GPS Time updated: 1385110996852
0:18:59.560300	LOG	PULL_DATA: 02 4c45 02 0016c001ff1025bf
0:18:59.562277	LOG	PULL_ACK: 02 4c45 04
0:19:02.054190	LOG	First uplink received. Open reception window.
0:19:02.165656	LOG	PUSH_ACK: 02 8590 01
0:19:02.167639	LOG	GPS Time from gateway: 1385110999348
0:19:02.168644	LOG	PUSH_DATA: Protocol version = 02, Token = 8590, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1158460045, 'time': '2023-11-27T09:03:00.348881Z', 'tmms': 1385110999348, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3213, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAlQIC+qZsSuk/3QdaoRI='}]}
0:19:02.170649	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0295, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 075aa112)
0:19:02.171648	LOG	Server <---------- DUT
0:19:02.173649	LOG	Count = 12
0:19:04.659815	LOG	First uplink received. Open reception window.
0:19:04.765353	LOG	PUSH_ACK: 02 eca3 01
0:19:04.767355	LOG	GPS Time from gateway: 1385111001951
0:19:04.768355	LOG	PUSH_DATA: Protocol version = 02, Token = eca3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1161062690, 'time': '2023-11-27T09:03:02.951527Z', 'tmms': 1385111001951, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3210, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAlQIC+qZsSuk/3QdaoRI='}]}
0:19:04.770360	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0295, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 075aa112)
0:19:04.771359	LOG	Server <---------- DUT
0:19:04.773360	LOG	Repeated frame. It does not count

0:19:09.638578	LOG	GPS Time updated: 1385111006930
0:19:09.639576	LOG	PULL_DATA: 02 de08 02 0016c001ff1025bf
0:19:09.641090	LOG	PULL_ACK: 02 de08 04
0:19:12.057301	LOG	First uplink received. Open reception window.
0:19:12.159646	LOG	PUSH_ACK: 02 5a25 01
0:19:12.161647	LOG	GPS Time from gateway: 1385111009348
0:19:12.162616	LOG	PUSH_DATA: Protocol version = 02, Token = 5a25, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1168459519, 'time': '2023-11-27T09:03:10.348353Z', 'tmms': 1385111009348, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3219, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAlgICJEaQ3q8mi3Nt+38='}]}
0:19:12.164614	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0296, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 736dfb7f)
0:19:12.165614	LOG	Server <---------- DUT
0:19:12.167613	LOG	Count = 13
0:19:14.657002	LOG	First uplink received. Open reception window.
0:19:14.770166	LOG	PUSH_ACK: 02 43fa 01
0:19:14.772134	LOG	GPS Time from gateway: 1385111011950
0:19:14.773168	LOG	PUSH_DATA: Protocol version = 02, Token = 43fa, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1171062356, 'time': '2023-11-27T09:03:12.951191Z', 'tmms': 1385111011950, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3223, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAlgICJEaQ3q8mi3Nt+38='}]}
0:19:14.775137	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0296, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 736dfb7f)
0:19:14.777168	LOG	Server <---------- DUT
0:19:14.778590	LOG	Repeated frame. It does not count
0:19:19.727775	LOG	GPS Time updated: 1385111017020
0:19:19.729775	LOG	PULL_DATA: 02 d671 02 0016c001ff1025bf
0:19:19.731703	LOG	PULL_ACK: 02 d671 04
0:19:22.058832	LOG	First uplink received. Open reception window.
0:19:22.159756	LOG	PUSH_ACK: 02 58ae 01
0:19:22.161774	LOG	GPS Time from gateway: 1385111019347
0:19:22.162725	LOG	PUSH_DATA: Protocol version = 02, Token = 58ae, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1178459048, 'time': '2023-11-27T09:03:20.347882Z', 'tmms': 1385111019347, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3222, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAlwIC18LLvly7dPTjZD8='}]}
0:19:22.164762	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0297, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f4e3643f)
0:19:22.165758	LOG	Server <---------- DUT
0:19:22.167726	LOG	Count = 14
0:19:24.658150	LOG	First uplink received. Open reception window.
0:19:24.771325	LOG	PUSH_ACK: 02 1e4c 01
0:19:24.773292	LOG	GPS Time from gateway: 1385111021950
0:19:24.774304	LOG	PUSH_DATA: Protocol version = 02, Token = 1e4c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1181061601, 'time': '2023-11-27T09:03:22.950434Z', 'tmms': 1385111021950, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3219, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAlwIC18LLvly7dPTjZD8='}]}
0:19:24.776309	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0297, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f4e3643f)
0:19:24.777815	LOG	Server <---------- DUT
0:19:24.778821	LOG	Repeated frame. It does not count
0:19:29.808496	LOG	GPS Time updated: 1385111027100
0:19:29.809496	LOG	PULL_DATA: 02 c03c 02 0016c001ff1025bf

0:19:29.811498	LOG	PULL_ACK: 02 c03c 04
0:19:32.051592	LOG	First uplink received. Open reception window.
0:19:32.167058	LOG	PUSH_ACK: 02 2ff4 01
0:19:32.169026	LOG	GPS Time from gateway: 1385111029347
0:19:32.170030	LOG	PUSH_DATA: Protocol version = 02, Token = 2ff4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1188458524, 'time': '2023-11-27T09:03:30.347356Z', 'tmms': 1385111029347, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3222, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAmAICH1oglLrLuZj+7To='}]}
0:19:32.172034	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0298, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 98feed3a)
0:19:32.173034	LOG	Server <---------- DUT
0:19:32.175035	LOG	Count = 15
0:19:34.664270	LOG	First uplink received. Open reception window.
0:19:34.766678	LOG	PUSH_ACK: 02 5368 01
0:19:34.768647	LOG	GPS Time from gateway: 1385111031949
0:19:34.769646	LOG	PUSH_DATA: Protocol version = 02, Token = 5368, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1191061168, 'time': '2023-11-27T09:03:32.949998Z', 'tmms': 1385111031949, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3222, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAmAICH1oglLrLuZj+7To='}]}
0:19:34.771651	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0298, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 98feed3a)
0:19:34.772666	LOG	Server <---------- DUT
0:19:34.774651	LOG	Repeated frame. It does not count
0:19:39.888115	LOG	GPS Time updated: 1385111037181
0:19:39.890115	LOG	PULL_DATA: 02 2798 02 0016c001ff1025bf
0:19:39.892117	LOG	PULL_ACK: 02 2798 04
0:19:42.049933	LOG	First uplink received. Open reception window.
0:19:42.153817	LOG	PUSH_ACK: 02 263f 01
0:19:42.155793	LOG	GPS Time from gateway: 1385111039346
0:19:42.156823	LOG	PUSH_DATA: Protocol version = 02, Token = 263f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1198458084, 'time': '2023-11-27T09:03:40.346914Z', 'tmms': 1385111039346, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3221, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAmQICouKFAIn4ATv73QU='}]}
0:19:42.158821	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0299, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3bfbdd05)
0:19:42.159819	LOG	Server <---------- DUT
0:19:42.161821	LOG	Count = 16
0:19:44.654230	LOG	First uplink received. Open reception window.
0:19:44.759610	LOG	PUSH_ACK: 02 79ac 01
0:19:44.761612	LOG	GPS Time from gateway: 1385111041949
0:19:44.762577	LOG	PUSH_DATA: Protocol version = 02, Token = 79ac, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1201060889, 'time': '2023-11-27T09:03:42.949719Z', 'tmms': 1385111041949, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3219, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAmQICouKFAIn4ATv73QU='}]}
0:19:44.764614	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0299, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3bfbdd05)
0:19:44.765582	LOG	Server <---------- DUT
0:19:44.767599	LOG	Repeated frame. It does not count
0:19:49.968664	LOG	GPS Time updated: 1385111047263
0:19:49.969665	LOG	PULL_DATA: 02 cf66 02 0016c001ff1025bf
0:19:49.971663	LOG	PULL_ACK: 02 cf66 04
0:19:52.055514	LOG	First uplink received. Open reception window.

0:19:52.157199	LOG	PUSH_ACK: 02 4fad 01
0:19:52.159166	LOG	GPS Time from gateway: 1385111049346
0:19:52.160177	LOG	PUSH_DATA: Protocol version = 02, Token = 4fad, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1208457557, 'time': '2023-11-27T09:03:50.346385Z', 'tmms': 1385111049346, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 10, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3223, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAmgICUs5rjny5Z83HTj4='}]}
0:19:52.162166	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 029a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: cdc74e3e)
0:19:52.163166	LOG	Server <---------- DUT
0:19:52.165199	LOG	Count = 17
0:19:54.661463	LOG	First uplink received. Open reception window.
0:19:54.778331	LOG	PUSH_ACK: 02 6e6c 01
0:19:54.780335	LOG	GPS Time from gateway: 1385111051948
0:19:54.781335	LOG	PUSH_DATA: Protocol version = 02, Token = 6e6c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1211060023, 'time': '2023-11-27T09:03:52.948851Z', 'tmms': 1385111051948, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3223, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAmgICUs5rjny5Z83HTj4='}]}
0:19:54.783336	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 029a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: cdc74e3e)
0:19:54.784336	LOG	Server <---------- DUT
0:19:54.786336	LOG	Repeated frame. It does not count
0:20:00.048847	LOG	GPS Time updated: 1385111057335
0:20:00.049846	LOG	PULL_DATA: 02 c3c8 02 0016c001ff1025bf
0:20:00.052357	LOG	PULL_ACK: 02 c3c8 04
0:20:02.051508	LOG	First uplink received. Open reception window.
0:20:02.154272	LOG	PUSH_ACK: 02 9206 01
0:20:02.156241	LOG	GPS Time from gateway: 1385111059345
0:20:02.157241	LOG	PUSH_DATA: Protocol version = 02, Token = 9206, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1218457114, 'time': '2023-11-27T09:04:00.345940Z', 'tmms': 1385111059345, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3231, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAmwICISP1JXc/0saJ/Ps='}]}
0:20:02.159241	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 029b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c689fcfb)
0:20:02.160240	LOG	Server <---------- DUT
0:20:02.162240	LOG	Count = 18
0:20:04.653753	LOG	First uplink received. Open reception window.
0:20:04.758561	LOG	PUSH_ACK: 02 c368 01
0:20:04.760529	LOG	GPS Time from gateway: 1385111061949
0:20:04.761528	LOG	PUSH_DATA: Protocol version = 02, Token = c368, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1221061108, 'time': '2023-11-27T09:04:02.949934Z', 'tmms': 1385111061949, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3228, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAmwICISP1JXc/0saJ/Ps='}]}
0:20:04.763534	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 029b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c689fcfb)
0:20:04.764550	LOG	Server <---------- DUT
0:20:04.766538	LOG	Repeated frame. It does not count
0:20:10.138498	LOG	GPS Time updated: 1385111067434
0:20:10.140472	LOG	PULL_DATA: 02 771b 02 0016c001ff1025bf
0:20:10.141643	LOG	PULL_ACK: 02 771b 04
0:20:12.051161	LOG	First uplink received. Open reception window.
0:20:12.164606	LOG	PUSH_ACK: 02 67d6 01
0:20:12.166612	LOG	GPS Time from gateway: 1385111069345

0:20:12.168607	LOG	PUSH_DATA: Protocol version = 02, Token = 67d6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1228456589, 'time': '2023-11-27T09:04:10.345413Z', 'tmms': 1385111069345, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3228, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAnAIC0H8P8SWGYwcTOPc='}]}
0:20:12.169606	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 029c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 071338f7)
0:20:12.170644	LOG	Server <---------- DUT
0:20:12.172642	LOG	Count = 19
0:20:14.655353	LOG	First uplink received. Open reception window.
0:20:14.770084	LOG	PUSH_ACK: 02 d296 01
0:20:14.772053	LOG	GPS Time from gateway: 1385111071948
0:20:14.773052	LOG	PUSH_DATA: Protocol version = 02, Token = d296, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1231059694, 'time': '2023-11-27T09:04:12.948518Z', 'tmms': 1385111071948, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3230, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAnAIC0H8P8SWGYwcTOPc='}]}
0:20:14.775057	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 029c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 071338f7)
0:20:14.776056	LOG	Server <---------- DUT
0:20:14.777057	LOG	Repeated frame. It does not count
0:20:20.218878	LOG	GPS Time updated: 1385111077512
0:20:20.219877	LOG	PULL_DATA: 02 ca25 02 0016c001ff1025bf
0:20:20.221892	LOG	PULL_ACK: 02 ca25 04
0:20:22.057793	LOG	First uplink received. Open reception window.
0:20:22.173451	LOG	PUSH_ACK: 02 fef2 01
0:20:22.175028	LOG	GPS Time from gateway: 1385111079344
0:20:22.177013	LOG	PUSH_DATA: Protocol version = 02, Token = fef2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1238456148, 'time': '2023-11-27T09:04:20.344969Z', 'tmms': 1385111079344, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3231, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAnQICQexWkmpN3Ba8R4c='}]}
0:20:22.178026	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 029d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 16bc4787)
0:20:22.179027	LOG	Server <---------- DUT
0:20:22.181025	LOG	Count = 20
0:20:24.661369	LOG	First uplink received. Open reception window.
0:20:24.773486	LOG	PUSH_ACK: 02 bdf1 01
0:20:24.775452	LOG	GPS Time from gateway: 1385111081946
0:20:24.776957	LOG	PUSH_DATA: Protocol version = 02, Token = bdf1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1241058430, 'time': '2023-11-27T09:04:22.947252Z', 'tmms': 1385111081946, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3227, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAnQICQexWkmpN3Ba8R4c='}]}
0:20:24.778468	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 029d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 16bc4787)
0:20:24.779473	LOG	Server <---------- DUT
0:20:24.781473	LOG	Repeated frame. It does not count
0:20:30.298942	LOG	GPS Time updated: 1385111087583
0:20:30.299942	LOG	PULL_DATA: 02 26e4 02 0016c001ff1025bf
0:20:30.302161	LOG	PULL_ACK: 02 26e4 04
0:20:32.053140	LOG	First uplink received. Open reception window.
0:20:32.158078	LOG	PUSH_ACK: 02 30a0 01
0:20:32.160047	LOG	GPS Time from gateway: 1385111089344
0:20:32.161046	LOG	PUSH_DATA: Protocol version = 02, Token = 30a0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1248455634, 'time': '2023-11-27T09:04:30.344455Z',

		'tmms': 1385111089344, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3227, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAngICcjXInvdIwqgc7Ek='}]}
0:20:32.163047	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 029e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a81cec49)
0:20:32.164046	LOG	Server <---------- DUT
0:20:32.166047	LOG	Count = 21
0:20:34.656369	LOG	First uplink received. Open reception window.
0:20:34.768316	LOG	PUSH_ACK: 02 90ff 01
0:20:34.770316	LOG	GPS Time from gateway: 1385111091946
0:20:34.771315	LOG	PUSH_DATA: Protocol version = 02, Token = 90ff, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1251057903, 'time': '2023-11-27T09:04:32.946723Z', 'tmms': 1385111091946, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3226, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAngICcjXInvdIwqgc7Ek='}]}
0:20:34.773327	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 029e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a81cec49)
0:20:34.774320	LOG	Server <---------- DUT
0:20:34.776332	LOG	Repeated frame. It does not count
0:20:40.389114	LOG	GPS Time updated: 1385111097679
0:20:40.390113	LOG	PULL_DATA: 02 ad74 02 0016c001ff1025bf
0:20:40.391113	LOG	PULL_ACK: 02 ad74 04
0:20:42.049642	LOG	First uplink received. Open reception window.
0:20:42.165105	LOG	PUSH_ACK: 02 4b70 01
0:20:42.167072	LOG	GPS Time from gateway: 1385111099343
0:20:42.169072	LOG	PUSH_DATA: Protocol version = 02, Token = 4b70, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1258455149, 'time': '2023-11-27T09:04:40.343968Z', 'tmms': 1385111099343, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3228, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAnwICpOhF1GkJWxrBBu8='}]}
0:20:42.170071	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 029f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1ac106ef)
0:20:42.171075	LOG	Server <---------- DUT
0:20:42.173076	LOG	Count = 22
0:20:44.654333	LOG	First uplink received. Open reception window.
0:20:44.764222	LOG	PUSH_ACK: 02 3cdd 01
0:20:44.765798	LOG	GPS Time from gateway: 1385111101946
0:20:44.767797	LOG	PUSH_DATA: Protocol version = 02, Token = 3cdd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1261058166, 'time': '2023-11-27T09:04:42.946983Z', 'tmms': 1385111101946, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 10, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3226, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAnwICpOhF1GkJWxrBBu8='}]}
0:20:44.768797	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 029f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1ac106ef)
0:20:44.770797	LOG	Server <---------- DUT
0:20:44.771797	LOG	Repeated frame. It does not count
0:20:50.479121	LOG	GPS Time updated: 1385111107772
0:20:50.480120	LOG	PULL_DATA: 02 77ff 02 0016c001ff1025bf
0:20:50.482123	LOG	PULL_ACK: 02 77ff 04
0:20:52.056364	LOG	First uplink received. Open reception window.
0:20:52.164317	LOG	PUSH_ACK: 02 45ee 01
0:20:52.166309	LOG	GPS Time from gateway: 1385111109343
0:20:52.168282	LOG	PUSH_DATA: Protocol version = 02, Token = 45ee, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1268454637, 'time': '2023-11-27T09:04:50.343454Z', 'tmms': 1385111109343, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3227, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAoAICAB+95gcJZlhXFD0='}]}
0:20:52.169281	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02a0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5857143d)
0:20:52.170282	LOG	Server <---------- DUT
0:20:52.172288	LOG	Count = 23
0:20:54.655047	LOG	First uplink received. Open reception window.
0:20:54.764208	LOG	PUSH_ACK: 02 1a5c 01
0:20:54.766213	LOG	GPS Time from gateway: 1385111111946
0:20:54.767212	LOG	PUSH_DATA: Protocol version = 02, Token = 1a5c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1271057553, 'time': '2023-11-27T09:04:52.946368Z', 'tmms': 1385111111946, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3226, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAoAICAB+95gcJZlhXFD0='}]}
0:20:54.769217	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02a0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5857143d)
0:20:54.770217	LOG	Server <---------- DUT
0:20:54.772218	LOG	Repeated frame. It does not count
0:21:00.559189	LOG	GPS Time updated: 1385111117850
0:21:00.561158	LOG	PULL_DATA: 02 8482 02 0016c001ff1025bf
0:21:00.562157	LOG	PULL_ACK: 02 8482 04
0:21:02.056088	LOG	First uplink received. Open reception window.
0:21:02.170467	LOG	PUSH_ACK: 02 3256 01
0:21:02.172504	LOG	GPS Time from gateway: 1385111119342
0:21:02.173484	LOG	PUSH_DATA: Protocol version = 02, Token = 3256, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1278454152, 'time': '2023-11-27T09:05:00.342967Z', 'tmms': 1385111119342, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3234, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAoQIC+1WMmDwNjJQWWHY='}]}
0:21:02.175514	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02a1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 94165876)
0:21:02.176504	LOG	Server <---------- DUT
0:21:02.178505	LOG	Count = 24
0:21:04.657722	LOG	First uplink received. Open reception window.
0:21:04.771241	LOG	PUSH_ACK: 02 18fd 01
0:21:04.773241	LOG	GPS Time from gateway: 1385111121945
0:21:04.775265	LOG	PUSH_DATA: Protocol version = 02, Token = 18fd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1281056908, 'time': '2023-11-27T09:05:02.945723Z', 'tmms': 1385111121945, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3234, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAoQIC+1WMmDwNjJQWWHY='}]}
0:21:04.776241	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02a1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 94165876)
0:21:04.778262	LOG	Server <---------- DUT
0:21:04.779746	LOG	Repeated frame. It does not count
0:21:10.658830	LOG	GPS Time updated: 1385111127946
0:21:10.660795	LOG	PULL_DATA: 02 ef39 02 0016c001ff1025bf
0:21:10.661796	LOG	PULL_ACK: 02 ef39 04
0:21:12.054514	LOG	First uplink received. Open reception window.
0:21:12.155908	LOG	PUSH_ACK: 02 0815 01
0:21:12.157874	LOG	GPS Time from gateway: 1385111129342
0:21:12.159877	LOG	PUSH_DATA: Protocol version = 02, Token = 0815, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1288453666, 'time': '2023-11-27T09:05:10.342479Z', 'tmms': 1385111129342, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3241, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAogIC24Y9ETY3PsJ2Ko8='}]}

0:21:12.160910	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02a2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c2762a8f)
0:21:12.161908	LOG	Server <---------- DUT
0:21:12.163911	LOG	Count = 25
0:21:14.655504	LOG	First uplink received. Open reception window.
0:21:14.760199	LOG	PUSH_ACK: 02 1d38 01
0:21:14.762165	LOG	GPS Time from gateway: 1385111131945
0:21:14.763164	LOG	PUSH_DATA: Protocol version = 02, Token = 1d38, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1291056881, 'time': '2023-11-27T09:05:12.945694Z', 'tmms': 1385111131945, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3240, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAogIC24Y9ETY3PsJ2Ko8='}]}
0:21:14.765187	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02a2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c2762a8f)
0:21:14.766169	LOG	Server <---------- DUT
0:21:14.768169	LOG	Repeated frame. It does not count
0:21:20.738809	LOG	GPS Time updated: 1385111138028
0:21:20.740777	LOG	PULL_DATA: 02 b5ad 02 0016c001ff1025bf
0:21:20.742442	LOG	PULL_ACK: 02 b5ad 04
0:21:22.054004	LOG	First uplink received. Open reception window.
0:21:22.168842	LOG	PUSH_ACK: 02 37bb 01
0:21:22.170844	LOG	GPS Time from gateway: 1385111139341
0:21:22.171850	LOG	PUSH_DATA: Protocol version = 02, Token = 37bb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1298453185, 'time': '2023-11-27T09:05:20.341996Z', 'tmms': 1385111139341, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3240, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAowICJSFQ+hhH+og8lDw='}]}
0:21:22.173848	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02a3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 883c943c)
0:21:22.174881	LOG	Server <---------- DUT
0:21:22.176850	LOG	Count = 26
0:21:24.657385	LOG	First uplink received. Open reception window.
0:21:24.771397	LOG	PUSH_ACK: 02 8ce4 01
0:21:24.773366	LOG	GPS Time from gateway: 1385111141944
0:21:24.774364	LOG	PUSH_DATA: Protocol version = 02, Token = 8ce4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1301056220, 'time': '2023-11-27T09:05:22.945031Z', 'tmms': 1385111141944, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3237, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAowICJSFQ+hhH+og8lDw='}]}
0:21:24.776369	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02a3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 883c943c)
0:21:24.777369	LOG	Server <---------- DUT
0:21:24.778369	LOG	Repeated frame. It does not count
0:21:30.819731	LOG	GPS Time updated: 1385111148106
0:21:30.820730	LOG	PULL_DATA: 02 2fd7 02 0016c001ff1025bf
0:21:30.822709	LOG	PULL_ACK: 02 2fd7 04
0:21:32.052244	LOG	First uplink received. Open reception window.
0:21:32.155238	LOG	PUSH_ACK: 02 556c 01
0:21:32.157242	LOG	GPS Time from gateway: 1385111149341
0:21:32.159243	LOG	PUSH_DATA: Protocol version = 02, Token = 556c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1308452702, 'time': '2023-11-27T09:05:30.341510Z', 'tmms': 1385111149341, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3239, 'rssi': -49, 'size': 20, 'data': 'QAAAAADApAICBRHc20SQjG5CEj8='}]}
0:21:32.160243	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02a4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6e42123f)

0:21:32.161243	LOG	Server <---------- DUT
0:21:32.163243	LOG	Count = 27
0:21:34.656250	LOG	First uplink received. Open reception window.
0:21:34.758722	LOG	PUSH_ACK: 02 b5cc 01
0:21:34.760690	LOG	GPS Time from gateway: 1385111151943
0:21:34.761690	LOG	PUSH_DATA: Protocol version = 02, Token = b5cc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1311055161, 'time': '2023-11-27T09:05:32.943970Z', 'tmms': 1385111151943, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3237, 'rssi': -49, 'size': 20, 'data': 'QAAAAADApAICBRHc20SQjG5CEj8='}]}
0:21:34.763691	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02a4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6e42123f)
0:21:34.764690	LOG	Server <---------- DUT
0:21:34.766695	LOG	Repeated frame. It does not count
0:21:40.907483	LOG	GPS Time updated: 1385111158194
0:21:40.908484	LOG	PULL_DATA: 02 ba86 02 0016c001ff1025bf
0:21:40.910485	LOG	PULL_ACK: 02 ba86 04
0:21:42.047806	LOG	First uplink received. Open reception window.
0:21:42.157858	LOG	PUSH_ACK: 02 563f 01
0:21:42.159825	LOG	GPS Time from gateway: 1385111159340
0:21:42.160824	LOG	PUSH_DATA: Protocol version = 02, Token = 563f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1318452215, 'time': '2023-11-27T09:05:40.341023Z', 'tmms': 1385111159340, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3240, 'rssi': -49, 'size': 20, 'data': 'QAAAAADApQICscJjOO7a/SjedwU='}]}
0:21:42.162825	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02a5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 28de7705)
0:21:42.163824	LOG	Server <---------- DUT
0:21:42.165825	LOG	Count = 28
0:21:44.647947	LOG	First uplink received. Open reception window.
0:21:44.748579	LOG	PUSH_ACK: 02 0889 01
0:21:44.750616	LOG	GPS Time from gateway: 1385111161943
0:21:44.751585	LOG	PUSH_DATA: Protocol version = 02, Token = 0889, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1321055320, 'time': '2023-11-27T09:05:42.944127Z', 'tmms': 1385111161943, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3240, 'rssi': -49, 'size': 20, 'data': 'QAAAAADApQICscJjOO7a/SjedwU='}]}
0:21:44.753600	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02a5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 28de7705)
0:21:44.754583	LOG	Server <---------- DUT
0:21:44.756086	LOG	Repeated frame. It does not count
0:21:50.989636	LOG	GPS Time updated: 1385111168285
0:21:50.990603	LOG	PULL_DATA: 02 9520 02 0016c001ff1025bf
0:21:50.992482	LOG	PULL_ACK: 02 9520 04
0:21:52.047542	LOG	First uplink received. Open reception window.
0:21:52.156383	LOG	PUSH_ACK: 02 8611 01
0:21:52.158418	LOG	GPS Time from gateway: 1385111169340
0:21:52.159389	LOG	PUSH_DATA: Protocol version = 02, Token = 8611, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1328451725, 'time': '2023-11-27T09:05:50.340531Z', 'tmms': 1385111169340, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3247, 'rssi': -49, 'size': 20, 'data': 'QAAAAADApgICRv8xJ3/puBfOaxI='}]}
0:21:52.161383	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02a6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 17ce6b12)
0:21:52.162382	LOG	Server <---------- DUT
0:21:52.164863	LOG	Count = 29

0:21:54.649981	LOG	First uplink received. Open reception window.
0:21:54.757496	LOG	PUSH_ACK: 02 3775 01
0:21:54.759463	LOG	GPS Time from gateway: 1385111171942
0:21:54.760463	LOG	PUSH_DATA: Protocol version = 02, Token = 3775, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1331054516, 'time': '2023-11-27T09:05:52.943320Z', 'tmms': 1385111171942, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3246, 'rssi': -49, 'size': 20, 'data': 'QAAAAADApgICRv8xJ3/puBfOaxI='}]}
0:21:54.762496	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02a6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 17ce6b12)
0:21:54.763462	LOG	Server <---------- DUT
0:21:54.765462	LOG	Repeated frame. It does not count
0:22:01.069577	LOG	GPS Time updated: 1385111178362
0:22:01.071544	LOG	PULL_DATA: 02 4a3f 02 0016c001ff1025bf
0:22:01.072543	LOG	PULL_ACK: 02 4a3f 04
0:22:02.050011	LOG	First uplink received. Open reception window.
0:22:02.155164	LOG	PUSH_ACK: 02 8a67 01
0:22:02.157670	LOG	GPS Time from gateway: 1385111179339
0:22:02.158672	LOG	PUSH_DATA: Protocol version = 02, Token = 8a67, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1338451255, 'time': '2023-11-27T09:06:00.340059Z', 'tmms': 1385111179339, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3251, 'rssi': -49, 'size': 20, 'data': 'QAAAAADApwICgPRZYSVm7aWjpBE='}]}
0:22:02.160680	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02a7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a5a3a411)
0:22:02.161674	LOG	Server <---------- DUT
0:22:02.163674	LOG	Count = 30
0:22:04.649563	LOG	First uplink received. Open reception window.
0:22:04.753574	LOG	PUSH_ACK: 02 7740 01
0:22:04.755541	LOG	GPS Time from gateway: 1385111181943
0:22:04.757544	LOG	PUSH_DATA: Protocol version = 02, Token = 7740, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1341055071, 'time': '2023-11-27T09:06:02.943875Z', 'tmms': 1385111181943, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3249, 'rssi': -49, 'size': 20, 'data': 'QAAAAADApwICgPRZYSVm7aWjpBE='}]}
0:22:04.758542	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02a7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a5a3a411)
0:22:04.759541	LOG	Server <---------- DUT
0:22:04.761575	LOG	Repeated frame. It does not count
0:22:11.150049	LOG	GPS Time updated: 1385111188443
0:22:11.151048	LOG	PULL_DATA: 02 fba0 02 0016c001ff1025bf
0:22:11.152886	LOG	PULL_ACK: 02 fba0 04
0:22:12.045481	LOG	First uplink received. Open reception window.
0:22:12.155489	LOG	PUSH_ACK: 02 932b 01
0:22:12.157067	LOG	GPS Time from gateway: 1385111189339
0:22:12.159068	LOG	PUSH_DATA: Protocol version = 02, Token = 932b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1348450743, 'time': '2023-11-27T09:06:10.339545Z', 'tmms': 1385111189339, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3252, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAqAICKH/TqZ6xEsA2/zA='}]}
0:22:12.161037	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02a8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c036ff30)
0:22:12.162035	LOG	Server <---------- DUT
0:22:12.164034	LOG	Count = 31
0:22:14.650120	LOG	First uplink received. Open reception window.
0:22:14.752573	LOG	PUSH_ACK: 02 77e8 01

0:22:14.754539	LOG	GPS Time from gateway: 1385111191941
0:22:14.755538	LOG	PUSH_DATA: Protocol version = 02, Token = 77e8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1351053154, 'time': '2023-11-27T09:06:12.941956Z', 'tmms': 1385111191941, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3251, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAqAICKH/TqZ6xEsA2/zA='}]}
0:22:14.757539	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02a8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c036ff30)
0:22:14.758538	LOG	Server <---------- DUT
0:22:14.760539	LOG	Repeated frame. It does not count
0:22:21.229853	LOG	GPS Time updated: 1385111198520
0:22:21.230819	LOG	PULL_DATA: 02 972c 02 0016c001ff1025bf
0:22:21.232819	LOG	PULL_ACK: 02 972c 04
0:22:22.044969	LOG	First uplink received. Open reception window.
0:22:22.159774	LOG	PUSH_ACK: 02 b402 01
0:22:22.161775	LOG	GPS Time from gateway: 1385111199338
0:22:22.162777	LOG	PUSH_DATA: Protocol version = 02, Token = b402, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1358450225, 'time': '2023-11-27T09:06:20.339025Z', 'tmms': 1385111199338, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.0, 'foff': -3257, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAqQIChWmr4nXYpz1g3jw='}]}
0:22:22.164775	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02a9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3d60de3c)
0:22:22.165778	LOG	Server <---------- DUT
0:22:22.167775	LOG	Count = 32
0:22:24.649355	LOG	First uplink received. Open reception window.
0:22:24.758810	LOG	PUSH_ACK: 02 276f 01
0:22:24.760810	LOG	GPS Time from gateway: 1385111201941
0:22:24.761781	LOG	PUSH_DATA: Protocol version = 02, Token = 276f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1361052761, 'time': '2023-11-27T09:06:22.941561Z', 'tmms': 1385111201941, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3256, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAqQIChWmr4nXYpz1g3jw='}]}
0:22:24.763813	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02a9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3d60de3c)
0:22:24.764811	LOG	Server <---------- DUT
0:22:24.766817	LOG	Repeated frame. It does not count
0:22:31.309601	LOG	GPS Time updated: 1385111208601
0:22:31.311598	LOG	PULL_DATA: 02 887d 02 0016c001ff1025bf
0:22:31.312599	LOG	PULL_ACK: 02 887d 04
0:22:32.426305	LOG	First uplink received. Open reception window.
0:22:32.542256	LOG	PUSH_ACK: 02 ae90 01
0:22:32.543760	LOG	GPS Time from gateway: 1385111209708
0:22:32.545766	LOG	PUSH_DATA: Protocol version = 02, Token = ae90, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1368820280, 'time': '2023-11-27T09:06:30.709078Z', 'tmms': 1385111209708, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3261, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAqgICCTvvmc7QoWhbn48='}]}
0:22:32.547766	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02aa, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 685b9f8f)
0:22:32.549268	LOG	Server <---------- DUT
0:22:32.551273	LOG	Count = 33
0:22:32.552310	LOG	Waiting for the retransmissions
0:22:35.393255	LOG	First uplink received. Open reception window.
0:22:35.506031	LOG	PUSH_ACK: 02 0643 01
0:22:35.508032	LOG	GPS Time from gateway: 1385111212681

0:22:35.509034	LOG	PUSH_DATA: Protocol version = 02, Token = 0643, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1371793173, 'time': '2023-11-27T09:06:33.681971Z', 'tmms': 1385111212681, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3257, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAqgICCTvvmc7QoWhbn48='}]}
0:22:35.510065	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02aa, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 685b9f8f)
0:22:35.512610	LOG	Server <---------- DUT
0:22:35.529646	LOG	Expected number of uplink messages have been received
0:22:35.533156	LOG	Test adaptive data rate control in frame header process starts
0:22:41.389421	LOG	GPS Time updated: 1385111218677
0:22:41.391425	LOG	PULL_DATA: 02 54e8 02 0016c001ff1025bf
0:22:41.392998	LOG	PULL_ACK: 02 54e8 04
0:22:42.422133	LOG	First uplink received. Open reception window.
0:22:42.523239	LOG	PUSH_ACK: 02 019e 01
0:22:42.525386	LOG	GPS Time from gateway: 1385111219708
0:22:42.527115	LOG	PUSH_DATA: Protocol version = 02, Token = 019e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1378819786, 'time': '2023-11-27T09:06:40.708581Z', 'tmms': 1385111219708, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.5, 'foff': -3261, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAqwICNWZbIVZHjoFWfGM='}]}
0:22:42.528799	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02ab, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 81567c63)
0:22:42.530188	LOG	Server <---------- DUT
0:22:42.532372	LOG	Count = 2
0:22:45.398502	LOG	First uplink received. Open reception window.
0:22:45.507006	LOG	PUSH_ACK: 02 288c 01
0:22:45.508974	LOG	GPS Time from gateway: 1385111222680
0:22:45.509974	LOG	PUSH_DATA: Protocol version = 02, Token = 288c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1381792276, 'time': '2023-11-27T09:06:43.681072Z', 'tmms': 1385111222680, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.5, 'foff': -3255, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAqwICNWZbIVZHjoFWfGM='}]}
0:22:45.511974	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02ab, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 81567c63)
0:22:45.512973	LOG	Server <---------- DUT
0:22:45.514974	LOG	Repeated frame. It does not count
0:22:51.469806	LOG	GPS Time updated: 1385111228751
0:22:51.471770	LOG	PULL_DATA: 02 059f 02 0016c001ff1025bf
0:22:51.472770	LOG	PULL_ACK: 02 059f 04
0:22:52.418152	LOG	First uplink received. Open reception window.
0:22:52.522976	LOG	PUSH_ACK: 02 cc19 01
0:22:52.525155	LOG	GPS Time from gateway: 1385111229707
0:22:52.526810	LOG	PUSH_DATA: Protocol version = 02, Token = cc19, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1388819304, 'time': '2023-11-27T09:06:50.708099Z', 'tmms': 1385111229707, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.8, 'foff': -3250, 'rssi': -49, 'size': 20, 'data': 'QAAAAADArAICy7fTSg5DApEBvHc='}]}
0:22:52.527867	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02ac, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9101bc77)
0:22:52.529503	LOG	Server <---------- DUT
0:22:52.531657	LOG	Count = 3
0:22:55.394896	LOG	First uplink received. Open reception window.
0:22:55.503634	LOG	PUSH_ACK: 02 4ec7 01
0:22:55.505633	LOG	GPS Time from gateway: 1385111232680

0:22:55.506602	LOG	PUSH_DATA: Protocol version = 02, Token = 4ec7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1391792131, 'time': '2023-11-27T09:06:53.680925Z', 'tmms': 1385111232680, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.5, 'foff': -3245, 'rssi': -50, 'size': 20, 'data': 'QAAAAADArAICy7fTSg5DApEBvHc='}]}
0:22:55.508634	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02ac, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9101bc77)
0:22:55.509635	LOG	Server <---------- DUT
0:22:55.511635	LOG	Repeated frame. It does not count
0:23:01.549603	LOG	GPS Time updated: 1385111238835
0:23:01.551571	LOG	PULL_DATA: 02 b9e2 02 0016c001ff1025bf
0:23:01.553572	LOG	PULL_ACK: 02 b9e2 04
0:23:02.419386	LOG	First uplink received. Open reception window.
0:23:02.531173	LOG	PUSH_ACK: 02 f231 01
0:23:02.533445	LOG	GPS Time from gateway: 1385111239707
0:23:02.534593	LOG	PUSH_DATA: Protocol version = 02, Token = f231, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1398818817, 'time': '2023-11-27T09:07:00.707610Z', 'tmms': 1385111239707, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3248, 'rssi': -49, 'size': 20, 'data': 'QAAAAADArQICNwXZf8zPC5izE+Q='}]}
0:23:02.536318	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02ad, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 98b313e4)
0:23:02.537688	LOG	Server <---------- DUT
0:23:02.539248	LOG	Count = 4
0:23:05.391628	LOG	First uplink received. Open reception window.
0:23:05.499888	LOG	PUSH_ACK: 02 ca89 01
0:23:05.502184	LOG	GPS Time from gateway: 1385111242679
0:23:05.503152	LOG	PUSH_DATA: Protocol version = 02, Token = ca89, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1401791471, 'time': '2023-11-27T09:07:03.680263Z', 'tmms': 1385111242679, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.0, 'foff': -3244, 'rssi': -50, 'size': 20, 'data': 'QAAAAADArQICNwXZf8zPC5izE+Q='}]}
0:23:05.505150	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02ad, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 98b313e4)
0:23:05.506151	LOG	Server <---------- DUT
0:23:05.508150	LOG	Repeated frame. It does not count
0:23:11.629706	LOG	GPS Time updated: 1385111248918
0:23:11.631674	LOG	PULL_DATA: 02 8c84 02 0016c001ff1025bf
0:23:11.633680	LOG	PULL_ACK: 02 8c84 04
0:23:12.416079	LOG	First uplink received. Open reception window.
0:23:12.521510	LOG	PUSH_ACK: 02 ee14 01
0:23:12.523506	LOG	GPS Time from gateway: 1385111249706
0:23:12.524508	LOG	PUSH_DATA: Protocol version = 02, Token = ee14, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1408818316, 'time': '2023-11-27T09:07:10.707107Z', 'tmms': 1385111249706, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3247, 'rssi': -50, 'size': 20, 'data': 'QAAAAADArgICTJAFAKA9tq7hMoI='}]}
0:23:12.526506	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02ae, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: aee13282)
0:23:12.527508	LOG	Server <---------- DUT
0:23:12.529508	LOG	Count = 5
0:23:15.395044	LOG	First uplink received. Open reception window.
0:23:15.504580	LOG	PUSH_ACK: 02 029c 01
0:23:15.506548	LOG	GPS Time from gateway: 1385111252679
0:23:15.507548	LOG	PUSH_DATA: Protocol version = 02, Token = 029c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1411790716, 'time': '2023-11-27T09:07:13.679506Z',

		'tmms': 1385111252679, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.5, 'foff': -3241, 'rssi': -50, 'size': 20, 'data': 'QAAAAADArgICTJAFAKA9tq7hMoI='}]}
0:23:15.509548	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02ae, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: aee13282)
0:23:15.510548	LOG	Server <---------- DUT
0:23:15.512548	LOG	Repeated frame. It does not count
0:23:21.720146	LOG	GPS Time updated: 1385111259004
0:23:21.722115	LOG	PULL_DATA: 02 a508 02 0016c001ff1025bf
0:23:21.724116	LOG	PULL_ACK: 02 a508 04
0:23:22.419950	LOG	First uplink received. Open reception window.
0:23:22.532855	LOG	PUSH_ACK: 02 df56 01
0:23:22.534884	LOG	GPS Time from gateway: 1385111259706
0:23:22.536856	LOG	PUSH_DATA: Protocol version = 02, Token = df56, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1418817794, 'time': '2023-11-27T09:07:20.706583Z', 'tmms': 1385111259706, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.2, 'foff': -3242, 'rssi': -50, 'size': 20, 'data': 'QAAAAADArwICj0U1/wsKlM1X0uk='}]}
0:23:22.537857	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02af, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: cd57d2e9)
0:23:22.539856	LOG	Server <---------- DUT
0:23:22.540855	LOG	Count = 6
0:23:25.396626	LOG	First uplink received. Open reception window.
0:23:25.499317	LOG	PUSH_ACK: 02 9534 01
0:23:25.500856	LOG	GPS Time from gateway: 1385111262679
0:23:25.502893	LOG	PUSH_DATA: Protocol version = 02, Token = 9534, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1421790667, 'time': '2023-11-27T09:07:23.679454Z', 'tmms': 1385111262679, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.2, 'foff': -3237, 'rssi': -49, 'size': 20, 'data': 'QAAAAADArwICj0U1/wsKlM1X0uk='}]}
0:23:25.504926	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02af, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: cd57d2e9)
0:23:25.505931	LOG	Server <---------- DUT
0:23:25.507932	LOG	Repeated frame. It does not count
0:23:31.810139	LOG	GPS Time updated: 1385111269093
0:23:31.812106	LOG	PULL_DATA: 02 3e96 02 0016c001ff1025bf
0:23:31.813610	LOG	PULL_ACK: 02 3e96 04
0:23:32.417655	LOG	First uplink received. Open reception window.
0:23:32.531895	LOG	PUSH_ACK: 02 d266 01
0:23:32.534036	LOG	GPS Time from gateway: 1385111269705
0:23:32.536037	LOG	PUSH_DATA: Protocol version = 02, Token = d266, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1428817289, 'time': '2023-11-27T09:07:30.706076Z', 'tmms': 1385111269705, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.8, 'foff': -3238, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAsAICSFpyWGM89kHqMpg='}]}
0:23:32.537044	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02b0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 41ea3298)
0:23:32.539036	LOG	Server <---------- DUT
0:23:32.541036	LOG	Count = 7
0:23:35.395746	LOG	First uplink received. Open reception window.
0:23:35.497189	LOG	PUSH_ACK: 02 22d8 01
0:23:35.499155	LOG	GPS Time from gateway: 1385111272678
0:23:35.500659	LOG	PUSH_DATA: Protocol version = 02, Token = 22d8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1431790059, 'time': '2023-11-27T09:07:33.678846Z', 'tmms': 1385111272678, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 2, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3232, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAsAICSFpyWGM89kHqMpg='}]}
0:23:35.501664	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02b0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 41ea3298)
0:23:35.503664	LOG	Server <---------- DUT
0:23:35.505665	LOG	Repeated frame. It does not count
0:23:41.889923	LOG	GPS Time updated: 1385111279172
0:23:41.891927	LOG	PULL_DATA: 02 f154 02 0016c001ff1025bf
0:23:41.892932	LOG	PULL_ACK: 02 f154 04
0:23:42.422790	LOG	First uplink received. Open reception window.
0:23:42.536423	LOG	PUSH_ACK: 02 b6ab 01
0:23:42.538393	LOG	GPS Time from gateway: 1385111279705
0:23:42.540391	LOG	PUSH_DATA: Protocol version = 02, Token = b6ab, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1438816780, 'time': '2023-11-27T09:07:40.705565Z', 'tmms': 1385111279705, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.5, 'foff': -3242, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAsQICjhegsChxU/4Wvuc='}]}
0:23:42.542392	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02b1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fe16bee7)
0:23:42.543392	LOG	Server <---------- DUT
0:23:42.545391	LOG	Count = 8
0:23:45.396472	LOG	First uplink received. Open reception window.
0:23:45.504686	LOG	PUSH_ACK: 02 36a8 01
0:23:45.506654	LOG	GPS Time from gateway: 1385111282678
0:23:45.507654	LOG	PUSH_DATA: Protocol version = 02, Token = 36a8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1441789744, 'time': '2023-11-27T09:07:43.678529Z', 'tmms': 1385111282678, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.2, 'foff': -3237, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAsQICjhegsChxU/4Wvuc='}]}
0:23:45.509655	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02b1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fe16bee7)
0:23:45.511654	LOG	Server <---------- DUT
0:23:45.513655	LOG	Repeated frame. It does not count
0:23:51.979015	LOG	GPS Time updated: 1385111289260
0:23:51.980016	LOG	PULL_DATA: 02 dc01 02 0016c001ff1025bf
0:23:51.982018	LOG	PULL_ACK: 02 dc01 04
0:23:52.422156	LOG	First uplink received. Open reception window.
0:23:52.527330	LOG	PUSH_ACK: 02 3239 01
0:23:52.529316	LOG	GPS Time from gateway: 1385111289704
0:23:52.530297	LOG	PUSH_DATA: Protocol version = 02, Token = 3239, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1448816266, 'time': '2023-11-27T09:07:50.705048Z', 'tmms': 1385111289704, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3237, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAsgICkcUuZXblgRgwRh0='}]}
0:23:52.532302	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02b2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1830461d)
0:23:52.533309	LOG	Server <---------- DUT
0:23:52.535308	LOG	Count = 9
0:23:55.391901	LOG	First uplink received. Open reception window.
0:23:55.496418	LOG	PUSH_ACK: 02 80be 01
0:23:55.498401	LOG	GPS Time from gateway: 1385111292677
0:23:55.499419	LOG	PUSH_DATA: Protocol version = 02, Token = 80be, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1451789449, 'time': '2023-11-27T09:07:53.678232Z', 'tmms': 1385111292677, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.5, 'foff': -3234, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAsgICkcUuZXblgRgwRh0='}]}

0:23:55.501931	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02b2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1830461d)
0:23:55.503930	LOG	Server <---------- DUT
0:23:55.504930	LOG	Repeated frame. It does not count
0:24:02.070625	LOG	GPS Time updated: 1385111299356
0:24:02.071590	LOG	PULL_DATA: 02 be6e 02 0016c001ff1025bf
0:24:02.073590	LOG	PULL_ACK: 02 be6e 04
0:24:02.414783	LOG	First uplink received. Open reception window.
0:24:02.520967	LOG	PUSH_ACK: 02 d2c0 01
0:24:02.522933	LOG	GPS Time from gateway: 1385111299704
0:24:02.523933	LOG	PUSH_DATA: Protocol version = 02, Token = d2c0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1458815751, 'time': '2023-11-27T09:08:00.704533Z', 'tmms': 1385111299704, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3240, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAswICDnONM58is29Y4Mw='}]}
0:24:02.525943	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02b3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6f58e0cc)
0:24:02.526938	LOG	Server <---------- DUT
0:24:02.528939	LOG	Count = 10
0:24:05.394116	LOG	First uplink received. Open reception window.
0:24:05.496634	LOG	PUSH_ACK: 02 0a77 01
0:24:05.498601	LOG	GPS Time from gateway: 1385111302676
0:24:05.499601	LOG	PUSH_DATA: Protocol version = 02, Token = 0a77, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1461788608, 'time': '2023-11-27T09:08:03.677389Z', 'tmms': 1385111302676, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.0, 'foff': -3237, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAswICDnONM58is29Y4Mw='}]}
0:24:05.502116	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02b3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6f58e0cc)
0:24:05.504110	LOG	Server <---------- DUT
0:24:05.505613	LOG	Repeated frame. It does not count
0:24:12.150182	LOG	GPS Time updated: 1385111309432
0:24:12.152150	LOG	PULL_DATA: 02 cd5d 02 0016c001ff1025bf
0:24:12.153720	LOG	PULL_ACK: 02 cd5d 04
0:24:12.421624	LOG	First uplink received. Open reception window.
0:24:12.524670	LOG	PUSH_ACK: 02 1d0c 01
0:24:12.526672	LOG	GPS Time from gateway: 1385111309703
0:24:12.527671	LOG	PUSH_DATA: Protocol version = 02, Token = 1d0c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1468815274, 'time': '2023-11-27T09:08:10.704054Z', 'tmms': 1385111309703, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.5, 'foff': -3238, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAtAICcAdJ/9qDzrCrO28='}]}
0:24:12.529680	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02b4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b0ab3b6f)
0:24:12.531678	LOG	Server <---------- DUT
0:24:12.533738	LOG	Count = 11
0:24:15.387511	LOG	First uplink received. Open reception window.
0:24:15.500552	LOG	PUSH_ACK: 02 f4f0 01
0:24:15.503027	LOG	GPS Time from gateway: 1385111312676
0:24:15.504027	LOG	PUSH_DATA: Protocol version = 02, Token = f4f0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1471788003, 'time': '2023-11-27T09:08:13.676782Z', 'tmms': 1385111312676, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3232, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAtAICcAdJ/9qDzrCrO28='}]}
0:24:15.506028	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02b4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b0ab3b6f)

0:24:15.507028	LOG	Server <---------- DUT
0:24:15.509028	LOG	Repeated frame. It does not count
0:24:22.231196	LOG	GPS Time updated: 1385111319519
0:24:22.232194	LOG	PULL_DATA: 02 7216 02 0016c001ff1025bf
0:24:22.234164	LOG	PULL_ACK: 02 7216 04
0:24:22.419567	LOG	First uplink received. Open reception window.
0:24:22.520554	LOG	PUSH_ACK: 02 c878 01
0:24:22.522090	LOG	GPS Time from gateway: 1385111319703
0:24:22.524095	LOG	PUSH_DATA: Protocol version = 02, Token = c878, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1478814763, 'time': '2023-11-27T09:08:20.703541Z', 'tmms': 1385111319703, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3232, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAtQICrF2WHtLR3maUkQM='}]}
0:24:22.525099	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02b5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 66949103)
0:24:22.527099	LOG	Server <---------- DUT
0:24:22.528098	LOG	Count = 12
0:24:25.388635	LOG	First uplink received. Open reception window.
0:24:25.499240	LOG	PUSH_ACK: 02 05b9 01
0:24:25.500241	LOG	GPS Time from gateway: 1385111322676
0:24:25.502785	LOG	PUSH_DATA: Protocol version = 02, Token = 05b9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1481787908, 'time': '2023-11-27T09:08:23.676685Z', 'tmms': 1385111322676, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3231, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAtQICrF2WHtLR3maUkQM='}]}
0:24:25.503753	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02b5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 66949103)
0:24:25.505751	LOG	Server <---------- DUT
0:24:25.506750	LOG	Repeated frame. It does not count
0:24:32.310892	LOG	GPS Time updated: 1385111329599
0:24:32.311860	LOG	PULL_DATA: 02 cdbb 02 0016c001ff1025bf
0:24:32.313860	LOG	PULL_ACK: 02 cdbb 04
0:24:32.414249	LOG	First uplink received. Open reception window.
0:24:32.530263	LOG	PUSH_ACK: 02 6403 01
0:24:32.531230	LOG	GPS Time from gateway: 1385111329702
0:24:32.533741	LOG	PUSH_DATA: Protocol version = 02, Token = 6403, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1488814251, 'time': '2023-11-27T09:08:30.703027Z', 'tmms': 1385111329702, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3232, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAtgIC9SmRoY2BW2MKgfI='}]}
0:24:32.535251	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02b6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 630a81f2)
0:24:32.536252	LOG	Server <---------- DUT
0:24:32.538252	LOG	Count = 13
0:24:35.393702	LOG	First uplink received. Open reception window.
0:24:35.496393	LOG	PUSH_ACK: 02 6340 01
0:24:35.498394	LOG	GPS Time from gateway: 1385111332675
0:24:35.499362	LOG	PUSH_DATA: Protocol version = 02, Token = 6340, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1491786990, 'time': '2023-11-27T09:08:33.675764Z', 'tmms': 1385111332675, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.2, 'foff': -3228, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAtgIC9SmRoY2BW2MKgfI='}]}
0:24:35.500362	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02b6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 630a81f2)
0:24:35.502876	LOG	Server <---------- DUT
0:24:35.504872	LOG	Repeated frame. It does not count

0:24:42.410513	LOG	GPS Time updated: 1385111339692
0:24:42.412510	LOG	PULL_DATA: 02 7a84 02 0016c001ff1025bf
0:24:42.413476	LOG	PULL_ACK: 02 7a84 04
0:24:42.416510	LOG	First uplink received. Open reception window.
0:24:42.527275	LOG	PUSH_ACK: 02 5338 01
0:24:42.528983	LOG	GPS Time from gateway: 1385111339702
0:24:42.530983	LOG	PUSH_DATA: Protocol version = 02, Token = 5338, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1498813746, 'time': '2023-11-27T09:08:40.702520Z', 'tmms': 1385111339702, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.5, 'foff': -3232, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAtwICYQUsV5ZpOGbjedA='}]}
0:24:42.531982	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02b7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 66e379d0)
0:24:42.533486	LOG	Server <---------- DUT
0:24:42.536492	LOG	Count = 14
0:24:45.392014	LOG	First uplink received. Open reception window.
0:24:45.493187	LOG	PUSH_ACK: 02 f226 01
0:24:45.495151	LOG	GPS Time from gateway: 1385111342674
0:24:45.497152	LOG	PUSH_DATA: Protocol version = 02, Token = f226, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1501786629, 'time': '2023-11-27T09:08:43.675403Z', 'tmms': 1385111342674, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.0, 'foff': -3229, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAtwICYQUsV5ZpOGbjedA='}]}
0:24:45.498158	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02b7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 66e379d0)
0:24:45.500164	LOG	Server <---------- DUT
0:24:45.501669	LOG	Repeated frame. It does not count
0:24:52.411958	LOG	First uplink received. Open reception window.
0:24:52.491307	LOG	PULL_DATA: 02 9dc0 02 0016c001ff1025bf
0:24:52.492307	LOG	PULL_ACK: 02 9dc0 04
0:24:52.518923	LOG	PUSH_ACK: 02 f8fc 01
0:24:52.520926	LOG	GPS Time from gateway: 1385111349702
0:24:52.521922	LOG	PUSH_DATA: Protocol version = 02, Token = f8fc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1508813232, 'time': '2023-11-27T09:08:50.702004Z', 'tmms': 1385111349702, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.2, 'foff': -3230, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAuAICR4VCYcWrFDvDmPc='}]}
0:24:52.523897	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02b8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3bc398f7)
0:24:52.524890	LOG	Server <---------- DUT
0:24:52.526924	LOG	Count = 15
0:24:55.390859	LOG	First uplink received. Open reception window.
0:24:55.504098	LOG	PUSH_ACK: 02 e66b 01
0:24:55.506075	LOG	GPS Time from gateway: 1385111352675
0:24:55.507099	LOG	PUSH_DATA: Protocol version = 02, Token = e66b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1511786354, 'time': '2023-11-27T09:08:53.675126Z', 'tmms': 1385111352675, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.5, 'foff': -3227, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAuAICR4VCYcWrFDvDmPc='}]}
0:24:55.509081	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02b8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3bc398f7)
0:24:55.510101	LOG	Server <---------- DUT
0:24:55.512097	LOG	Repeated frame. It does not count
0:25:02.412822	LOG	First uplink received. Open reception window.
0:25:02.520471	LOG	PUSH_ACK: 02 1e03 01
0:25:02.522441	LOG	GPS Time from gateway: 1385111359701

0:25:02.523440	LOG	PUSH_DATA: Protocol version = 02, Token = 1e03, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1518812724, 'time': '2023-11-27T09:09:00.701493Z', 'tmms': 1385111359701, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.5, 'foff': -3230, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAuQIC5Ot1dHfy0gAFWTs='}]}
0:25:02.525447	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02b9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0005593b)
0:25:02.526478	LOG	Server <---------- DUT
0:25:02.528446	LOG	Count = 16
0:25:02.580814	LOG	GPS Time updated: 1385111359869
0:25:02.582817	LOG	PULL_DATA: 02 7712 02 0016c001ff1025bf
0:25:02.583817	LOG	PULL_ACK: 02 7712 04
0:25:05.392047	LOG	First uplink received. Open reception window.
0:25:05.499602	LOG	PUSH_ACK: 02 f3e9 01
0:25:05.500635	LOG	GPS Time from gateway: 1385111362674
0:25:05.503179	LOG	PUSH_DATA: Protocol version = 02, Token = f3e9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1521785225, 'time': '2023-11-27T09:09:03.673995Z', 'tmms': 1385111362674, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3227, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAuQIC5Ot1dHfy0gAFWTs='}]}
0:25:05.504209	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02b9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0005593b)
0:25:05.505211	LOG	Server <---------- DUT
0:25:05.507209	LOG	Repeated frame. It does not count
0:25:12.413690	LOG	First uplink received. Open reception window.
0:25:12.515383	LOG	PUSH_ACK: 02 622d 01
0:25:12.517349	LOG	GPS Time from gateway: 1385111369701
0:25:12.518400	LOG	PUSH_DATA: Protocol version = 02, Token = 622d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1528812204, 'time': '2023-11-27T09:09:10.700973Z', 'tmms': 1385111369701, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.0, 'foff': -3227, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAugICD1o8UQ/6p/XSvNA='}]}
0:25:12.520406	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02ba, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f5d2bcd0)
0:25:12.521404	LOG	Server <---------- DUT
0:25:12.523404	LOG	Count = 17
0:25:12.661329	LOG	GPS Time updated: 1385111369949
0:25:12.662940	LOG	PULL_DATA: 02 752f 02 0016c001ff1025bf
0:25:12.664615	LOG	PULL_ACK: 02 752f 04
0:25:15.383341	LOG	First uplink received. Open reception window.
0:25:15.499777	LOG	PUSH_ACK: 02 e8d9 01
0:25:15.500745	LOG	GPS Time from gateway: 1385111372673
0:25:15.503255	LOG	PUSH_DATA: Protocol version = 02, Token = e8d9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1531784646, 'time': '2023-11-27T09:09:13.673414Z', 'tmms': 1385111372673, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.5, 'foff': -3222, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAugICD1o8UQ/6p/XSvNA='}]}
0:25:15.504254	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02ba, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f5d2bcd0)
0:25:15.506255	LOG	Server <---------- DUT
0:25:15.507255	LOG	Repeated frame. It does not count
0:25:22.414487	LOG	First uplink received. Open reception window.
0:25:22.522514	LOG	PUSH_ACK: 02 324c 01
0:25:22.524526	LOG	GPS Time from gateway: 1385111379700
0:25:22.525483	LOG	PUSH_DATA: Protocol version = 02, Token = 324c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1538811699, 'time': '2023-11-27T09:09:20.700466Z',

		'tmms': 1385111379700, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.0, 'foff': -3221, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAuwICmrg7S4FzrMq1bHU='}]}
0:25:22.527483	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02bb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: cab56c75)
0:25:22.529522	LOG	Server <---------- DUT
0:25:22.531490	LOG	Count = 18
0:25:22.741115	LOG	GPS Time updated: 1385111380027
0:25:22.743249	LOG	PULL_DATA: 02 1a37 02 0016c001ff1025bf
0:25:22.744881	LOG	PULL_ACK: 02 1a37 04
0:25:25.394167	LOG	First uplink received. Open reception window.
0:25:25.505357	LOG	PUSH_ACK: 02 e194 01
0:25:25.507322	LOG	GPS Time from gateway: 1385111382674
0:25:25.508321	LOG	PUSH_DATA: Protocol version = 02, Token = e194, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1541785041, 'time': '2023-11-27T09:09:23.673807Z', 'tmms': 1385111382674, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.5, 'foff': -3216, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAuwICmrg7S4FzrMq1bHU='}]}
0:25:25.510323	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02bb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: cab56c75)
0:25:25.511322	LOG	Server <---------- DUT
0:25:25.513354	LOG	Repeated frame. It does not count
0:25:32.409981	LOG	First uplink received. Open reception window.
0:25:32.512659	LOG	PUSH_ACK: 02 bb35 01
0:25:32.514651	LOG	GPS Time from gateway: 1385111389700
0:25:32.515624	LOG	PUSH_DATA: Protocol version = 02, Token = bb35, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1548811181, 'time': '2023-11-27T09:09:30.699946Z', 'tmms': 1385111389700, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3215, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAvAICjDP+EfxHfYbrONM='}]}
0:25:32.517633	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02bc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 86eb38d3)
0:25:32.518623	LOG	Server <---------- DUT
0:25:32.520627	LOG	Count = 19
0:25:32.821381	LOG	GPS Time updated: 1385111390112
0:25:32.822968	LOG	PULL_DATA: 02 ccae 02 0016c001ff1025bf
0:25:32.824821	LOG	PULL_ACK: 02 ccae 04
0:25:35.388147	LOG	First uplink received. Open reception window.
0:25:35.491655	LOG	PUSH_ACK: 02 5bc4 01
0:25:35.493162	LOG	GPS Time from gateway: 1385111392672
0:25:35.494162	LOG	PUSH_DATA: Protocol version = 02, Token = 5bc4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1551783538, 'time': '2023-11-27T09:09:33.672302Z', 'tmms': 1385111392672, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3209, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAvAICjDP+EfxHfYbrONM='}]}
0:25:35.496672	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02bc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 86eb38d3)
0:25:35.497672	LOG	Server <---------- DUT
0:25:35.499672	LOG	Repeated frame. It does not count
0:25:42.413613	LOG	First uplink received. Open reception window.
0:25:42.517745	LOG	PUSH_ACK: 02 8490 01
0:25:42.519782	LOG	GPS Time from gateway: 1385111399699
0:25:42.520782	LOG	PUSH_DATA: Protocol version = 02, Token = 8490, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1558810665, 'time': '2023-11-27T09:09:40.699428Z', 'tmms': 1385111399699, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3210, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAvQICk93lkxqW4Ukt9pA='}]}
0:25:42.522749	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02bd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 492df690)
0:25:42.523747	LOG	Server <---------- DUT
0:25:42.525746	LOG	Count = 20
0:25:42.901482	LOG	GPS Time updated: 1385111400186
0:25:42.902481	LOG	PULL_DATA: 02 63a2 02 0016c001ff1025bf
0:25:42.904482	LOG	PULL_ACK: 02 63a2 04
0:25:45.389135	LOG	First uplink received. Open reception window.
0:25:45.497703	LOG	PUSH_ACK: 02 94da 01
0:25:45.499277	LOG	GPS Time from gateway: 1385111402672
0:25:45.501277	LOG	PUSH_DATA: Protocol version = 02, Token = 94da, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1561783088, 'time': '2023-11-27T09:09:43.671849Z', 'tmms': 1385111402672, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.0, 'foff': -3208, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAvQICk93lkxqW4Ukt9pA='}]}
0:25:45.501277	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02bd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 492df690)
0:25:45.503826	LOG	Server <---------- DUT
0:25:45.505822	LOG	Repeated frame. It does not count
0:25:52.416450	LOG	First uplink received. Open reception window.
0:25:52.530485	LOG	PUSH_ACK: 02 b487 01
0:25:52.532452	LOG	GPS Time from gateway: 1385111409699
0:25:52.533957	LOG	PUSH_DATA: Protocol version = 02, Token = b487, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1568810166, 'time': '2023-11-27T09:09:50.698927Z', 'tmms': 1385111409699, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.0, 'foff': -3210, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAvgIC+c+Zc9UN0R8nvpw='}]}
0:25:52.535963	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02be, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1f27be9c)
0:25:52.536962	LOG	Server <---------- DUT
0:25:52.538962	LOG	Count = 21
0:25:52.981276	LOG	GPS Time updated: 1385111410264
0:25:52.982274	LOG	PULL_DATA: 02 c4dd 02 0016c001ff1025bf
0:25:52.984277	LOG	PULL_ACK: 02 c4dd 04
0:25:55.389846	LOG	First uplink received. Open reception window.
0:25:55.499050	LOG	PUSH_ACK: 02 4326 01
0:25:55.500558	LOG	GPS Time from gateway: 1385111412671
0:25:55.502558	LOG	PUSH_DATA: Protocol version = 02, Token = 4326, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1571782646, 'time': '2023-11-27T09:09:53.671407Z', 'tmms': 1385111412671, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3204, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAvgIC+c+Zc9UN0R8nvpw='}]}
0:25:55.504068	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02be, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1f27be9c)
0:25:55.505068	LOG	Server <---------- DUT
0:25:55.507068	LOG	Repeated frame. It does not count
0:26:02.422573	LOG	First uplink received. Open reception window.
0:26:02.532510	LOG	PUSH_ACK: 02 0ab8 01
0:26:02.534048	LOG	GPS Time from gateway: 1385111419698
0:26:02.536085	LOG	PUSH_DATA: Protocol version = 02, Token = 0ab8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1578809643, 'time': '2023-11-27T09:10:00.698402Z', 'tmms': 1385111419698, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3204, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAvwICokgB/RVINo2s7fY='}]}

0:26:02.538054	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02bf, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8dacedf6)
0:26:02.539053	LOG	Server <---------- DUT
0:26:02.541052	LOG	Count = 22
0:26:03.061352	LOG	GPS Time updated: 1385111420345
0:26:03.063306	LOG	PULL_DATA: 02 55f3 02 0016c001ff1025bf
0:26:03.064305	LOG	PULL_ACK: 02 55f3 04
0:26:05.390141	LOG	First uplink received. Open reception window.
0:26:05.506274	LOG	PUSH_ACK: 02 9187 01
0:26:05.508240	LOG	GPS Time from gateway: 1385111422671
0:26:05.509242	LOG	PUSH_DATA: Protocol version = 02, Token = 9187, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1581782688, 'time': '2023-11-27T09:10:03.671447Z', 'tmms': 1385111422671, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.2, 'foff': -3202, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAvwICokgB/RVINo2s7fY='}]}
0:26:05.511275	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02bf, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8dacedf6)
0:26:05.512275	LOG	Server <---------- DUT
0:26:05.514276	LOG	Repeated frame. It does not count
0:26:12.414311	LOG	First uplink received. Open reception window.
0:26:12.523325	LOG	PUSH_ACK: 02 be20 01
0:26:12.525363	LOG	GPS Time from gateway: 1385111429698
0:26:12.526326	LOG	PUSH_DATA: Protocol version = 02, Token = be20, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1588809139, 'time': '2023-11-27T09:10:10.697895Z', 'tmms': 1385111429698, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.2, 'foff': -3201, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAwAICzPKLczUstP5lKHo='}]}
0:26:12.528331	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02c0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fe65287a)
0:26:12.529332	LOG	Server <---------- DUT
0:26:12.531331	LOG	Count = 23
0:26:13.141668	LOG	GPS Time updated: 1385111430424
0:26:13.142700	LOG	PULL_DATA: 02 3f7a 02 0016c001ff1025bf
0:26:13.144706	LOG	PULL_ACK: 02 3f7a 04
0:26:15.380124	LOG	First uplink received. Open reception window.
0:26:15.491729	LOG	PUSH_ACK: 02 550b 01
0:26:15.493698	LOG	GPS Time from gateway: 1385111432671
0:26:15.494731	LOG	PUSH_DATA: Protocol version = 02, Token = 550b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1591781844, 'time': '2023-11-27T09:10:13.670601Z', 'tmms': 1385111432671, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.2, 'foff': -3198, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAwAICzPKLczUstP5lKHo='}]}
0:26:15.496696	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02c0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fe65287a)
0:26:15.497696	LOG	Server <---------- DUT
0:26:15.499696	LOG	Repeated frame. It does not count
0:26:22.411362	LOG	First uplink received. Open reception window.
0:26:22.512785	LOG	PUSH_ACK: 02 28b0 01
0:26:22.514754	LOG	GPS Time from gateway: 1385111439697
0:26:22.515753	LOG	PUSH_DATA: Protocol version = 02, Token = 28b0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1598808629, 'time': '2023-11-27T09:10:20.697385Z', 'tmms': 1385111439697, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3202, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAwQICQD/qL6ZSGGPHQz4='}]}
0:26:22.517754	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02c1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 63c7433e)

0:26:22.518753	LOG	Server <---------- DUT
0:26:22.520758	LOG	Count = 24
0:26:23.231665	LOG	GPS Time updated: 1385111440517
0:26:23.232665	LOG	PULL_DATA: 02 cfd2 02 0016c001ff1025bf
0:26:23.234674	LOG	PULL_ACK: 02 cfd2 04
0:26:25.389158	LOG	First uplink received. Open reception window.
0:26:25.495101	LOG	PUSH_ACK: 02 a954 01
0:26:25.497069	LOG	GPS Time from gateway: 1385111442670
0:26:25.498069	LOG	PUSH_DATA: Protocol version = 02, Token = a954, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1601781229, 'time': '2023-11-27T09:10:23.669984Z', 'tmms': 1385111442670, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.2, 'foff': -3197, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAwQICQD/qL6ZSGGPHQz4='}]}
0:26:25.500074	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02c1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 63c7433e)
0:26:25.501073	LOG	Server <---------- DUT
0:26:25.503074	LOG	Repeated frame. It does not count
0:26:32.408549	LOG	First uplink received. Open reception window.
0:26:32.522465	LOG	PUSH_ACK: 02 630c 01
0:26:32.524433	LOG	GPS Time from gateway: 1385111449697
0:26:32.525435	LOG	PUSH_DATA: Protocol version = 02, Token = 630c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1608808111, 'time': '2023-11-27T09:10:30.696865Z', 'tmms': 1385111449697, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.5, 'foff': -3200, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAwgICciHzdo4Au+XzLUA='}]}
0:26:32.527440	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02c2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e5f32d40)
0:26:32.528465	LOG	Server <---------- DUT
0:26:32.530435	LOG	Count = 25
0:26:33.311300	LOG	GPS Time updated: 1385111450600
0:26:33.313265	LOG	PULL_DATA: 02 f6f7 02 0016c001ff1025bf
0:26:33.314265	LOG	PULL_ACK: 02 f6f7 04
0:26:35.390072	LOG	First uplink received. Open reception window.
0:26:35.493913	LOG	PUSH_ACK: 02 e7ab 01
0:26:35.495945	LOG	GPS Time from gateway: 1385111452670
0:26:35.496928	LOG	PUSH_DATA: Protocol version = 02, Token = e7ab, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1611781452, 'time': '2023-11-27T09:10:33.670205Z', 'tmms': 1385111452670, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.5, 'foff': -3197, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAwgICciHzdo4Au+XzLUA='}]}
0:26:35.498913	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02c2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e5f32d40)
0:26:35.499913	LOG	Server <---------- DUT
0:26:35.501911	LOG	Repeated frame. It does not count
0:26:42.409811	LOG	First uplink received. Open reception window.
0:26:42.513214	LOG	PUSH_ACK: 02 88c1 01
0:26:42.515248	LOG	GPS Time from gateway: 1385111459696
0:26:42.517216	LOG	PUSH_DATA: Protocol version = 02, Token = 88c1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1618807629, 'time': '2023-11-27T09:10:40.696381Z', 'tmms': 1385111459696, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.5, 'foff': -3204, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAwwICqNzMzZ2qSOEi6L0='}]}
0:26:42.518215	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02c3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e122e8bd)
0:26:42.519215	LOG	Server <---------- DUT
0:26:42.521219	LOG	Count = 26

0:26:43.401643	LOG	GPS Time updated: 1385111460688
0:26:43.402641	LOG	PULL_DATA: 02 d192 02 0016c001ff1025bf
0:26:43.404643	LOG	PULL_ACK: 02 d192 04
0:26:45.387895	LOG	First uplink received. Open reception window.
0:26:45.502224	LOG	PUSH_ACK: 02 7926 01
0:26:45.504369	LOG	GPS Time from gateway: 1385111462669
0:26:45.505371	LOG	PUSH_DATA: Protocol version = 02, Token = 7926, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1621780010, 'time': '2023-11-27T09:10:43.668761Z', 'tmms': 1385111462669, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.8, 'foff': -3201, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAwwICqNzMzZ2qSOEi6L0='}]}
0:26:45.506400	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02c3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e122e8bd)
0:26:45.508403	LOG	Server <---------- DUT
0:26:45.509402	LOG	Repeated frame. It does not count
0:26:52.407425	LOG	First uplink received. Open reception window.
0:26:52.518848	LOG	PUSH_ACK: 02 850b 01
0:26:52.520885	LOG	GPS Time from gateway: 1385111469696
0:26:52.521853	LOG	PUSH_DATA: Protocol version = 02, Token = 850b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1628807119, 'time': '2023-11-27T09:10:50.695869Z', 'tmms': 1385111469696, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3200, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAxAICy8XBI9n3x0VCN00='}]}
0:26:52.523857	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02c4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4542374d)
0:26:52.524859	LOG	Server <---------- DUT
0:26:52.526892	LOG	Count = 27
0:26:53.481161	LOG	GPS Time updated: 1385111470770
0:26:53.483127	LOG	PULL_DATA: 02 adc4 02 0016c001ff1025bf
0:26:53.484128	LOG	PULL_ACK: 02 adc4 04
0:26:55.387104	LOG	First uplink received. Open reception window.
0:26:55.498401	LOG	PUSH_ACK: 02 b66c 01
0:26:55.500364	LOG	GPS Time from gateway: 1385111472669
0:26:55.501366	LOG	PUSH_DATA: Protocol version = 02, Token = b66c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1631780055, 'time': '2023-11-27T09:10:53.668803Z', 'tmms': 1385111472669, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.2, 'foff': -3197, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAxAICy8XBI9n3x0VCN00='}]}
0:26:55.503369	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02c4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4542374d)
0:26:55.504374	LOG	Server <---------- DUT
0:26:55.506373	LOG	Repeated frame. It does not count
0:27:02.407408	LOG	First uplink received. Open reception window.
0:27:02.520909	LOG	PUSH_ACK: 02 e5f6 01
0:27:02.522910	LOG	GPS Time from gateway: 1385111479695
0:27:02.523912	LOG	PUSH_DATA: Protocol version = 02, Token = e5f6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1638806613, 'time': '2023-11-27T09:11:00.695361Z', 'tmms': 1385111479695, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3201, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAxQICSRf+M/N+9m6hfro='}]}
0:27:02.525910	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02c5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6ea17eba)
0:27:02.526909	LOG	Server <---------- DUT
0:27:02.528910	LOG	Count = 28
0:27:03.561592	LOG	GPS Time updated: 1385111480849
0:27:03.562560	LOG	PULL_DATA: 02 e63a 02 0016c001ff1025bf

0:27:03.564561	LOG	PULL_ACK: 02 e63a 04
0:27:05.379587	LOG	First uplink received. Open reception window.
0:27:05.486221	LOG	PUSH_ACK: 02 010e 01
0:27:05.488227	LOG	GPS Time from gateway: 1385111482668
0:27:05.489232	LOG	PUSH_DATA: Protocol version = 02, Token = 010e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1641778993, 'time': '2023-11-27T09:11:03.667741Z', 'tmms': 1385111482668, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.5, 'foff': -3199, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAxQICSRf+M/N+9m6hfro='}]}
0:27:05.491237	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02c5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6ea17eba)
0:27:05.492237	LOG	Server <---------- DUT
0:27:05.494237	LOG	Repeated frame. It does not count
0:27:12.405410	LOG	First uplink received. Open reception window.
0:27:12.509616	LOG	PUSH_ACK: 02 e094 01
0:27:12.511579	LOG	GPS Time from gateway: 1385111489695
0:27:12.512579	LOG	PUSH_DATA: Protocol version = 02, Token = e094, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1648806105, 'time': '2023-11-27T09:11:10.694851Z', 'tmms': 1385111489695, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.0, 'foff': -3201, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAxgICvyDbspmRPd2PaZg='}]}
0:27:12.514579	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02c6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: dd8f6998)
0:27:12.515578	LOG	Server <---------- DUT
0:27:12.517580	LOG	Count = 29
0:27:13.650991	LOG	GPS Time updated: 1385111490941
0:27:13.652991	LOG	PULL_DATA: 02 2543 02 0016c001ff1025bf
0:27:13.654961	LOG	PULL_ACK: 02 2543 04
0:27:15.381683	LOG	First uplink received. Open reception window.
0:27:15.483797	LOG	PUSH_ACK: 02 a01b 01
0:27:15.485797	LOG	GPS Time from gateway: 1385111492668
0:27:15.486796	LOG	PUSH_DATA: Protocol version = 02, Token = a01b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1651778963, 'time': '2023-11-27T09:11:13.667709Z', 'tmms': 1385111492668, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3197, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAxgICvyDbspmRPd2PaZg='}]}
0:27:15.488765	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02c6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: dd8f6998)
0:27:15.489798	LOG	Server <---------- DUT
0:27:15.491797	LOG	Repeated frame. It does not count
0:27:22.406510	LOG	First uplink received. Open reception window.
0:27:22.518084	LOG	PUSH_ACK: 02 3a87 01
0:27:22.520051	LOG	GPS Time from gateway: 1385111499694
0:27:22.521056	LOG	PUSH_DATA: Protocol version = 02, Token = 3a87, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1658805597, 'time': '2023-11-27T09:11:20.694340Z', 'tmms': 1385111499694, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.5, 'foff': -3200, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAxwICLeqKq+njSbdBI00='}]}
0:27:22.523062	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02c7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b741234d)
0:27:22.524060	LOG	Server <---------- DUT
0:27:22.526061	LOG	Count = 30
0:27:23.731613	LOG	GPS Time updated: 1385111501019
0:27:23.732581	LOG	PULL_DATA: 02 c6b9 02 0016c001ff1025bf
0:27:23.734582	LOG	PULL_ACK: 02 c6b9 04
0:27:25.379942	LOG	First uplink received. Open reception window.

0:27:25.494546	LOG	PUSH_ACK: 02 324e 01
0:27:25.496549	LOG	GPS Time from gateway: 1385111502667
0:27:25.497550	LOG	PUSH_DATA: Protocol version = 02, Token = 324e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1661778388, 'time': '2023-11-27T09:11:23.667132Z', 'tmms': 1385111502667, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.2, 'foff': -3196, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAxwICLeqKq+njSbdBI00='}]}
0:27:25.499548	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02c7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b741234d)
0:27:25.500548	LOG	Server <---------- DUT
0:27:25.502546	LOG	Repeated frame. It does not count
0:27:32.404317	LOG	First uplink received. Open reception window.
0:27:32.507871	LOG	PUSH_ACK: 02 7a03 01
0:27:32.508869	LOG	GPS Time from gateway: 1385111509694
0:27:32.511444	LOG	PUSH_DATA: Protocol version = 02, Token = 7a03, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1668805105, 'time': '2023-11-27T09:11:30.693848Z', 'tmms': 1385111509694, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 8.8, 'foff': -3196, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAyAIC3KYMBCkeci2OIKo='}]}
0:27:32.512411	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02c8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2d8e20aa)
0:27:32.514410	LOG	Server <---------- DUT
0:27:32.516411	LOG	Count = 31
0:27:33.811730	LOG	GPS Time updated: 1385111511101
0:27:33.812732	LOG	PULL_DATA: 02 e1f4 02 0016c001ff1025bf
0:27:33.814735	LOG	PULL_ACK: 02 e1f4 04
0:27:35.383751	LOG	First uplink received. Open reception window.
0:27:35.492134	LOG	PUSH_ACK: 02 2966 01
0:27:35.494101	LOG	GPS Time from gateway: 1385111512666
0:27:35.495102	LOG	PUSH_DATA: Protocol version = 02, Token = 2966, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1671777592, 'time': '2023-11-27T09:11:33.666334Z', 'tmms': 1385111512666, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.5, 'foff': -3190, 'rssi': -49, 'size': 20, 'data': 'QAAAAADAyAIC3KYMBCkeci2OIKo='}]}
0:27:35.497102	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02c8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2d8e20aa)
0:27:35.498101	LOG	Server <---------- DUT
0:27:35.500101	LOG	Repeated frame. It does not count
0:27:42.413434	LOG	First uplink received. Open reception window.
0:27:42.526825	LOG	PUSH_ACK: 02 2bb5 01
0:27:42.528793	LOG	GPS Time from gateway: 1385111519693
0:27:42.529792	LOG	PUSH_DATA: Protocol version = 02, Token = 2bb5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1678804604, 'time': '2023-11-27T09:11:40.693345Z', 'tmms': 1385111519693, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.8, 'foff': -3191, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAyQICHAxPfA3S7drCQR4='}]}
0:27:42.531805	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02c9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: dac2411e)
0:27:42.532792	LOG	Server <---------- DUT
0:27:42.533793	LOG	Count = 32
0:27:43.901187	LOG	GPS Time updated: 1385111521182
0:27:43.903150	LOG	PULL_DATA: 02 4310 02 0016c001ff1025bf
0:27:43.905151	LOG	PULL_ACK: 02 4310 04
0:27:45.381042	LOG	First uplink received. Open reception window.
0:27:45.486864	LOG	PUSH_ACK: 02 ab29 01
0:27:45.488867	LOG	GPS Time from gateway: 1385111522666

0:27:45.489872	LOG	PUSH_DATA: Protocol version = 02, Token = ab29, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1681777610, 'time': '2023-11-27T09:11:43.666350Z', 'tmms': 1385111522666, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.5, 'foff': -3185, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAyQICHAxPfA3S7drCQR4='}]}
0:27:45.491877	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02c9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: dac2411e)
0:27:45.492877	LOG	Server <---------- DUT
0:27:45.494877	LOG	Repeated frame. It does not count
0:27:52.994395	LOG	First uplink received. Open reception window.
0:27:53.110850	LOG	PUSH_ACK: 02 4aad 01
0:27:53.112853	LOG	GPS Time from gateway: 1385111530270
0:27:53.113852	LOG	PUSH_DATA: Protocol version = 02, Token = 4aad, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1689381495, 'time': '2023-11-27T09:11:51.270234Z', 'tmms': 1385111530270, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.5, 'foff': -3185, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAygICqmi9xsbigrLIzYg='}]}
0:27:53.115862	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02ca, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b2c8cd88)
0:27:53.116862	LOG	Server <---------- DUT
0:27:53.118878	LOG	Count = 33
0:27:53.120862	LOG	Waiting for the retransmissions
0:27:53.991609	LOG	GPS Time updated: 1385111531267
0:27:53.992609	LOG	PULL_DATA: 02 3735 02 0016c001ff1025bf
0:27:53.994654	LOG	PULL_ACK: 02 3735 04
0:27:56.539611	LOG	First uplink received. Open reception window.
0:27:56.642570	LOG	PUSH_ACK: 02 7e17 01
0:27:56.644569	LOG	GPS Time from gateway: 1385111533821
0:27:56.645537	LOG	PUSH_DATA: Protocol version = 02, Token = 7e17, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1692932846, 'time': '2023-11-27T09:11:54.821584Z', 'tmms': 1385111533821, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.8, 'foff': -3176, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAygICqmi9xsbigrLIzYg='}]}
0:27:56.647549	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02ca, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b2c8cd88)
0:27:56.648544	LOG	Server <---------- DUT
0:27:56.667054	LOG	Expected number of uplink messages have been received
0:27:56.671075	LOG	Test adaptive data rate control in frame header process starts
0:28:02.994631	LOG	First uplink received. Open reception window.
0:28:03.103694	LOG	PUSH_ACK: 02 c9a3 01
0:28:03.105697	LOG	GPS Time from gateway: 1385111540270
0:28:03.106696	LOG	PUSH_DATA: Protocol version = 02, Token = c9a3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1699380992, 'time': '2023-11-27T09:12:01.269729Z', 'tmms': 1385111540270, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.8, 'foff': -3175, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAywICIERStzUYGCY9KoA='}]}
0:28:03.108700	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02cb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 263d2a80)
0:28:03.109696	LOG	Server <---------- DUT
0:28:03.111695	LOG	Count = 2
0:28:04.071551	LOG	GPS Time updated: 1385111541347
0:28:04.073533	LOG	PULL_DATA: 02 5b6a 02 0016c001ff1025bf
0:28:04.074530	LOG	PULL_ACK: 02 5b6a 04
0:28:06.547703	LOG	First uplink received. Open reception window.
0:28:06.652647	LOG	PUSH_ACK: 02 be95 01
0:28:06.654647	LOG	GPS Time from gateway: 1385111543820

0:28:06.655617	LOG	PUSH_DATA: Protocol version = 02, Token = be95, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1702931443, 'time': '2023-11-27T09:12:04.820179Z', 'tmms': 1385111543820, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.8, 'foff': -3165, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAywICIERStzUYGCY9KoA='}]}
0:28:06.658618	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02cb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 263d2a80)
0:28:06.659615	LOG	Server <---------- DUT
0:28:06.661737	LOG	Repeated frame. It does not count
0:28:12.990698	LOG	First uplink received. Open reception window.
0:28:13.098501	LOG	PUSH_ACK: 02 4e24 01
0:28:13.101051	LOG	GPS Time from gateway: 1385111550269
0:28:13.102019	LOG	PUSH_DATA: Protocol version = 02, Token = 4e24, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1709380475, 'time': '2023-11-27T09:12:11.269210Z', 'tmms': 1385111550269, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.8, 'foff': -3165, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAzAICeKmlqdsGzm3VTtM='}]}
0:28:13.104027	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02cc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6dd54ed3)
0:28:13.105018	LOG	Server <---------- DUT
0:28:13.107017	LOG	Count = 3
0:28:14.161677	LOG	GPS Time updated: 1385111551440
0:28:14.163645	LOG	PULL_DATA: 02 d3c9 02 0016c001ff1025bf
0:28:14.164645	LOG	PULL_ACK: 02 d3c9 04
0:28:16.545039	LOG	First uplink received. Open reception window.
0:28:16.647050	LOG	PUSH_ACK: 02 27b4 01
0:28:16.649017	LOG	GPS Time from gateway: 1385111553820
0:28:16.651015	LOG	PUSH_DATA: Protocol version = 02, Token = 27b4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1712931202, 'time': '2023-11-27T09:12:14.819935Z', 'tmms': 1385111553820, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3159, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAzAICeKmlqdsGzm3VTtM='}]}
0:28:16.652048	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02cc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6dd54ed3)
0:28:16.653048	LOG	Server <---------- DUT
0:28:16.655017	LOG	Repeated frame. It does not count
0:28:22.991640	LOG	First uplink received. Open reception window.
0:28:23.096243	LOG	PUSH_ACK: 02 bd51 01
0:28:23.098289	LOG	GPS Time from gateway: 1385111560269
0:28:23.099293	LOG	PUSH_DATA: Protocol version = 02, Token = bd51, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1719379977, 'time': '2023-11-27T09:12:21.268710Z', 'tmms': 1385111560269, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.5, 'foff': -3161, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAzQICLLLeUXuyAlPU37o='}]}
0:28:23.101327	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02cd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 53d4dfba)
0:28:23.102329	LOG	Server <---------- DUT
0:28:23.104331	LOG	Count = 4
0:28:24.241703	LOG	GPS Time updated: 1385111561520
0:28:24.242703	LOG	PULL_DATA: 02 1bbc 02 0016c001ff1025bf
0:28:24.244706	LOG	PULL_ACK: 02 1bbc 04
0:28:26.545169	LOG	First uplink received. Open reception window.
0:28:26.646261	LOG	PUSH_ACK: 02 2846 01
0:28:26.648260	LOG	GPS Time from gateway: 1385111563819
0:28:26.650228	LOG	PUSH_DATA: Protocol version = 02, Token = 2846, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1722930665, 'time': '2023-11-27T09:12:24.819398Z',

		'tmms': 1385111563819, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.0, 'foff': -3153, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAzQICLLLeUXuyAlPU37o='}]}
0:28:26.651233	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02cd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 53d4dfba)
0:28:26.652232	LOG	Server <---------- DUT
0:28:26.654231	LOG	Repeated frame. It does not count
0:28:32.989941	LOG	First uplink received. Open reception window.
0:28:33.104982	LOG	PUSH_ACK: 02 716b 01
0:28:33.106556	LOG	GPS Time from gateway: 1385111570268
0:28:33.108559	LOG	PUSH_DATA: Protocol version = 02, Token = 716b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1729379470, 'time': '2023-11-27T09:12:31.268201Z', 'tmms': 1385111570268, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3155, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAzgICNFP7bgvzp7eWThI='}]}
0:28:33.109524	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02ce, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b7964e12)
0:28:33.111524	LOG	Server <---------- DUT
0:28:33.112523	LOG	Count = 5
0:28:34.322032	LOG	GPS Time updated: 1385111571600
0:28:34.323032	LOG	PULL_DATA: 02 561d 02 0016c001ff1025bf
0:28:34.325033	LOG	PULL_ACK: 02 561d 04
0:28:36.547801	LOG	First uplink received. Open reception window.
0:28:36.649962	LOG	PUSH_ACK: 02 94a0 01
0:28:36.651964	LOG	GPS Time from gateway: 1385111573820
0:28:36.652964	LOG	PUSH_DATA: Protocol version = 02, Token = 94a0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1732931859, 'time': '2023-11-27T09:12:34.820590Z', 'tmms': 1385111573820, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 8.8, 'foff': -3150, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAzgICNFP7bgvzp7eWThI='}]}
0:28:36.654929	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02ce, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b7964e12)
0:28:36.655929	LOG	Server <---------- DUT
0:28:36.657928	LOG	Repeated frame. It does not count
0:28:42.995255	LOG	First uplink received. Open reception window.
0:28:43.099753	LOG	PUSH_ACK: 02 d648 01
0:28:43.101260	LOG	GPS Time from gateway: 1385111580268
0:28:43.103293	LOG	PUSH_DATA: Protocol version = 02, Token = d648, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1739378966, 'time': '2023-11-27T09:12:41.267694Z', 'tmms': 1385111580268, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.8, 'foff': -3154, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAzwIC8DN6IbZ3+sb7s0g='}]}
0:28:43.104293	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02cf, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c6fbb348)
0:28:43.106293	LOG	Server <---------- DUT
0:28:43.107293	LOG	Count = 6
0:28:44.401956	LOG	GPS Time updated: 1385111581674
0:28:44.402956	LOG	PULL_DATA: 02 e29f 02 0016c001ff1025bf
0:28:44.404957	LOG	PULL_ACK: 02 e29f 04
0:28:46.537467	LOG	First uplink received. Open reception window.
0:28:46.647124	LOG	PUSH_ACK: 02 eb3d 01
0:28:46.649098	LOG	GPS Time from gateway: 1385111583818
0:28:46.650092	LOG	PUSH_DATA: Protocol version = 02, Token = eb3d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1742929411, 'time': '2023-11-27T09:12:44.818140Z', 'tmms': 1385111583818, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3150, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAzwIC8DN6IbZ3+sb7s0g='}]}
0:28:46.652097	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02cf, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c6fbb348)
0:28:46.653096	LOG	Server <---------- DUT
0:28:46.655097	LOG	Repeated frame. It does not count
0:28:52.990068	LOG	First uplink received. Open reception window.
0:28:53.105461	LOG	PUSH_ACK: 02 09a9 01
0:28:53.107034	LOG	GPS Time from gateway: 1385111590267
0:28:53.109005	LOG	PUSH_DATA: Protocol version = 02, Token = 09a9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1749378456, 'time': '2023-11-27T09:12:51.267182Z', 'tmms': 1385111590267, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 8.8, 'foff': -3157, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA0AICZv9bD1nfw4PPB5A='}]}
0:28:53.110037	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02d0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 83cf0790)
0:28:53.112002	LOG	Server <---------- DUT
0:28:53.114002	LOG	Count = 7
0:28:54.481684	LOG	GPS Time updated: 1385111591758
0:28:54.483689	LOG	PULL_DATA: 02 d3fb 02 0016c001ff1025bf
0:28:54.484717	LOG	PULL_ACK: 02 d3fb 04
0:28:56.540392	LOG	First uplink received. Open reception window.
0:28:56.646100	LOG	PUSH_ACK: 02 2e21 01
0:28:56.648105	LOG	GPS Time from gateway: 1385111593818
0:28:56.649104	LOG	PUSH_DATA: Protocol version = 02, Token = 2e21, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1752929764, 'time': '2023-11-27T09:12:54.818491Z', 'tmms': 1385111593818, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.5, 'foff': -3153, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA0AICZv9bD1nfw4PPB5A='}]}
0:28:56.651108	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02d0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 83cf0790)
0:28:56.652108	LOG	Server <---------- DUT
0:28:56.654108	LOG	Repeated frame. It does not count
0:29:02.985370	LOG	First uplink received. Open reception window.
0:29:03.091148	LOG	PUSH_ACK: 02 1f02 01
0:29:03.092653	LOG	GPS Time from gateway: 1385111600267
0:29:03.094655	LOG	PUSH_DATA: Protocol version = 02, Token = 1f02, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1759377951, 'time': '2023-11-27T09:13:01.266677Z', 'tmms': 1385111600267, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 8.2, 'foff': -3163, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA0QICRWvmegpJn1FRM2w='}]}
0:29:03.096660	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02d1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5151336c)
0:29:03.097660	LOG	Server <---------- DUT
0:29:03.100167	LOG	Count = 8
0:29:04.561766	LOG	GPS Time updated: 1385111601843
0:29:04.563762	LOG	PULL_DATA: 02 ea46 02 0016c001ff1025bf
0:29:04.565013	LOG	PULL_ACK: 02 ea46 04
0:29:06.540348	LOG	First uplink received. Open reception window.
0:29:06.647148	LOG	PUSH_ACK: 02 b6a7 01
0:29:06.649117	LOG	GPS Time from gateway: 1385111603818
0:29:06.650117	LOG	PUSH_DATA: Protocol version = 02, Token = b6a7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1762929345, 'time': '2023-11-27T09:13:04.818070Z', 'tmms': 1385111603818, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.5, 'foff': -3162, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA0QICRWvmegpJn1FRM2w='}]}

0:29:06.652125	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02d1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5151336c)
0:29:06.654145	LOG	Server <---------- DUT
0:29:06.656131	LOG	Repeated frame. It does not count
0:29:12.986369	LOG	First uplink received. Open reception window.
0:29:13.089087	LOG	PUSH_ACK: 02 63bf 01
0:29:13.090594	LOG	GPS Time from gateway: 1385111610266
0:29:13.092596	LOG	PUSH_DATA: Protocol version = 02, Token = 63bf, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1769377445, 'time': '2023-11-27T09:13:11.266169Z', 'tmms': 1385111610266, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.0, 'foff': -3166, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA0gICrxP0YRuU13Sskz8='}]}
0:29:13.093600	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02d2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 74ac933f)
0:29:13.095601	LOG	Server <---------- DUT
0:29:13.096600	LOG	Count = 9
0:29:14.642131	LOG	GPS Time updated: 1385111611922
0:29:14.643131	LOG	PULL_DATA: 02 17d5 02 0016c001ff1025bf
0:29:14.645133	LOG	PULL_ACK: 02 17d5 04
0:29:16.542799	LOG	First uplink received. Open reception window.
0:29:16.645927	LOG	PUSH_ACK: 02 2a6d 01
0:29:16.647959	LOG	GPS Time from gateway: 1385111613817
0:29:16.649931	LOG	PUSH_DATA: Protocol version = 02, Token = 2a6d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1772928434, 'time': '2023-11-27T09:13:14.817157Z', 'tmms': 1385111613817, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.5, 'foff': -3160, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA0gICrxP0YRuU13Sskz8='}]}
0:29:16.650930	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02d2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 74ac933f)
0:29:16.651930	LOG	Server <---------- DUT
0:29:16.653930	LOG	Repeated frame. It does not count
0:29:22.992015	LOG	First uplink received. Open reception window.
0:29:23.109014	LOG	PUSH_ACK: 02 f2be 01
0:29:23.110588	LOG	GPS Time from gateway: 1385111620265
0:29:23.112593	LOG	PUSH_DATA: Protocol version = 02, Token = f2be, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1779376927, 'time': '2023-11-27T09:13:21.265649Z', 'tmms': 1385111620265, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.5, 'foff': -3162, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA0wICNU9pUvPa7dgDIig='}]}
0:29:23.114592	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02d3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d8032228)
0:29:23.115625	LOG	Server <---------- DUT
0:29:23.117635	LOG	Count = 10
0:29:24.731653	LOG	GPS Time updated: 1385111622004
0:29:24.733661	LOG	PULL_DATA: 02 0ebc 02 0016c001ff1025bf
0:29:24.735624	LOG	PULL_ACK: 02 0ebc 04
0:29:26.534634	LOG	First uplink received. Open reception window.
0:29:26.639393	LOG	PUSH_ACK: 02 89e4 01
0:29:26.641395	LOG	GPS Time from gateway: 1385111623817
0:29:26.642395	LOG	PUSH_DATA: Protocol version = 02, Token = 89e4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1782928198, 'time': '2023-11-27T09:13:24.816918Z', 'tmms': 1385111623817, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3155, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA0wICNU9pUvPa7dgDIig='}]}
0:29:26.644411	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02d3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d8032228)

0:29:26.645394	LOG	Server <---------- DUT
0:29:26.647400	LOG	Repeated frame. It does not count
0:29:32.982859	LOG	First uplink received. Open reception window.
0:29:33.096323	LOG	PUSH_ACK: 02 046c 01
0:29:33.097892	LOG	GPS Time from gateway: 1385111630265
0:29:33.099395	LOG	PUSH_DATA: Protocol version = 02, Token = 046c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1789376418, 'time': '2023-11-27T09:13:31.265137Z', 'tmms': 1385111630265, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.2, 'foff': -3160, 'rssi': -49, 'size': 20, 'data': 'QAAAAADA1AIC1nGDZ523eQjkg9o='}]}
0:29:33.101442	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02d4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 08e483da)
0:29:33.102434	LOG	Server <---------- DUT
0:29:33.104434	LOG	Count = 11
0:29:34.811857	LOG	GPS Time updated: 1385111632094
0:29:34.813838	LOG	PULL_DATA: 02 83ef 02 0016c001ff1025bf
0:29:34.815371	LOG	PULL_ACK: 02 83ef 04
0:29:36.539028	LOG	First uplink received. Open reception window.
0:29:36.654552	LOG	PUSH_ACK: 02 a98d 01
0:29:36.656520	LOG	GPS Time from gateway: 1385111633816
0:29:36.657529	LOG	PUSH_DATA: Protocol version = 02, Token = a98d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1792927039, 'time': '2023-11-27T09:13:34.815757Z', 'tmms': 1385111633816, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.8, 'foff': -3156, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA1AIC1nGDZ523eQjkg9o='}]}
0:29:36.659524	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02d4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 08e483da)
0:29:36.660524	LOG	Server <---------- DUT
0:29:36.662028	LOG	Repeated frame. It does not count
0:29:42.986224	LOG	First uplink received. Open reception window.
0:29:43.091448	LOG	PUSH_ACK: 02 88c7 01
0:29:43.093486	LOG	GPS Time from gateway: 1385111640264
0:29:43.094458	LOG	PUSH_DATA: Protocol version = 02, Token = 88c7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1799375917, 'time': '2023-11-27T09:13:41.264635Z', 'tmms': 1385111640264, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.8, 'foff': -3157, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA1QIC9FAIftJlQcs1nRs='}]}
0:29:43.096496	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02d5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: cb359d1b)
0:29:43.098449	LOG	Server <---------- DUT
0:29:43.099991	LOG	Count = 12
0:29:44.892036	LOG	GPS Time updated: 1385111642170
0:29:44.893003	LOG	PULL_DATA: 02 9ea7 02 0016c001ff1025bf
0:29:44.895005	LOG	PULL_ACK: 02 9ea7 04
0:29:46.536124	LOG	First uplink received. Open reception window.
0:29:46.643090	LOG	PUSH_ACK: 02 c988 01
0:29:46.645056	LOG	GPS Time from gateway: 1385111643816
0:29:46.647057	LOG	PUSH_DATA: Protocol version = 02, Token = c988, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1802927103, 'time': '2023-11-27T09:13:44.815821Z', 'tmms': 1385111643816, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3152, 'rssi': -49, 'size': 20, 'data': 'QAAAAADA1QIC9FAIftJlQcs1nRs='}]}
0:29:46.648056	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02d5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: cb359d1b)
0:29:46.649566	LOG	Server <---------- DUT
0:29:46.651566	LOG	Repeated frame. It does not count

0:29:52.984382	LOG	First uplink received. Open reception window.
0:29:53.099360	LOG	PUSH_ACK: 02 ed7f 01
0:29:53.100868	LOG	GPS Time from gateway: 1385111650264
0:29:53.102872	LOG	PUSH_DATA: Protocol version = 02, Token = ed7f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1809375413, 'time': '2023-11-27T09:13:51.264129Z', 'tmms': 1385111650264, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.8, 'foff': -3155, 'rssi': -49, 'size': 20, 'data': 'QAAAAADA1gIC8UaCc49f9RPiLuo='}]}
0:29:53.104882	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02d6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 13e22eea)
0:29:53.106868	LOG	Server <---------- DUT
0:29:53.107901	LOG	Count = 13
0:29:54.971885	LOG	GPS Time updated: 1385111652252
0:29:54.973873	LOG	PULL_DATA: 02 3085 02 0016c001ff1025bf
0:29:54.974852	LOG	PULL_ACK: 02 3085 04
0:29:56.538081	LOG	First uplink received. Open reception window.
0:29:56.648052	LOG	PUSH_ACK: 02 5193 01
0:29:56.650020	LOG	GPS Time from gateway: 1385111653815
0:29:56.651022	LOG	PUSH_DATA: Protocol version = 02, Token = 5193, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1812926459, 'time': '2023-11-27T09:13:54.815175Z', 'tmms': 1385111653815, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.2, 'foff': -3150, 'rssi': -49, 'size': 20, 'data': 'QAAAAADA1gIC8UaCc49f9RPiLuo='}]}
0:29:56.653020	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02d6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 13e22eea)
0:29:56.654053	LOG	Server <---------- DUT
0:29:56.656021	LOG	Repeated frame. It does not count
0:30:02.982535	LOG	Multiple frames received. Selecting the correct frame...
0:30:02.984165	LOG	Frame selected: {'jver': 1, 'tmst': 1819374898, 'time': '2023-11-27T09:14:01.263611Z', 'tmms': 1385111660263, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.8, 'foff': -3151, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA1wICzwz5AcQWbFnIjJU='}
0:30:02.985719	LOG	First uplink received. Open reception window.
0:30:03.093658	LOG	PUSH_ACK: 02 4468 01
0:30:03.095623	LOG	GPS Time from gateway: 1385111660263
0:30:03.096625	LOG	PUSH_DATA: Protocol version = 02, Token = 4468, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1819374878, 'time': '2023-11-27T09:14:01.263591Z', 'tmms': 1385111660263, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -113, 'lsnr': -20.0, 'foff': -28152, 'rssi': -94, 'size': 20, 'data': 'QAAAAADA1wICzwz5AcQWbFnIjJU='}, {'jver': 1, 'tmst': 1819374898, 'time': '2023-11-27T09:14:01.263611Z', 'tmms': 1385111660263, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.8, 'foff': -3151, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA1wICzwz5AcQWbFnIjJU='}]}
0:30:03.098633	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02d7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 59c88c95)
0:30:03.100134	LOG	Server <---------- DUT
0:30:03.102159	LOG	Count = 14
0:30:05.051674	LOG	GPS Time updated: 1385111662329
0:30:05.053677	LOG	PULL_DATA: 02 686f 02 0016c001ff1025bf
0:30:05.055643	LOG	PULL_ACK: 02 686f 04
0:30:06.542229	LOG	First uplink received. Open reception window.
0:30:06.645807	LOG	PUSH_ACK: 02 d65a 01
0:30:06.647875	LOG	GPS Time from gateway: 1385111663814

0:30:06.649855	LOG	PUSH_DATA: Protocol version = 02, Token = d65a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1822925399, 'time': '2023-11-27T09:14:04.814113Z', 'tmms': 1385111663814, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.5, 'foff': -3144, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA1wICzwz5AcQWbFnIjJU='}]}
0:30:06.650848	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02d7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 59c88c95)
0:30:06.652848	LOG	Server <---------- DUT
0:30:06.653862	LOG	Repeated frame. It does not count
0:30:12.999966	LOG	First uplink received. Open reception window.
0:30:13.101787	LOG	PUSH_ACK: 02 16b7 01
0:30:13.103754	LOG	GPS Time from gateway: 1385111670263
0:30:13.104755	LOG	PUSH_DATA: Protocol version = 02, Token = 16b7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1829374395, 'time': '2023-11-27T09:14:11.263108Z', 'tmms': 1385111670263, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3151, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA2AIC6blTFwRx8yq1TUg='}]}
0:30:13.106802	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02d8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2ab54d48)
0:30:13.107788	LOG	Server <---------- DUT
0:30:13.109787	LOG	Count = 15
0:30:15.142280	LOG	GPS Time updated: 1385111672414
0:30:15.143280	LOG	PULL_DATA: 02 c81a 02 0016c001ff1025bf
0:30:15.145282	LOG	PULL_ACK: 02 c81a 04
0:30:16.537449	LOG	First uplink received. Open reception window.
0:30:16.646293	LOG	PUSH_ACK: 02 234b 01
0:30:16.648261	LOG	GPS Time from gateway: 1385111673814
0:30:16.649261	LOG	PUSH_DATA: Protocol version = 02, Token = 234b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1832925467, 'time': '2023-11-27T09:14:14.814179Z', 'tmms': 1385111673814, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.2, 'foff': -3146, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA2AIC6blTFwRx8yq1TUg='}]}
0:30:16.651266	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02d8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2ab54d48)
0:30:16.652265	LOG	Server <---------- DUT
0:30:16.654281	LOG	Repeated frame. It does not count
0:30:22.989910	LOG	First uplink received. Open reception window.
0:30:23.094118	LOG	PUSH_ACK: 02 09cc 01
0:30:23.096319	LOG	GPS Time from gateway: 1385111680262
0:30:23.098017	LOG	PUSH_DATA: Protocol version = 02, Token = 09cc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1839373886, 'time': '2023-11-27T09:14:21.262597Z', 'tmms': 1385111680262, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3153, 'rssi': -49, 'size': 20, 'data': 'QAAAAADA2QICBEhUpSyw+Q+Sd6w='}]}
0:30:23.099593	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02d9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0f9277ac)
0:30:23.101764	LOG	Server <---------- DUT
0:30:23.103376	LOG	Count = 16
0:30:25.221822	LOG	GPS Time updated: 1385111682495
0:30:25.223789	LOG	PULL_DATA: 02 d8a2 02 0016c001ff1025bf
0:30:25.225789	LOG	PULL_ACK: 02 d8a2 04
0:30:26.533927	LOG	First uplink received. Open reception window.
0:30:26.638752	LOG	PUSH_ACK: 02 4960 01
0:30:26.640721	LOG	GPS Time from gateway: 1385111683814
0:30:26.641721	LOG	PUSH_DATA: Protocol version = 02, Token = 4960, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1842925111, 'time': '2023-11-27T09:14:24.813821Z',

		'tmms': 1385111683814, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3150, 'rssi': -49, 'size': 20, 'data': 'QAAAAADA2QICBEhUpSyw+Q+Sd6w='}]}
0:30:26.643722	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02d9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0f9277ac)
0:30:26.644721	LOG	Server <---------- DUT
0:30:26.646721	LOG	Repeated frame. It does not count
0:30:32.984970	LOG	First uplink received. Open reception window.
0:30:33.093195	LOG	PUSH_ACK: 02 69e7 01
0:30:33.095197	LOG	GPS Time from gateway: 1385111690262
0:30:33.096198	LOG	PUSH_DATA: Protocol version = 02, Token = 69e7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1849373378, 'time': '2023-11-27T09:14:31.262087Z', 'tmms': 1385111690262, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.2, 'foff': -3157, 'rssi': -49, 'size': 20, 'data': 'QAAAAADA2gICNkXg1YO/wAyTY4Q='}]}
0:30:33.098197	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02da, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0c936384)
0:30:33.099702	LOG	Server <---------- DUT
0:30:33.101708	LOG	Count = 17
0:30:35.301584	LOG	GPS Time updated: 1385111692579
0:30:35.303585	LOG	PULL_DATA: 02 0732 02 0016c001ff1025bf
0:30:35.305199	LOG	PULL_ACK: 02 0732 04
0:30:36.532969	LOG	First uplink received. Open reception window.
0:30:36.637959	LOG	PUSH_ACK: 02 6ff5 01
0:30:36.639927	LOG	GPS Time from gateway: 1385111693813
0:30:36.640926	LOG	PUSH_DATA: Protocol version = 02, Token = 6ff5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1852924266, 'time': '2023-11-27T09:14:34.812974Z', 'tmms': 1385111693813, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.0, 'foff': -3156, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA2gICNkXg1YO/wAyTY4Q='}]}
0:30:36.642927	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02da, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0c936384)
0:30:36.643926	LOG	Server <---------- DUT
0:30:36.645927	LOG	Repeated frame. It does not count
0:30:42.987914	LOG	First uplink received. Open reception window.
0:30:43.093827	LOG	PUSH_ACK: 02 7a02 01
0:30:43.095862	LOG	GPS Time from gateway: 1385111700261
0:30:43.096863	LOG	PUSH_DATA: Protocol version = 02, Token = 7a02, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1859372874, 'time': '2023-11-27T09:14:41.261581Z', 'tmms': 1385111700261, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.8, 'foff': -3157, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA2wICNxknPWuYyHm4uHE='}]}
0:30:43.098837	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02db, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 79b8b871)
0:30:43.099838	LOG	Server <---------- DUT
0:30:43.102427	LOG	Count = 18
0:30:45.382592	LOG	GPS Time updated: 1385111702655
0:30:45.383587	LOG	PULL_DATA: 02 33be 02 0016c001ff1025bf
0:30:45.385567	LOG	PULL_ACK: 02 33be 04
0:30:46.535230	LOG	First uplink received. Open reception window.
0:30:46.647279	LOG	PUSH_ACK: 02 6b9b 01
0:30:46.649284	LOG	GPS Time from gateway: 1385111703813
0:30:46.650283	LOG	PUSH_DATA: Protocol version = 02, Token = 6b9b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1862924316, 'time': '2023-11-27T09:14:44.813021Z', 'tmms': 1385111703813, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 2, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.5, 'foff': -3150, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA2wICNxknPWuYyHm4uHE='}]}
0:30:46.652283	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02db, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 79b8b871)
0:30:46.653283	LOG	Server <---------- DUT
0:30:46.655283	LOG	Repeated frame. It does not count
0:30:52.989996	LOG	First uplink received. Open reception window.
0:30:53.091790	LOG	PUSH_ACK: 02 2d41 01
0:30:53.093947	LOG	GPS Time from gateway: 1385111710261
0:30:53.096141	LOG	PUSH_DATA: Protocol version = 02, Token = 2d41, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1869372371, 'time': '2023-11-27T09:14:51.261075Z', 'tmms': 1385111710261, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.5, 'foff': -3155, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA3AICjT1OH22yu0riMvM='}]}
0:30:53.098703	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02dc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4ae232f3)
0:30:53.100412	LOG	Server <---------- DUT
0:30:53.102240	LOG	Count = 19
0:30:55.462410	LOG	GPS Time updated: 1385111712734
0:30:55.463916	LOG	PULL_DATA: 02 f65b 02 0016c001ff1025bf
0:30:55.465609	LOG	PULL_ACK: 02 f65b 04
0:30:56.531223	LOG	First uplink received. Open reception window.
0:30:56.638669	LOG	PUSH_ACK: 02 250c 01
0:30:56.640682	LOG	GPS Time from gateway: 1385111713812
0:30:56.641668	LOG	PUSH_DATA: Protocol version = 02, Token = 250c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1872923737, 'time': '2023-11-27T09:14:54.812442Z', 'tmms': 1385111713812, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3150, 'rssi': -49, 'size': 20, 'data': 'QAAAAADA3AICjT1OH22yu0riMvM='}]}
0:30:56.643670	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02dc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4ae232f3)
0:30:56.644668	LOG	Server <---------- DUT
0:30:56.646647	LOG	Repeated frame. It does not count
0:31:02.988887	LOG	First uplink received. Open reception window.
0:31:03.098014	LOG	PUSH_ACK: 02 12ed 01
0:31:03.100134	LOG	GPS Time from gateway: 1385111720260
0:31:03.101778	LOG	PUSH_DATA: Protocol version = 02, Token = 12ed, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1879371860, 'time': '2023-11-27T09:15:01.260563Z', 'tmms': 1385111720260, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3157, 'rssi': -49, 'size': 20, 'data': 'QAAAAADA3QICWO0hb777KOqfWoo='}]}
0:31:03.103407	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02dd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ea9f5a8a)
0:31:03.105269	LOG	Server <---------- DUT
0:31:03.106877	LOG	Count = 20
0:31:05.542287	LOG	GPS Time updated: 1385111722814
0:31:05.544252	LOG	PULL_DATA: 02 2735 02 0016c001ff1025bf
0:31:05.545252	LOG	PULL_ACK: 02 2735 04
0:31:06.541009	LOG	First uplink received. Open reception window.
0:31:06.647894	LOG	PUSH_ACK: 02 3830 01
0:31:06.649900	LOG	GPS Time from gateway: 1385111723812
0:31:06.651899	LOG	PUSH_DATA: Protocol version = 02, Token = 3830, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1882923081, 'time': '2023-11-27T09:15:04.811784Z', 'tmms': 1385111723812, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3149, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA3QICWO0hb777KOqfWoo='}]}

0:31:06.652898	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02dd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ea9f5a8a)
0:31:06.654901	LOG	Server <---------- DUT
0:31:06.655933	LOG	Repeated frame. It does not count
0:31:12.991316	LOG	First uplink received. Open reception window.
0:31:13.097543	LOG	PUSH_ACK: 02 d24a 01
0:31:13.099542	LOG	GPS Time from gateway: 1385111730260
0:31:13.100579	LOG	PUSH_DATA: Protocol version = 02, Token = d24a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1889371362, 'time': '2023-11-27T09:15:11.260062Z', 'tmms': 1385111730260, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.0, 'foff': -3153, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA3gIC/14I4+jqiJEhD8M='}]}
0:31:13.102690	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02de, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 91210fc3)
0:31:13.104683	LOG	Server <---------- DUT
0:31:13.105681	LOG	Count = 21
0:31:15.622743	LOG	GPS Time updated: 1385111732891
0:31:15.623743	LOG	PULL_DATA: 02 713b 02 0016c001ff1025bf
0:31:15.625746	LOG	PULL_ACK: 02 713b 04
0:31:16.533075	LOG	First uplink received. Open reception window.
0:31:16.643857	LOG	PUSH_ACK: 02 3179 01
0:31:16.645855	LOG	GPS Time from gateway: 1385111733811
0:31:16.646823	LOG	PUSH_DATA: Protocol version = 02, Token = 3179, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1892922667, 'time': '2023-11-27T09:15:14.811368Z', 'tmms': 1385111733811, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.5, 'foff': -3149, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA3gIC/14I4+jqiJEhD8M='}]}
0:31:16.648826	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02de, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 91210fc3)
0:31:16.649826	LOG	Server <---------- DUT
0:31:16.651862	LOG	Repeated frame. It does not count
0:31:22.981531	LOG	First uplink received. Open reception window.
0:31:23.086792	LOG	PUSH_ACK: 02 6da1 01
0:31:23.089026	LOG	GPS Time from gateway: 1385111740259
0:31:23.090684	LOG	PUSH_DATA: Protocol version = 02, Token = 6da1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1899370850, 'time': '2023-11-27T09:15:21.259550Z', 'tmms': 1385111740259, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.5, 'foff': -3158, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA3wIC2K2EiBfUJcfIz9U='}]}
0:31:23.092303	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02df, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c7c8cfd5)
0:31:23.093987	LOG	Server <---------- DUT
0:31:23.095591	LOG	Count = 22
0:31:25.712515	LOG	GPS Time updated: 1385111742991
0:31:25.713549	LOG	PULL_DATA: 02 6e1f 02 0016c001ff1025bf
0:31:25.715515	LOG	PULL_ACK: 02 6e1f 04
0:31:26.537186	LOG	First uplink received. Open reception window.
0:31:26.646878	LOG	PUSH_ACK: 02 40e8 01
0:31:26.648919	LOG	GPS Time from gateway: 1385111743810
0:31:26.649882	LOG	PUSH_DATA: Protocol version = 02, Token = 40e8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1902921924, 'time': '2023-11-27T09:15:24.810623Z', 'tmms': 1385111743810, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.0, 'foff': -3155, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA3wIC2K2EiBfUJcfIz9U='}]}
0:31:26.651889	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02df, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c7c8cfd5)

0:31:26.652889	LOG	Server <---------- DUT
0:31:26.654887	LOG	Repeated frame. It does not count
0:31:32.983359	LOG	First uplink received. Open reception window.
0:31:33.095501	LOG	PUSH_ACK: 02 2173 01
0:31:33.097470	LOG	GPS Time from gateway: 1385111750259
0:31:33.098469	LOG	PUSH_DATA: Protocol version = 02, Token = 2173, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1909370335, 'time': '2023-11-27T09:15:31.259033Z', 'tmms': 1385111750259, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.2, 'foff': -3159, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA4AICubvGm+mppbdoTZo='}]}
0:31:33.100503	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02e0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b7684d9a)
0:31:33.101614	LOG	Server <---------- DUT
0:31:33.103580	LOG	Count = 23
0:31:35.792086	LOG	GPS Time updated: 1385111753068
0:31:35.794052	LOG	PULL_DATA: 02 a68c 02 0016c001ff1025bf
0:31:35.795054	LOG	PULL_ACK: 02 a68c 04
0:31:36.533416	LOG	First uplink received. Open reception window.
0:31:36.643771	LOG	PUSH_ACK: 02 0fd4 01
0:31:36.645772	LOG	GPS Time from gateway: 1385111753810
0:31:36.646773	LOG	PUSH_DATA: Protocol version = 02, Token = 0fd4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1912921270, 'time': '2023-11-27T09:15:34.809967Z', 'tmms': 1385111753810, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.5, 'foff': -3157, 'rssi': -49, 'size': 20, 'data': 'QAAAAADA4AICubvGm+mppbdoTZo='}]}
0:31:36.648738	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02e0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b7684d9a)
0:31:36.649738	LOG	Server <---------- DUT
0:31:36.651744	LOG	Repeated frame. It does not count
0:31:42.981572	LOG	First uplink received. Open reception window.
0:31:43.085933	LOG	PUSH_ACK: 02 2ff2 01
0:31:43.087938	LOG	GPS Time from gateway: 1385111760258
0:31:43.089941	LOG	PUSH_DATA: Protocol version = 02, Token = 2ff2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1919369839, 'time': '2023-11-27T09:15:41.258535Z', 'tmms': 1385111760258, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.2, 'foff': -3161, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA4QICbzKWpBI+kil60bM='}]}
0:31:43.090939	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02e1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 297ad1b3)
0:31:43.092971	LOG	Server <---------- DUT
0:31:43.093938	LOG	Count = 24
0:31:45.872320	LOG	GPS Time updated: 1385111763149
0:31:45.874289	LOG	PULL_DATA: 02 1141 02 0016c001ff1025bf
0:31:45.875288	LOG	PULL_ACK: 02 1141 04
0:31:46.533647	LOG	First uplink received. Open reception window.
0:31:46.634303	LOG	PUSH_ACK: 02 df38 01
0:31:46.636304	LOG	GPS Time from gateway: 1385111763809
0:31:46.638272	LOG	PUSH_DATA: Protocol version = 02, Token = df38, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1922920467, 'time': '2023-11-27T09:15:44.809161Z', 'tmms': 1385111763809, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3153, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA4QICbzKWpBI+kil60bM='}]}
0:31:46.639271	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02e1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 297ad1b3)
0:31:46.640271	LOG	Server <---------- DUT
0:31:46.642299	LOG	Repeated frame. It does not count

0:31:52.986215	LOG	First uplink received. Open reception window.
0:31:53.097591	LOG	PUSH_ACK: 02 7618 01
0:31:53.099791	LOG	GPS Time from gateway: 1385111770258
0:31:53.101444	LOG	PUSH_DATA: Protocol version = 02, Token = 7618, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1929369337, 'time': '2023-11-27T09:15:51.258031Z', 'tmms': 1385111770258, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 8.8, 'foff': -3160, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA4gICh5/J1RLYc1gdDVo='}]}
0:31:53.103047	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02e2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 581d0d5a)
0:31:53.104404	LOG	Server <---------- DUT
0:31:53.106057	LOG	Count = 25
0:31:55.952305	LOG	GPS Time updated: 1385111773225
0:31:55.954305	LOG	PULL_DATA: 02 6977 02 0016c001ff1025bf
0:31:55.955306	LOG	PULL_ACK: 02 6977 04
0:31:56.536658	LOG	First uplink received. Open reception window.
0:31:56.645609	LOG	PUSH_ACK: 02 293b 01
0:31:56.647610	LOG	GPS Time from gateway: 1385111773809
0:31:56.649615	LOG	PUSH_DATA: Protocol version = 02, Token = 293b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1932920486, 'time': '2023-11-27T09:15:54.809178Z', 'tmms': 1385111773809, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3158, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA4gICh5/J1RLYc1gdDVo='}]}
0:31:56.650614	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02e2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 581d0d5a)
0:31:56.651614	LOG	Server <---------- DUT
0:31:56.653647	LOG	Repeated frame. It does not count
0:32:02.983167	LOG	First uplink received. Open reception window.
0:32:03.092593	LOG	PUSH_ACK: 02 c29a 01
0:32:03.095603	LOG	GPS Time from gateway: 1385111780257
0:32:03.097705	LOG	PUSH_DATA: Protocol version = 02, Token = c29a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1939368819, 'time': '2023-11-27T09:16:01.257511Z', 'tmms': 1385111780257, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.0, 'foff': -3163, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA4wIC7jzjXeS2VSohE9A='}]}
0:32:03.099286	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02e3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2a2113d0)
0:32:03.100855	LOG	Server <---------- DUT
0:32:03.102956	LOG	Count = 26
0:32:06.032134	LOG	GPS Time updated: 1385111783306
0:32:06.034133	LOG	PULL_DATA: 02 77f3 02 0016c001ff1025bf
0:32:06.035136	LOG	PULL_ACK: 02 77f3 04
0:32:06.536793	LOG	First uplink received. Open reception window.
0:32:06.643626	LOG	PUSH_ACK: 02 13e4 01
0:32:06.645588	LOG	GPS Time from gateway: 1385111783808
0:32:06.646592	LOG	PUSH_DATA: Protocol version = 02, Token = 13e4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1942919478, 'time': '2023-11-27T09:16:04.808170Z', 'tmms': 1385111783808, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.5, 'foff': -3156, 'rssi': -49, 'size': 20, 'data': 'QAAAAADA4wIC7jzjXeS2VSohE9A='}]}
0:32:06.648590	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02e3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2a2113d0)
0:32:06.649595	LOG	Server <---------- DUT
0:32:06.651595	LOG	Repeated frame. It does not count
0:32:12.983190	LOG	First uplink received. Open reception window.
0:32:13.097680	LOG	PUSH_ACK: 02 03d5 01

0:32:13.099816	LOG	GPS Time from gateway: 1385111790257
0:32:13.101427	LOG	PUSH_DATA: Protocol version = 02, Token = 03d5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1949368320, 'time': '2023-11-27T09:16:11.257010Z', 'tmms': 1385111790257, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3158, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA5AICoUB6Hmp/Xk2VLds='}]}
0:32:13.103214	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02e4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4d952ddb)
0:32:13.104285	LOG	Server <---------- DUT
0:32:13.106473	LOG	Count = 27
0:32:16.112365	LOG	GPS Time updated: 1385111793387
0:32:16.114330	LOG	PULL_DATA: 02 6925 02 0016c001ff1025bf
0:32:16.115329	LOG	PULL_ACK: 02 6925 04
0:32:16.555305	LOG	First uplink received. Open reception window.
0:32:16.661533	LOG	PUSH_ACK: 02 4810 01
0:32:16.663501	LOG	GPS Time from gateway: 1385111793835
0:32:16.664673	LOG	PUSH_DATA: Protocol version = 02, Token = 4810, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1952946787, 'time': '2023-11-27T09:16:14.835477Z', 'tmms': 1385111793835, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3155, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA5AICoUB6Hmp/Xk2VLds='}]}
0:32:16.666639	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02e4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4d952ddb)
0:32:16.667639	LOG	Server <---------- DUT
0:32:16.669640	LOG	Repeated frame. It does not count
0:32:22.989360	LOG	First uplink received. Open reception window.
0:32:23.105091	LOG	PUSH_ACK: 02 b157 01
0:32:23.107384	LOG	GPS Time from gateway: 1385111800256
0:32:23.109066	LOG	PUSH_DATA: Protocol version = 02, Token = b157, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1959367804, 'time': '2023-11-27T09:16:21.256491Z', 'tmms': 1385111800256, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3158, 'rssi': -49, 'size': 20, 'data': 'QAAAAADA5QICIQaPPNd/Z945ICk='}]}
0:32:23.110710	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02e5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: de392029)
0:32:23.112365	LOG	Server <---------- DUT
0:32:23.114017	LOG	Count = 28
0:32:26.192595	LOG	GPS Time updated: 1385111803468
0:32:26.193596	LOG	PULL_DATA: 02 e47f 02 0016c001ff1025bf
0:32:26.195597	LOG	PULL_ACK: 02 e47f 04
0:32:26.526127	LOG	First uplink received. Open reception window.
0:32:26.634083	LOG	PUSH_ACK: 02 5c13 01
0:32:26.636052	LOG	GPS Time from gateway: 1385111803807
0:32:26.637084	LOG	PUSH_DATA: Protocol version = 02, Token = 5c13, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1962918608, 'time': '2023-11-27T09:16:24.807296Z', 'tmms': 1385111803807, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.5, 'foff': -3156, 'rssi': -49, 'size': 20, 'data': 'QAAAAADA5QICIQaPPNd/Z945ICk='}]}
0:32:26.639051	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02e5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: de392029)
0:32:26.640051	LOG	Server <---------- DUT
0:32:26.642051	LOG	Repeated frame. It does not count
0:32:32.978684	LOG	First uplink received. Open reception window.
0:32:33.084631	LOG	PUSH_ACK: 02 716e 01
0:32:33.086795	LOG	GPS Time from gateway: 1385111810256

0:32:33.088423	LOG	PUSH_DATA: Protocol version = 02, Token = 716e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1969367301, 'time': '2023-11-27T09:16:31.255988Z', 'tmms': 1385111810256, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3166, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA5gIC0ohRssyiRAILk6g='}]}
0:32:33.089532	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02e6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 020b93a8)
0:32:33.090637	LOG	Server <---------- DUT
0:32:33.092643	LOG	Count = 29
0:32:36.272643	LOG	GPS Time updated: 1385111813550
0:32:36.273642	LOG	PULL_DATA: 02 5451 02 0016c001ff1025bf
0:32:36.275768	LOG	PULL_ACK: 02 5451 04
0:32:36.534871	LOG	First uplink received. Open reception window.
0:32:36.642275	LOG	PUSH_ACK: 02 a6ca 01
0:32:36.644275	LOG	GPS Time from gateway: 1385111813807
0:32:36.645277	LOG	PUSH_DATA: Protocol version = 02, Token = a6ca, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1972918518, 'time': '2023-11-27T09:16:34.807204Z', 'tmms': 1385111813807, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.2, 'foff': -3159, 'rssi': -49, 'size': 20, 'data': 'QAAAAADA5gIC0ohRssyiRAILk6g='}]}
0:32:36.647242	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02e6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 020b93a8)
0:32:36.648241	LOG	Server <---------- DUT
0:32:36.650245	LOG	Repeated frame. It does not count
0:32:42.980477	LOG	First uplink received. Open reception window.
0:32:43.084672	LOG	PUSH_ACK: 02 4192 01
0:32:43.087388	LOG	GPS Time from gateway: 1385111820255
0:32:43.089592	LOG	PUSH_DATA: Protocol version = 02, Token = 4192, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1979366796, 'time': '2023-11-27T09:16:41.255481Z', 'tmms': 1385111820255, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3163, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA5wIC2aXx1zPbPywNSco='}]}
0:32:43.091173	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02e7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2c0d49ca)
0:32:43.093330	LOG	Server <---------- DUT
0:32:43.095482	LOG	Count = 30
0:32:46.352389	LOG	GPS Time updated: 1385111823627
0:32:46.354406	LOG	PULL_DATA: 02 4b03 02 0016c001ff1025bf
0:32:46.355391	LOG	PULL_ACK: 02 4b03 04
0:32:46.526004	LOG	First uplink received. Open reception window.
0:32:46.642132	LOG	PUSH_ACK: 02 2cc2 01
0:32:46.644102	LOG	GPS Time from gateway: 1385111823806
0:32:46.645101	LOG	PUSH_DATA: Protocol version = 02, Token = 2cc2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1982917287, 'time': '2023-11-27T09:16:44.805971Z', 'tmms': 1385111823806, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3155, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA5wIC2aXx1zPbPywNSco='}]}
0:32:46.647099	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02e7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2c0d49ca)
0:32:46.648100	LOG	Server <---------- DUT
0:32:46.650104	LOG	Repeated frame. It does not count
0:32:52.976845	LOG	First uplink received. Open reception window.
0:32:53.092068	LOG	PUSH_ACK: 02 f740 01
0:32:53.094223	LOG	GPS Time from gateway: 1385111830255
0:32:53.096356	LOG	PUSH_DATA: Protocol version = 02, Token = f740, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1989366280, 'time': '2023-11-27T09:16:51.254963Z',

		'tmms': 1385111830255, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.8, 'foff': -3158, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA6AIChy2umOf3MsFA5tw='}]}
0:32:53.098174	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02e8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c140e6dc)
0:32:53.099941	LOG	Server <---------- DUT
0:32:53.103015	LOG	Count = 31
0:32:56.431854	LOG	GPS Time updated: 1385111833710
0:32:56.434359	LOG	PULL_DATA: 02 a68b 02 0016c001ff1025bf
0:32:56.435652	LOG	PULL_ACK: 02 a68b 04
0:32:56.530253	LOG	First uplink received. Open reception window.
0:32:56.638133	LOG	PUSH_ACK: 02 c1aa 01
0:32:56.640134	LOG	GPS Time from gateway: 1385111833805
0:32:56.642154	LOG	PUSH_DATA: Protocol version = 02, Token = c1aa, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1992916849, 'time': '2023-11-27T09:16:54.805530Z', 'tmms': 1385111833805, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.5, 'foff': -3152, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA6AIChy2umOf3MsFA5tw='}]}
0:32:56.644167	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02e8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c140e6dc)
0:32:56.645169	LOG	Server <---------- DUT
0:32:56.647168	LOG	Repeated frame. It does not count
0:33:02.979749	LOG	First uplink received. Open reception window.
0:33:03.093267	LOG	PUSH_ACK: 02 602b 01
0:33:03.095433	LOG	GPS Time from gateway: 1385111840254
0:33:03.097661	LOG	PUSH_DATA: Protocol version = 02, Token = 602b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1999365784, 'time': '2023-11-27T09:17:01.254465Z', 'tmms': 1385111840254, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.8, 'foff': -3156, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA6QIC+Q0JebNrjnZ48Vs='}]}
0:33:03.099465	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02e9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7678f15b)
0:33:03.101032	LOG	Server <---------- DUT
0:33:03.104071	LOG	Count = 32
0:33:06.512417	LOG	GPS Time updated: 1385111843787
0:33:06.514385	LOG	PULL_DATA: 02 cfa9 02 0016c001ff1025bf
0:33:06.516400	LOG	PULL_ACK: 02 cfa9 04
0:33:06.530836	LOG	First uplink received. Open reception window.
0:33:06.641003	LOG	PUSH_ACK: 02 3b80 01
0:33:06.642471	LOG	GPS Time from gateway: 1385111843805
0:33:06.644477	LOG	PUSH_DATA: Protocol version = 02, Token = 3b80, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2002916528, 'time': '2023-11-27T09:17:04.805207Z', 'tmms': 1385111843805, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.5, 'foff': -3149, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA6QIC+Q0JebNrjnZ48Vs='}]}
0:33:06.646476	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02e9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7678f15b)
0:33:06.647475	LOG	Server <---------- DUT
0:33:06.649544	LOG	Repeated frame. It does not count
0:33:12.981509	LOG	First uplink received. Open reception window.
0:33:13.091365	LOG	PUSH_ACK: 02 ff5d 01
0:33:13.093504	LOG	GPS Time from gateway: 1385111850254
0:33:13.095018	LOG	PUSH_DATA: Protocol version = 02, Token = ff5d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2009365295, 'time': '2023-11-27T09:17:11.253973Z', 'tmms': 1385111850254, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 2, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.0, 'foff': -3156, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA6gICkuTAVick732nTp0='}]}
0:33:13.096746	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02ea, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7da74e9d)
0:33:13.098283	LOG	Server <---------- DUT
0:33:13.101508	LOG	Count = 33
0:33:16.592274	LOG	GPS Time updated: 1385111853865
0:33:16.594272	LOG	PULL_DATA: 02 3271 02 0016c001ff1025bf
0:33:16.595865	LOG	PULL_ACK: 02 3271 04
0:33:17.980106	LOG	First uplink received. Open reception window.
0:33:18.094995	LOG	PUSH_ACK: 02 cb86 01
0:33:18.096988	LOG	GPS Time from gateway: 1385111855253
0:33:18.097996	LOG	PUSH_DATA: Protocol version = 02, Token = cb86, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2014365016, 'time': '2023-11-27T09:17:16.253693Z', 'tmms': 1385111855253, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.0, 'foff': -3159, 'rssi': -51, 'size': 20, 'data': 'QAAAAADA6wICUSW92T3t5RSwHDk='}]}
0:33:18.099960	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02eb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 14b01c39)
0:33:18.100959	LOG	Server <---------- DUT
0:33:18.103472	LOG	Count = 34
0:33:18.104468	LOG	Checked last FCnt Up. Last retransmission received inside bounds
0:33:18.121474	LOG	Expected number of uplink messages have been received
0:33:18.125504	LOG	Step 11
0:33:18.128537	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:33:22.980158	LOG	First uplink received. Open reception window.
0:33:23.086931	LOG	PUSH_ACK: 02 c271 01
0:33:23.088607	LOG	GPS Time from gateway: 1385111860253
0:33:23.090384	LOG	PUSH_DATA: Protocol version = 02, Token = c271, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2019364778, 'time': '2023-11-27T09:17:21.253454Z', 'tmms': 1385111860253, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.0, 'foff': -3160, 'rssi': -51, 'size': 20, 'data': 'QAAAAADA7AICyG/1wtAhLWyrEvk='}]}
0:33:23.091440	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02ec, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6cab12f9)
0:33:23.093242	LOG	Server <---------- DUT
0:33:23.095776	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:33:23.099077	LOG	ADRACKReq bit is activated
0:33:23.101139	LOG	ADRACKReq bit from DUT tested successfully
0:33:23.104920	LOG	Check previous uplink data rate process starts
0:33:23.113729	LOG	Uplink received with expected Data Rate
0:33:23.118564	LOG	Check number of uplinks repetitions process starts
0:33:26.672298	LOG	GPS Time updated: 1385111863945
0:33:26.674266	LOG	PULL_DATA: 02 502b 02 0016c001ff1025bf
0:33:26.676267	LOG	PULL_ACK: 02 502b 04
0:33:28.125709	LOG	First uplink received. Open reception window.
0:33:28.227956	LOG	PUSH_ACK: 02 8191 01
0:33:28.229956	LOG	GPS Time from gateway: 1385111865398
0:33:28.230934	LOG	PUSH_DATA: Protocol version = 02, Token = 8191, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2024509850, 'time': '2023-11-27T09:17:26.398525Z', 'tmms': 1385111865398, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.0, 'foff': -3160, 'rssi': -51, 'size': 20, 'data': 'QAAAAADA7QIC3XvczOriYIwnpDc='}]}
0:33:28.232923	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02ed, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8c27a437)
0:33:28.233928	LOG	Server <---------- DUT

0:33:28.236932	LOG	Expected repetitions of uplink message have been received
0:33:28.239924	LOG	Check number of uplinks repetitions process starts
0:33:32.975694	LOG	Multiple frames received. Selecting the correct frame...
0:33:32.977695	LOG	Frame selected: {'jver': 1, 'tmst': 2029364259, 'time': '2023-11-27T09:17:31.252933Z', 'tmms': 1385111870253, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.5, 'foff': -3157, 'rssi': -51, 'size': 20, 'data': 'QAAAAADA7gIC/aB6ikzBVCP604E='}
0:33:32.979664	LOG	First uplink received. Open reception window.
0:33:33.093017	LOG	PUSH_ACK: 02 bdcc 01
0:33:33.095168	LOG	GPS Time from gateway: 1385111870253
0:33:33.096296	LOG	PUSH_DATA: Protocol version = 02, Token = bdcc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2029364259, 'time': '2023-11-27T09:17:31.252933Z', 'tmms': 1385111870253, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.5, 'foff': -3157, 'rssi': -51, 'size': 20, 'data': 'QAAAAADA7gIC/aB6ikzBVCP604E='}, {'jver': 1, 'tmst': 2029364259, 'time': '2023-11-27T09:17:31.252933Z', 'tmms': 1385111870253, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.0, 'foff': -3156, 'rssi': -114, 'size': 20, 'data': 'QAAAAADA7gIC/aB6ikzBVCP604E='}]}
0:33:33.097877	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02ee, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 23fad381)
0:33:33.099529	LOG	Server <---------- DUT
0:33:33.102293	LOG	Expected repetitions of uplink message have been received
0:33:33.106698	LOG	Step 12
0:33:33.111791	LOG	Receive frame on specific channels process starts
0:33:33.126404	LOG	Attempt 1/20
0:33:36.752990	LOG	GPS Time updated: 1385111874026
0:33:36.753989	LOG	PULL_DATA: 02 95e9 02 0016c001ff1025bf
0:33:36.755989	LOG	PULL_ACK: 02 95e9 04
0:33:37.980910	LOG	First uplink received. Open reception window.
0:33:38.085307	LOG	PUSH_ACK: 02 2934 01
0:33:38.087276	LOG	GPS Time from gateway: 1385111875252
0:33:38.088280	LOG	PUSH_DATA: Protocol version = 02, Token = 2934, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2034364010, 'time': '2023-11-27T09:17:36.252685Z', 'tmms': 1385111875252, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.0, 'foff': -3153, 'rssi': -51, 'size': 20, 'data': 'QAAAAADA7wICZY+08IR7nTxWgxs='}]}
0:33:38.090295	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02ef, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3c56831b)
0:33:38.091280	LOG	Server <---------- DUT
0:33:38.093281	LOG	Attempt 2/20
0:33:42.979064	LOG	Multiple frames received. Selecting the correct frame...
0:33:42.980062	LOG	Frame selected: {'jver': 1, 'tmst': 2039363751, 'time': '2023-11-27T09:17:41.252425Z', 'tmms': 1385111880252, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.2, 'foff': -3153, 'rssi': -51, 'size': 20, 'data': 'QAAAAADA8AIC7pLm8qWWRj995y8='}
0:33:42.982062	LOG	First uplink received. Open reception window.
0:33:43.089728	LOG	PUSH_ACK: 02 de78 01
0:33:43.091238	LOG	GPS Time from gateway: 1385111880252
0:33:43.092238	LOG	PUSH_DATA: Protocol version = 02, Token = de78, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2039363751, 'time': '2023-11-27T09:17:41.252425Z', 'tmms': 1385111880252, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.2, 'foff': -3153, 'rssi': -51, 'size': 20, 'data': 'QAAAAADA8AIC7pLm8qWWRj995y8='}, {'jver': 1, 'tmst': 2039363751, 'time': '2023-11-27T09:17:41.252425Z', 'tmms': 1385111880252,

		'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -126, 'lsnr': -13.8, 'foff': -3152, 'rssi': -114, 'size': 20, 'data': 'QAAAAADA8AIC7pLm8qWWRj995y8='}]}
0:33:43.094833	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02f0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3f7de72f)
0:33:43.096841	LOG	Server <---------- DUT
0:33:43.097839	LOG	Attempt 3/20
0:33:46.832446	LOG	GPS Time updated: 1385111884102
0:33:46.834428	LOG	PULL_DATA: 02 16ad 02 0016c001ff1025bf
0:33:46.835420	LOG	PULL_ACK: 02 16ad 04
0:33:47.978484	LOG	First uplink received. Open reception window.
0:33:48.085164	LOG	PUSH_ACK: 02 2151 01
0:33:48.087198	LOG	GPS Time from gateway: 1385111885252
0:33:48.088203	LOG	PUSH_DATA: Protocol version = 02, Token = 2151, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2044363497, 'time': '2023-11-27T09:17:46.252170Z', 'tmms': 1385111885252, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.5, 'foff': -3149, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA8QIC6Gc9i9VTNjWJxDA='}]}
0:33:48.090215	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02f1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3589c430)
0:33:48.091201	LOG	Server <---------- DUT
0:33:48.093204	LOG	Attempt 4/20
0:33:52.972513	LOG	Multiple frames received. Selecting the correct frame...
0:33:52.974513	LOG	Frame selected: {'jver': 1, 'tmst': 2049363286, 'time': '2023-11-27T09:17:51.251958Z', 'tmms': 1385111890252, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.8, 'foff': -3153, 'rssi': -51, 'size': 20, 'data': 'QAAAAADA8gICzO5JmKzi6l0RRws='}
0:33:52.976135	LOG	First uplink received. Open reception window.
0:33:53.084595	LOG	PUSH_ACK: 02 2e21 01
0:33:53.086628	LOG	GPS Time from gateway: 1385111890252
0:33:53.087637	LOG	PUSH_DATA: Protocol version = 02, Token = 2e21, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2049363286, 'time': '2023-11-27T09:17:51.251958Z', 'tmms': 1385111890252, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.8, 'foff': -3153, 'rssi': -51, 'size': 20, 'data': 'QAAAAADA8gICzO5JmKzi6l0RRws='}, {'jver': 1, 'tmst': 2049363287, 'time': '2023-11-27T09:17:51.251959Z', 'tmms': 1385111890252, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.0, 'foff': -3152, 'rssi': -113, 'size': 20, 'data': 'QAAAAADA8gICzO5JmKzi6l0RRws='}]}
0:33:53.088630	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02f2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5d11470b)
0:33:53.091139	LOG	Server <---------- DUT
0:33:53.092175	LOG	Attempt 5/20
0:33:56.912348	LOG	GPS Time updated: 1385111894188
0:33:56.913345	LOG	PULL_DATA: 02 702d 02 0016c001ff1025bf
0:33:56.915887	LOG	PULL_ACK: 02 702d 04
0:33:57.977361	LOG	First uplink received. Open reception window.
0:33:58.093362	LOG	PUSH_ACK: 02 7ea2 01
0:33:58.095329	LOG	GPS Time from gateway: 1385111895251
0:33:58.096330	LOG	PUSH_DATA: Protocol version = 02, Token = 7ea2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2054363020, 'time': '2023-11-27T09:17:56.251691Z', 'tmms': 1385111895251, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.0, 'foff': -3152, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA8wICnNzw49cKn7C/Q2g='}]}

0:33:58.098332	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02f3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b0bf4368)
0:33:58.099329	LOG	Server <---------- DUT
0:33:58.101346	LOG	Attempt 6/20
0:34:02.980466	LOG	First uplink received. Open reception window.
0:34:03.084459	LOG	PUSH_ACK: 02 9e49 01
0:34:03.086457	LOG	GPS Time from gateway: 1385111900251
0:34:03.088142	LOG	PUSH_DATA: Protocol version = 02, Token = 9e49, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2059362773, 'time': '2023-11-27T09:18:01.251443Z', 'tmms': 1385111900251, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.0, 'foff': -3151, 'rssi': -51, 'size': 20, 'data': 'QAAAAADA9AICqc6AyNCy3ThO9iA='}]}
0:34:03.089737	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02f4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 384ef620)
0:34:03.091452	LOG	Server <---------- DUT
0:34:03.096282	LOG	Receive frame on specific channels process tested successfully
0:34:03.100607	LOG	Step 13-14
0:34:03.104952	LOG	Send LinkADRReq process starts
0:34:07.002986	LOG	GPS Time updated: 1385111904273
0:34:07.003986	LOG	PULL_DATA: 02 2860 02 0016c001ff1025bf
0:34:07.006004	LOG	PULL_ACK: 02 2860 04
0:34:07.973705	LOG	First uplink received. Open reception window.
0:34:08.079139	LOG	PUSH_ACK: 02 bb78 01
0:34:08.081142	LOG	GPS Time from gateway: 1385111905251
0:34:08.082107	LOG	PUSH_DATA: Protocol version = 02, Token = bb78, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2064362528, 'time': '2023-11-27T09:18:06.251197Z', 'tmms': 1385111905251, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.8, 'foff': -3147, 'rssi': -50, 'size': 20, 'data': 'QAAAAADA9QICYXrY9ZIt0oL+Qi0='}]}
0:34:08.084105	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 02f5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 82fe422d)
0:34:08.085105	LOG	Server <---------- DUT
0:34:08.087111	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0169, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: 67d50e91)
0:34:08.089110	LOG	PULL_RESP: Protocol version = 02, Token = ddea, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2066362528, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAaQEAHriMrjpn1Q6R'}}
0:34:08.090143	LOG	Server ----------> DUT
0:34:08.094144	LOG	TX_ACK: 02 ddea 05 0016c001ff1025bf
0:34:11.698690	LOG	First uplink received. Open reception window.
0:34:11.810812	LOG	PUSH_ACK: 02 0948 01
0:34:11.812778	LOG	GPS Time from gateway: 1385111908989
0:34:11.813781	LOG	PUSH_DATA: Protocol version = 02, Token = 0948, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2068100291, 'time': '2023-11-27T09:18:09.988958Z', 'tmms': 1385111908989, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3168, 'rssi': -51, 'size': 22, 'data': 'QAAAAACC9gIDBwLyhplNNQ4t1dxHkQ=='}]}
0:34:11.815812	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 02f6, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: d5dc4791)
0:34:11.816813	LOG	Server <---------- DUT
0:34:11.818821	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:34:11.819816	LOG	Command Answer: 0307
0:34:11.828361	LOG	MAC command communication completed
0:34:11.831357	LOG	Check previous uplink data rate process starts

0:34:11.836399	LOG	Uplink received with expected Data Rate
0:34:11.839430	LOG	ADRACKReq bit is disabled
0:34:11.841427	LOG	ADRACKReq bit from DUT tested successfully
0:34:11.845552	LOG	Step 14
0:34:11.847959	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:34:16.698488	LOG	First uplink received. Open reception window.
0:34:16.813395	LOG	PUSH_ACK: 02 089e 01
0:34:16.815395	LOG	GPS Time from gateway: 1385111913988
0:34:16.816397	LOG	PUSH_DATA: Protocol version = 02, Token = 089e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2073099930, 'time': '2023-11-27T09:18:14.988598Z', 'tmms': 1385111913988, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3160, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA9wICMJlHzSDkR/g4A4M='}]}
0:34:16.817397	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 02f7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f8380383)
0:34:16.819397	LOG	Server <---------- DUT
0:34:16.820396	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 016a, FOpts:), FPort: e0, FRMPayload: 0501), MIC: a875079a)
0:34:16.821901	LOG	Frame command sent to the DUT
0:34:16.823905	LOG	PULL_RESP: Protocol version = 02, Token = 51e6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2075099930, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAagHgcv6odQea'}}
0:34:16.824905	LOG	Server ----------> DUT
0:34:16.827908	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:34:16.832939	LOG	Step 15
0:34:16.836908	LOG	Send NewChannelReq process starts
0:34:17.033049	LOG	GPS Time updated: 1385111914323
0:34:17.034626	LOG	PULL_DATA: 02 3296 02 0016c001ff1025bf
0:34:17.035659	LOG	PULL_ACK: 02 3296 04
0:34:21.699727	LOG	First uplink received. Open reception window.
0:34:21.813939	LOG	PUSH_ACK: 02 2a5b 01
0:34:21.815526	LOG	GPS Time from gateway: 1385111918988
0:34:21.817565	LOG	PUSH_DATA: Protocol version = 02, Token = 2a5b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2078099676, 'time': '2023-11-27T09:18:19.988343Z', 'tmms': 1385111918988, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3168, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA+AIC+fbmuYYLVWDsIrw='}]}
0:34:21.818567	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 02f8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 60ec22bc)
0:34:21.819565	LOG	Server <---------- DUT
0:34:21.821565	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 016b, FOpts:), FPort: 00, FRMPayload: 070300000050), MIC: b0a1e7f8)
0:34:21.823690	LOG	PULL_RESP: Protocol version = 02, Token = add9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2080099676, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YAAAAAAAawEA5R+ZsHEysKHn+A=='}}
0:34:21.825689	LOG	Server ----------> DUT
0:34:21.828691	LOG	TX_ACK: 02 add9 05 0016c001ff1025bf
0:34:26.700799	LOG	First uplink received. Open reception window.
0:34:26.811462	LOG	PUSH_ACK: 02 ca42 01
0:34:26.813496	LOG	GPS Time from gateway: 1385111923988
0:34:26.814509	LOG	PUSH_DATA: Protocol version = 02, Token = ca42, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2083099521, 'time': '2023-11-27T09:18:24.988187Z', 'tmms': 1385111923988, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3171, 'rssi': -51, 'size': 22, 'data': 'QAAAAACC+QIHAwJgKWjuKs7uBvb6PA==']}
0:34:26.816463	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 02f9, FOpts: 0703), FPort: 02, FRMPayload: 00000001020000, MIC: 06f6fa3c)
0:34:26.817466	LOG	Server <---------- DUT
0:34:26.819463	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:34:26.820463	LOG	Command Answer: 0703
0:34:26.826074	LOG	MAC command communication completed
0:34:26.833041	LOG	End Test Step: Data Rate Decay for all devices
0:34:26.837041	LOG	Partial Verdict: PASS
0:34:26.841045	LOG	==========
0:34:26.846045	LOG	==========
0:34:26.848045	LOG	Start Test Step: Data Rate Decay for optional data rates
0:34:26.861200	LOG	Step 01
0:34:26.865169	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:34:27.076258	LOG	GPS Time updated: 1385111924364
0:34:27.078236	LOG	PULL_DATA: 02 46a9 02 0016c001ff1025bf
0:34:27.079236	LOG	PULL_ACK: 02 46a9 04
0:34:31.700893	LOG	#**********CURRENT BEACON SENT**********#
0:34:31.702893	LOG	PULL_RESP: Protocol version = 02, Token = 59f9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385111936000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAIY9S3x0AAAAAAAAAAA='}}
0:34:31.703893	LOG	Server ----------> DUT
0:34:31.705893	LOG	#**********#
0:34:31.714894	LOG	#**********NEXT BEACON QUEUED**********#
0:34:31.716900	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385112064000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAIo9St5kAAAAAAAAAAA='}}
0:34:31.717896	LOG	Server ----------> DUT
0:34:31.718896	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 00228f52, CRC1: b799, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385112064000
0:34:31.720897	LOG	#**********#
0:34:31.721897	LOG	Next BEACON scheduled at GPS time (ms): 1385112192000
0:34:31.723902	LOG	First uplink received. Open reception window.
0:34:31.724896	LOG	TX_ACK: 02 59f9 05 0016c001ff1025bf
0:34:31.828301	LOG	PUSH_ACK: 02 ba5c 01
0:34:31.830310	LOG	GPS Time from gateway: 1385111928987
0:34:31.832302	LOG	PUSH_DATA: Protocol version = 02, Token = ba5c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2088099159, 'time': '2023-11-27T09:18:29.987824Z', 'tmms': 1385111928987, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3168, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA+gIC21E/LFdBqdjuTzg='}]}
0:34:31.833345	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 02fa, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d8ee4f38)
0:34:31.835301	LOG	Server <---------- DUT
0:34:31.836301	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 016c, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 32530bd2)
0:34:31.838304	LOG	Frame command sent to the DUT

0:34:31.839304	LOG	PULL_RESP: Protocol version = 02, Token = 3d48, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2090099159, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAbAHgA8AyUwvS'}}
0:34:31.840305	LOG	Server ----------> DUT
0:34:31.843308	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:34:31.847306	LOG	Step 03
0:34:31.851305	LOG	Send NewChannelReq process starts
0:34:36.693409	LOG	First uplink received. Open reception window.
0:34:36.800387	LOG	PUSH_ACK: 02 56db 01
0:34:36.802352	LOG	GPS Time from gateway: 1385111933987
0:34:36.803352	LOG	PUSH_DATA: Protocol version = 02, Token = 56db, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2093098934, 'time': '2023-11-27T09:18:34.987598Z', 'tmms': 1385111933987, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3179, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA+wICJU9c1YrNZRJCYUU='}]}
0:34:36.805353	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 02fb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 12426145)
0:34:36.806353	LOG	Server <---------- DUT
0:34:36.808359	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 016d, FOpts:), FPort: 00, FRMPayload: 070328768466), MIC: 833f1024)
0:34:36.810359	LOG	PULL_RESP: Protocol version = 02, Token = b274, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2095098934, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YAAAAAAAbQEAzMz/Puxigz8QJA=='}}
0:34:36.811358	LOG	Server ----------> DUT
0:34:36.814392	LOG	GW Message b'{"txpk_ack":{"error":"COLLISION_PACKET"}}'
0:34:36.815391	LOG	Waiting a new Uplink to send the frame again
0:34:37.233109	LOG	GPS Time updated: 1385111934528
0:34:37.234109	LOG	PULL_DATA: 02 ad84 02 0016c001ff1025bf
0:34:37.236112	LOG	PULL_ACK: 02 ad84 04
0:34:41.694903	LOG	First uplink received. Open reception window.
0:34:41.796967	LOG	PUSH_ACK: 02 b27b 01
0:34:41.798969	LOG	GPS Time from gateway: 1385111938987
0:34:41.799972	LOG	PUSH_DATA: Protocol version = 02, Token = b27b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2098098679, 'time': '2023-11-27T09:18:39.987342Z', 'tmms': 1385111938987, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3179, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA/AICCp+LWxJ1nG3t9mA='}]}
0:34:41.801968	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 02fc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6dedf660)
0:34:41.802968	LOG	Server <---------- DUT
0:34:41.803970	LOG	PULL_RESP: Protocol version = 02, Token = b74e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2100098679, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YAAAAAAAbQEAzMz/Puxigz8QJA=='}}
0:34:41.805968	LOG	Server ----------> DUT
0:34:41.807971	LOG	TX_ACK: 02 b74e 05 0016c001ff1025bf
0:34:46.692578	LOG	First uplink received. Open reception window.
0:34:46.804029	LOG	PUSH_ACK: 02 bf50 01
0:34:46.806031	LOG	GPS Time from gateway: 1385111943987
0:34:46.807070	LOG	PUSH_DATA: Protocol version = 02, Token = bf50, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2103098515, 'time': '2023-11-27T09:18:44.987177Z', 'tmms': 1385111943987, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3179, 'rssi': -51, 'size': 22, 'data': 'QAAAAACC/QIHAwKUh9ujz60pV3vBrQ=='}]}

0:34:46.809037	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 02fd, FOpts: 0703), FPort: 02, FRMPayload: 00000001020000, MIC: 577bc1ad)
0:34:46.810068	LOG	Server <---------- DUT
0:34:46.811069	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:34:46.813067	LOG	Command Answer: 0703
0:34:46.818034	LOG	MAC command communication completed
0:34:46.822038	LOG	Step 04
0:34:46.826124	LOG	Send NewChannelReq process starts
0:34:47.262428	LOG	GPS Time updated: 1385111944557
0:34:47.264396	LOG	PULL_DATA: 02 c4e7 02 0016c001ff1025bf
0:34:47.266412	LOG	PULL_ACK: 02 c4e7 04
0:34:51.695517	LOG	First uplink received. Open reception window.
0:34:51.798183	LOG	PUSH_ACK: 02 b17f 01
0:34:51.800151	LOG	GPS Time from gateway: 1385111948986
0:34:51.801151	LOG	PUSH_DATA: Protocol version = 02, Token = b17f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2108098155, 'time': '2023-11-27T09:18:49.986816Z', 'tmms': 1385111948986, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3179, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA/gICrF3ylAG+Fo5SBmM='}]}
0:34:51.803151	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 02fe, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8e520663)
0:34:51.804152	LOG	Server <---------- DUT
0:34:51.806151	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 016e, FOpts:), FPort: 00, FRMPayload: 070428768477), MIC: 2ff21b67)
0:34:51.807156	LOG	PULL_RESP: Protocol version = 02, Token = 79c8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2110098155, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YAAAAAAAbgEAZx/Agk15L/IbZw=='}}
0:34:51.809157	LOG	Server ----------> DUT
0:34:51.812157	LOG	TX_ACK: 02 79c8 05 0016c001ff1025bf
0:34:56.695530	LOG	First uplink received. Open reception window.
0:34:56.804235	LOG	PUSH_ACK: 02 5f3c 01
0:34:56.806237	LOG	GPS Time from gateway: 1385111953986
0:34:56.807242	LOG	PUSH_DATA: Protocol version = 02, Token = 5f3c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2113097999, 'time': '2023-11-27T09:18:54.986658Z', 'tmms': 1385111953986, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3187, 'rssi': -51, 'size': 22, 'data': 'QAAAAACC/wIHAwJVpAi5fHAHXrXbSw=='}]}
0:34:56.809242	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 02ff, FOpts: 0703), FPort: 02, FRMPayload: 00000001020000, MIC: 5eb5db4b)
0:34:56.810241	LOG	Server <---------- DUT
0:34:56.812242	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:34:56.813241	LOG	Command Answer: 0703
0:34:56.818241	LOG	MAC command communication completed
0:34:56.827760	LOG	Step 05-06
0:34:56.832750	LOG	Send LinkADRReq process starts
0:34:57.472951	LOG	GPS Time updated: 1385111954763
0:34:57.474919	LOG	PULL_DATA: 02 bb69 02 0016c001ff1025bf
0:34:57.475918	LOG	PULL_ACK: 02 bb69 04
0:35:01.695812	LOG	First uplink received. Open reception window.
0:35:01.808997	LOG	PUSH_ACK: 02 85c3 01
0:35:01.810963	LOG	GPS Time from gateway: 1385111958986
0:35:01.811962	LOG	PUSH_DATA: Protocol version = 02, Token = 85c3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2118097653, 'time': '2023-11-27T09:18:59.986311Z',

		'tmms': 1385111958986, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3187, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAAAMCssxLwWYp8ustWEs='}]}
0:35:01.813967	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0300, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: eb2d584b)
0:35:01.814966	LOG	Server <---------- DUT
0:35:01.816967	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 016f, FOpts:), FPort: 00, FRMPayload: 0371180001), MIC: f87d1747)
0:35:01.818967	LOG	PULL_RESP: Protocol version = 02, Token = 427d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2120097653, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAbwEAO5NTk9j4fRdH'}}
0:35:01.819966	LOG	Server ----------> DUT
0:35:01.822501	LOG	TX_ACK: 02 427d 05 0016c001ff1025bf
0:35:06.644535	LOG	First uplink received. Open reception window.
0:35:06.760529	LOG	PUSH_ACK: 02 07b7 01
0:35:06.762037	LOG	GPS Time from gateway: 1385111963935
0:35:06.764038	LOG	PUSH_DATA: Protocol version = 02, Token = 07b7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2123046946, 'time': '2023-11-27T09:19:04.935605Z', 'tmms': 1385111963935, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -60, 'size': 22, 'data': 'QAAAAACCAQMDBwJY1yN3iR+QMHUu0w=='}]}
0:35:06.765037	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0301, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 30752ed3)
0:35:06.767037	LOG	Server <---------- DUT
0:35:06.769036	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:35:06.770036	LOG	Command Answer: 0307
0:35:06.777040	LOG	MAC command communication completed
0:35:06.780076	LOG	Check previous uplink data rate process starts
0:35:06.784042	LOG	Uplink received with expected Data Rate
0:35:06.787039	LOG	Sending an EchoPayloadReq CP command to restart the ADRACKCnt in DUT
0:35:06.791040	LOG	Send Test Command EchoPayloadReq process starts
0:35:07.483146	LOG	GPS Time updated: 1385111964774
0:35:07.484147	LOG	PULL_DATA: 02 5932 02 0016c001ff1025bf
0:35:07.486116	LOG	PULL_ACK: 02 5932 04
0:35:11.644700	LOG	First uplink received. Open reception window.
0:35:11.752519	LOG	PUSH_ACK: 02 7459 01
0:35:11.754485	LOG	GPS Time from gateway: 1385111968935
0:35:11.755484	LOG	PUSH_DATA: Protocol version = 02, Token = 7459, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2128046265, 'time': '2023-11-27T09:19:09.934923Z', 'tmms': 1385111968935, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAAgMCY0jl9hBRaQFIngM='}]}
0:35:11.757493	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0302, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 01489e03)
0:35:11.758498	LOG	Server <---------- DUT
0:35:11.760634	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0170, FOpts:), FPort: e0, FRMPayload: 080a0b0c), MIC: 1e5e5be6)
0:35:11.762627	LOG	Frame command sent to the DUT
0:35:11.764131	LOG	PULL_RESP: Protocol version = 02, Token = 8cb2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2130046265, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YAAAAAAAcAHg0KGM7h5eW+Y='}}
0:35:11.765136	LOG	Server ----------> DUT
0:35:11.768137	LOG	TX_ACK: 02 8cb2 05 0016c001ff1025bf

0:35:14.853407	LOG	First uplink received. Open reception window.
0:35:14.968337	LOG	PUSH_ACK: 02 cd2e 01
0:35:14.970343	LOG	GPS Time from gateway: 1385111972147
0:35:14.971344	LOG	PUSH_DATA: Protocol version = 02, Token = cd2e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2131259211, 'time': '2023-11-27T09:19:13.147868Z', 'tmms': 1385111972147, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -66, 'size': 17, 'data': 'QAAAAACAAwPgkjSMu2zVjPE='}]}
0:35:14.973349	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0303, FOpts:), FPort: e0, FRMPayload: 080b0c0d, MIC: 6cd58cf1)
0:35:14.974349	LOG	Server <---------- DUT
0:35:14.976349	LOG	Frame Command Payload in the Answer: 080b0c0d
0:35:14.987861	LOG	Checking if the payload of the EchoPayloadAns is correct
0:35:14.990861	LOG	Send Test Command EchoPayloadReq process completed
0:35:14.997872	LOG	Step 07-08
0:35:15.003875	LOG	Test adaptive data rate control in frame header process starts
0:35:17.642594	LOG	GPS Time updated: 1385111974936
0:35:17.644562	LOG	PULL_DATA: 02 b523 02 0016c001ff1025bf
0:35:17.646564	LOG	PULL_ACK: 02 b523 04
0:35:21.639968	LOG	First uplink received. Open reception window.
0:35:21.753033	LOG	PUSH_ACK: 02 0963 01
0:35:21.754999	LOG	GPS Time from gateway: 1385111978934
0:35:21.756033	LOG	PUSH_DATA: Protocol version = 02, Token = 0963, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2138045746, 'time': '2023-11-27T09:19:19.934402Z', 'tmms': 1385111978934, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACABAMC/dKjRYGUPMSNdpI='}]}
0:35:21.757999	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0304, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c48d7692)
0:35:21.759506	LOG	Server <---------- DUT
0:35:21.761511	LOG	Count = 2
0:35:26.647419	LOG	First uplink received. Open reception window.
0:35:26.756662	LOG	PUSH_ACK: 02 a805 01
0:35:26.758631	LOG	GPS Time from gateway: 1385111983934
0:35:26.759666	LOG	PUSH_DATA: Protocol version = 02, Token = a805, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2143045482, 'time': '2023-11-27T09:19:24.934137Z', 'tmms': 1385111983934, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACABQMCMkn6SVYA8nHHiyY='}]}
0:35:26.761762	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0305, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 71c78b26)
0:35:26.762759	LOG	Server <---------- DUT
0:35:26.764763	LOG	Count = 3
0:35:27.723050	LOG	GPS Time updated: 1385111985010
0:35:27.724019	LOG	PULL_DATA: 02 805a 02 0016c001ff1025bf
0:35:27.726019	LOG	PULL_ACK: 02 805a 04
0:35:31.641925	LOG	First uplink received. Open reception window.
0:35:31.749129	LOG	PUSH_ACK: 02 8040 01
0:35:31.751097	LOG	GPS Time from gateway: 1385111988933
0:35:31.752096	LOG	PUSH_DATA: Protocol version = 02, Token = 8040, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2148045228, 'time': '2023-11-27T09:19:29.933882Z', 'tmms': 1385111988933, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACABgMC8RzQzpiF8vATvqk='}]}
0:35:31.754102	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0306, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f013bea9)

0:35:31.756108	LOG	Server <---------- DUT
0:35:31.758107	LOG	Count = 4
0:35:36.639956	LOG	First uplink received. Open reception window.
0:35:36.743954	LOG	PUSH_ACK: 02 aa45 01
0:35:36.746027	LOG	GPS Time from gateway: 1385111993933
0:35:36.747025	LOG	PUSH_DATA: Protocol version = 02, Token = aa45, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2153044979, 'time': '2023-11-27T09:19:34.933632Z', 'tmms': 1385111993933, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACABwMCaUdRIylq1/j4OdM='}]}
0:35:36.748995	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0307, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f8f839d3)
0:35:36.750000	LOG	Server <---------- DUT
0:35:36.752041	LOG	Count = 5
0:35:37.822839	LOG	GPS Time updated: 1385111995117
0:35:37.824845	LOG	PULL_DATA: 02 275b 02 0016c001ff1025bf
0:35:37.826846	LOG	PULL_ACK: 02 275b 04
0:35:41.646826	LOG	First uplink received. Open reception window.
0:35:41.748051	LOG	PUSH_ACK: 02 9880 01
0:35:41.750020	LOG	GPS Time from gateway: 1385111998933
0:35:41.751019	LOG	PUSH_DATA: Protocol version = 02, Token = 9880, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2158044718, 'time': '2023-11-27T09:19:39.933369Z', 'tmms': 1385111998933, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACACAMCMw/0kCdEeApgigg='}]}
0:35:41.753026	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0308, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0a608a08)
0:35:41.754030	LOG	Server <---------- DUT
0:35:41.756063	LOG	Count = 6
0:35:46.642257	LOG	First uplink received. Open reception window.
0:35:46.757704	LOG	PUSH_ACK: 02 f01d 01
0:35:46.758701	LOG	GPS Time from gateway: 1385112003933
0:35:46.761212	LOG	PUSH_DATA: Protocol version = 02, Token = f01d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2163044457, 'time': '2023-11-27T09:19:44.933107Z', 'tmms': 1385112003933, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACACQMCaKCLzuqixaRlHJ8='}]}
0:35:46.762210	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0309, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a4651c9f)
0:35:46.763210	LOG	Server <---------- DUT
0:35:46.765211	LOG	Count = 7
0:35:47.903412	LOG	GPS Time updated: 1385112005194
0:35:47.904411	LOG	PULL_DATA: 02 43f7 02 0016c001ff1025bf
0:35:47.906379	LOG	PULL_ACK: 02 43f7 04
0:35:51.644572	LOG	First uplink received. Open reception window.
0:35:51.758272	LOG	PUSH_ACK: 02 d49d 01
0:35:51.760278	LOG	GPS Time from gateway: 1385112008932
0:35:51.761822	LOG	PUSH_DATA: Protocol version = 02, Token = d49d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2168044203, 'time': '2023-11-27T09:19:49.932854Z', 'tmms': 1385112008932, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACACgMC2l7Hc73/exa03M8='}]}
0:35:51.762822	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 030a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 16b4dccf)
0:35:51.764846	LOG	Server <---------- DUT
0:35:51.765858	LOG	Count = 8

0:35:56.643320	LOG	First uplink received. Open reception window.
0:35:56.750297	LOG	PUSH_ACK: 02 29e6 01
0:35:56.752264	LOG	GPS Time from gateway: 1385112013932
0:35:56.753264	LOG	PUSH_DATA: Protocol version = 02, Token = 29e6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2173043946, 'time': '2023-11-27T09:19:54.932596Z', 'tmms': 1385112013932, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACACwMCG7gC8ezdoQHWhwk='}]}
0:35:56.755270	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 030b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 01d68709)
0:35:56.757275	LOG	Server <---------- DUT
0:35:56.758275	LOG	Count = 9
0:35:57.983316	LOG	GPS Time updated: 1385112015272
0:35:57.984323	LOG	PULL_DATA: 02 c19d 02 0016c001ff1025bf
0:35:57.986284	LOG	PULL_ACK: 02 c19d 04
0:36:01.637371	LOG	First uplink received. Open reception window.
0:36:01.747999	LOG	PUSH_ACK: 02 3f8e 01
0:36:01.749999	LOG	GPS Time from gateway: 1385112018932
0:36:01.751001	LOG	PUSH_DATA: Protocol version = 02, Token = 3f8e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2178043681, 'time': '2023-11-27T09:19:59.932330Z', 'tmms': 1385112018932, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACADAMCtq3jWSCHG+fgP+M='}]}
0:36:01.753003	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 030c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e7e03fe3)
0:36:01.755008	LOG	Server <---------- DUT
0:36:01.756007	LOG	Count = 10
0:36:06.643124	LOG	First uplink received. Open reception window.
0:36:06.749598	LOG	PUSH_ACK: 02 cbf5 01
0:36:06.751602	LOG	GPS Time from gateway: 1385112023932
0:36:06.752602	LOG	PUSH_DATA: Protocol version = 02, Token = cbf5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2183043425, 'time': '2023-11-27T09:20:04.932073Z', 'tmms': 1385112023932, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACADQMCBge0EArw7/mgCFA='}]}
0:36:06.754619	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 030d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f9a00850)
0:36:06.756606	LOG	Server <---------- DUT
0:36:06.758573	LOG	Count = 11
0:36:08.073278	LOG	GPS Time updated: 1385112025362
0:36:08.075283	LOG	PULL_DATA: 02 b1d4 02 0016c001ff1025bf
0:36:08.076283	LOG	PULL_ACK: 02 b1d4 04
0:36:11.636292	LOG	First uplink received. Open reception window.
0:36:11.744171	LOG	PUSH_ACK: 02 dad8 01
0:36:11.746209	LOG	GPS Time from gateway: 1385112028931
0:36:11.747208	LOG	PUSH_DATA: Protocol version = 02, Token = dad8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2188043176, 'time': '2023-11-27T09:20:09.931823Z', 'tmms': 1385112028931, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACADgMC+hTGR9GixcsSYYs='}]}
0:36:11.749185	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 030e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: cb12618b)
0:36:11.751217	LOG	Server <---------- DUT
0:36:11.752216	LOG	Count = 12
0:36:16.641243	LOG	First uplink received. Open reception window.
0:36:16.747559	LOG	PUSH_ACK: 02 b35a 01

0:36:16.749559	LOG	GPS Time from gateway: 1385112033931
0:36:16.750594	LOG	PUSH_DATA: Protocol version = 02, Token = b35a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2193042912, 'time': '2023-11-27T09:20:14.931558Z', 'tmms': 1385112033931, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACADwMCnMJiYTJe+zSZvNA='}]}
0:36:16.752568	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 030f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3499bcd0)
0:36:16.754610	LOG	Server <---------- DUT
0:36:16.755606	LOG	Count = 13
0:36:18.153501	LOG	GPS Time updated: 1385112035443
0:36:18.154500	LOG	PULL_DATA: 02 185e 02 0016c001ff1025bf
0:36:18.156504	LOG	PULL_ACK: 02 185e 04
0:36:21.645268	LOG	First uplink received. Open reception window.
0:36:21.749678	LOG	PUSH_ACK: 02 9f40 01
0:36:21.751647	LOG	GPS Time from gateway: 1385112038931
0:36:21.752646	LOG	PUSH_DATA: Protocol version = 02, Token = 9f40, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2198042645, 'time': '2023-11-27T09:20:19.931290Z', 'tmms': 1385112038931, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAEAMCAPkEkQ9T1G44pSI='}]}
0:36:21.754653	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0310, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6e38a522)
0:36:21.756658	LOG	Server <---------- DUT
0:36:21.757658	LOG	Count = 14
0:36:26.639583	LOG	First uplink received. Open reception window.
0:36:26.745046	LOG	PUSH_ACK: 02 b964 01
0:36:26.747050	LOG	GPS Time from gateway: 1385112043931
0:36:26.748051	LOG	PUSH_DATA: Protocol version = 02, Token = b964, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2203042387, 'time': '2023-11-27T09:20:24.931031Z', 'tmms': 1385112043931, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAEQMCNoPmNdC/sCefqB0='}]}
0:36:26.750051	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0311, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 279fa81d)
0:36:26.752057	LOG	Server <---------- DUT
0:36:26.753089	LOG	Count = 15
0:36:28.233322	LOG	GPS Time updated: 1385112045525
0:36:28.234292	LOG	PULL_DATA: 02 c751 02 0016c001ff1025bf
0:36:28.236293	LOG	PULL_ACK: 02 c751 04
0:36:31.635758	LOG	First uplink received. Open reception window.
0:36:31.750186	LOG	PUSH_ACK: 02 e4b7 01
0:36:31.752151	LOG	GPS Time from gateway: 1385112048930
0:36:31.753150	LOG	PUSH_DATA: Protocol version = 02, Token = e4b7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2208042136, 'time': '2023-11-27T09:20:29.930779Z', 'tmms': 1385112048930, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACAEgMCIT6YsERyStZ/Frk='}]}
0:36:31.755168	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0312, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d67f16b9)
0:36:31.757175	LOG	Server <---------- DUT
0:36:31.758174	LOG	Count = 16
0:36:36.644953	LOG	First uplink received. Open reception window.
0:36:36.756123	LOG	PUSH_ACK: 02 6e27 01
0:36:36.758092	LOG	GPS Time from gateway: 1385112053930

0:36:36.759093	LOG	PUSH_DATA: Protocol version = 02, Token = 6e27, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2213041876, 'time': '2023-11-27T09:20:34.930517Z', 'tmms': 1385112053930, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACAEwMCLKyxNXq0fmbj2wc='}]}
0:36:36.761639	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0313, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 66e3db07)
0:36:36.762638	LOG	Server <---------- DUT
0:36:36.764645	LOG	Count = 17
0:36:38.321066	LOG	GPS Time updated: 1385112055607
0:36:38.322067	LOG	PULL_DATA: 02 ae42 02 0016c001ff1025bf
0:36:38.324611	LOG	PULL_ACK: 02 ae42 04
0:36:41.636542	LOG	First uplink received. Open reception window.
0:36:41.748713	LOG	PUSH_ACK: 02 2985 01
0:36:41.750717	LOG	GPS Time from gateway: 1385112058930
0:36:41.751713	LOG	PUSH_DATA: Protocol version = 02, Token = 2985, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2218041620, 'time': '2023-11-27T09:20:39.930260Z', 'tmms': 1385112058930, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACAFAMCqd5bg/Oq2Xe3YGQ='}]}
0:36:41.753714	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0314, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 77b76064)
0:36:41.754713	LOG	Server <---------- DUT
0:36:41.757251	LOG	Count = 18
0:36:46.635971	LOG	First uplink received. Open reception window.
0:36:46.745796	LOG	PUSH_ACK: 02 7568 01
0:36:46.747835	LOG	GPS Time from gateway: 1385112063930
0:36:46.748833	LOG	PUSH_DATA: Protocol version = 02, Token = 7568, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2223041366, 'time': '2023-11-27T09:20:44.930007Z', 'tmms': 1385112063930, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAFQMCiMBI2zOFYHYy49E='}]}
0:36:46.750801	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0315, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7632e3d1)
0:36:46.752841	LOG	Server <---------- DUT
0:36:46.753805	LOG	Count = 19
0:36:48.403249	LOG	GPS Time updated: 1385112065699
0:36:48.405216	LOG	PULL_DATA: 02 1341 02 0016c001ff1025bf
0:36:48.406249	LOG	PULL_ACK: 02 1341 04
0:36:51.633847	LOG	First uplink received. Open reception window.
0:36:51.747702	LOG	PUSH_ACK: 02 5dc5 01
0:36:51.749738	LOG	GPS Time from gateway: 1385112068929
0:36:51.750737	LOG	PUSH_DATA: Protocol version = 02, Token = 5dc5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2228041106, 'time': '2023-11-27T09:20:49.929746Z', 'tmms': 1385112068929, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAFgMCCKtY5vcjCmZg3ps='}]}
0:36:51.752741	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0316, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6660de9b)
0:36:51.754705	LOG	Server <---------- DUT
0:36:51.755704	LOG	Count = 20
0:36:56.638786	LOG	First uplink received. Open reception window.
0:36:56.740403	LOG	PUSH_ACK: 02 15b5 01
0:36:56.742372	LOG	GPS Time from gateway: 1385112073929
0:36:56.743377	LOG	PUSH_DATA: Protocol version = 02, Token = 15b5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2233040857, 'time': '2023-11-27T09:20:54.929496Z',

		'tmms': 1385112073929, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACAFwMC8QYqFKmtLz/RpJg='}]}
0:36:56.745371	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0317, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3fd1a498)
0:36:56.746376	LOG	Server <---------- DUT
0:36:56.748376	LOG	Count = 21
0:36:58.483745	LOG	GPS Time updated: 1385112075773
0:36:58.484745	LOG	PULL_DATA: 02 1eef 02 0016c001ff1025bf
0:36:58.486713	LOG	PULL_ACK: 02 1eef 04
0:37:01.633031	LOG	First uplink received. Open reception window.
0:37:01.743259	LOG	PUSH_ACK: 02 8ed2 01
0:37:01.745269	LOG	GPS Time from gateway: 1385112078929
0:37:01.746307	LOG	PUSH_DATA: Protocol version = 02, Token = 8ed2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2238040594, 'time': '2023-11-27T09:20:59.929232Z', 'tmms': 1385112078929, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAGAMC+7815vPvHaloxn4='}]}
0:37:01.748279	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0318, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a968c67e)
0:37:01.750280	LOG	Server <---------- DUT
0:37:01.751311	LOG	Count = 22
0:37:06.633725	LOG	First uplink received. Open reception window.
0:37:06.736585	LOG	PUSH_ACK: 02 4aa6 01
0:37:06.738586	LOG	GPS Time from gateway: 1385112083928
0:37:06.739623	LOG	PUSH_DATA: Protocol version = 02, Token = 4aa6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2243040337, 'time': '2023-11-27T09:21:04.928974Z', 'tmms': 1385112083928, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAGQMCg73C+8JQ31yxLQA='}]}
0:37:06.741586	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0319, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5cb12d00)
0:37:06.743622	LOG	Server <---------- DUT
0:37:06.745588	LOG	Count = 23
0:37:08.563767	LOG	GPS Time updated: 1385112085857
0:37:08.564767	LOG	PULL_DATA: 02 30e9 02 0016c001ff1025bf
0:37:08.566770	LOG	PULL_ACK: 02 30e9 04
0:37:11.641957	LOG	First uplink received. Open reception window.
0:37:11.755265	LOG	PUSH_ACK: 02 4dad 01
0:37:11.757270	LOG	GPS Time from gateway: 1385112088928
0:37:11.758269	LOG	PUSH_DATA: Protocol version = 02, Token = 4dad, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2248040084, 'time': '2023-11-27T09:21:09.928720Z', 'tmms': 1385112088928, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAGgMCgEBmQk/35YV/BKM='}]}
0:37:11.760274	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 031a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 857f04a3)
0:37:11.761273	LOG	Server <---------- DUT
0:37:11.762783	LOG	Count = 24
0:37:16.643097	LOG	First uplink received. Open reception window.
0:37:16.749043	LOG	PUSH_ACK: 02 3b31 01
0:37:16.751045	LOG	GPS Time from gateway: 1385112093928
0:37:16.752079	LOG	PUSH_DATA: Protocol version = 02, Token = 3b31, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2253039820, 'time': '2023-11-27T09:21:14.928455Z', 'tmms': 1385112093928, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu':

		'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACAGwMCggg20JeEyq6rn18='}]}
0:37:16.753078	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 031b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: aeab9f5f)
0:37:16.755078	LOG	Server <---------- DUT
0:37:16.757088	LOG	Count = 25
0:37:18.643251	LOG	GPS Time updated: 1385112095929
0:37:18.645217	LOG	PULL_DATA: 02 64a9 02 0016c001ff1025bf
0:37:18.646217	LOG	PULL_ACK: 02 64a9 04
0:37:21.633408	LOG	First uplink received. Open reception window.
0:37:21.744642	LOG	PUSH_ACK: 02 5913 01
0:37:21.746647	LOG	GPS Time from gateway: 1385112098928
0:37:21.747649	LOG	PUSH_DATA: Protocol version = 02, Token = 5913, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2258039564, 'time': '2023-11-27T09:21:19.928198Z', 'tmms': 1385112098928, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACAHAMCNDMHOpDEFNXinw4='}]}
0:37:21.749650	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 031c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d5e29f0e)
0:37:21.751657	LOG	Server <---------- DUT
0:37:21.753655	LOG	Count = 26
0:37:26.634619	LOG	First uplink received. Open reception window.
0:37:26.750757	LOG	PUSH_ACK: 02 ec1d 01
0:37:26.752759	LOG	GPS Time from gateway: 1385112103927
0:37:26.753759	LOG	PUSH_DATA: Protocol version = 02, Token = ec1d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2263039300, 'time': '2023-11-27T09:21:24.927933Z', 'tmms': 1385112103927, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACAHQMCOhQ1SRLTMvH7sDI='}]}
0:37:26.755765	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 031d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f1fbb032)
0:37:26.756764	LOG	Server <---------- DUT
0:37:26.758765	LOG	Count = 27
0:37:28.723398	LOG	GPS Time updated: 1385112106016
0:37:28.725365	LOG	PULL_DATA: 02 eb15 02 0016c001ff1025bf
0:37:28.726400	LOG	PULL_ACK: 02 eb15 04
0:37:31.634845	LOG	First uplink received. Open reception window.
0:37:31.743286	LOG	PUSH_ACK: 02 a360 01
0:37:31.745249	LOG	GPS Time from gateway: 1385112108927
0:37:31.746248	LOG	PUSH_DATA: Protocol version = 02, Token = a360, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2268039040, 'time': '2023-11-27T09:21:29.927672Z', 'tmms': 1385112108927, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACAHgMCT35WQ5uZxt+7uP0='}]}
0:37:31.748258	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 031e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: dfbbb8fd)
0:37:31.749258	LOG	Server <---------- DUT
0:37:31.751257	LOG	Count = 28
0:37:36.632794	LOG	First uplink received. Open reception window.
0:37:36.741234	LOG	PUSH_ACK: 02 7db6 01
0:37:36.743200	LOG	GPS Time from gateway: 1385112113927
0:37:36.744202	LOG	PUSH_DATA: Protocol version = 02, Token = 7db6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2273038781, 'time': '2023-11-27T09:21:34.927411Z', 'tmms': 1385112113927, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAHwMCVgJeSSRZSg2TcRk='}]}

0:37:36.746200	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 031f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0d937119)
0:37:36.747207	LOG	Server <---------- DUT
0:37:36.749206	LOG	Count = 29
0:37:38.803473	LOG	GPS Time updated: 1385112116098
0:37:38.805438	LOG	PULL_DATA: 02 a1db 02 0016c001ff1025bf
0:37:38.806438	LOG	PULL_ACK: 02 a1db 04
0:37:41.638524	LOG	First uplink received. Open reception window.
0:37:41.749025	LOG	PUSH_ACK: 02 909a 01
0:37:41.750992	LOG	GPS Time from gateway: 1385112118927
0:37:41.751992	LOG	PUSH_DATA: Protocol version = 02, Token = 909a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2278038529, 'time': '2023-11-27T09:21:39.927158Z', 'tmms': 1385112118927, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACAIAMCTU3IkPrIyB+SlSU='}]}
0:37:41.753999	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0320, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1f929525)
0:37:41.756004	LOG	Server <---------- DUT
0:37:41.758005	LOG	Count = 30
0:37:46.637562	LOG	First uplink received. Open reception window.
0:37:46.745630	LOG	PUSH_ACK: 02 a61e 01
0:37:46.747633	LOG	GPS Time from gateway: 1385112123926
0:37:46.748636	LOG	PUSH_DATA: Protocol version = 02, Token = a61e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2283038268, 'time': '2023-11-27T09:21:44.926896Z', 'tmms': 1385112123926, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAIQMC2IKkke7PVlCyNTU='}]}
0:37:46.750634	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0321, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 50b23535)
0:37:46.751634	LOG	Server <---------- DUT
0:37:46.753634	LOG	Count = 31
0:37:48.883939	LOG	GPS Time updated: 1385112126171
0:37:48.884939	LOG	PULL_DATA: 02 6cf0 02 0016c001ff1025bf
0:37:48.886443	LOG	PULL_ACK: 02 6cf0 04
0:37:51.633356	LOG	First uplink received. Open reception window.
0:37:51.743261	LOG	PUSH_ACK: 02 c59c 01
0:37:51.745261	LOG	GPS Time from gateway: 1385112128926
0:37:51.746262	LOG	PUSH_DATA: Protocol version = 02, Token = c59c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2288038020, 'time': '2023-11-27T09:21:49.926649Z', 'tmms': 1385112128926, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACAIgMCIjjREkW5P0UKlRU='}]}
0:37:51.748266	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0322, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 450a9515)
0:37:51.750272	LOG	Server <---------- DUT
0:37:51.752273	LOG	Count = 32
0:37:56.640058	LOG	First uplink received. Open reception window.
0:37:56.755126	LOG	PUSH_ACK: 02 daab 01
0:37:56.757094	LOG	GPS Time from gateway: 1385112133926
0:37:56.758093	LOG	PUSH_DATA: Protocol version = 02, Token = daab, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2293037762, 'time': '2023-11-27T09:21:54.926390Z', 'tmms': 1385112133926, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACAIwMCLlm7aDgQ4vpOd3s='}]}
0:37:56.760128	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0323, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fa4e777b)

0:37:56.761634	LOG	Server <---------- DUT
0:37:56.762640	LOG	Count = 33
0:37:58.963287	LOG	GPS Time updated: 1385112136250
0:37:58.965290	LOG	PULL_DATA: 02 8527 02 0016c001ff1025bf
0:37:58.966328	LOG	PULL_ACK: 02 8527 04
0:38:01.640768	LOG	First uplink received. Open reception window.
0:38:01.751740	LOG	PUSH_ACK: 02 59c0 01
0:38:01.753741	LOG	GPS Time from gateway: 1385112138926
0:38:01.754742	LOG	PUSH_DATA: Protocol version = 02, Token = 59c0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2298037497, 'time': '2023-11-27T09:21:59.926124Z', 'tmms': 1385112138926, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACAJAMCtOtUgrh5qyJorwM='}]}
0:38:01.756785	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0324, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2268af03)
0:38:01.757743	LOG	Server <---------- DUT
0:38:01.759744	LOG	Count = 34
0:38:06.636688	LOG	First uplink received. Open reception window.
0:38:06.751810	LOG	PUSH_ACK: 02 59bd 01
0:38:06.753777	LOG	GPS Time from gateway: 1385112143925
0:38:06.754777	LOG	PUSH_DATA: Protocol version = 02, Token = 59bd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2303037234, 'time': '2023-11-27T09:22:04.925860Z', 'tmms': 1385112143925, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAJQMCwPwMc8YxexgTZlA='}]}
0:38:06.756783	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0325, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 18136650)
0:38:06.757783	LOG	Server <---------- DUT
0:38:06.759783	LOG	Count = 35
0:38:09.043734	LOG	GPS Time updated: 1385112146332
0:38:09.044772	LOG	PULL_DATA: 02 6ab2 02 0016c001ff1025bf
0:38:09.046775	LOG	PULL_ACK: 02 6ab2 04
0:38:11.631090	LOG	First uplink received. Open reception window.
0:38:11.740915	LOG	PUSH_ACK: 02 cfbb 01
0:38:11.742883	LOG	GPS Time from gateway: 1385112148925
0:38:11.743882	LOG	PUSH_DATA: Protocol version = 02, Token = cfbb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2308036980, 'time': '2023-11-27T09:22:09.925605Z', 'tmms': 1385112148925, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAJgMC7ok6lqmDPkKzbWk='}]}
0:38:11.745882	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0326, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 42b36d69)
0:38:11.746882	LOG	Server <---------- DUT
0:38:11.748882	LOG	Count = 36
0:38:16.631607	LOG	First uplink received. Open reception window.
0:38:16.741326	LOG	PUSH_ACK: 02 6b72 01
0:38:16.743329	LOG	GPS Time from gateway: 1385112153925
0:38:16.744330	LOG	PUSH_DATA: Protocol version = 02, Token = 6b72, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2313036723, 'time': '2023-11-27T09:22:14.925347Z', 'tmms': 1385112153925, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAJwMC1ZdoxVzJWxLl6Ec='}]}
0:38:16.746366	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0327, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 12e5e847)
0:38:16.747363	LOG	Server <---------- DUT
0:38:16.749364	LOG	Count = 37

0:38:19.123442	LOG	GPS Time updated: 1385112156417
0:38:19.125409	LOG	PULL_DATA: 02 1ce8 02 0016c001ff1025bf
0:38:19.126410	LOG	PULL_ACK: 02 1ce8 04
0:38:21.632322	LOG	First uplink received. Open reception window.
0:38:21.742339	LOG	PUSH_ACK: 02 29bd 01
0:38:21.744306	LOG	GPS Time from gateway: 1385112158925
0:38:21.745305	LOG	PUSH_DATA: Protocol version = 02, Token = 29bd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2318036466, 'time': '2023-11-27T09:22:19.925089Z', 'tmms': 1385112158925, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACAKAMCBAKFvm5EHYznU5w='}]}
0:38:21.747310	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0328, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8ce7539c)
0:38:21.748309	LOG	Server <---------- DUT
0:38:21.750310	LOG	Count = 38
0:38:26.630975	LOG	First uplink received. Open reception window.
0:38:26.735365	LOG	PUSH_ACK: 02 c3a4 01
0:38:26.737331	LOG	GPS Time from gateway: 1385112163924
0:38:26.738365	LOG	PUSH_DATA: Protocol version = 02, Token = c3a4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2323036215, 'time': '2023-11-27T09:22:24.924837Z', 'tmms': 1385112163924, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAKQMCjvBSu9l0A3GcHf8='}]}
0:38:26.740330	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0329, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 719c1dff)
0:38:26.741331	LOG	Server <---------- DUT
0:38:26.743367	LOG	Count = 39
0:38:29.203550	LOG	GPS Time updated: 1385112166497
0:38:29.205518	LOG	PULL_DATA: 02 7454 02 0016c001ff1025bf
0:38:29.206518	LOG	PULL_ACK: 02 7454 04
0:38:31.631421	LOG	First uplink received. Open reception window.
0:38:31.741728	LOG	PUSH_ACK: 02 3e1b 01
0:38:31.743728	LOG	GPS Time from gateway: 1385112168924
0:38:31.745436	LOG	PUSH_DATA: Protocol version = 02, Token = 3e1b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2328035963, 'time': '2023-11-27T09:22:29.924584Z', 'tmms': 1385112168924, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAKgMCRaSVYwjj+JC52No='}]}
0:38:31.746576	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 032a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 90b9d8da)
0:38:31.748168	LOG	Server <---------- DUT
0:38:31.749824	LOG	Count = 40
0:38:36.634441	LOG	First uplink received. Open reception window.
0:38:36.746159	LOG	PUSH_ACK: 02 72aa 01
0:38:36.748196	LOG	GPS Time from gateway: 1385112173924
0:38:36.749163	LOG	PUSH_DATA: Protocol version = 02, Token = 72aa, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2333035692, 'time': '2023-11-27T09:22:34.924312Z', 'tmms': 1385112173924, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAKwMCtuXKBGcIikXvudc='}]}
0:38:36.751170	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 032b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 45efb9d7)
0:38:36.752218	LOG	Server <---------- DUT
0:38:36.754200	LOG	Count = 41
0:38:39.293654	LOG	GPS Time updated: 1385112176583
0:38:39.295659	LOG	PULL_DATA: 02 0b37 02 0016c001ff1025bf

0:38:39.296660	LOG	PULL_ACK: 02 0b37 04
0:38:41.629681	LOG	First uplink received. Open reception window.
0:38:41.739154	LOG	PUSH_ACK: 02 e3cc 01
0:38:41.741119	LOG	GPS Time from gateway: 1385112178924
0:38:41.743122	LOG	PUSH_DATA: Protocol version = 02, Token = e3cc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2338035436, 'time': '2023-11-27T09:22:39.924054Z', 'tmms': 1385112178924, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACALAMCwubpk9DcBAtDLU0='}]}
0:38:41.744120	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 032c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0b432d4d)
0:38:41.745119	LOG	Server <---------- DUT
0:38:41.747127	LOG	Count = 42
0:38:46.637556	LOG	First uplink received. Open reception window.
0:38:46.744001	LOG	PUSH_ACK: 02 0d3c 01
0:38:46.745968	LOG	GPS Time from gateway: 1385112183923
0:38:46.746968	LOG	PUSH_DATA: Protocol version = 02, Token = 0d3c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2343035176, 'time': '2023-11-27T09:22:44.923793Z', 'tmms': 1385112183923, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACALQMCR9p9GM+40BO0crw='}]}
0:38:46.748977	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 032d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 13b472bc)
0:38:46.749977	LOG	Server <---------- DUT
0:38:46.751978	LOG	Count = 43
0:38:49.373955	LOG	GPS Time updated: 1385112186668
0:38:49.374959	LOG	PULL_DATA: 02 8c66 02 0016c001ff1025bf
0:38:49.377112	LOG	PULL_ACK: 02 8c66 04
0:38:51.632914	LOG	First uplink received. Open reception window.
0:38:51.746514	LOG	PUSH_ACK: 02 f9f6 01
0:38:51.748554	LOG	GPS Time from gateway: 1385112188923
0:38:51.749518	LOG	PUSH_DATA: Protocol version = 02, Token = f9f6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2348034924, 'time': '2023-11-27T09:22:49.923540Z', 'tmms': 1385112188923, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACALgMCYuMrLFIh16PBv8I='}]}
0:38:51.751523	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 032e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a3c1bfc2)
0:38:51.752558	LOG	Server <---------- DUT
0:38:51.754566	LOG	Count = 44
0:38:56.628545	LOG	First uplink received. Open reception window.
0:38:56.737375	LOG	PUSH_ACK: 02 18ca 01
0:38:56.739340	LOG	GPS Time from gateway: 1385112193923
0:38:56.740357	LOG	PUSH_DATA: Protocol version = 02, Token = 18ca, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2353034658, 'time': '2023-11-27T09:22:54.923275Z', 'tmms': 1385112193923, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACALwMCivsgDL/nmAhiaKI='}]}
0:38:56.742341	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 032f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 086268a2)
0:38:56.743342	LOG	Server <---------- DUT
0:38:56.745340	LOG	Count = 45
0:38:59.454234	LOG	GPS Time updated: 1385112196748
0:38:59.455201	LOG	PULL_DATA: 02 4ce7 02 0016c001ff1025bf
0:38:59.457203	LOG	PULL_ACK: 02 4ce7 04
0:39:01.629875	LOG	First uplink received. Open reception window.

0:39:01.735512	LOG	PUSH_ACK: 02 85b7 01
0:39:01.737480	LOG	GPS Time from gateway: 1385112198922
0:39:01.738479	LOG	PUSH_DATA: Protocol version = 02, Token = 85b7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2358034409, 'time': '2023-11-27T09:22:59.923025Z', 'tmms': 1385112198922, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACAMAMCyu4FmsIV8iDfkbw='}]}
0:39:01.740480	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0330, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 20df91bc)
0:39:01.741480	LOG	Server <---------- DUT
0:39:01.743480	LOG	Count = 46
0:39:06.634705	LOG	First uplink received. Open reception window.
0:39:06.741199	LOG	PUSH_ACK: 02 5aa1 01
0:39:06.743235	LOG	GPS Time from gateway: 1385112203922
0:39:06.744200	LOG	PUSH_DATA: Protocol version = 02, Token = 5aa1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2363034152, 'time': '2023-11-27T09:23:04.922767Z', 'tmms': 1385112203922, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACAMQMCRrO5AyJWZ0cPbfE='}]}
0:39:06.746203	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0331, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 470f6df1)
0:39:06.747200	LOG	Server <---------- DUT
0:39:06.749206	LOG	Count = 47
0:39:09.534291	LOG	GPS Time updated: 1385112206821
0:39:09.535305	LOG	PULL_DATA: 02 a083 02 0016c001ff1025bf
0:39:09.537344	LOG	PULL_ACK: 02 a083 04
0:39:11.632575	LOG	First uplink received. Open reception window.
0:39:11.745532	LOG	PUSH_ACK: 02 27d3 01
0:39:11.747496	LOG	GPS Time from gateway: 1385112208922
0:39:11.748500	LOG	PUSH_DATA: Protocol version = 02, Token = 27d3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2368033885, 'time': '2023-11-27T09:23:09.922499Z', 'tmms': 1385112208922, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACAMgMCNCUNwttEL2ApsEQ='}]}
0:39:11.750544	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0332, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6029b044)
0:39:11.752502	LOG	Server <---------- DUT
0:39:11.753499	LOG	Count = 48
0:39:16.627902	LOG	First uplink received. Open reception window.
0:39:16.735615	LOG	PUSH_ACK: 02 b766 01
0:39:16.737617	LOG	GPS Time from gateway: 1385112213922
0:39:16.738617	LOG	PUSH_DATA: Protocol version = 02, Token = b766, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2373033630, 'time': '2023-11-27T09:23:14.922243Z', 'tmms': 1385112213922, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAMwMC0W7YjvUnGfRjRkY='}]}
0:39:16.740619	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0333, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f4634646)
0:39:16.741650	LOG	Server <---------- DUT
0:39:16.743620	LOG	Count = 49
0:39:19.613377	LOG	GPS Time updated: 1385112216908
0:39:19.615343	LOG	PULL_DATA: 02 ee2a 02 0016c001ff1025bf
0:39:19.617348	LOG	PULL_ACK: 02 ee2a 04
0:39:21.631806	LOG	First uplink received. Open reception window.
0:39:21.734736	LOG	PUSH_ACK: 02 10fa 01
0:39:21.736703	LOG	GPS Time from gateway: 1385112218921

0:39:21.737703	LOG	PUSH_DATA: Protocol version = 02, Token = 10fa, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2378033375, 'time': '2023-11-27T09:23:19.921987Z', 'tmms': 1385112218921, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACANAMCjYB3LzjTTIROMV4='}]}
0:39:21.739704	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0334, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 844e315e)
0:39:21.740703	LOG	Server <---------- DUT
0:39:21.742704	LOG	Count = 50
0:39:26.630104	LOG	First uplink received. Open reception window.
0:39:26.745534	LOG	PUSH_ACK: 02 6157 01
0:39:26.747533	LOG	GPS Time from gateway: 1385112223921
0:39:26.748576	LOG	PUSH_DATA: Protocol version = 02, Token = 6157, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2383033113, 'time': '2023-11-27T09:23:24.921724Z', 'tmms': 1385112223921, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACANQMC9EKK10/NMnxFhcs='}]}
0:39:26.750536	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0335, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7c4585cb)
0:39:26.751538	LOG	Server <---------- DUT
0:39:26.753539	LOG	Count = 51
0:39:29.703690	LOG	GPS Time updated: 1385112226994
0:39:29.705691	LOG	PULL_DATA: 02 df44 02 0016c001ff1025bf
0:39:29.707696	LOG	PULL_ACK: 02 df44 04
0:39:31.631716	LOG	First uplink received. Open reception window.
0:39:31.743271	LOG	PUSH_ACK: 02 23ec 01
0:39:31.745239	LOG	GPS Time from gateway: 1385112228921
0:39:31.746273	LOG	PUSH_DATA: Protocol version = 02, Token = 23ec, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2388032872, 'time': '2023-11-27T09:23:29.921482Z', 'tmms': 1385112228921, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACANgMCHQoGm3LWvIDNUfM='}]}
0:39:31.748244	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0336, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 80cd51f3)
0:39:31.749243	LOG	Server <---------- DUT
0:39:31.751280	LOG	Count = 52
0:39:36.631771	LOG	First uplink received. Open reception window.
0:39:36.744338	LOG	PUSH_ACK: 02 80af 01
0:39:36.746337	LOG	GPS Time from gateway: 1385112233921
0:39:36.747338	LOG	PUSH_DATA: Protocol version = 02, Token = 80af, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2393032605, 'time': '2023-11-27T09:23:34.921214Z', 'tmms': 1385112233921, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACANwMCAXqsdQeT07eQq8w='}]}
0:39:36.748375	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0337, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b790abcc)
0:39:36.750375	LOG	Server <---------- DUT
0:39:36.751378	LOG	Count = 53
0:39:39.793598	LOG	GPS Time updated: 1385112237083
0:39:39.795566	LOG	PULL_DATA: 02 527a 02 0016c001ff1025bf
0:39:39.796566	LOG	PULL_ACK: 02 527a 04
0:39:41.630840	LOG	First uplink received. Open reception window.
0:39:41.731542	LOG	PUSH_ACK: 02 44f2 01
0:39:41.733545	LOG	GPS Time from gateway: 1385112238920
0:39:41.734547	LOG	PUSH_DATA: Protocol version = 02, Token = 44f2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2398032348, 'time': '2023-11-27T09:23:39.920956Z',

		'tmms': 1385112238920, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAOAMCBxxzHP3m/t/ML6w='}]}
0:39:41.736546	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0338, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: dfcc2fac)
0:39:41.737546	LOG	Server <---------- DUT
0:39:41.738546	LOG	Count = 54
0:39:46.629345	LOG	First uplink received. Open reception window.
0:39:46.738207	LOG	PUSH_ACK: 02 52c9 01
0:39:46.740173	LOG	GPS Time from gateway: 1385112243920
0:39:46.741173	LOG	PUSH_DATA: Protocol version = 02, Token = 52c9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2403032088, 'time': '2023-11-27T09:23:44.920695Z', 'tmms': 1385112243920, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACAOQMCO2nCvuY4ucdSiSY='}]}
0:39:46.743208	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0339, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c7528926)
0:39:46.744208	LOG	Server <---------- DUT
0:39:46.745747	LOG	Count = 55
0:39:49.904124	LOG	GPS Time updated: 1385112247196
0:39:49.905124	LOG	PULL_DATA: 02 aaac 02 0016c001ff1025bf
0:39:49.907707	LOG	PULL_ACK: 02 aaac 04
0:39:51.633957	LOG	First uplink received. Open reception window.
0:39:51.743394	LOG	PUSH_ACK: 02 6b4a 01
0:39:51.745362	LOG	GPS Time from gateway: 1385112248920
0:39:51.746361	LOG	PUSH_DATA: Protocol version = 02, Token = 6b4a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2408031828, 'time': '2023-11-27T09:23:49.920433Z', 'tmms': 1385112248920, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACAOgMCKwjl55F0Wv4JJ7o='}]}
0:39:51.748362	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 033a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fe0927ba)
0:39:51.749867	LOG	Server <---------- DUT
0:39:51.750871	LOG	Count = 56
0:39:56.624727	LOG	First uplink received. Open reception window.
0:39:56.735502	LOG	PUSH_ACK: 02 2fca 01
0:39:56.737469	LOG	GPS Time from gateway: 1385112253920
0:39:56.738469	LOG	PUSH_DATA: Protocol version = 02, Token = 2fca, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2413031574, 'time': '2023-11-27T09:23:54.920178Z', 'tmms': 1385112253920, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACAOwMCBXcz0T03TKZJKKQ='}]}
0:39:56.740473	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 033b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a64928a4)
0:39:56.741472	LOG	Server <---------- DUT
0:39:56.742473	LOG	Count = 57
0:39:59.983454	LOG	GPS Time updated: 1385112257279
0:39:59.985468	LOG	PULL_DATA: 02 ad56 02 0016c001ff1025bf
0:39:59.987458	LOG	PULL_ACK: 02 ad56 04
0:40:01.630540	LOG	First uplink received. Open reception window.
0:40:01.737267	LOG	PUSH_ACK: 02 9d65 01
0:40:01.739235	LOG	GPS Time from gateway: 1385112258919
0:40:01.740235	LOG	PUSH_DATA: Protocol version = 02, Token = 9d65, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2418031310, 'time': '2023-11-27T09:23:59.919915Z', 'tmms': 1385112258919, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu':

		'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACAPAMC7C7/bD9r4/sarkg='}]}
0:40:01.742236	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 033c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fb1aae48)
0:40:01.743235	LOG	Server <---------- DUT
0:40:01.745246	LOG	Count = 58
0:40:06.629916	LOG	First uplink received. Open reception window.
0:40:06.734745	LOG	PUSH_ACK: 02 bc8c 01
0:40:06.736747	LOG	GPS Time from gateway: 1385112263919
0:40:06.737748	LOG	PUSH_DATA: Protocol version = 02, Token = bc8c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2423031068, 'time': '2023-11-27T09:24:04.919672Z', 'tmms': 1385112263919, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAPQMCSCUs4AK+K4ps0uA='}]}
0:40:06.739747	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 033d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8a6cd2e0)
0:40:06.740780	LOG	Server <---------- DUT
0:40:06.742748	LOG	Count = 59
0:40:10.073644	LOG	GPS Time updated: 1385112267364
0:40:10.075633	LOG	PULL_DATA: 02 8fcd 02 0016c001ff1025bf
0:40:10.077608	LOG	PULL_ACK: 02 8fcd 04
0:40:11.633311	LOG	First uplink received. Open reception window.
0:40:11.748150	LOG	PUSH_ACK: 02 2465 01
0:40:11.750155	LOG	GPS Time from gateway: 1385112268919
0:40:11.751154	LOG	PUSH_DATA: Protocol version = 02, Token = 2465, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2428030796, 'time': '2023-11-27T09:24:09.919399Z', 'tmms': 1385112268919, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAPgMCkcrjpJYvGHyKmZ4='}]}
0:40:11.753161	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 033e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7c8a999e)
0:40:11.754160	LOG	Server <---------- DUT
0:40:11.756161	LOG	Count = 60
0:40:16.634500	LOG	First uplink received. Open reception window.
0:40:16.741442	LOG	PUSH_ACK: 02 3547 01
0:40:16.743409	LOG	GPS Time from gateway: 1385112273919
0:40:16.744411	LOG	PUSH_DATA: Protocol version = 02, Token = 3547, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2433030550, 'time': '2023-11-27T09:24:14.919152Z', 'tmms': 1385112273919, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACAPwMCWp08Q5Yz5fZquVw='}]}
0:40:16.746440	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 033f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f66ab95c)
0:40:16.747446	LOG	Server <---------- DUT
0:40:16.749486	LOG	Count = 61
0:40:20.153695	LOG	GPS Time updated: 1385112277439
0:40:20.155663	LOG	PULL_DATA: 02 52b5 02 0016c001ff1025bf
0:40:20.157465	LOG	PULL_ACK: 02 52b5 04
0:40:21.632836	LOG	First uplink received. Open reception window.
0:40:21.739758	LOG	PUSH_ACK: 02 f6a4 01
0:40:21.741757	LOG	GPS Time from gateway: 1385112278918
0:40:21.742756	LOG	PUSH_DATA: Protocol version = 02, Token = f6a4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2438030291, 'time': '2023-11-27T09:24:19.918892Z', 'tmms': 1385112278918, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAQAMCgP025HVPB/4yGZk='}]}

0:40:21.744757	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0340, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fe321999)
0:40:21.745757	LOG	Server <---------- DUT
0:40:21.747757	LOG	Count = 62
0:40:26.630819	LOG	First uplink received. Open reception window.
0:40:26.736388	LOG	PUSH_ACK: 02 2f9c 01
0:40:26.738389	LOG	GPS Time from gateway: 1385112283918
0:40:26.739389	LOG	PUSH_DATA: Protocol version = 02, Token = 2f9c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2443030024, 'time': '2023-11-27T09:24:24.918624Z', 'tmms': 1385112283918, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAQQMCjXbWJOge0AbPq1I='}]}
0:40:26.741389	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0341, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 06cfab52)
0:40:26.742389	LOG	Server <---------- DUT
0:40:26.744405	LOG	Count = 63
0:40:30.233505	LOG	GPS Time updated: 1385112287522
0:40:30.235504	LOG	PULL_DATA: 02 0f73 02 0016c001ff1025bf
0:40:30.237475	LOG	PULL_ACK: 02 0f73 04
0:40:31.625992	LOG	First uplink received. Open reception window.
0:40:31.735645	LOG	PUSH_ACK: 02 8f61 01
0:40:31.737645	LOG	GPS Time from gateway: 1385112288918
0:40:31.738647	LOG	PUSH_DATA: Protocol version = 02, Token = 8f61, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2448029772, 'time': '2023-11-27T09:24:29.918371Z', 'tmms': 1385112288918, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACAQgMCWSPcsgQJSssdizE='}]}
0:40:31.740645	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0342, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: cb1d8b31)
0:40:31.741647	LOG	Server <---------- DUT
0:40:31.743645	LOG	Count = 64
0:40:36.628394	LOG	First uplink received. Open reception window.
0:40:36.743572	LOG	PUSH_ACK: 02 3d39 01
0:40:36.745572	LOG	GPS Time from gateway: 1385112293917
0:40:36.746574	LOG	PUSH_DATA: Protocol version = 02, Token = 3d39, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2453029507, 'time': '2023-11-27T09:24:34.918105Z', 'tmms': 1385112293917, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAADAQwMCi4Mi5pamUFiIbqQ='}]}
0:40:36.748542	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0343, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 58886ea4)
0:40:36.749582	LOG	Server <---------- DUT
0:40:36.751548	LOG	Count = 65
0:40:36.767695	LOG	Expected number of uplink messages have been received
0:40:36.772695	LOG	Test adaptive data rate control in frame header process starts
0:40:40.315147	LOG	GPS Time updated: 1385112297603
0:40:40.316897	LOG	PULL_DATA: 02 833c 02 0016c001ff1025bf
0:40:40.317898	LOG	PULL_ACK: 02 833c 04
0:40:41.629073	LOG	First uplink received. Open reception window.
0:40:41.744362	LOG	PUSH_ACK: 02 7230 01
0:40:41.746365	LOG	GPS Time from gateway: 1385112298917
0:40:41.747402	LOG	PUSH_DATA: Protocol version = 02, Token = 7230, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2458029250, 'time': '2023-11-27T09:24:39.917847Z', 'tmms': 1385112298917, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAADARAMCtGF+MInDJB9TpU4='}]}

0:40:41.749403	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0344, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1f53a54e)
0:40:41.750433	LOG	Server <---------- DUT
0:40:41.752401	LOG	Count = 2
0:40:46.623823	LOG	First uplink received. Open reception window.
0:40:46.740514	LOG	PUSH_ACK: 02 920f 01
0:40:46.742480	LOG	GPS Time from gateway: 1385112303917
0:40:46.743480	LOG	PUSH_DATA: Protocol version = 02, Token = 920f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2463029007, 'time': '2023-11-27T09:24:44.917603Z', 'tmms': 1385112303917, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAADARQMC2lLFJfFcuyQOhqg='}]}
0:40:46.746495	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0345, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 240e86a8)
0:40:46.747512	LOG	Server <---------- DUT
0:40:46.749535	LOG	Count = 3
0:40:50.404156	LOG	GPS Time updated: 1385112307698
0:40:50.405189	LOG	PULL_DATA: 02 954f 02 0016c001ff1025bf
0:40:50.407165	LOG	PULL_ACK: 02 954f 04
0:40:51.626664	LOG	First uplink received. Open reception window.
0:40:51.738613	LOG	PUSH_ACK: 02 9b24 01
0:40:51.740619	LOG	GPS Time from gateway: 1385112308917
0:40:51.741615	LOG	PUSH_DATA: Protocol version = 02, Token = 9b24, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2468028745, 'time': '2023-11-27T09:24:49.917340Z', 'tmms': 1385112308917, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAADARgMC32z93OEcDCYtC0A='}]}
0:40:51.743584	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0346, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 262d0b40)
0:40:51.745581	LOG	Server <---------- DUT
0:40:51.747582	LOG	Count = 4
0:40:56.638679	LOG	First uplink received. Open reception window.
0:40:56.740873	LOG	PUSH_ACK: 02 1c21 01
0:40:56.742841	LOG	GPS Time from gateway: 1385112313916
0:40:56.743841	LOG	PUSH_DATA: Protocol version = 02, Token = 1c21, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2473028487, 'time': '2023-11-27T09:24:54.917080Z', 'tmms': 1385112313916, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAADARwMC3C947l+AnXavWZw='}]}
0:40:56.745841	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0347, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 76af599c)
0:40:56.746840	LOG	Server <---------- DUT
0:40:56.748878	LOG	Count = 5
0:41:00.494093	LOG	GPS Time updated: 1385112317779
0:41:00.495093	LOG	PULL_DATA: 02 1540 02 0016c001ff1025bf
0:41:00.497094	LOG	PULL_ACK: 02 1540 04
0:41:01.625458	LOG	First uplink received. Open reception window.
0:41:01.726159	LOG	PUSH_ACK: 02 874a 01
0:41:01.728195	LOG	GPS Time from gateway: 1385112318916
0:41:01.729194	LOG	PUSH_DATA: Protocol version = 02, Token = 874a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2478028229, 'time': '2023-11-27T09:24:59.916821Z', 'tmms': 1385112318916, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAADASAMCJJIT4uKPcwXObsI='}]}
0:41:01.731165	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0348, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 05ce6ec2)

0:41:01.732683	LOG	Server <---------- DUT
0:41:01.734731	LOG	Count = 6
0:41:06.624955	LOG	First uplink received. Open reception window.
0:41:06.735071	LOG	PUSH_ACK: 02 87d9 01
0:41:06.737086	LOG	GPS Time from gateway: 1385112323916
0:41:06.738073	LOG	PUSH_DATA: Protocol version = 02, Token = 87d9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2483027972, 'time': '2023-11-27T09:25:04.916565Z', 'tmms': 1385112323916, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAADASQMCSES16EI9ndR6neQ='}]}
0:41:06.740072	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0349, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d47a9de4)
0:41:06.741072	LOG	Server <---------- DUT
0:41:06.743073	LOG	Count = 7
0:41:10.574382	LOG	GPS Time updated: 1385112327865
0:41:10.575389	LOG	PULL_DATA: 02 7d2f 02 0016c001ff1025bf
0:41:10.576862	LOG	PULL_ACK: 02 7d2f 04
0:41:11.630894	LOG	First uplink received. Open reception window.
0:41:11.740676	LOG	PUSH_ACK: 02 1a8c 01
0:41:11.742678	LOG	GPS Time from gateway: 1385112328916
0:41:11.743677	LOG	PUSH_DATA: Protocol version = 02, Token = 1a8c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2488027708, 'time': '2023-11-27T09:25:09.916300Z', 'tmms': 1385112328916, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAADASgMCPsb2kCdQK4wotyg='}]}
0:41:11.745677	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 034a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8c28b728)
0:41:11.746677	LOG	Server <---------- DUT
0:41:11.748693	LOG	Count = 8
0:41:16.621328	LOG	First uplink received. Open reception window.
0:41:16.731954	LOG	PUSH_ACK: 02 a2a9 01
0:41:16.734041	LOG	GPS Time from gateway: 1385112333915
0:41:16.735579	LOG	PUSH_DATA: Protocol version = 02, Token = a2a9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2493027450, 'time': '2023-11-27T09:25:14.916041Z', 'tmms': 1385112333915, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAADASwMC34thg0MKoAOfmnM='}]}
0:41:16.736618	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 034b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 039f9a73)
0:41:16.737617	LOG	Server <---------- DUT
0:41:16.739618	LOG	Count = 9
0:41:20.653674	LOG	GPS Time updated: 1385112337947
0:41:20.655674	LOG	PULL_DATA: 02 eddf 02 0016c001ff1025bf
0:41:20.656642	LOG	PULL_ACK: 02 eddf 04
0:41:21.620494	LOG	First uplink received. Open reception window.
0:41:21.727025	LOG	PUSH_ACK: 02 e2fa 01
0:41:21.728988	LOG	GPS Time from gateway: 1385112338915
0:41:21.729991	LOG	PUSH_DATA: Protocol version = 02, Token = e2fa, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2498027193, 'time': '2023-11-27T09:25:19.915783Z', 'tmms': 1385112338915, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAADATAMCs1/LqJF8cBFEMKk='}]}
0:41:21.731998	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 034c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 114430a9)
0:41:21.734146	LOG	Server <---------- DUT
0:41:21.736146	LOG	Count = 10

0:41:26.622873	LOG	First uplink received. Open reception window.
0:41:26.726783	LOG	PUSH_ACK: 02 8765 01
0:41:26.728751	LOG	GPS Time from gateway: 1385112343915
0:41:26.729752	LOG	PUSH_DATA: Protocol version = 02, Token = 8765, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2503026940, 'time': '2023-11-27T09:25:24.915529Z', 'tmms': 1385112343915, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAADATQMCCivtGUMMMK5YvYs='}]}
0:41:26.731786	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 034d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ae58bd8b)
0:41:26.733788	LOG	Server <---------- DUT
0:41:26.735817	LOG	Count = 11
0:41:30.734312	LOG	GPS Time updated: 1385112348026
0:41:30.735343	LOG	PULL_DATA: 02 36f9 02 0016c001ff1025bf
0:41:30.737353	LOG	PULL_ACK: 02 36f9 04
0:41:31.627283	LOG	First uplink received. Open reception window.
0:41:31.732883	LOG	PUSH_ACK: 02 95c9 01
0:41:31.734396	LOG	GPS Time from gateway: 1385112348915
0:41:31.736398	LOG	PUSH_DATA: Protocol version = 02, Token = 95c9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2508026681, 'time': '2023-11-27T09:25:29.915269Z', 'tmms': 1385112348915, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAADATgMCpUujgUogjaVhDPE='}]}
0:41:31.737398	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 034e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a5610cf1)
0:41:31.739408	LOG	Server <---------- DUT
0:41:31.740401	LOG	Count = 12
0:41:36.625233	LOG	First uplink received. Open reception window.
0:41:36.736025	LOG	PUSH_ACK: 02 092b 01
0:41:36.738020	LOG	GPS Time from gateway: 1385112353914
0:41:36.739989	LOG	PUSH_DATA: Protocol version = 02, Token = 092b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2513026427, 'time': '2023-11-27T09:25:34.915014Z', 'tmms': 1385112353914, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAADATwMCh4bMWqd7RcC8Klw='}]}
0:41:36.741026	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 034f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c0bc2a5c)
0:41:36.742996	LOG	Server <---------- DUT
0:41:36.744993	LOG	Count = 13
0:41:40.814287	LOG	GPS Time updated: 1385112358103
0:41:40.815256	LOG	PULL_DATA: 02 4f34 02 0016c001ff1025bf
0:41:40.817309	LOG	PULL_ACK: 02 4f34 04
0:41:41.620876	LOG	First uplink received. Open reception window.
0:41:41.724542	LOG	PUSH_ACK: 02 c664 01
0:41:41.726543	LOG	GPS Time from gateway: 1385112358914
0:41:41.727511	LOG	PUSH_DATA: Protocol version = 02, Token = c664, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2518026171, 'time': '2023-11-27T09:25:39.914757Z', 'tmms': 1385112358914, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAADAUAMCIEyjlgT89W9J5y4='}]}
0:41:41.729517	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0350, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6f49e72e)
0:41:41.731550	LOG	Server <---------- DUT
0:41:41.733089	LOG	Count = 14
0:41:46.628921	LOG	First uplink received. Open reception window.
0:41:46.737687	LOG	PUSH_ACK: 02 744d 01

0:41:46.739689	LOG	GPS Time from gateway: 1385112363914
0:41:46.740690	LOG	PUSH_DATA: Protocol version = 02, Token = 744d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2523025908, 'time': '2023-11-27T09:25:44.914493Z', 'tmms': 1385112363914, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAADAUQMCoOOeNvMT4UGlZUA='}]}
0:41:46.742692	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0351, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 41a56540)
0:41:46.743688	LOG	Server <---------- DUT
0:41:46.745690	LOG	Count = 15
0:41:50.913720	LOG	GPS Time updated: 1385112368199
0:41:50.915688	LOG	PULL_DATA: 02 aefb 02 0016c001ff1025bf
0:41:50.917414	LOG	PULL_ACK: 02 aefb 04
0:41:51.624401	LOG	First uplink received. Open reception window.
0:41:51.731178	LOG	PUSH_ACK: 02 26ae 01
0:41:51.733206	LOG	GPS Time from gateway: 1385112368914
0:41:51.734346	LOG	PUSH_DATA: Protocol version = 02, Token = 26ae, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2528025657, 'time': '2023-11-27T09:25:49.914241Z', 'tmms': 1385112368914, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAADAUgMCxHmoBrJYSGEYRYQ='}]}
0:41:51.736310	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0352, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 61184584)
0:41:51.737310	LOG	Server <---------- DUT
0:41:51.739323	LOG	Count = 16
0:41:56.627472	LOG	First uplink received. Open reception window.
0:41:56.738657	LOG	PUSH_ACK: 02 78a3 01
0:41:56.740624	LOG	GPS Time from gateway: 1385112373913
0:41:56.741624	LOG	PUSH_DATA: Protocol version = 02, Token = 78a3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2533025394, 'time': '2023-11-27T09:25:54.913977Z', 'tmms': 1385112373913, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAADAUwMCFfvOggZCTYhEeoo='}]}
0:41:56.743624	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0353, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 88447a8a)
0:41:56.744624	LOG	Server <---------- DUT
0:41:56.746624	LOG	Count = 17
0:42:00.993994	LOG	GPS Time updated: 1385112378279
0:42:00.995957	LOG	PULL_DATA: 02 dd92 02 0016c001ff1025bf
0:42:00.996961	LOG	PULL_ACK: 02 dd92 04
0:42:01.621292	LOG	First uplink received. Open reception window.
0:42:01.729224	LOG	PUSH_ACK: 02 307f 01
0:42:01.731190	LOG	GPS Time from gateway: 1385112378913
0:42:01.732225	LOG	PUSH_DATA: Protocol version = 02, Token = 307f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2538025141, 'time': '2023-11-27T09:25:59.913722Z', 'tmms': 1385112378913, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAADAVAMC5OTmZMBbkCej8Vc='}]}
0:42:01.734319	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0354, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 27a3f157)
0:42:01.735318	LOG	Server <---------- DUT
0:42:01.737319	LOG	Count = 18
0:42:06.625920	LOG	First uplink received. Open reception window.
0:42:06.735862	LOG	PUSH_ACK: 02 3b1d 01
0:42:06.737829	LOG	GPS Time from gateway: 1385112383913

0:42:06.739845	LOG	PUSH_DATA: Protocol version = 02, Token = 3b1d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2543024872, 'time': '2023-11-27T09:26:04.913452Z', 'tmms': 1385112383913, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAADAVQMCaxNmOKieZzi4YJw='}]}
0:42:06.740863	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0355, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 38b8609c)
0:42:06.741864	LOG	Server <---------- DUT
0:42:06.743862	LOG	Count = 19
0:42:11.074403	LOG	GPS Time updated: 1385112388362
0:42:11.075403	LOG	PULL_DATA: 02 18e6 02 0016c001ff1025bf
0:42:11.077409	LOG	PULL_ACK: 02 18e6 04
0:42:11.619351	LOG	First uplink received. Open reception window.
0:42:11.730294	LOG	PUSH_ACK: 02 824e 01
0:42:11.732295	LOG	GPS Time from gateway: 1385112388913
0:42:11.733801	LOG	PUSH_DATA: Protocol version = 02, Token = 824e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2548024617, 'time': '2023-11-27T09:26:09.913198Z', 'tmms': 1385112388913, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAADAVgMCPcAko1Dle48hntw='}]}
0:42:11.734844	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0356, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8f219edc)
0:42:11.736823	LOG	Server <---------- DUT
0:42:11.737841	LOG	Count = 20
0:42:16.622433	LOG	First uplink received. Open reception window.
0:42:16.732334	LOG	PUSH_ACK: 02 e018 01
0:42:16.734384	LOG	GPS Time from gateway: 1385112393912
0:42:16.735383	LOG	PUSH_DATA: Protocol version = 02, Token = e018, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2553024358, 'time': '2023-11-27T09:26:14.912938Z', 'tmms': 1385112393912, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAADAVwMCsvOa6OCldC8zzuw='}]}
0:42:16.737385	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0357, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2f33ceec)
0:42:16.738416	LOG	Server <---------- DUT
0:42:16.740413	LOG	Count = 21
0:42:21.164412	LOG	GPS Time updated: 1385112398453
0:42:21.165412	LOG	PULL_DATA: 02 17e9 02 0016c001ff1025bf
0:42:21.167567	LOG	PULL_ACK: 02 17e9 04
0:42:21.617694	LOG	First uplink received. Open reception window.
0:42:21.728517	LOG	PUSH_ACK: 02 432f 01
0:42:21.730485	LOG	GPS Time from gateway: 1385112398912
0:42:21.731485	LOG	PUSH_DATA: Protocol version = 02, Token = 432f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2558024107, 'time': '2023-11-27T09:26:19.912686Z', 'tmms': 1385112398912, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAADAWAMCbMw7BDjWteMzdig='}]}
0:42:21.733490	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0358, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e3337628)
0:42:21.735496	LOG	Server <---------- DUT
0:42:21.737497	LOG	Count = 22
0:42:26.619744	LOG	First uplink received. Open reception window.
0:42:26.731036	LOG	PUSH_ACK: 02 8d92 01
0:42:26.732037	LOG	GPS Time from gateway: 1385112403912
0:42:26.734548	LOG	PUSH_DATA: Protocol version = 02, Token = 8d92, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2563023842, 'time': '2023-11-27T09:26:24.912420Z',

		'tmms': 1385112403912, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAADAWQMC/2Z+/eSt1NQNG0I='}]}
0:42:26.736551	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0359, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d40d1b42)
0:42:26.737553	LOG	Server <---------- DUT
0:42:26.739547	LOG	Count = 23
0:42:31.243649	LOG	GPS Time updated: 1385112408536
0:42:31.245615	LOG	PULL_DATA: 02 6353 02 0016c001ff1025bf
0:42:31.247615	LOG	PULL_ACK: 02 6353 04
0:42:31.627456	LOG	First uplink received. Open reception window.
0:42:31.732368	LOG	PUSH_ACK: 02 f7d7 01
0:42:31.733873	LOG	GPS Time from gateway: 1385112408911
0:42:31.735878	LOG	PUSH_DATA: Protocol version = 02, Token = f7d7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2568023596, 'time': '2023-11-27T09:26:29.912173Z', 'tmms': 1385112408911, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAADAWgMCyicCz2n3OmLsFzc='}]}
0:42:31.736877	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 035a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 62ec1737)
0:42:31.738878	LOG	Server <---------- DUT
0:42:31.739877	LOG	Count = 24
0:42:36.627109	LOG	First uplink received. Open reception window.
0:42:36.738830	LOG	PUSH_ACK: 02 a0a5 01
0:42:36.740797	LOG	GPS Time from gateway: 1385112413911
0:42:36.741799	LOG	PUSH_DATA: Protocol version = 02, Token = a0a5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2573023334, 'time': '2023-11-27T09:26:34.911910Z', 'tmms': 1385112413911, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAADAWwMCUTsrGGlZG2xjbsk='}]}
0:42:36.743828	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 035b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6c636ec9)
0:42:36.744799	LOG	Server <---------- DUT
0:42:36.746800	LOG	Count = 25
0:42:41.323722	LOG	GPS Time updated: 1385112418607
0:42:41.325722	LOG	PULL_DATA: 02 534b 02 0016c001ff1025bf
0:42:41.326722	LOG	PULL_ACK: 02 534b 04
0:42:41.622479	LOG	First uplink received. Open reception window.
0:42:41.731233	LOG	PUSH_ACK: 02 6a30 01
0:42:41.732234	LOG	GPS Time from gateway: 1385112418911
0:42:41.734744	LOG	PUSH_DATA: Protocol version = 02, Token = 6a30, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2578023072, 'time': '2023-11-27T09:26:39.911647Z', 'tmms': 1385112418911, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAADAXAMCxofMTcA7HgC1cU0='}]}
0:42:41.735743	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 035c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 00b5714d)
0:42:41.737744	LOG	Server <---------- DUT
0:42:41.739744	LOG	Count = 26
0:42:46.619410	LOG	First uplink received. Open reception window.
0:42:46.722835	LOG	PUSH_ACK: 02 dd9a 01
0:42:46.724836	LOG	GPS Time from gateway: 1385112423911
0:42:46.726341	LOG	PUSH_DATA: Protocol version = 02, Token = dd9a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2583022821, 'time': '2023-11-27T09:26:44.911395Z', 'tmms': 1385112423911, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu':

		'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAADAXQMCx+aOfnNX+w0Ddgc='}]}
0:42:46.727347	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 035d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0d037607)
0:42:46.729348	LOG	Server <---------- DUT
0:42:46.731347	LOG	Count = 27
0:42:51.403472	LOG	GPS Time updated: 1385112428695
0:42:51.405476	LOG	PULL_DATA: 02 b019 02 0016c001ff1025bf
0:42:51.407362	LOG	PULL_ACK: 02 b019 04
0:42:51.622797	LOG	First uplink received. Open reception window.
0:42:51.725554	LOG	PUSH_ACK: 02 b70f 01
0:42:51.727522	LOG	GPS Time from gateway: 1385112428910
0:42:51.728522	LOG	PUSH_DATA: Protocol version = 02, Token = b70f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2588022551, 'time': '2023-11-27T09:26:49.911124Z', 'tmms': 1385112428910, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAADAXgMCRHSeQNHo4b0AsVQ='}]}
0:42:51.730523	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 035e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: bd00b154)
0:42:51.732002	LOG	Server <---------- DUT
0:42:51.733968	LOG	Count = 28
0:42:56.624943	LOG	First uplink received. Open reception window.
0:42:56.728962	LOG	PUSH_ACK: 02 36cf 01
0:42:56.730956	LOG	GPS Time from gateway: 1385112433910
0:42:56.732930	LOG	PUSH_DATA: Protocol version = 02, Token = 36cf, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2593022291, 'time': '2023-11-27T09:26:54.910863Z', 'tmms': 1385112433910, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAADAXwMCl405mi8Su7xpWPY='}]}
0:42:56.734952	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 035f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: bc6958f6)
0:42:56.736457	LOG	Server <---------- DUT
0:42:56.738461	LOG	Count = 29
0:43:01.492436	LOG	GPS Time updated: 1385112438778
0:43:01.494441	LOG	PULL_DATA: 02 f5b9 02 0016c001ff1025bf
0:43:01.495437	LOG	PULL_ACK: 02 f5b9 04
0:43:01.626099	LOG	First uplink received. Open reception window.
0:43:01.730097	LOG	PUSH_ACK: 02 1ed5 01
0:43:01.732064	LOG	GPS Time from gateway: 1385112438910
0:43:01.733070	LOG	PUSH_DATA: Protocol version = 02, Token = 1ed5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2598022047, 'time': '2023-11-27T09:26:59.910618Z', 'tmms': 1385112438910, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAADAYAMCHk4Z0bxndZb8/i0='}]}
0:43:01.735583	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0360, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 96fcfe2d)
0:43:01.737574	LOG	Server <---------- DUT
0:43:01.738575	LOG	Count = 30
0:43:06.622873	LOG	First uplink received. Open reception window.
0:43:06.732059	LOG	PUSH_ACK: 02 d135 01
0:43:06.734069	LOG	GPS Time from gateway: 1385112443910
0:43:06.735614	LOG	PUSH_DATA: Protocol version = 02, Token = d135, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2603021780, 'time': '2023-11-27T09:27:04.910349Z', 'tmms': 1385112443910, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAADAYQMC4UIuPwyJeznjyj4='}]}

0:43:06.736613	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0361, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 39e3ca3e)
0:43:06.738613	LOG	Server <---------- DUT
0:43:06.739646	LOG	Count = 31
0:43:11.583984	LOG	GPS Time updated: 1385112448872
0:43:11.584951	LOG	PULL_DATA: 02 654c 02 0016c001ff1025bf
0:43:11.586951	LOG	PULL_ACK: 02 654c 04
0:43:11.616551	LOG	First uplink received. Open reception window.
0:43:11.725333	LOG	PUSH_ACK: 02 a6c8 01
0:43:11.727301	LOG	GPS Time from gateway: 1385112448909
0:43:11.728300	LOG	PUSH_DATA: Protocol version = 02, Token = a6c8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2608021532, 'time': '2023-11-27T09:27:09.910100Z', 'tmms': 1385112448909, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAADAYgMC5LSNVJy9o8kMNqg='}]}
0:43:11.729300	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0362, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c90c36a8)
0:43:11.731302	LOG	Server <---------- DUT
0:43:11.732301	LOG	Count = 32
0:43:16.624975	LOG	First uplink received. Open reception window.
0:43:16.727118	LOG	PUSH_ACK: 02 9f9d 01
0:43:16.729119	LOG	GPS Time from gateway: 1385112453909
0:43:16.730120	LOG	PUSH_DATA: Protocol version = 02, Token = 9f9d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2613021276, 'time': '2023-11-27T09:27:14.909845Z', 'tmms': 1385112453909, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAADAYwMC2BzhuRcoFlhmMv0='}]}
0:43:16.732125	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0363, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 586632fd)
0:43:16.733128	LOG	Server <---------- DUT
0:43:16.736200	LOG	Count = 33
0:43:21.620306	LOG	First uplink received. Open reception window.
0:43:21.663858	LOG	PULL_DATA: 02 4372 02 0016c001ff1025bf
0:43:21.665498	LOG	PULL_ACK: 02 4372 04
0:43:21.722836	LOG	PUSH_ACK: 02 a040 01
0:43:21.724702	LOG	GPS Time from gateway: 1385112458909
0:43:21.726700	LOG	PUSH_DATA: Protocol version = 02, Token = a040, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2618021015, 'time': '2023-11-27T09:27:19.909583Z', 'tmms': 1385112458909, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAADAZAMCOUuZl6SIOFVbBzQ='}]}
0:43:21.728703	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0364, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 555b0734)
0:43:21.729734	LOG	Server <---------- DUT
0:43:21.731700	LOG	Count = 34
0:43:26.617065	LOG	First uplink received. Open reception window.
0:43:26.727046	LOG	PUSH_ACK: 02 0696 01
0:43:26.729014	LOG	GPS Time from gateway: 1385112463909
0:43:26.731015	LOG	PUSH_DATA: Protocol version = 02, Token = 0696, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2623020750, 'time': '2023-11-27T09:27:24.909317Z', 'tmms': 1385112463909, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAADAZQMCTns1jNSXzK1aMTs='}]}
0:43:26.733027	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0365, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ad5a313b)
0:43:26.734062	LOG	Server <---------- DUT

0:43:26.736212	LOG	Count = 35
0:43:31.624337	LOG	First uplink received. Open reception window.
0:43:31.732496	LOG	PUSH_ACK: 02 bd70 01
0:43:31.734033	LOG	GPS Time from gateway: 1385112468908
0:43:31.736039	LOG	PUSH_DATA: Protocol version = 02, Token = bd70, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2628020492, 'time': '2023-11-27T09:27:29.909058Z', 'tmms': 1385112468908, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAADAZgMC2jiUiCFzeXGVxhk='}]}
0:43:31.737038	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0366, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7195c619)
0:43:31.739037	LOG	Server <---------- DUT
0:43:31.740039	LOG	Count = 36
0:43:31.748074	LOG	GPS Time updated: 1385112469032
0:43:31.750075	LOG	PULL_DATA: 02 c79b 02 0016c001ff1025bf
0:43:31.751112	LOG	PULL_ACK: 02 c79b 04
0:43:36.622899	LOG	First uplink received. Open reception window.
0:43:36.724260	LOG	PUSH_ACK: 02 0a77 01
0:43:36.726222	LOG	GPS Time from gateway: 1385112473908
0:43:36.727222	LOG	PUSH_DATA: Protocol version = 02, Token = 0a77, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2633020245, 'time': '2023-11-27T09:27:34.908810Z', 'tmms': 1385112473908, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAADAZwMCxNOI35rOdBFVIcQ='}]}
0:43:36.729229	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0367, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 115521c4)
0:43:36.731234	LOG	Server <---------- DUT
0:43:36.733234	LOG	Count = 37
0:43:41.613353	LOG	First uplink received. Open reception window.
0:43:41.728248	LOG	PUSH_ACK: 02 86ea 01
0:43:41.730216	LOG	GPS Time from gateway: 1385112478908
0:43:41.731216	LOG	PUSH_DATA: Protocol version = 02, Token = 86ea, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2638019977, 'time': '2023-11-27T09:27:39.908541Z', 'tmms': 1385112478908, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAADAaAMCLaY73CuLYTMEO+0='}]}
0:43:41.734229	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0368, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 33043bed)
0:43:41.736340	LOG	Server <---------- DUT
0:43:41.737339	LOG	Count = 38
0:43:41.824010	LOG	GPS Time updated: 1385112479119
0:43:41.825009	LOG	PULL_DATA: 02 917b 02 0016c001ff1025bf
0:43:41.827011	LOG	PULL_ACK: 02 917b 04
0:43:46.616399	LOG	First uplink received. Open reception window.
0:43:46.723002	LOG	PUSH_ACK: 02 a3af 01
0:43:46.724970	LOG	GPS Time from gateway: 1385112483908
0:43:46.725970	LOG	PUSH_DATA: Protocol version = 02, Token = a3af, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2643019724, 'time': '2023-11-27T09:27:44.908287Z', 'tmms': 1385112483908, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAADAaQMCAoKq+ljQTZjNJlQ='}]}
0:43:46.727982	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0369, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 98cd2654)
0:43:46.728986	LOG	Server <---------- DUT
0:43:46.730987	LOG	Count = 39
0:43:51.620438	LOG	First uplink received. Open reception window.

0:43:51.726165	LOG	PUSH_ACK: 02 5174 01
0:43:51.728130	LOG	GPS Time from gateway: 1385112488907
0:43:51.729133	LOG	PUSH_DATA: Protocol version = 02, Token = 5174, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2648019471, 'time': '2023-11-27T09:27:49.908033Z', 'tmms': 1385112488907, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAADAagMCrUcnHzo/1Ef3vT4='}]}
0:43:51.731135	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 036a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 47f7bd3e)
0:43:51.733142	LOG	Server <---------- DUT
0:43:51.734642	LOG	Count = 40
0:43:51.902826	LOG	GPS Time updated: 1385112489189
0:43:51.905337	LOG	PULL_DATA: 02 e50f 02 0016c001ff1025bf
0:43:51.906342	LOG	PULL_ACK: 02 e50f 04
0:43:56.621418	LOG	First uplink received. Open reception window.
0:43:56.723690	LOG	PUSH_ACK: 02 884a 01
0:43:56.725659	LOG	GPS Time from gateway: 1385112493907
0:43:56.726658	LOG	PUSH_DATA: Protocol version = 02, Token = 884a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2653019210, 'time': '2023-11-27T09:27:54.907771Z', 'tmms': 1385112493907, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAADAawMCrHtA9DcOwHHmyeY='}]}
0:43:56.728665	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 036b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 71e6c9e6)
0:43:56.729665	LOG	Server <---------- DUT
0:43:56.731703	LOG	Count = 41
0:44:01.614679	LOG	First uplink received. Open reception window.
0:44:01.720821	LOG	PUSH_ACK: 02 5b2f 01
0:44:01.722789	LOG	GPS Time from gateway: 1385112498907
0:44:01.723788	LOG	PUSH_DATA: Protocol version = 02, Token = 5b2f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2658018956, 'time': '2023-11-27T09:27:59.907516Z', 'tmms': 1385112498907, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAADAbAMCjs/2CLP5r4CJDGY='}]}
0:44:01.725794	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 036c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 80890c66)
0:44:01.726799	LOG	Server <---------- DUT
0:44:01.728832	LOG	Count = 42
0:44:01.984261	LOG	GPS Time updated: 1385112499276
0:44:01.985774	LOG	PULL_DATA: 02 12fb 02 0016c001ff1025bf
0:44:01.986769	LOG	PULL_ACK: 02 12fb 04
0:44:06.620937	LOG	First uplink received. Open reception window.
0:44:06.737262	LOG	PUSH_ACK: 02 ccb2 01
0:44:06.739230	LOG	GPS Time from gateway: 1385112503907
0:44:06.740228	LOG	PUSH_DATA: Protocol version = 02, Token = ccb2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2663018697, 'time': '2023-11-27T09:28:04.907256Z', 'tmms': 1385112503907, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAADAbQMCgmm878ichh/izpE='}]}
0:44:06.742230	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 036d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1fe2ce91)
0:44:06.744230	LOG	Server <---------- DUT
0:44:06.746230	LOG	Count = 43
0:44:11.621246	LOG	First uplink received. Open reception window.
0:44:11.724107	LOG	PUSH_ACK: 02 2541 01
0:44:11.726074	LOG	GPS Time from gateway: 1385112508906

0:44:11.727073	LOG	PUSH_DATA: Protocol version = 02, Token = 2541, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2668018436, 'time': '2023-11-27T09:28:09.906993Z', 'tmms': 1385112508906, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAADAbgMCvJiY6boE7LlWR0Y='}]}
0:44:11.729080	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 036e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b9564746)
0:44:11.731086	LOG	Server <---------- DUT
0:44:11.732117	LOG	Count = 44
0:44:12.063259	LOG	GPS Time updated: 1385112509349
0:44:12.065295	LOG	PULL_DATA: 02 a6e2 02 0016c001ff1025bf
0:44:12.067274	LOG	PULL_ACK: 02 a6e2 04
0:44:16.616851	LOG	First uplink received. Open reception window.
0:44:16.730214	LOG	PUSH_ACK: 02 b26d 01
0:44:16.732216	LOG	GPS Time from gateway: 1385112513906
0:44:16.733216	LOG	PUSH_DATA: Protocol version = 02, Token = b26d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2673018175, 'time': '2023-11-27T09:28:14.906731Z', 'tmms': 1385112513906, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAADAbwMCgTGnVGKFJ61lwXA='}]}
0:44:16.734721	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 036f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ad65c170)
0:44:16.736728	LOG	Server <---------- DUT
0:44:16.738728	LOG	Count = 45
0:44:21.618723	LOG	First uplink received. Open reception window.
0:44:21.727128	LOG	PUSH_ACK: 02 7dbc 01
0:44:21.729095	LOG	GPS Time from gateway: 1385112518906
0:44:21.730095	LOG	PUSH_DATA: Protocol version = 02, Token = 7dbc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2678017911, 'time': '2023-11-27T09:28:19.906468Z', 'tmms': 1385112518906, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAADAcAMCAAMBkfwgjhfgUok='}]}
0:44:21.732102	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0370, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 17e05289)
0:44:21.733106	LOG	Server <---------- DUT
0:44:21.735668	LOG	Count = 46
0:44:22.144162	LOG	GPS Time updated: 1385112519431
0:44:22.145162	LOG	PULL_DATA: 02 e431 02 0016c001ff1025bf
0:44:22.147131	LOG	PULL_ACK: 02 e431 04
0:44:26.620941	LOG	First uplink received. Open reception window.
0:44:26.722793	LOG	PUSH_ACK: 02 7e6a 01
0:44:26.724761	LOG	GPS Time from gateway: 1385112523905
0:44:26.726265	LOG	PUSH_DATA: Protocol version = 02, Token = 7e6a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2683017663, 'time': '2023-11-27T09:28:24.906219Z', 'tmms': 1385112523905, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAADAcQMCqw7kL/4qo6H3wlE='}]}
0:44:26.728274	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0371, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a1f7c251)
0:44:26.730282	LOG	Server <---------- DUT
0:44:26.731280	LOG	Count = 47
0:44:31.616764	LOG	First uplink received. Open reception window.
0:44:31.718805	LOG	PUSH_ACK: 02 1c10 01
0:44:31.720805	LOG	GPS Time from gateway: 1385112528905
0:44:31.721775	LOG	PUSH_DATA: Protocol version = 02, Token = 1c10, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2688017396, 'time': '2023-11-27T09:28:29.905951Z',

		'tmms': 1385112528905, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAADAcgMC8pd5Yw7cugoJoOE='}]}
0:44:31.723811	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0372, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0a09a0e1)
0:44:31.725773	LOG	Server <---------- DUT
0:44:31.727774	LOG	Count = 48
0:44:32.224001	LOG	GPS Time updated: 1385112529513
0:44:32.225000	LOG	PULL_DATA: 02 e5bf 02 0016c001ff1025bf
0:44:32.227003	LOG	PULL_ACK: 02 e5bf 04
0:44:36.620868	LOG	First uplink received. Open reception window.
0:44:36.727063	LOG	PUSH_ACK: 02 bf36 01
0:44:36.729030	LOG	GPS Time from gateway: 1385112533905
0:44:36.730063	LOG	PUSH_DATA: Protocol version = 02, Token = bf36, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2693017143, 'time': '2023-11-27T09:28:34.905697Z', 'tmms': 1385112533905, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAADAcwMCtoXZUFqiwFlsVqc='}]}
0:44:36.732030	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0373, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 596c56a7)
0:44:36.733064	LOG	Server <---------- DUT
0:44:36.735613	LOG	Count = 49
0:44:41.614708	LOG	First uplink received. Open reception window.
0:44:41.728013	LOG	PUSH_ACK: 02 46bc 01
0:44:41.729564	LOG	GPS Time from gateway: 1385112538905
0:44:41.731565	LOG	PUSH_DATA: Protocol version = 02, Token = 46bc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2698016881, 'time': '2023-11-27T09:28:39.905434Z', 'tmms': 1385112538905, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAADAdAMCm0Mlr80kEIN60Yc='}]}
0:44:41.733573	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0374, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 837ad187)
0:44:41.735585	LOG	Server <---------- DUT
0:44:41.736585	LOG	Count = 50
0:44:42.303717	LOG	GPS Time updated: 1385112539594
0:44:42.305685	LOG	PULL_DATA: 02 eea1 02 0016c001ff1025bf
0:44:42.306685	LOG	PULL_ACK: 02 eea1 04
0:44:46.617721	LOG	First uplink received. Open reception window.
0:44:46.722954	LOG	PUSH_ACK: 02 eb01 01
0:44:46.724922	LOG	GPS Time from gateway: 1385112543904
0:44:46.725922	LOG	PUSH_DATA: Protocol version = 02, Token = eb01, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2703016631, 'time': '2023-11-27T09:28:44.905183Z', 'tmms': 1385112543904, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAADAdQMCCy+xp/bogYnWkMg='}]}
0:44:46.727928	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0375, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 89d690c8)
0:44:46.729966	LOG	Server <---------- DUT
0:44:46.730939	LOG	Count = 51
0:44:51.616990	LOG	First uplink received. Open reception window.
0:44:51.726879	LOG	PUSH_ACK: 02 9cb8 01
0:44:51.728877	LOG	GPS Time from gateway: 1385112548904
0:44:51.729878	LOG	PUSH_DATA: Protocol version = 02, Token = 9cb8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2708016378, 'time': '2023-11-27T09:28:49.904929Z', 'tmms': 1385112548904, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu':

		'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAADAdgMC/aJLz1hv3m6FRsY='}]}
0:44:51.731845	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0376, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6e8546c6)
0:44:51.732850	LOG	Server <---------- DUT
0:44:51.734891	LOG	Count = 52
0:44:52.383330	LOG	GPS Time updated: 1385112549671
0:44:52.385299	LOG	PULL_DATA: 02 b3d7 02 0016c001ff1025bf
0:44:52.387309	LOG	PULL_ACK: 02 b3d7 04
0:44:56.612041	LOG	First uplink received. Open reception window.
0:44:56.722335	LOG	PUSH_ACK: 02 c7d8 01
0:44:56.724299	LOG	GPS Time from gateway: 1385112553904
0:44:56.726300	LOG	PUSH_DATA: Protocol version = 02, Token = c7d8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2713016121, 'time': '2023-11-27T09:28:54.904671Z', 'tmms': 1385112553904, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAADAdwMCDubpwdQ1jfLXm+Y='}]}
0:44:56.727306	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0377, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f2d79be6)
0:44:56.729320	LOG	Server <---------- DUT
0:44:56.731321	LOG	Count = 53
0:45:01.615778	LOG	First uplink received. Open reception window.
0:45:01.724153	LOG	PUSH_ACK: 02 196d 01
0:45:01.726121	LOG	GPS Time from gateway: 1385112558904
0:45:01.727121	LOG	PUSH_DATA: Protocol version = 02, Token = 196d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2718015856, 'time': '2023-11-27T09:28:59.904405Z', 'tmms': 1385112558904, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAADAeAMCKXkMjigc30K7yCc='}]}
0:45:01.729162	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0378, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 42bbc827)
0:45:01.731126	LOG	Server <---------- DUT
0:45:01.732158	LOG	Count = 54
0:45:02.473598	LOG	GPS Time updated: 1385112559762
0:45:02.475569	LOG	PULL_DATA: 02 bbcb 02 0016c001ff1025bf
0:45:02.476566	LOG	PULL_ACK: 02 bbcb 04
0:45:06.613688	LOG	First uplink received. Open reception window.
0:45:06.728027	LOG	PUSH_ACK: 02 da38 01
0:45:06.729992	LOG	GPS Time from gateway: 1385112563903
0:45:06.730991	LOG	PUSH_DATA: Protocol version = 02, Token = da38, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2723015599, 'time': '2023-11-27T09:29:04.904147Z', 'tmms': 1385112563903, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAADAeQMCle4a5COSgYDtjng='}]}
0:45:06.733002	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0379, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 80ed8e78)
0:45:06.735013	LOG	Server <---------- DUT
0:45:06.737019	LOG	Count = 55
0:45:11.614553	LOG	First uplink received. Open reception window.
0:45:11.724307	LOG	PUSH_ACK: 02 6a06 01
0:45:11.726308	LOG	GPS Time from gateway: 1385112568903
0:45:11.727308	LOG	PUSH_DATA: Protocol version = 02, Token = 6a06, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2728015341, 'time': '2023-11-27T09:29:09.903888Z', 'tmms': 1385112568903, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAADAegMCDabwY8H6YazF6H4='}]}

0:45:11.729328	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 037a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: acc5e87e)
0:45:11.730315	LOG	Server <---------- DUT
0:45:11.732282	LOG	Count = 56
0:45:12.563318	LOG	GPS Time updated: 1385112569852
0:45:12.565285	LOG	PULL_DATA: 02 2886 02 0016c001ff1025bf
0:45:12.566795	LOG	PULL_ACK: 02 2886 04
0:45:16.615220	LOG	First uplink received. Open reception window.
0:45:16.730858	LOG	PUSH_ACK: 02 160e 01
0:45:16.732858	LOG	GPS Time from gateway: 1385112573903
0:45:16.733856	LOG	PUSH_DATA: Protocol version = 02, Token = 160e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2733015080, 'time': '2023-11-27T09:29:14.903625Z', 'tmms': 1385112573903, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAADAewMCZtc0lmGFkclmoxc='}]}
0:45:16.736370	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 037b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c966a317)
0:45:16.738366	LOG	Server <---------- DUT
0:45:16.739365	LOG	Count = 57
0:45:21.610320	LOG	First uplink received. Open reception window.
0:45:21.724954	LOG	PUSH_ACK: 02 45d5 01
0:45:21.726921	LOG	GPS Time from gateway: 1385112578903
0:45:21.727921	LOG	PUSH_DATA: Protocol version = 02, Token = 45d5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2738014828, 'time': '2023-11-27T09:29:19.903372Z', 'tmms': 1385112578903, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAADAfAMCkwpkojv9I3zsQTI='}]}
0:45:21.729927	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 037c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7cec4132)
0:45:21.730931	LOG	Server <---------- DUT
0:45:21.732935	LOG	Count = 58
0:45:22.643463	LOG	GPS Time updated: 1385112579938
0:45:22.645464	LOG	PULL_DATA: 02 4479 02 0016c001ff1025bf
0:45:22.646465	LOG	PULL_ACK: 02 4479 04
0:45:26.610031	LOG	First uplink received. Open reception window.
0:45:26.714888	LOG	PUSH_ACK: 02 7a8a 01
0:45:26.716892	LOG	GPS Time from gateway: 1385112583902
0:45:26.717890	LOG	PUSH_DATA: Protocol version = 02, Token = 7a8a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2743014569, 'time': '2023-11-27T09:29:24.903112Z', 'tmms': 1385112583902, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAADAfQMCwrUurIQHQt3Cayc='}]}
0:45:26.719893	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 037d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ddc26b27)
0:45:26.721900	LOG	Server <---------- DUT
0:45:26.722898	LOG	Count = 59
0:45:31.613653	LOG	First uplink received. Open reception window.
0:45:31.727023	LOG	PUSH_ACK: 02 3668 01
0:45:31.728991	LOG	GPS Time from gateway: 1385112588902
0:45:31.729991	LOG	PUSH_DATA: Protocol version = 02, Token = 3668, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2748014311, 'time': '2023-11-27T09:29:29.902855Z', 'tmms': 1385112588902, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAADAfgMCQcvXlIYVbJQNQ30='}]}
0:45:31.732000	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 037e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 940d437d)

0:45:31.734005	LOG	Server <---------- DUT
0:45:31.735510	LOG	Count = 60
0:45:32.723411	LOG	GPS Time updated: 1385112590012
0:45:32.725378	LOG	PULL_DATA: 02 2c21 02 0016c001ff1025bf
0:45:32.726378	LOG	PULL_ACK: 02 2c21 04
0:45:36.610179	LOG	First uplink received. Open reception window.
0:45:36.727016	LOG	PUSH_ACK: 02 69c8 01
0:45:36.728980	LOG	GPS Time from gateway: 1385112593902
0:45:36.729979	LOG	PUSH_DATA: Protocol version = 02, Token = 69c8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2753014059, 'time': '2023-11-27T09:29:34.902602Z', 'tmms': 1385112593902, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAADAfwMCCeeg5UVDQJyBYlg='}]}
0:45:36.731986	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 037f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9c816258)
0:45:36.733993	LOG	Server <---------- DUT
0:45:36.735530	LOG	Count = 61
0:45:41.610357	LOG	First uplink received. Open reception window.
0:45:41.713206	LOG	PUSH_ACK: 02 a0a1 01
0:45:41.715207	LOG	GPS Time from gateway: 1385112598902
0:45:41.717175	LOG	PUSH_DATA: Protocol version = 02, Token = a0a1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2758013796, 'time': '2023-11-27T09:29:39.902338Z', 'tmms': 1385112598902, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAADAgAMCipdw4IP7LI5HFgQ='}]}
0:45:41.719176	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0380, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8e471604)
0:45:41.720209	LOG	Server <---------- DUT
0:45:41.722256	LOG	Count = 62
0:45:42.803680	LOG	GPS Time updated: 1385112600096
0:45:42.804667	LOG	PULL_DATA: 02 f5b9 02 0016c001ff1025bf
0:45:42.806670	LOG	PULL_ACK: 02 f5b9 04
0:45:46.610601	LOG	First uplink received. Open reception window.
0:45:46.726241	LOG	PUSH_ACK: 02 0eb0 01
0:45:46.728208	LOG	GPS Time from gateway: 1385112603901
0:45:46.729208	LOG	PUSH_DATA: Protocol version = 02, Token = 0eb0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2763013544, 'time': '2023-11-27T09:29:44.902085Z', 'tmms': 1385112603901, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAADAgQMCc9lgEujxPicTZiw='}]}
0:45:46.731209	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0381, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2713662c)
0:45:46.732208	LOG	Server <---------- DUT
0:45:46.734208	LOG	Count = 63
0:45:51.616555	LOG	First uplink received. Open reception window.
0:45:51.720912	LOG	PUSH_ACK: 02 84e9 01
0:45:51.722877	LOG	GPS Time from gateway: 1385112608901
0:45:51.723877	LOG	PUSH_DATA: Protocol version = 02, Token = 84e9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2768013282, 'time': '2023-11-27T09:29:49.901822Z', 'tmms': 1385112608901, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAADAggMCeXlCc08Vxtz+Cq4='}]}
0:45:51.725882	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0382, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: dcfe0aae)
0:45:51.727896	LOG	Server <---------- DUT
0:45:51.728926	LOG	Count = 64

0:45:52.883440	LOG	GPS Time updated: 1385112610168
0:45:52.885404	LOG	PULL_DATA: 02 e90b 02 0016c001ff1025bf
0:45:52.886404	LOG	PULL_ACK: 02 e90b 04
0:45:56.630713	LOG	First uplink received. Open reception window.
0:45:56.742578	LOG	PUSH_ACK: 02 a753 01
0:45:56.744577	LOG	GPS Time from gateway: 1385112613923
0:45:56.745542	LOG	PUSH_DATA: Protocol version = 02, Token = a753, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2773035606, 'time': '2023-11-27T09:29:54.924145Z', 'tmms': 1385112613923, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.8, 'foff': -3201, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAgwMCKUKzAhIx4n0INto='}]}
0:45:56.747542	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0383, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7d0836da)
0:45:56.748575	LOG	Server <---------- DUT
0:45:56.750543	LOG	Count = 65
0:45:56.767143	LOG	Expected number of uplink messages have been received
0:45:56.771149	LOG	Step 09
0:45:56.777148	LOG	Step 10
0:45:56.781181	LOG	Test adaptive data rate control in frame header process starts
0:46:01.637345	LOG	First uplink received. Open reception window.
0:46:01.752828	LOG	PUSH_ACK: 02 11d0 01
0:46:01.754828	LOG	GPS Time from gateway: 1385112618923
0:46:01.755797	LOG	PUSH_DATA: Protocol version = 02, Token = 11d0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2778035345, 'time': '2023-11-27T09:29:59.923883Z', 'tmms': 1385112618923, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3201, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAhAMCPM+C/F+E5KDgCtg='}]}
0:46:01.757799	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0384, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a0e00ad8)
0:46:01.759819	LOG	Server <---------- DUT
0:46:01.760829	LOG	Count = 2
0:46:02.973460	LOG	GPS Time updated: 1385112620260
0:46:02.975461	LOG	PULL_DATA: 02 d927 02 0016c001ff1025bf
0:46:02.976462	LOG	PULL_ACK: 02 d927 04
0:46:06.631075	LOG	First uplink received. Open reception window.
0:46:06.740598	LOG	PUSH_ACK: 02 de1e 01
0:46:06.742629	LOG	GPS Time from gateway: 1385112623923
0:46:06.743624	LOG	PUSH_DATA: Protocol version = 02, Token = de1e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2783035082, 'time': '2023-11-27T09:30:04.923619Z', 'tmms': 1385112623923, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3201, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAhQMCT2+pCAuxVOi27bo='}]}
0:46:06.745592	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0385, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e8b6edba)
0:46:06.746624	LOG	Server <---------- DUT
0:46:06.748593	LOG	Count = 3
0:46:11.631459	LOG	First uplink received. Open reception window.
0:46:11.746813	LOG	PUSH_ACK: 02 9877 01
0:46:11.748848	LOG	GPS Time from gateway: 1385112628923
0:46:11.749815	LOG	PUSH_DATA: Protocol version = 02, Token = 9877, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2788034829, 'time': '2023-11-27T09:30:09.923365Z', 'tmms': 1385112628923, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3201, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAhgMC+cXbfJ45ukFBmF0='}]}
0:46:11.751815	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0386, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4141985d)

0:46:11.752821	LOG	Server <---------- DUT
0:46:11.754825	LOG	Count = 4
0:46:13.083613	LOG	GPS Time updated: 1385112630376
0:46:13.085580	LOG	PULL_DATA: 02 adce 02 0016c001ff1025bf
0:46:13.086616	LOG	PULL_ACK: 02 adce 04
0:46:16.632125	LOG	First uplink received. Open reception window.
0:46:16.737175	LOG	PUSH_ACK: 02 dfd9 01
0:46:16.739144	LOG	GPS Time from gateway: 1385112633922
0:46:16.740143	LOG	PUSH_DATA: Protocol version = 02, Token = dfd9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2793034569, 'time': '2023-11-27T09:30:14.923104Z', 'tmms': 1385112633922, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3217, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAhwMCI4ZLSF5zjqlxhEQ='}]}
0:46:16.742144	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0387, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a9718444)
0:46:16.743143	LOG	Server <---------- DUT
0:46:16.745143	LOG	Count = 5
0:46:21.632006	LOG	First uplink received. Open reception window.
0:46:21.735580	LOG	PUSH_ACK: 02 ef49 01
0:46:21.737617	LOG	GPS Time from gateway: 1385112638922
0:46:21.738624	LOG	PUSH_DATA: Protocol version = 02, Token = ef49, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2798034308, 'time': '2023-11-27T09:30:19.922841Z', 'tmms': 1385112638922, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.8, 'foff': -3217, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAiAMC+EfxlgKHd+gplWQ='}]}
0:46:21.740584	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0388, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e8299564)
0:46:21.741584	LOG	Server <---------- DUT
0:46:21.743587	LOG	Count = 6
0:46:23.163388	LOG	GPS Time updated: 1385112640453
0:46:23.165356	LOG	PULL_DATA: 02 a1c9 02 0016c001ff1025bf
0:46:23.166355	LOG	PULL_ACK: 02 a1c9 04
0:46:26.633769	LOG	First uplink received. Open reception window.
0:46:26.745496	LOG	PUSH_ACK: 02 6641 01
0:46:26.747531	LOG	GPS Time from gateway: 1385112643922
0:46:26.748531	LOG	PUSH_DATA: Protocol version = 02, Token = 6641, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2803034054, 'time': '2023-11-27T09:30:24.922586Z', 'tmms': 1385112643922, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3217, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAiQMCOjfMrKgmtWfrkqM='}]}
0:46:26.750498	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0389, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 67eb92a3)
0:46:26.751497	LOG	Server <---------- DUT
0:46:26.753503	LOG	Count = 7
0:46:31.628983	LOG	First uplink received. Open reception window.
0:46:31.729535	LOG	PUSH_ACK: 02 6a5b 01
0:46:31.731535	LOG	GPS Time from gateway: 1385112648921
0:46:31.732536	LOG	PUSH_DATA: Protocol version = 02, Token = 6a5b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2808033798, 'time': '2023-11-27T09:30:29.922329Z', 'tmms': 1385112648921, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3217, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAigMCWvyUMCr8w4R4llM='}]}
0:46:31.734541	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 038a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 84789653)
0:46:31.736088	LOG	Server <---------- DUT
0:46:31.737095	LOG	Count = 8

0:46:33.243195	LOG	GPS Time updated: 1385112650536
0:46:33.245199	LOG	PULL_DATA: 02 fa78 02 0016c001ff1025bf
0:46:33.246199	LOG	PULL_ACK: 02 fa78 04
0:46:36.630303	LOG	First uplink received. Open reception window.
0:46:36.739990	LOG	PUSH_ACK: 02 0c7e 01
0:46:36.741958	LOG	GPS Time from gateway: 1385112653921
0:46:36.742957	LOG	PUSH_DATA: Protocol version = 02, Token = 0c7e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2813033541, 'time': '2023-11-27T09:30:34.922073Z', 'tmms': 1385112653921, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3217, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAiwMCAubX8/8xUbiDG+w='}]}
0:46:36.744958	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 038b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b8831bec)
0:46:36.746462	LOG	Server <---------- DUT
0:46:36.747467	LOG	Count = 9
0:46:41.632095	LOG	First uplink received. Open reception window.
0:46:41.749013	LOG	PUSH_ACK: 02 8a09 01
0:46:41.750016	LOG	GPS Time from gateway: 1385112658921
0:46:41.752610	LOG	PUSH_DATA: Protocol version = 02, Token = 8a09, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2818033278, 'time': '2023-11-27T09:30:39.921809Z', 'tmms': 1385112658921, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.8, 'foff': -3217, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAjAMCE+vn5cYNlxoVXR8='}]}
0:46:41.753599	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 038c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1a155d1f)
0:46:41.755564	LOG	Server <---------- DUT
0:46:41.756564	LOG	Count = 10
0:46:43.333848	LOG	GPS Time updated: 1385112660621
0:46:43.334847	LOG	PULL_DATA: 02 489b 02 0016c001ff1025bf
0:46:43.336885	LOG	PULL_ACK: 02 489b 04
0:46:46.629005	LOG	First uplink received. Open reception window.
0:46:46.738149	LOG	PUSH_ACK: 02 d921 01
0:46:46.740153	LOG	GPS Time from gateway: 1385112663921
0:46:46.741153	LOG	PUSH_DATA: Protocol version = 02, Token = d921, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2823033023, 'time': '2023-11-27T09:30:44.921553Z', 'tmms': 1385112663921, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.8, 'foff': -3217, 'rssi': -50, 'size': 20, 'data': 'QAAAAADAjQMC+i+R7Nlwd5FvQ0I='}]}
0:46:46.743161	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 038d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 916f4342)
0:46:46.744153	LOG	Server <---------- DUT
0:46:46.746154	LOG	Count = 11
0:46:51.627387	LOG	First uplink received. Open reception window.
0:46:51.741251	LOG	PUSH_ACK: 02 c3b7 01
0:46:51.743251	LOG	GPS Time from gateway: 1385112668920
0:46:51.744255	LOG	PUSH_DATA: Protocol version = 02, Token = c3b7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2828032773, 'time': '2023-11-27T09:30:49.921302Z', 'tmms': 1385112668920, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3217, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAjgMCwNOZhqmpnDiJtlk='}]}
0:46:51.746259	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 038e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3889b659)
0:46:51.747259	LOG	Server <---------- DUT
0:46:51.749259	LOG	Count = 12
0:46:53.413500	LOG	GPS Time updated: 1385112670706
0:46:53.414500	LOG	PULL_DATA: 02 3fc0 02 0016c001ff1025bf

0:46:53.416467	LOG	PULL_ACK: 02 3fc0 04
0:46:56.630018	LOG	First uplink received. Open reception window.
0:46:56.747273	LOG	PUSH_ACK: 02 d9d7 01
0:46:56.749240	LOG	GPS Time from gateway: 1385112673920
0:46:56.750240	LOG	PUSH_DATA: Protocol version = 02, Token = d9d7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2833032509, 'time': '2023-11-27T09:30:54.921037Z', 'tmms': 1385112673920, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 15.0, 'foff': -3232, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAjwMCi+1GQ4qnydcnBiM='}]}
0:46:56.752245	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 038f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d7270623)
0:46:56.753244	LOG	Server <---------- DUT
0:46:56.755245	LOG	Count = 13
0:47:01.627839	LOG	First uplink received. Open reception window.
0:47:01.728130	LOG	PUSH_ACK: 02 3786 01
0:47:01.730130	LOG	GPS Time from gateway: 1385112678920
0:47:01.731131	LOG	PUSH_DATA: Protocol version = 02, Token = 3786, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2838032249, 'time': '2023-11-27T09:30:59.920776Z', 'tmms': 1385112678920, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3232, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAkAMCQD1025dKl7OZmaA='}]}
0:47:01.733147	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0390, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b39999a0)
0:47:01.734137	LOG	Server <---------- DUT
0:47:01.736137	LOG	Count = 14
0:47:03.493223	LOG	GPS Time updated: 1385112680786
0:47:03.495222	LOG	PULL_DATA: 02 a516 02 0016c001ff1025bf
0:47:03.496223	LOG	PULL_ACK: 02 a516 04
0:47:06.635343	LOG	First uplink received. Open reception window.
0:47:06.738380	LOG	PUSH_ACK: 02 5f95 01
0:47:06.740414	LOG	GPS Time from gateway: 1385112683920
0:47:06.741381	LOG	PUSH_DATA: Protocol version = 02, Token = 5f95, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2843031995, 'time': '2023-11-27T09:31:04.920521Z', 'tmms': 1385112683920, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3232, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAkQMCnqKjymbbUrr/cr4='}]}
0:47:06.743379	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0391, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: baff72be)
0:47:06.744379	LOG	Server <---------- DUT
0:47:06.746380	LOG	Count = 15
0:47:11.628117	LOG	First uplink received. Open reception window.
0:47:11.738609	LOG	PUSH_ACK: 02 5ec5 01
0:47:11.740611	LOG	GPS Time from gateway: 1385112688919
0:47:11.741612	LOG	PUSH_DATA: Protocol version = 02, Token = 5ec5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2848031731, 'time': '2023-11-27T09:31:09.920256Z', 'tmms': 1385112688919, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3232, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAkgMCuGEGi1LgYhNbnAg='}]}
0:47:11.743610	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0392, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 135b9c08)
0:47:11.745610	LOG	Server <---------- DUT
0:47:11.746611	LOG	Count = 16
0:47:13.583194	LOG	GPS Time updated: 1385112690874
0:47:13.585193	LOG	PULL_DATA: 02 42c8 02 0016c001ff1025bf
0:47:13.587164	LOG	PULL_ACK: 02 42c8 04
0:47:16.633075	LOG	First uplink received. Open reception window.

0:47:16.736317	LOG	PUSH_ACK: 02 213d 01
0:47:16.738354	LOG	GPS Time from gateway: 1385112693919
0:47:16.739353	LOG	PUSH_DATA: Protocol version = 02, Token = 213d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2853031480, 'time': '2023-11-27T09:31:14.920004Z', 'tmms': 1385112693919, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3232, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAkwMCiJPRKAr/uV7UAag='}]}
0:47:16.741323	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0393, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5ed401a8)
0:47:16.742353	LOG	Server <---------- DUT
0:47:16.744337	LOG	Count = 17
0:47:21.644999	LOG	First uplink received. Open reception window.
0:47:21.758347	LOG	PUSH_ACK: 02 402d 01
0:47:21.760349	LOG	GPS Time from gateway: 1385112698919
0:47:21.761348	LOG	PUSH_DATA: Protocol version = 02, Token = 402d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2858031219, 'time': '2023-11-27T09:31:19.919742Z', 'tmms': 1385112698919, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3232, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAlAMCV9Rap3rii7OL7HE='}]}
0:47:21.763353	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0394, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b38bec71)
0:47:21.764353	LOG	Server <---------- DUT
0:47:21.766353	LOG	Count = 18
0:47:23.664120	LOG	GPS Time updated: 1385112700945
0:47:23.665120	LOG	PULL_DATA: 02 bba2 02 0016c001ff1025bf
0:47:23.667144	LOG	PULL_ACK: 02 bba2 04
0:47:26.635000	LOG	First uplink received. Open reception window.
0:47:26.750830	LOG	PUSH_ACK: 02 2245 01
0:47:26.752807	LOG	GPS Time from gateway: 1385112703919
0:47:26.753806	LOG	PUSH_DATA: Protocol version = 02, Token = 2245, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2863030962, 'time': '2023-11-27T09:31:24.919484Z', 'tmms': 1385112703919, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3232, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAlQMCBQpWuA8wa//hoIE='}]}
0:47:26.755811	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0395, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ffe1a081)
0:47:26.756811	LOG	Server <---------- DUT
0:47:26.758811	LOG	Count = 19
0:47:31.634348	LOG	First uplink received. Open reception window.
0:47:31.743209	LOG	PUSH_ACK: 02 ab6a 01
0:47:31.745211	LOG	GPS Time from gateway: 1385112708918
0:47:31.746211	LOG	PUSH_DATA: Protocol version = 02, Token = ab6a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2868030698, 'time': '2023-11-27T09:31:29.919218Z', 'tmms': 1385112708918, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3232, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAlgMCh2Pp/DnFfOm8smU='}]}
0:47:31.748213	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0396, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e9bcb265)
0:47:31.749243	LOG	Server <---------- DUT
0:47:31.751211	LOG	Count = 20
0:47:33.744490	LOG	GPS Time updated: 1385112711027
0:47:33.745566	LOG	PULL_DATA: 02 e184 02 0016c001ff1025bf
0:47:33.747320	LOG	PULL_ACK: 02 e184 04
0:47:36.624642	LOG	First uplink received. Open reception window.
0:47:36.734280	LOG	PUSH_ACK: 02 8ba4 01
0:47:36.736280	LOG	GPS Time from gateway: 1385112713918

0:47:36.737389	LOG	PUSH_DATA: Protocol version = 02, Token = 8ba4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2873030446, 'time': '2023-11-27T09:31:34.918965Z', 'tmms': 1385112713918, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3232, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAlwMC51NgD1QYZYHDJhY='}]}
0:47:36.739399	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0397, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 81c32616)
0:47:36.740387	LOG	Server <---------- DUT
0:47:36.742424	LOG	Count = 21
0:47:41.626777	LOG	First uplink received. Open reception window.
0:47:41.730225	LOG	PUSH_ACK: 02 6414 01
0:47:41.732226	LOG	GPS Time from gateway: 1385112718918
0:47:41.733226	LOG	PUSH_DATA: Protocol version = 02, Token = 6414, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2878030180, 'time': '2023-11-27T09:31:39.918700Z', 'tmms': 1385112718918, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3232, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAmAMCv6SAyT3IdDIrwtg='}]}
0:47:41.735226	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0398, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 322bc2d8)
0:47:41.736226	LOG	Server <---------- DUT
0:47:41.738666	LOG	Count = 22
0:47:43.833543	LOG	GPS Time updated: 1385112721125
0:47:43.835217	LOG	PULL_DATA: 02 a29b 02 0016c001ff1025bf
0:47:43.836321	LOG	PULL_ACK: 02 a29b 04
0:47:46.625482	LOG	First uplink received. Open reception window.
0:47:46.739057	LOG	PUSH_ACK: 02 9b47 01
0:47:46.741056	LOG	GPS Time from gateway: 1385112723918
0:47:46.742055	LOG	PUSH_DATA: Protocol version = 02, Token = 9b47, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2883029935, 'time': '2023-11-27T09:31:44.918454Z', 'tmms': 1385112723918, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3232, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAmQMCMKeZOcIZrsl20FQ='}]}
0:47:46.744059	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 0399, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c976d054)
0:47:46.745057	LOG	Server <---------- DUT
0:47:46.747052	LOG	Count = 23
0:47:51.623435	LOG	First uplink received. Open reception window.
0:47:51.728843	LOG	PUSH_ACK: 02 b1fa 01
0:47:51.730855	LOG	GPS Time from gateway: 1385112728917
0:47:51.731841	LOG	PUSH_DATA: Protocol version = 02, Token = b1fa, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2888029664, 'time': '2023-11-27T09:31:49.918182Z', 'tmms': 1385112728917, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3232, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAmgMCMdwAuIvlpI8PmJk='}]}
0:47:51.733842	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 039a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8f0f9899)
0:47:51.734809	LOG	Server <---------- DUT
0:47:51.737356	LOG	Count = 24
0:47:53.913830	LOG	GPS Time updated: 1385112731207
0:47:53.915832	LOG	PULL_DATA: 02 dc11 02 0016c001ff1025bf
0:47:53.916865	LOG	PULL_ACK: 02 dc11 04
0:47:56.625963	LOG	First uplink received. Open reception window.
0:47:56.734961	LOG	PUSH_ACK: 02 fb3a 01
0:47:56.736464	LOG	GPS Time from gateway: 1385112733917
0:47:56.738485	LOG	PUSH_DATA: Protocol version = 02, Token = fb3a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2893029406, 'time': '2023-11-27T09:31:54.917923Z',

		'tmms': 1385112733917, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3232, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAmwMCLe1eLoZg7/p10bc='}]}
0:47:56.739469	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 039b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fa75d1b7)
0:47:56.741468	LOG	Server <---------- DUT
0:47:56.743471	LOG	Count = 25
0:48:01.632635	LOG	First uplink received. Open reception window.
0:48:01.744641	LOG	PUSH_ACK: 02 d63e 01
0:48:01.746640	LOG	GPS Time from gateway: 1385112738917
0:48:01.747640	LOG	PUSH_DATA: Protocol version = 02, Token = d63e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2898029155, 'time': '2023-11-27T09:31:59.917671Z', 'tmms': 1385112738917, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3247, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAnAMCvnsechkYCHARCbk='}]}
0:48:01.749619	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 039c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 701109b9)
0:48:01.750606	LOG	Server <---------- DUT
0:48:01.752674	LOG	Count = 26
0:48:03.993891	LOG	GPS Time updated: 1385112741278
0:48:03.995856	LOG	PULL_DATA: 02 02f7 02 0016c001ff1025bf
0:48:03.996856	LOG	PULL_ACK: 02 02f7 04
0:48:06.624847	LOG	First uplink received. Open reception window.
0:48:06.733989	LOG	PUSH_ACK: 02 7b43 01
0:48:06.735007	LOG	GPS Time from gateway: 1385112743917
0:48:06.737586	LOG	PUSH_DATA: Protocol version = 02, Token = 7b43, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2903028895, 'time': '2023-11-27T09:32:04.917410Z', 'tmms': 1385112743917, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3232, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAnQMC5me5/MBaTiQNM3c='}]}
0:48:06.738587	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 039d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 240d3377)
0:48:06.740553	LOG	Server <---------- DUT
0:48:06.741552	LOG	Count = 27
0:48:11.624718	LOG	First uplink received. Open reception window.
0:48:11.737893	LOG	PUSH_ACK: 02 e546 01
0:48:11.739891	LOG	GPS Time from gateway: 1385112748916
0:48:11.740892	LOG	PUSH_DATA: Protocol version = 02, Token = e546, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2908028645, 'time': '2023-11-27T09:32:09.917159Z', 'tmms': 1385112748916, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3232, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAngMCH4n0lXXWtzsaH0A='}]}
0:48:11.742894	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 039e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3b1a1f40)
0:48:11.743894	LOG	Server <---------- DUT
0:48:11.745895	LOG	Count = 28
0:48:14.073754	LOG	GPS Time updated: 1385112751364
0:48:14.074754	LOG	PULL_DATA: 02 7c90 02 0016c001ff1025bf
0:48:14.076754	LOG	PULL_ACK: 02 7c90 04
0:48:16.626870	LOG	First uplink received. Open reception window.
0:48:16.741205	LOG	PUSH_ACK: 02 b05d 01
0:48:16.743197	LOG	GPS Time from gateway: 1385112753916
0:48:16.744198	LOG	PUSH_DATA: Protocol version = 02, Token = b05d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2913028387, 'time': '2023-11-27T09:32:14.916900Z', 'tmms': 1385112753916, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3232, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAnwMCmKclvvHzTJY/KPY='}]}
0:48:16.746163	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 039f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 963f28f6)
0:48:16.747165	LOG	Server <---------- DUT
0:48:16.749165	LOG	Count = 29
0:48:21.630035	LOG	First uplink received. Open reception window.
0:48:21.734844	LOG	PUSH_ACK: 02 143b 01
0:48:21.736813	LOG	GPS Time from gateway: 1385112758916
0:48:21.737918	LOG	PUSH_DATA: Protocol version = 02, Token = 143b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2918028118, 'time': '2023-11-27T09:32:19.916630Z', 'tmms': 1385112758916, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3247, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAoAMCoLGJ00qi1x6wbLQ='}]}
0:48:21.739952	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 03a0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1eb06cb4)
0:48:21.740956	LOG	Server <---------- DUT
0:48:21.741950	LOG	Count = 30
0:48:24.152933	LOG	GPS Time updated: 1385112761438
0:48:24.154933	LOG	PULL_DATA: 02 014f 02 0016c001ff1025bf
0:48:24.156903	LOG	PULL_ACK: 02 014f 04
0:48:26.631953	LOG	First uplink received. Open reception window.
0:48:26.738374	LOG	PUSH_ACK: 02 0665 01
0:48:26.740373	LOG	GPS Time from gateway: 1385112763915
0:48:26.742341	LOG	PUSH_DATA: Protocol version = 02, Token = 0665, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2923027859, 'time': '2023-11-27T09:32:24.916370Z', 'tmms': 1385112763915, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3232, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAoQMCEsyUZ4dkiMSBITM='}]}
0:48:26.743373	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 03a1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c4812133)
0:48:26.745347	LOG	Server <---------- DUT
0:48:26.746341	LOG	Count = 31
0:48:31.622142	LOG	First uplink received. Open reception window.
0:48:31.728693	LOG	PUSH_ACK: 02 63a8 01
0:48:31.730690	LOG	GPS Time from gateway: 1385112768915
0:48:31.731690	LOG	PUSH_DATA: Protocol version = 02, Token = 63a8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2928027609, 'time': '2023-11-27T09:32:29.916119Z', 'tmms': 1385112768915, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3247, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAogMCttJIHbh9sdffnV8='}]}
0:48:31.733694	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 03a2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d7df9d5f)
0:48:31.734696	LOG	Server <---------- DUT
0:48:31.737181	LOG	Count = 32
0:48:34.243900	LOG	GPS Time updated: 1385112771536
0:48:34.245868	LOG	PULL_DATA: 02 00fe 02 0016c001ff1025bf
0:48:34.246900	LOG	PULL_ACK: 02 00fe 04
0:48:41.648868	LOG	First uplink received. Open reception window.
0:48:41.753061	LOG	PUSH_ACK: 02 f9cc 01
0:48:41.755025	LOG	GPS Time from gateway: 1385112778943
0:48:41.757027	LOG	PUSH_DATA: Protocol version = 02, Token = f9cc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2938055384, 'time': '2023-11-27T09:32:39.943891Z', 'tmms': 1385112778943, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3259, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAowMCps81nhomGihOHsA='}]}

0:48:41.758062	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 03a3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 284e1ec0)
0:48:41.759058	LOG	Server <---------- DUT
0:48:41.761029	LOG	Count = 33
0:48:41.771111	LOG	Expected number of uplink messages have been received
0:48:41.775146	LOG	Step 11
0:48:41.778113	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:48:44.323171	LOG	GPS Time updated: 1385112781618
0:48:44.325139	LOG	PULL_DATA: 02 c2f4 02 0016c001ff1025bf
0:48:44.326139	LOG	PULL_ACK: 02 c2f4 04
0:48:46.651389	LOG	First uplink received. Open reception window.
0:48:46.754316	LOG	PUSH_ACK: 02 0699 01
0:48:46.756318	LOG	GPS Time from gateway: 1385112783943
0:48:46.757317	LOG	PUSH_DATA: Protocol version = 02, Token = 0699, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2943055132, 'time': '2023-11-27T09:32:44.943640Z', 'tmms': 1385112783943, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3255, 'rssi': -51, 'size': 20, 'data': 'QAAAAADApAMCCNKnx5z2jmco5no='}]}
0:48:46.759318	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 03a4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6728e67a)
0:48:46.760319	LOG	Server <---------- DUT
0:48:46.763320	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:48:46.765320	LOG	ADRACKReq bit is activated
0:48:46.768368	LOG	ADRACKReq bit from DUT tested successfully
0:48:46.771373	LOG	Check previous uplink data rate process starts
0:48:46.776420	LOG	Uplink received with expected Data Rate
0:48:46.780422	LOG	Step 12
0:48:46.783433	LOG	Receive frame on specific channels process starts
0:48:46.793379	LOG	Attempt 1/15
0:48:51.655446	LOG	First uplink received. Open reception window.
0:48:51.761303	LOG	PUSH_ACK: 02 3209 01
0:48:51.763303	LOG	GPS Time from gateway: 1385112788942
0:48:51.765281	LOG	PUSH_DATA: Protocol version = 02, Token = 3209, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2948054872, 'time': '2023-11-27T09:32:49.943379Z', 'tmms': 1385112788942, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3255, 'rssi': -51, 'size': 20, 'data': 'QAAAAADApQMCqq9GQOP8XJaV9GI='}]}
0:48:51.766308	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 03a5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9695f462)
0:48:51.768300	LOG	Server <---------- DUT
0:48:51.769811	LOG	Attempt 2/15
0:48:54.413714	LOG	GPS Time updated: 1385112791700
0:48:54.414714	LOG	PULL_DATA: 02 90ad 02 0016c001ff1025bf
0:48:54.416715	LOG	PULL_ACK: 02 90ad 04
0:48:56.653216	LOG	First uplink received. Open reception window.
0:48:56.763754	LOG	PUSH_ACK: 02 4cb5 01
0:48:56.765755	LOG	GPS Time from gateway: 1385112793942
0:48:56.766755	LOG	PUSH_DATA: Protocol version = 02, Token = 4cb5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2953054604, 'time': '2023-11-27T09:32:54.943110Z', 'tmms': 1385112793942, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3263, 'rssi': -51, 'size': 20, 'data': 'QAAAAADApgMCR6NpHiWewIWDm7s='}]}
0:48:56.768261	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 03a6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 85839bbb)
0:48:56.770267	LOG	Server <---------- DUT
0:48:56.771266	LOG	Attempt 3/15

0:49:01.655745	LOG	First uplink received. Open reception window.
0:49:01.768455	LOG	PUSH_ACK: 02 e431 01
0:49:01.769963	LOG	GPS Time from gateway: 1385112798942
0:49:01.771964	LOG	PUSH_DATA: Protocol version = 02, Token = e431, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2958054352, 'time': '2023-11-27T09:32:59.942857Z', 'tmms': 1385112798942, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3267, 'rssi': -51, 'size': 20, 'data': 'QAAAAADApwMCpWKCiZAVzTu4bfE='}]}
0:49:01.772962	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 03a7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3bb86df1)
0:49:01.773963	LOG	Server <---------- DUT
0:49:01.777903	LOG	Receive frame on specific channels process tested successfully
0:49:01.781641	LOG	Step 13
0:49:01.784650	LOG	Send LinkADRReq process starts
0:49:04.493713	LOG	GPS Time updated: 1385112801779
0:49:04.494713	LOG	PULL_DATA: 02 fb60 02 0016c001ff1025bf
0:49:04.496716	LOG	PULL_ACK: 02 fb60 04
0:49:06.657550	LOG	First uplink received. Open reception window.
0:49:06.769338	LOG	PUSH_ACK: 02 c1ac 01
0:49:06.771305	LOG	GPS Time from gateway: 1385112803942
0:49:06.772305	LOG	PUSH_DATA: Protocol version = 02, Token = c1ac, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2963054088, 'time': '2023-11-27T09:33:04.942592Z', 'tmms': 1385112803942, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3263, 'rssi': -51, 'size': 20, 'data': 'QAAAAADAqAMCC4f5WgAihyNLH9s='}]}
0:49:06.774305	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: c0, FCnt: 03a8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 234b1fdb)
0:49:06.775307	LOG	Server <---------- DUT
0:49:06.777305	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0171, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: 9823e78b)
0:49:06.779305	LOG	PULL_RESP: Protocol version = 02, Token = ea79, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2965054088, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAcQEAQtMbVoaYI+eL'}}
0:49:06.780304	LOG	Server ----------> DUT
0:49:06.784821	LOG	TX_ACK: 02 ea79 05 0016c001ff1025bf
0:49:11.652553	LOG	First uplink received. Open reception window.
0:49:11.761450	LOG	PUSH_ACK: 02 e7be 01
0:49:11.763419	LOG	GPS Time from gateway: 1385112808941
0:49:11.765419	LOG	PUSH_DATA: Protocol version = 02, Token = e7be, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2968053928, 'time': '2023-11-27T09:33:09.942431Z', 'tmms': 1385112808941, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3274, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCqQMDBwIfkGJN3+tY0ArW6A==='}]}
0:49:11.766426	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 03a9, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: d00ad6e8)
0:49:11.768431	LOG	Server <---------- DUT
0:49:11.770701	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:49:11.771736	LOG	Command Answer: 0307
0:49:11.778110	LOG	MAC command communication completed
0:49:11.781109	LOG	Check previous uplink data rate process starts
0:49:11.785115	LOG	Uplink received with expected Data Rate
0:49:11.789622	LOG	Step 14
0:49:11.792622	LOG	ADRACKReq bit is disabled
0:49:11.794624	LOG	ADRACKReq bit from DUT tested successfully

0:49:11.797639	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:49:14.552956	LOG	GPS Time updated: 1385112811842
0:49:14.554992	LOG	PULL_DATA: 02 24ed 02 0016c001ff1025bf
0:49:14.555988	LOG	PULL_ACK: 02 24ed 04
0:49:16.648578	LOG	First uplink received. Open reception window.
0:49:16.751156	LOG	PUSH_ACK: 02 2387 01
0:49:16.753158	LOG	GPS Time from gateway: 1385112813941
0:49:16.754163	LOG	PUSH_DATA: Protocol version = 02, Token = 2387, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2973053570, 'time': '2023-11-27T09:33:14.942072Z', 'tmms': 1385112813941, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3271, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAqgMCfudq9rIS2AvlL9k='}]}
0:49:16.756163	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03aa, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0be52fd9)
0:49:16.757164	LOG	Server <---------- DUT
0:49:16.759164	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0172, FOpts:), FPort: e0, FRMPayload: 0501), MIC: f0185721)
0:49:16.760163	LOG	Frame command sent to the DUT
0:49:16.762162	LOG	PULL_RESP: Protocol version = 02, Token = a7cb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2975053570, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAcgHglfTwGFch'}}
0:49:16.763163	LOG	Server ----------> DUT
0:49:16.765163	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:49:16.769691	LOG	Step 16-17
0:49:16.773687	LOG	Send NewChannelReq process starts
0:49:21.653554	LOG	First uplink received. Open reception window.
0:49:21.770166	LOG	PUSH_ACK: 02 9523 01
0:49:21.772134	LOG	GPS Time from gateway: 1385112818941
0:49:21.773134	LOG	PUSH_DATA: Protocol version = 02, Token = 9523, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2978053308, 'time': '2023-11-27T09:33:19.941809Z', 'tmms': 1385112818941, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3278, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAqwMCu0iJhBHftysyqlY='}]}
0:49:21.775134	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03ab, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2b32aa56)
0:49:21.776134	LOG	Server <---------- DUT
0:49:21.778135	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0173, FOpts:), FPort: 00, FRMPayload: 070300000050), MIC: f83be137)
0:49:21.780135	LOG	PULL_RESP: Protocol version = 02, Token = 3fa6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2980053308, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YAAAAAAAcwEAtlIYXa8v+DvhNw=='}}
0:49:21.781134	LOG	Server ----------> DUT
0:49:21.785172	LOG	TX_ACK: 02 3fa6 05 0016c001ff1025bf
0:49:24.731050	LOG	GPS Time updated: 1385112822019
0:49:24.733028	LOG	PULL_DATA: 02 8685 02 0016c001ff1025bf
0:49:24.734071	LOG	PULL_ACK: 02 8685 04
0:49:26.653665	LOG	First uplink received. Open reception window.
0:49:26.763689	LOG	PUSH_ACK: 02 d47f 01
0:49:26.765684	LOG	GPS Time from gateway: 1385112823941
0:49:26.766701	LOG	PUSH_DATA: Protocol version = 02, Token = d47f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2983053156, 'time': '2023-11-27T09:33:24.941656Z', 'tmms': 1385112823941, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3278, 'rssi': -52, 'size': 22, 'data': 'QAAAAACCrAMHAwL9fAiH493gbugdNg=='}]}

0:49:26.768662	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 03ac, FOpts: 0703), FPort: 02, FRMPayload: 00000001020000, MIC: 6ee81d36)
0:49:26.770673	LOG	Server <---------- DUT
0:49:26.771666	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:49:26.773666	LOG	Command Answer: 0703
0:49:26.778679	LOG	MAC command communication completed
0:49:26.782680	LOG	Step 17-18
0:49:26.785669	LOG	Send NewChannelReq process starts
0:49:31.646966	LOG	First uplink received. Open reception window.
0:49:31.750680	LOG	PUSH_ACK: 02 5197 01
0:49:31.752681	LOG	GPS Time from gateway: 1385112828940
0:49:31.753681	LOG	PUSH_DATA: Protocol version = 02, Token = 5197, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2988052800, 'time': '2023-11-27T09:33:29.941298Z', 'tmms': 1385112828940, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3282, 'rssi': -51, 'size': 20, 'data': 'QAAAAACArQMCEOLHI7vVDAzVRM0='}]}
0:49:31.755725	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03ad, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0cd544cd)
0:49:31.756723	LOG	Server <---------- DUT
0:49:31.758725	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0174, FOpts:), FPort: 00, FRMPayload: 070400000050), MIC: e1747b52)
0:49:31.760724	LOG	PULL_RESP: Protocol version = 02, Token = daf7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2990052800, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YAAAAAAAdAEA59QrkF1/4XR7Ug=='}}
0:49:31.761726	LOG	Server ----------> DUT
0:49:31.764644	LOG	TX_ACK: 02 daf7 05 0016c001ff1025bf
0:49:34.913635	LOG	GPS Time updated: 1385112832206
0:49:34.914639	LOG	PULL_DATA: 02 7357 02 0016c001ff1025bf
0:49:34.916636	LOG	PULL_ACK: 02 7357 04
0:49:36.691908	LOG	First uplink received. Open reception window.
0:49:36.792221	LOG	PUSH_ACK: 02 30a6 01
0:49:36.794189	LOG	GPS Time from gateway: 1385112833976
0:49:36.795189	LOG	PUSH_DATA: Protocol version = 02, Token = 30a6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2993088623, 'time': '2023-11-27T09:33:34.977122Z', 'tmms': 1385112833976, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3282, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCrgMHAwJ11rOdwcCf+nADcw=='}]}
0:49:36.797190	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 03ae, FOpts: 0703), FPort: 02, FRMPayload: 00000001020000, MIC: fa700373)
0:49:36.798194	LOG	Server <---------- DUT
0:49:36.800705	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:49:36.801703	LOG	Command Answer: 0703
0:49:36.806939	LOG	MAC command communication completed
0:49:36.813446	LOG	End Test Step: Data Rate Decay for optional data rates
0:49:36.817451	LOG	Partial Verdict: PASS
0:49:36.820451	LOG	==========
0:49:36.825453	LOG	==========
0:49:36.827453	LOG	Start Test Step: Data Rate Decay for optional data rates LR-FHSS
0:49:36.842858	LOG	End Test Step: Data Rate Decay for optional data rates LR-FHSS
0:49:36.845857	LOG	TEST STEP NOT APPLICABLE
0:49:36.848899	LOG	==========
0:49:36.851895	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_012_B
0:49:36.853896	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_013	
Verdict	PASS	
Date	2023-11-27 10:33:37	
Description		
Technology Version	LCTT v3.11.0_R1 | GUI v2.6.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.3	
Test Specs Version	USv1.5.1/EUv1.6.2/KRv1.2.1/ASv1.1.1/INv1.1.1/ALL_Av1.6/ALL_Cv1.0/ ALL_Bv1.0/SCHCv1.1/ALPv1.0	
Project	ref-stack	
Project Creation Date	2023-10-04 09:10:20	
Sample Parameters		
	Conformance	TRUE

Time Stamp (ms)	Event	Summary
0:00:00.009170	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_013
0:00:00.067244	LOG	==========
0:00:00.069229	LOG	Start Test Step: Device activation
0:00:00.150890	LOG	Activation process has finished successfully
0:00:00.152889	LOG	Data stored in the DUT after Activation:
0:00:00.155892	LOG	DevAddr: 00000000
0:00:00.158891	LOG	AppEUI: 0000000000000000
0:00:00.160903	LOG	NwkSKey: 6bfb58c6a233389e6e66450a9e520a70
0:00:00.163897	LOG	AppSKey: ded4e508ab9cede444c3765e0533fcac
0:00:00.166897	LOG	End Test Step: Device activation
0:00:00.170896	LOG	Partial Verdict: PASS
0:00:00.175407	LOG	==========
0:00:00.179409	LOG	==========
0:00:00.182407	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.190412	LOG	DUT Pre-condition activation process starts
0:00:00.193411	LOG	DUT Pre-condition activation completed
0:00:00.196412	LOG	End Test Step: DUT Pre-condition settings
0:00:00.200409	LOG	Partial Verdict: PASS
0:00:00.204411	LOG	==========
0:00:00.208923	LOG	==========
0:00:00.210923	LOG	Start Test Step: Test DutyCycleReq MAC Command
0:00:00.220427	LOG	Step 01-02
0:00:00.224430	LOG	Send LinkADRReq process starts
0:00:01.647723	LOG	PUSH_DATA received while waiting first PULL_DATA
0:00:06.648778	LOG	PUSH_DATA received while waiting first PULL_DATA
0:00:10.072288	LOG	GPS Time updated: 1385112842401
0:00:10.074240	LOG	PULL_DATA: 02 1d54 02 0016c001ff1025bf
0:00:10.075256	LOG	PULL_ACK: 02 1d54 04
0:00:11.651409	LOG	First uplink received. Open reception window.
0:00:11.758791	LOG	PUSH_ACK: 02 7304 01
0:00:11.760785	LOG	GPS Time from gateway: 1385112853939
0:00:11.762788	LOG	PUSH_DATA: Protocol version = 02, Token = 7304, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3013051511, 'time': '2023-11-27T09:33:54.940006Z', 'tmms': 1385112853939, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3297, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAsgMCHZoLCaemVxaAs7Y='}]}
0:00:11.763756	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03b2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1680b3b6)
0:00:11.765756	LOG	Server <---------- DUT

0:00:11.768261	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0175, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: 983fce9a)
0:00:11.770267	LOG	PULL_RESP: Protocol version = 02, Token = d49d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3015051511, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAdQEAQTRWk8SYP86a'}}
0:00:11.772267	LOG	Server ----------> DUT
0:00:11.776267	LOG	TX_ACK: 02 d49d 05 0016c001ff1025bf
0:00:16.652773	LOG	First uplink received. Open reception window.
0:00:16.767749	LOG	PUSH_ACK: 02 1297 01
0:00:16.769943	LOG	GPS Time from gateway: 1385112858939
0:00:16.770942	LOG	PUSH_DATA: Protocol version = 02, Token = 1297, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3018051353, 'time': '2023-11-27T09:33:59.939847Z', 'tmms': 1385112858939, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3293, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCswMDBwJirtyr51pTrwTqmw=='}]}
0:00:16.772942	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 03b3, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: af04ea9b)
0:00:16.773910	LOG	Server <---------- DUT
0:00:16.775909	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:16.777912	LOG	Command Answer: 0307
0:00:16.784920	LOG	MAC command communication completed
0:00:16.788920	LOG	Step 02-03
0:00:16.791921	LOG	Send DutyCycleReq process starts
0:00:20.172419	LOG	GPS Time updated: 1385112862459
0:00:20.173924	LOG	PULL_DATA: 02 f235 02 0016c001ff1025bf
0:00:20.174930	LOG	PULL_ACK: 02 f235 04
0:00:21.643782	LOG	First uplink received. Open reception window.
0:00:21.744499	LOG	PUSH_ACK: 02 1f87 01
0:00:21.746501	LOG	GPS Time from gateway: 1385112863939
0:00:21.747502	LOG	PUSH_DATA: Protocol version = 02, Token = 1f87, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3023050995, 'time': '2023-11-27T09:34:04.939488Z', 'tmms': 1385112863939, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3286, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAtAMCHYtQ1wDrHCfLl6g='}]}
0:00:21.749470	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03b4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 27cb97a8)
0:00:21.750507	LOG	Server <---------- DUT
0:00:21.752469	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0176, FOpts:), FPort: 00, FRMPayload: 0407), MIC: f8dab5e0)
0:00:21.754476	LOG	PULL_RESP: Protocol version = 02, Token = a6aa, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3025050995, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAdgEAF0742rXg'}}
0:00:21.755475	LOG	Server ----------> DUT
0:00:21.757476	LOG	TX_ACK: 02 a6aa 05 0016c001ff1025bf
0:00:30.361798	LOG	GPS Time updated: 1385112872657
0:00:30.363803	LOG	PULL_DATA: 02 0c2d 02 0016c001ff1025bf
0:00:30.364803	LOG	PULL_ACK: 02 0c2d 04
0:00:31.648092	LOG	First uplink received. Open reception window.
0:00:31.757015	LOG	PUSH_ACK: 02 245d 01
0:00:31.759017	LOG	GPS Time from gateway: 1385112873938
0:00:31.760018	LOG	PUSH_DATA: Protocol version = 02, Token = 245d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3033050557, 'time': '2023-11-27T09:34:14.939047Z', 'tmms': 1385112873938, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3297, 'rssi': -51, 'size': 21, 'data': 'QAAAAACBtQMEAopjvS1xwTjVdEPL'}]}
0:00:31.761985	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 81, FCnt: 03b5, FOpts: 04), FPort: 02, FRMPayload: 00000001020000, MIC: d57443cb)
0:00:31.763018	LOG	Server <---------- DUT
0:00:31.764984	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:31.765985	LOG	Command Answer: 04
0:00:31.770497	LOG	MAC command communication completed
0:00:31.778496	LOG	Calculated Time on air for previous uplink (in seconds): 0.056576
0:00:31.780496	LOG	Calculated Toff for previous uplink (in seconds): 7.185
0:00:31.784502	LOG	Step 04
0:00:31.787500	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:00:40.472457	LOG	GPS Time updated: 1385112882762
0:00:40.473460	LOG	PULL_DATA: 02 c497 02 0016c001ff1025bf
0:00:40.475425	LOG	PULL_ACK: 02 c497 04
0:00:41.653231	LOG	First uplink received. Open reception window.
0:00:41.755964	LOG	PUSH_ACK: 02 b5f4 01
0:00:41.756932	LOG	GPS Time from gateway: 1385112883937
0:00:41.759442	LOG	PUSH_DATA: Protocol version = 02, Token = b5f4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3043049949, 'time': '2023-11-27T09:34:24.938439Z', 'tmms': 1385112883937, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3308, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAtgMCnzb9Jm5IeMYCqbU='}]}
0:00:41.760442	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03b6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c602a9b5)
0:00:41.761442	LOG	Server <---------- DUT
0:00:41.764444	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:00:41.770952	LOG	Calculated Time on air for previous uplink (in seconds): 0.056576
0:00:41.772956	LOG	Calculated Toff for previous uplink (in seconds): 7.185
0:00:41.780990	LOG	Step 04-05
0:00:41.785000	LOG	Send Test Command EchoPayloadReq process starts
0:00:41.787999	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0177, FOpts:), FPort: e0, FRMPayload: 08010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 02cca5a6)
0:00:41.789997	LOG	Frame command sent to the DUT
0:00:41.791999	LOG	PULL_RESP: Protocol version = 02, Token = 6d5f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3045049949, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 53, 'data': 'YAAAAAAAdwHg9UqWo4LFpF98ccCvgjDFMqgHNirKmAOzEdfs+wnOsBpJ80ZUSMT4UgLMpaY='}}
0:00:41.793032	LOG	Server ----------> DUT
0:00:41.796038	LOG	TX_ACK: 02 6d5f 05 0016c001ff1025bf
0:00:48.997913	LOG	First uplink received. Open reception window.
0:00:49.099759	LOG	PUSH_ACK: 02 3d15 01
0:00:49.101728	LOG	GPS Time from gateway: 1385112891283
0:00:49.102727	LOG	PUSH_DATA: Protocol version = 02, Token = 3d15, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3050395202, 'time': '2023-11-27T09:34:32.283690Z', 'tmms': 1385112891283, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3305, 'rssi': -51, 'size': 53, 'data': 'QAAAAACAtwPg2RkL6Q9kBAfVIYwkU6gUHpF/gmJdK7cbm8Lgsc27kY1jo5JdPvrrZq07e0U='}]}

0:00:49.103731	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03b7, FOpts:), FPort: e0, FRMPayload: 0802020202020202020202020202020202020202020202020202020202020202020202020 2020202020202, MIC: ad3b7b45)
0:00:49.105733	LOG	Server <-------------------- DUT
0:00:49.106732	LOG	Frame Command Payload in the Answer: 0802020202020202020202020202020202020202020202020202020202020202020202020 2020202020202
0:00:49.110812	LOG	Checking if the payload of the EchoPayloadAns is correct
0:00:49.114939	LOG	Send Test Command EchoPayloadReq process completed
0:00:49.121482	LOG	Calculated Time on air for previous uplink (in seconds): 0.10265600000000001
0:00:49.123451	LOG	Calculated Toff for previous uplink (in seconds): 13.037
0:00:49.129454	LOG	Step 06
0:00:49.132054	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:00:50.611992	LOG	GPS Time updated: 1385112892897
0:00:50.613392	LOG	PULL_DATA: 02 b491 02 0016c001ff1025bf
0:00:50.615391	LOG	PULL_ACK: 02 b491 04
0:01:00.692326	LOG	GPS Time updated: 1385112902978
0:01:00.693325	LOG	PULL_DATA: 02 c89f 02 0016c001ff1025bf
0:01:00.695295	LOG	PULL_ACK: 02 c89f 04
0:01:02.692719	LOG	First uplink received. Open reception window.
0:01:02.797113	LOG	PUSH_ACK: 02 9b60 01
0:01:02.798081	LOG	GPS Time from gateway: 1385112904981
0:01:02.799590	LOG	PUSH_DATA: Protocol version = 02, Token = 9b60, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3064092811, 'time': '2023-11-27T09:34:45.981297Z', 'tmms': 1385112904981, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3309, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAuAMCw5px7aM3Fwd1yZA='}]}
0:01:02.801596	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03b8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0775c990)
0:01:02.802596	LOG	Server <-------------------- DUT
0:01:02.806633	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:01:02.814596	LOG	End Test Step: Test DutyCycleReq MAC Command
0:01:02.818635	LOG	Partial Verdict: PASS
0:01:02.821634	LOG	==
0:01:02.825602	LOG	==
0:01:02.828600	LOG	Start Test Step: Restore default DutyCycle
0:01:02.840111	LOG	Step 06-07
0:01:02.844112	LOG	Send DutyCycleReq process starts
0:01:10.782627	LOG	GPS Time updated: 1385112913070
0:01:10.783657	LOG	PULL_DATA: 02 3eb8 02 0016c001ff1025bf
0:01:10.785171	LOG	PULL_ACK: 02 3eb8 04
0:01:12.689506	LOG	First uplink received. Open reception window.
0:01:12.799733	LOG	PUSH_ACK: 02 b4b1 01
0:01:12.801927	LOG	GPS Time from gateway: 1385112914981
0:01:12.802928	LOG	PUSH_DATA: Protocol version = 02, Token = b4b1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3074092300, 'time': '2023-11-27T09:34:55.980784Z', 'tmms': 1385112914981, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.8, 'foff': -3305, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAuQMCxZz5fgDyC9XOYyo='}]}
0:01:12.803931	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03b9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d5ce632a)
0:01:12.805895	LOG	Server <-------------------- DUT
0:01:12.807897	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0178, FOpts:), FPort: 00, FRMPayload: 0400), MIC: 1ecfc362)

0:01:12.808927	LOG	PULL_RESP: Protocol version = 02, Token = be46, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3076092300, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAeAEAnwwez8Ni'}}
0:01:12.810928	LOG	Server ----------> DUT
0:01:12.813439	LOG	TX_ACK: 02 be46 05 0016c001ff1025bf
0:01:17.689223	LOG	First uplink received. Open reception window.
0:01:17.801853	LOG	PUSH_ACK: 02 bcc7 01
0:01:17.803820	LOG	GPS Time from gateway: 1385112919981
0:01:17.804821	LOG	PUSH_DATA: Protocol version = 02, Token = bcc7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3079092126, 'time': '2023-11-27T09:35:00.980609Z', 'tmms': 1385112919981, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3309, 'rssi': -51, 'size': 21, 'data': 'QAAAAACBugMEAqaDX9xN8x0OT7h/'}]}
0:01:17.805821	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 81, FCnt: 03ba, FOpts: 04), FPort: 02, FRMPayload: 00000001020000, MIC: 0e4fb87f)
0:01:17.807856	LOG	Server <---------- DUT
0:01:17.808854	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:17.810853	LOG	Command Answer: 04
0:01:17.814594	LOG	MAC command communication completed
0:01:17.816674	LOG	End Test Step: Restore default DutyCycle
0:01:17.820643	LOG	Partial Verdict: PASS
0:01:17.824677	LOG	==========
0:01:17.828677	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_013
0:01:17.829674	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_014	
Verdict	PASS	
Date	2023-11-27 10:35:02	
Description		
Technology Version	LCTT v3.11.0_R1 | GUI v2.6.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.3	
Test Specs Version	USv1.5.1/EUv1.6.2/KRv1.2.1/ASv1.1.1/INv1.1.1/ALL_Av1.6/ALL_Cv1.0/ALL_Bv1.0/SCHCv1.1/ALPv1.0	
Project	ref-stack	
Project Creation Date	2023-10-04 09:10:20	
Sample Parameters		
	Conformance	TRUE

Time Stamp (ms)	Event	Summary
0:00:00.009014	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_014
0:00:00.068288	LOG	==========
0:00:00.070325	LOG	Start Test Step: Device activation
0:00:00.152459	LOG	Activation process has finished successfully
0:00:00.154492	LOG	Data stored in the DUT after Activation:
0:00:00.157462	LOG	DevAddr: 00000000
0:00:00.160458	LOG	AppEUI: 0000000000000000
0:00:00.162492	LOG	NwkSKey: 6bfb58c6a233389e6e66450a9e520a70
0:00:00.165532	LOG	AppSKey: ded4e508ab9cede444c3765e0533fcac
0:00:00.169533	LOG	End Test Step: Device activation
0:00:00.173532	LOG	Partial Verdict: PASS
0:00:00.176509	LOG	==========
0:00:00.182060	LOG	==========
0:00:00.184092	LOG	Start Test Step: DUT Pre-condition settings

0:00:00.193089	LOG	DUT Pre-condition activation process starts
0:00:00.196127	LOG	DUT Pre-condition activation completed
0:00:00.199129	LOG	End Test Step: DUT Pre-condition settings
0:00:00.202127	LOG	Partial Verdict: PASS
0:00:00.206095	LOG	==========
0:00:00.210642	LOG	==========
0:00:00.213607	LOG	Start Test Step: Test DeviceTimeReq MAC Command
0:00:00.223645	LOG	Step 01-02
0:00:00.226689	LOG	Send Test Command DeviceTimeReq process starts
0:00:00.733310	LOG	GPS Time updated: 1385112919981
0:00:00.734275	LOG	PULL_DATA: 02 49ae 02 0016c001ff1025bf
0:00:00.736276	LOG	PULL_ACK: 02 49ae 04
0:00:02.635727	LOG	First uplink received. Open reception window.
0:00:02.748006	LOG	PUSH_ACK: 02 fc68 01
0:00:02.749974	LOG	GPS Time from gateway: 1385112924980
0:00:02.750974	LOG	PUSH_DATA: Protocol version = 02, Token = fc68, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3084091779, 'time': '2023-11-27T09:35:05.980260Z', 'tmms': 1385112924980, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3308, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAuwMC1xmWNGQY0M4LJGU='}]}
0:00:02.752974	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03bb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ce0b2465)
0:00:02.753975	LOG	Server <---------- DUT
0:00:02.755975	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0179, FOpts:), FPort: e0, FRMPayload: 21), MIC: 1236ef40)
0:00:02.756973	LOG	Frame command sent to the DUT
0:00:02.758978	LOG	PULL_RESP: Protocol version = 02, Token = d69a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3086091779, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAeQHgZRI270A='}}
0:00:02.759978	LOG	Server ----------> DUT
0:00:02.761979	LOG	Send Test Command DeviceTimeReq process completed
0:00:02.765978	LOG	Step 03-04
0:00:02.768978	LOG	Wait a MAC command from the DUT process starts
0:00:07.632699	LOG	First uplink received. Open reception window.
0:00:07.737713	LOG	PUSH_ACK: 02 0d42 01
0:00:07.739712	LOG	GPS Time from gateway: 1385112929980
0:00:07.740679	LOG	PUSH_DATA: Protocol version = 02, Token = 0d42, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3089091614, 'time': '2023-11-27T09:35:10.980094Z', 'tmms': 1385112929980, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3309, 'rssi': -51, 'size': 21, 'data': 'QAAAAACBvAMNAsMbQcCFCOHXYArQ'}]}
0:00:07.742135	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 81, FCnt: 03bc, FOpts: 0d), FPort: 02, FRMPayload: 00000001020000, MIC: d7600ad0)
0:00:07.744176	LOG	Server <---------- DUT
0:00:07.746142	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:07.748172	LOG	Current GPS Time: 1385112929980
0:00:07.749172	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 017a, FOpts:), FPort: 00, FRMPayload: 0d61258f52fa), MIC: ce796813)
0:00:07.751175	LOG	PULL_RESP: Protocol version = 02, Token = 0628, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3091091614, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YAAAAAAAegEAUB9ns6NmznloEw=='}}
0:00:07.752174	LOG	Server ----------> DUT
0:00:07.755141	LOG	Wait a MAC command from the DUT process completed

0:00:07.758799	LOG	Step 05
0:00:07.761357	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:00:10.903316	LOG	GPS Time updated: 1385112933251
0:00:10.905285	LOG	PULL_DATA: 02 8231 02 0016c001ff1025bf
0:00:10.906287	LOG	PULL_ACK: 02 8231 04
0:00:12.636402	LOG	First uplink received. Open reception window.
0:00:12.738491	LOG	PUSH_ACK: 02 a046 01
0:00:12.739493	LOG	GPS Time from gateway: 1385112934980
0:00:12.742011	LOG	PUSH_DATA: Protocol version = 02, Token = a046, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3094091268, 'time': '2023-11-27T09:35:15.979749Z', 'tmms': 1385112934980, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3316, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAvQMCM9JBH8zkZJtX9gk='}]}
0:00:12.743005	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03bd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9b57f609)
0:00:12.744005	LOG	Server <---------- DUT
0:00:12.747512	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:00:12.749556	LOG	End Test Step: Test DeviceTimeReq MAC Command
0:00:12.753550	LOG	Partial Verdict: PASS
0:00:12.757591	LOG	==========
0:00:12.760587	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_014
0:00:12.762586	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_015_A	
Verdict	PASS	
Date	2023-11-27 10:35:17	
Description		
Technology Version	LCTT v3.11.0_R1 | GUI v2.6.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.3	
Test Specs Version	USv1.5.1/EUv1.6.2/KRv1.2.1/ASv1.1.1/INv1.1.1/ALL_Av1.6/ALL_Cv1.0/ALL_Bv1.0/SCHCv1.1/ALPv1.0	
Project	ref-stack	
Project Creation Date	2023-10-04 09:10:20	
Sample Parameters		
	SF7BW250 Frequency	868.100
	FSK Frequency	868.100
	Data Rates to be measured	ALL
	Conformance	TRUE
	LR-FHSSCR1/3BW137 Frequency	868.000
	LR-FHSSCR2/3BW137 Frequency	868.000
	LR-FHSSCR1/3BW336 Frequency	868.600
	LR-FHSSCR2/3BW336 Frequency	868.600

Time Stamp (ms)	Event	Summary
0:00:00.008981	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_015_A
0:00:00.066722	LOG	==========
0:00:00.068721	LOG	Start Test Step: Device activation
0:00:00.153340	LOG	Activation process has finished successfully
0:00:00.154372	LOG	Data stored in the DUT after Activation:
0:00:00.158666	LOG	DevAddr: 00000000
0:00:00.161622	LOG	AppEUI: 0000000000000000
0:00:00.164624	LOG	NwkSKey: 6bfb58c6a233389e6e66450a9e520a70
0:00:00.166658	LOG	AppSKey: ded4e508ab9cede444c3765e0533fcac
0:00:00.170657	LOG	End Test Step: Device activation
0:00:00.173697	LOG	Partial Verdict: PASS

0:00:00.177695	LOG	==========
0:00:00.182663	LOG	==========
0:00:00.184665	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.194784	LOG	DUT Pre-condition activation process starts
0:00:00.197816	LOG	DUT Pre-condition activation completed
0:00:00.200814	LOG	End Test Step: DUT Pre-condition settings
0:00:00.203855	LOG	Partial Verdict: PASS
0:00:00.207853	LOG	==========
0:00:00.212820	LOG	==========
0:00:00.214865	LOG	Start Test Step: Initial settings for the test
0:00:00.224982	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:02.736453	LOG	PUSH_DATA received while waiting first PULL_DATA
0:00:06.083747	LOG	GPS Time updated: 1385112938327
0:00:06.085744	LOG	PULL_DATA: 02 3a06 02 0016c001ff1025bf
0:00:06.086743	LOG	PULL_ACK: 02 3a06 04
0:00:07.729327	LOG	First uplink received. Open reception window.
0:00:07.845636	LOG	PUSH_ACK: 02 6aee 01
0:00:07.847605	LOG	GPS Time from gateway: 1385112944979
0:00:07.849605	LOG	PUSH_DATA: Protocol version = 02, Token = 6aee, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3104090747, 'time': '2023-11-27T09:35:25.979226Z', 'tmms': 1385112944979, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3308, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAvwMC/x9yY1TniKXMgDE='}]}
0:00:07.850637	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03bf, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a5cc8031)
0:00:07.851640	LOG	Server <---------- DUT
0:00:07.853604	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 017b, FOpts:), FPort: e0, FRMPayload: 0701), MIC: 93c7d90e)
0:00:07.856605	LOG	Frame command sent to the DUT
0:00:07.857604	LOG	PULL_RESP: Protocol version = 02, Token = aecf, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3106090747, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAewHgEKiTx9kO'}}
0:00:07.858604	LOG	Server ----------> DUT
0:00:07.862114	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:07.865145	LOG	End Test Step: Initial settings for the test
0:00:07.868145	LOG	Partial Verdict: PASS
0:00:07.872113	LOG	==========
0:00:07.877624	LOG	==========
0:00:07.880635	LOG	Start Test Step: Test packet error rate for SF12BW125 using RX1 window
0:00:07.892661	LOG	Step 03-09
0:00:07.896628	LOG	Send MAC command block process starts
0:00:12.727248	LOG	First uplink received. Open reception window.
0:00:12.832312	LOG	PUSH_ACK: 02 972c 01
0:00:12.834279	LOG	GPS Time from gateway: 1385112949979
0:00:12.835279	LOG	PUSH_DATA: Protocol version = 02, Token = 972c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3109090493, 'time': '2023-11-27T09:35:30.978971Z', 'tmms': 1385112949979, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3316, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAwAMCRglqBOOIBHCt1x4='}]}
0:00:12.837284	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03c0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 70add71e)
0:00:12.838284	LOG	Server <---------- DUT
0:00:12.840284	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 017c, FOpts:), FPort: 00, FRMPayload: 03000700010500d2ad84), MIC: 7e5d27ed)

0:00:12.841789	LOG	PULL_RESP: Protocol version = 02, Token = 3093, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3111090493, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAfAEAy1s6QPjuBacMlH5dJ+0='}}
0:00:12.843796	LOG	Server ----------> DUT
0:00:12.846798	LOG	#**********CURRENT BEACON SENT**********#
0:00:12.848838	LOG	PULL_RESP: Protocol version = 02, Token = 5bee, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385112960000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAJY9SH8EAAAAAAAAAAA='}}
0:00:12.849794	LOG	Server ----------> DUT
0:00:12.851799	LOG	#**********#
0:00:12.861832	LOG	#**********NEXT BEACON QUEUED**********#
0:00:12.862832	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385113088000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAJo9Sd0UAAAAAAAAAAA='}}
0:00:12.864841	LOG	Server ----------> DUT
0:00:12.865799	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 00268f52, CRC1: 7745, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385113088000
0:00:12.868028	LOG	#**********#
0:00:12.869027	LOG	Next BEACON scheduled at GPS time (ms): 1385113216000
0:00:12.870028	LOG	TX_ACK: 02 3093 05 0016c001ff1025bf
0:00:12.872029	LOG	TX_ACK: 02 5bee 05 0016c001ff1025bf
0:00:16.204182	LOG	GPS Time updated: 1385112953457
0:00:16.205135	LOG	PULL_DATA: 02 185f 02 0016c001ff1025bf
0:00:16.207135	LOG	PULL_ACK: 02 185f 04
0:00:19.172272	LOG	First uplink received. Open reception window.
0:00:19.279253	LOG	PUSH_ACK: 02 ccb3 01
0:00:19.280798	LOG	GPS Time from gateway: 1385112956405
0:00:19.282797	LOG	PUSH_DATA: Protocol version = 02, Token = ccb3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3115516260, 'time': '2023-11-27T09:35:37.404737Z', 'tmms': 1385112956405, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.0, 'foff': -3309, 'rssi': -51, 'size': 24, 'data': 'QAAAAACEwQMDBwUHAoS8ZsN1F3Qae1/O'}]}
0:00:19.283829	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 03c1, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 1a7b5fce)
0:00:19.284829	LOG	Server <---------- DUT
0:00:19.286798	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:19.287830	LOG	Command Answer: 03070507
0:00:19.342476	LOG	MAC command communication completed
0:00:19.346484	LOG	Send Test Command RxAppCntReq process starts
0:00:24.170429	LOG	First uplink received. Open reception window.
0:00:24.283377	LOG	PUSH_ACK: 02 6b74 01
0:00:24.284928	LOG	GPS Time from gateway: 1385112961404
0:00:24.286924	LOG	PUSH_DATA: Protocol version = 02, Token = 6b74, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3120515997, 'time': '2023-11-27T09:35:42.404473Z', 'tmms': 1385112961404, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.2, 'foff': -3296, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCwgMFBwK0WL8Lpi9IajB+pA==‘}]}
0:00:24.287954	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 03c2, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 6a307ea4)
0:00:24.288954	LOG	Server <---------- DUT
0:00:24.290923	LOG	MAC Command RXParamSetupAns received
0:00:24.291953	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 017d, FOpts:), FPort: e0, FRMPayload: 09), MIC: ce015fdd)
0:00:24.293926	LOG	Frame command sent to the DUT
0:00:24.294956	LOG	PULL_RESP: Protocol version = 02, Token = f9da, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3122515997, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAfQHg5M4BX90='}}
0:00:24.296963	LOG	Server ----------> DUT
0:00:24.299138	LOG	TX_ACK: 02 f9da 05 0016c001ff1025bf
0:00:26.394146	LOG	GPS Time updated: 1385112963628
0:00:26.395100	LOG	PULL_DATA: 02 bb28 02 0016c001ff1025bf
0:00:26.397102	LOG	PULL_ACK: 02 bb28 04
0:00:28.699471	LOG	First uplink received. Open reception window.
0:00:28.812201	LOG	PUSH_ACK: 02 3b04 01
0:00:28.814200	LOG	GPS Time from gateway: 1385112965930
0:00:28.815201	LOG	PUSH_DATA: Protocol version = 02, Token = 3b04, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3125041820, 'time': '2023-11-27T09:35:46.930295Z', 'tmms': 1385112965930, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.0, 'foff': -3304, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAwwPgy9tGYtjP4g==‘}]}
0:00:28.816213	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03c3, FOpts:), FPort: e0, FRMPayload: 095500, MIC: 62d8cfe2)
0:00:28.818201	LOG	Server <---------- DUT
0:00:28.819201	LOG	Frame Command Payload in the Answer: 095500
0:00:28.823201	LOG	RX Count received by DUT: 85
0:00:28.826201	LOG	Send Test Command RxAppCntReq process completed
0:00:28.829214	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:00:34.016469	LOG	Multiple frames received. Selecting the correct frame...
0:00:34.018282	LOG	Frame selected: {'jver': 1, 'tmst': 3130351540, 'time': '2023-11-27T09:35:52.240014Z', 'tmms': 1385112971240, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.5, 'foff': -3287, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAxAMC/Nn8qizU8huAhJk='}
0:00:34.021653	LOG	First uplink received. Open reception window.
0:00:34.123320	LOG	PUSH_ACK: 02 d637 01
0:00:34.124828	LOG	GPS Time from gateway: 1385112971240
0:00:34.125828	LOG	PUSH_DATA: Protocol version = 02, Token = d637, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3130351540, 'time': '2023-11-27T09:35:52.240014Z', 'tmms': 1385112971240, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.5, 'foff': -3287, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAxAMC/Nn8qizU8huAhJk='}, {'jver': 1, 'tmst': 3130351541, 'time': '2023-11-27T09:35:52.240015Z', 'tmms': 1385112971240, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -126, 'lsnr': -13.5, 'foff': -3286, 'rssi': -113, 'size': 20, 'data': 'QAAAAACAxAMC/Nn8qizU8huAhJk='}]}
0:00:34.127828	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03c4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1b808499)
0:00:34.128828	LOG	Server <---------- DUT
0:00:34.130829	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 017e, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 3ebcb303)

0:00:34.131827	LOG	Frame command sent to the DUT
0:00:34.133829	LOG	PULL_RESP: Protocol version = 02, Token = 7fc2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3132351540, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAfgHgqss+vLMD'}}
0:00:34.134829	LOG	Server ----------> DUT
0:00:34.137828	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:00:34.143833	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:36.443610	LOG	GPS Time updated: 1385112973662
0:00:36.445611	LOG	PULL_DATA: 02 6c0c 02 0016c001ff1025bf
0:00:36.447580	LOG	PULL_ACK: 02 6c0c 04
0:00:39.003101	LOG	Multiple frames received. Selecting the correct frame...
0:00:39.004100	LOG	Frame selected: {'jver': 1, 'tmst': 3135351279, 'time': '2023-11-27T09:35:57.239752Z', 'tmms': 1385112976240, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.2, 'foff': -3292, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAxQMCK6ud4glr/nvoo4E='}
0:00:39.006103	LOG	First uplink received. Open reception window.
0:00:39.121481	LOG	PUSH_ACK: 02 8c79 01
0:00:39.123450	LOG	GPS Time from gateway: 1385112976240
0:00:39.124960	LOG	PUSH_DATA: Protocol version = 02, Token = 8c79, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3135351279, 'time': '2023-11-27T09:35:57.239752Z', 'tmms': 1385112976240, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.2, 'foff': -3292, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAxQMCK6ud4glr/nvoo4E='}, {'jver': 1, 'tmst': 3135351279, 'time': '2023-11-27T09:35:57.239752Z', 'tmms': 1385112976240, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.0, 'foff': -3291, 'rssi': -114, 'size': 20, 'data': 'QAAAAACAxQMCK6ud4glr/nvoo4E='}]}
0:00:39.125959	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03c5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7be8a381)
0:00:39.126960	LOG	Server <---------- DUT
0:00:39.128959	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 017f, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 2c6fdf6b)
0:00:39.130959	LOG	Frame command sent to the DUT
0:00:39.131958	LOG	PULL_RESP: Protocol version = 02, Token = 3d4f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3136351279, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAfwHgYqosb99r'}}
0:00:39.133959	LOG	Server ----------> DUT
0:00:39.136961	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:39.139997	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:44.005193	LOG	First uplink received. Open reception window.
0:00:44.120025	LOG	PUSH_ACK: 02 4f0e 01
0:00:44.122027	LOG	GPS Time from gateway: 1385112981239
0:00:44.123558	LOG	PUSH_DATA: Protocol version = 02, Token = 4f0e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3140351028, 'time': '2023-11-27T09:36:02.239499Z', 'tmms': 1385112981239, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.2, 'foff': -3283, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAxgMCW0+k9tS1pfeppwk='}]}
0:00:44.124563	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03c6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f7a9a709)
0:00:44.126565	LOG	Server <---------- DUT
0:00:44.128621	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0180, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 558b8ff3)
0:00:44.130597	LOG	Frame command sent to the DUT

0:00:44.132565	LOG	PULL_RESP: Protocol version = 02, Token = 30a7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3141351028, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAgAHg9PtVi4/z'}}
0:00:44.134564	LOG	Server ----------> DUT
0:00:44.137564	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:44.140571	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:46.654598	LOG	GPS Time updated: 1385112983888
0:00:46.655605	LOG	PULL_DATA: 02 5473 02 0016c001ff1025bf
0:00:46.657604	LOG	PULL_ACK: 02 5473 04
0:00:49.006200	LOG	Multiple frames received. Selecting the correct frame...
0:00:49.008169	LOG	Frame selected: {'jver': 1, 'tmst': 3145350782, 'time': '2023-11-27T09:36:07.239254Z', 'tmms': 1385112986239, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.0, 'foff': -3283, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAxwMC5BESGhekUuxsEFw='}
0:00:49.009168	LOG	First uplink received. Open reception window.
0:00:49.125613	LOG	PUSH_ACK: 02 448e 01
0:00:49.127579	LOG	GPS Time from gateway: 1385112986239
0:00:49.128579	LOG	PUSH_DATA: Protocol version = 02, Token = 448e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3145350774, 'time': '2023-11-27T09:36:07.239246Z', 'tmms': 1385112986239, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -126, 'lsnr': -13.2, 'foff': -3252, 'rssi': -114, 'size': 20, 'data': 'QAAAAACAxwMC5BESGhekUuxsEFw='}, {'jver': 1, 'tmst': 3145350782, 'time': '2023-11-27T09:36:07.239254Z', 'tmms': 1385112986239, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.0, 'foff': -3283, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAxwMC5BESGhekUuxsEFw='}]}
0:00:49.130580	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03c7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ec6c105c)
0:00:49.131580	LOG	Server <---------- DUT
0:00:49.133581	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0181, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 151630b2)
0:00:49.134579	LOG	Frame command sent to the DUT
0:00:49.136580	LOG	PULL_RESP: Protocol version = 02, Token = c6d5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3146350782, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAgQHgnN4VFjCy'}}
0:00:49.137578	LOG	Server ----------> DUT
0:00:49.140584	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:49.144229	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:54.002222	LOG	First uplink received. Open reception window.
0:00:54.111636	LOG	PUSH_ACK: 02 db95 01
0:00:54.113932	LOG	GPS Time from gateway: 1385112991239
0:00:54.115611	LOG	PUSH_DATA: Protocol version = 02, Token = db95, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3150350519, 'time': '2023-11-27T09:36:12.238990Z', 'tmms': 1385112991239, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.2, 'foff': -3283, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAyAMC8QNzSNlUUdYyi/o='}]}
0:00:54.117054	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03c8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d6328bfa)
0:00:54.118095	LOG	Server <---------- DUT
0:00:54.120273	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0182, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 1c4686a8)
0:00:54.121930	LOG	Frame command sent to the DUT
0:00:54.123066	LOG	PULL_RESP: Protocol version = 02, Token = 6092, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3151350519, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAggHgn+0cRoao'}}
0:00:54.124795	LOG	Server ----------> DUT
0:00:54.127511	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:54.139014	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:56.854526	LOG	GPS Time updated: 1385112994091
0:00:56.855525	LOG	PULL_DATA: 02 6fa7 02 0016c001ff1025bf
0:00:56.857568	LOG	PULL_ACK: 02 6fa7 04
0:00:59.002007	LOG	Multiple frames received. Selecting the correct frame...
0:00:59.004022	LOG	Frame selected: {'jver': 1, 'tmst': 3155350267, 'time': '2023-11-27T09:36:17.238737Z', 'tmms': 1385112996239, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.5, 'foff': -3283, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAyQMCxccfNsnsH2+hp1Y='}
0:00:59.006009	LOG	First uplink received. Open reception window.
0:00:59.107612	LOG	PUSH_ACK: 02 492f 01
0:00:59.108614	LOG	GPS Time from gateway: 1385112996239
0:00:59.111168	LOG	PUSH_DATA: Protocol version = 02, Token = 492f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3155350267, 'time': '2023-11-27T09:36:17.238737Z', 'tmms': 1385112996239, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.5, 'foff': -3283, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAyQMCxccfNsnsH2+hp1Y='}, {'jver': 1, 'tmst': 3155350268, 'time': '2023-11-27T09:36:17.238738Z', 'tmms': 1385112996239, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.2, 'foff': -3282, 'rssi': -114, 'size': 20, 'data': 'QAAAAACAyQMCxccfNsnsH2+hp1Y='}]}
0:00:59.112157	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03c9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6fa1a756)
0:00:59.113157	LOG	Server <---------- DUT
0:00:59.115164	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0183, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: db1ff376)
0:00:59.117142	LOG	Frame command sent to the DUT
0:00:59.118161	LOG	PULL_RESP: Protocol version = 02, Token = 7413, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3156350267, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'oAAAAAAAgwHgyKtjfFlZpfbX84t2PX/71+D76J868nbYeHKWxu+w52guoNMNV73bqoyWmQsTQ9bjdDcc2x/zdg==''}}
0:00:59.120157	LOG	Server ----------> DUT
0:00:59.122126	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:59.125672	LOG	Check previous uplink data rate process starts
0:00:59.130704	LOG	Uplink received with expected Data Rate
0:00:59.133706	LOG	Check ACK bit in next uplink process starts
0:01:04.009427	LOG	Multiple frames received. Selecting the correct frame...
0:01:04.011464	LOG	Frame selected: {'jver': 1, 'tmst': 3160352949, 'time': '2023-11-27T09:36:22.241418Z', 'tmms': 1385113001241, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 11.8, 'foff': -3299, 'rssi': -52, 'size': 12, 'data': 'QAAAAACgygMEA8e8'}
0:01:04.013436	LOG	First uplink received. Open reception window.
0:01:04.122819	LOG	PUSH_ACK: 02 b1b4 01
0:01:04.124936	LOG	GPS Time from gateway: 1385113001241
0:01:04.126597	LOG	PUSH_DATA: Protocol version = 02, Token = b1b4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3160352941, 'time': '2023-11-27T09:36:22.241410Z', 'tmms': 1385113001241, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.2, 'foff': -3267,

		'rssi': -114, 'size': 12, 'data': 'QAAAAACgygMEA8e8'}, {'jver': 1, 'tmst': 3160352949, 'time': '2023-11-27T09:36:22.241418Z', 'tmms': 1385113001241, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 11.8, 'foff': -3299, 'rssi': -52, 'size': 12, 'data': 'QAAAAACgygMEA8e8'}]}
0:01:04.127677	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 03ca, FOpts:), FPort: , FRMPayload: , MIC: 0403c7bc)
0:01:04.128842	LOG	Server <---------- DUT
0:01:04.130457	LOG	ACK bit in FCtrl field is set
0:01:04.133217	LOG	Check ACK bit in next uplink tested successfully
0:01:04.138187	LOG	Send Test Command RxAppCntReq process starts
0:01:06.884047	LOG	GPS Time updated: 1385113004113
0:01:06.885047	LOG	PULL_DATA: 02 a36c 02 0016c001ff1025bf
0:01:06.887049	LOG	PULL_ACK: 02 a36c 04
0:01:09.005740	LOG	First uplink received. Open reception window.
0:01:09.115052	LOG	PUSH_ACK: 02 dcde 01
0:01:09.117055	LOG	GPS Time from gateway: 1385113006238
0:01:09.118088	LOG	PUSH_DATA: Protocol version = 02, Token = dcde, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3165349764, 'time': '2023-11-27T09:36:27.238232Z', 'tmms': 1385113006238, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.2, 'foff': -3279, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAywMCcxvieA4P7f/OR24='}]}
0:01:09.119092	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03cb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ffce476e)
0:01:09.120088	LOG	Server <---------- DUT
0:01:09.122199	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0184, FOpts:), FPort: e0, FRMPayload: 09), MIC: 049c46f4)
0:01:09.123737	LOG	Frame command sent to the DUT
0:01:09.125746	LOG	PULL_RESP: Protocol version = 02, Token = d8f2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3167349764, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAhAHgLwScRvQ='}}
0:01:09.126741	LOG	Server ----------> DUT
0:01:09.130745	LOG	TX_ACK: 02 d8f2 05 0016c001ff1025bf
0:01:13.528552	LOG	First uplink received. Open reception window.
0:01:13.633818	LOG	PUSH_ACK: 02 71b3 01
0:01:13.635787	LOG	GPS Time from gateway: 1385113010764
0:01:13.636787	LOG	PUSH_DATA: Protocol version = 02, Token = 71b3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3169875125, 'time': '2023-11-27T09:36:31.763593Z', 'tmms': 1385113010764, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 9.0, 'foff': -3293, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAzAPgEpvL2IH8oA=='}]}
0:01:13.637787	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03cc, FOpts:), FPort: e0, FRMPayload: 095c00, MIC: d881fca0)
0:01:13.638787	LOG	Server <---------- DUT
0:01:13.640793	LOG	Frame Command Payload in the Answer: 095c00
0:01:13.644794	LOG	RX Count received by DUT: 92
0:01:13.647338	LOG	Send Test Command RxAppCntReq process completed
0:01:13.653349	LOG	Send MAC command block process starts
0:01:16.904191	LOG	GPS Time updated: 1385113014140
0:01:16.905768	LOG	PULL_DATA: 02 15dd 02 0016c001ff1025bf
0:01:16.907775	LOG	PULL_ACK: 02 15dd 04
0:01:19.009576	LOG	Multiple frames received. Selecting the correct frame...
0:01:19.010576	LOG	Frame selected: {'jver': 1, 'tmst': 3175349238, 'time': '2023-11-27T09:36:37.237705Z', 'tmms': 1385113016238, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr':

		12.8, 'foff': -3279, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAzQMCJezA6wKysX+kI+8='}
0:01:19.012581	LOG	First uplink received. Open reception window.
0:01:19.123561	LOG	PUSH_ACK: 02 bfa2 01
0:01:19.125141	LOG	GPS Time from gateway: 1385113016238
0:01:19.127110	LOG	PUSH_DATA: Protocol version = 02, Token = bfa2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3175349230, 'time': '2023-11-27T09:36:37.237697Z', 'tmms': 1385113016238, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.0, 'foff': -3248, 'rssi': -114, 'size': 20, 'data': 'QAAAAACAzQMCJezA6wKysX+kI+8='}, {'jver': 1, 'tmst': 3175349238, 'time': '2023-11-27T09:36:37.237705Z', 'tmms': 1385113016238, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.8, 'foff': -3279, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAzQMCJezA6wKysX+kI+8='}]}
0:01:19.128144	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03cd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7fa423ef)
0:01:19.129142	LOG	Server <---------- DUT
0:01:19.131717	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0185, FOpts:), FPort: 00, FRMPayload: 03000700010510d2ad84), MIC: 3f4812ed)
0:01:19.132717	LOG	PULL_RESP: Protocol version = 02, Token = 1381, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3177349238, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAhQEAnOlRg8GT76ioKD9IEu0='}}
0:01:19.134685	LOG	Server ----------> DUT
0:01:19.137331	LOG	TX_ACK: 02 1381 05 0016c001ff1025bf
0:01:25.736455	LOG	First uplink received. Open reception window.
0:01:25.839006	LOG	PUSH_ACK: 02 b001 01
0:01:25.840974	LOG	GPS Time from gateway: 1385113022965
0:01:25.842479	LOG	PUSH_DATA: Protocol version = 02, Token = b001, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3182076374, 'time': '2023-11-27T09:36:43.964840Z', 'tmms': 1385113022965, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.0, 'foff': -3286, 'rssi': -51, 'size': 24, 'data': 'QAAAAACEzgMDBwUHAk9+pK72fltQEas+'}]}
0:01:25.843485	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 03ce, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 5011ab3e)
0:01:25.845500	LOG	Server <---------- DUT
0:01:25.847486	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:25.849486	LOG	Command Answer: 03070507
0:01:25.905121	LOG	MAC command communication completed
0:01:25.909127	LOG	Send Test Command RxAppCntReq process starts
0:01:27.113885	LOG	GPS Time updated: 1385113024342
0:01:27.115865	LOG	PULL_DATA: 02 fd05 02 0016c001ff1025bf
0:01:27.116853	LOG	PULL_ACK: 02 fd05 04
0:01:30.517042	LOG	Multiple frames received. Selecting the correct frame...
0:01:30.519041	LOG	Frame selected: {'jver': 1, 'tmst': 3186858308, 'time': '2023-11-27T09:36:48.746773Z', 'tmms': 1385113027747, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.2, 'foff': -3279, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCzwMFBwLfY1aXRNaBhYmWbw=='}
0:01:30.520649	LOG	First uplink received. Open reception window.
0:01:30.630324	LOG	PUSH_ACK: 02 7441 01
0:01:30.632323	LOG	GPS Time from gateway: 1385113027747
0:01:30.633323	LOG	PUSH_DATA: Protocol version = 02, Token = 7441, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3186858308, 'time': '2023-11-27T09:36:48.746773Z',

		'tmms': 1385113027747, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.2, 'foff': -3279, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCzwMFBwLfY1aXRNaBhYmWbw=='}, {'jver': 1, 'tmst': 3186858309, 'time': '2023-11-27T09:36:48.746774Z', 'tmms': 1385113027747, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -11.8, 'foff': -3279, 'rssi': -114, 'size': 22, 'data': 'QAAAAACCzwMFBwLfY1aXRNaBhYmWbw=='}]}
0:01:30.634320	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 03cf, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 8589966f)
0:01:30.636289	LOG	Server <---------- DUT
0:01:30.637288	LOG	MAC Command RXParamSetupAns received
0:01:30.639290	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0186, FOpts:), FPort: e0, FRMPayload: 09), MIC: 0cfb4fcb)
0:01:30.640320	LOG	Frame command sent to the DUT
0:01:30.641320	LOG	PULL_RESP: Protocol version = 02, Token = bb1d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3188858308, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAhgHgHAz7T8s='}}
0:01:30.643320	LOG	Server ----------> DUT
0:01:30.644865	LOG	TX_ACK: 02 bb1d 05 0016c001ff1025bf
0:01:35.039517	LOG	Multiple frames received. Selecting the correct frame...
0:01:35.040537	LOG	Frame selected: {'jver': 1, 'tmst': 3191383350, 'time': '2023-11-27T09:36:53.271814Z', 'tmms': 1385113032272, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.0, 'foff': -3293, 'rssi': -51, 'size': 16, 'data': 'QAAAAACA0APgW8JeIBlulQ=='}
0:01:35.042508	LOG	First uplink received. Open reception window.
0:01:35.157379	LOG	PUSH_ACK: 02 93ed 01
0:01:35.159347	LOG	GPS Time from gateway: 1385113032272
0:01:35.160348	LOG	PUSH_DATA: Protocol version = 02, Token = 93ed, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3191383350, 'time': '2023-11-27T09:36:53.271814Z', 'tmms': 1385113032272, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.0, 'foff': -3293, 'rssi': -51, 'size': 16, 'data': 'QAAAAACA0APgW8JeIBlulQ=='}, {'jver': 1, 'tmst': 3191383350, 'time': '2023-11-27T09:36:53.271814Z', 'tmms': 1385113032272, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.2, 'foff': -3293, 'rssi': -114, 'size': 16, 'data': 'QAAAAACA0APgW8JeIBlulQ=='}]}
0:01:35.162362	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03d0, FOpts:), FPort: e0, FRMPayload: 095d00, MIC: 20196e95)
0:01:35.163384	LOG	Server <---------- DUT
0:01:35.165352	LOG	Frame Command Payload in the Answer: 095d00
0:01:35.169134	LOG	RX Count received by DUT: 93
0:01:35.171092	LOG	Send Test Command RxAppCntReq process completed
0:01:35.174102	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:01:37.164024	LOG	GPS Time updated: 1385113034394
0:01:37.165044	LOG	PULL_DATA: 02 f010 02 0016c001ff1025bf
0:01:37.167045	LOG	PULL_ACK: 02 f010 04
0:01:40.350131	LOG	Multiple frames received. Selecting the correct frame...
0:01:40.351130	LOG	Frame selected: {'jver': 1, 'tmst': 3196693869, 'time': '2023-11-27T09:36:58.582332Z', 'tmms': 1385113037582, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.0, 'foff': -3279, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA0QMCNiHwkLUlzUYBZOA='}
0:01:40.353136	LOG	First uplink received. Open reception window.
0:01:40.464341	LOG	PUSH_ACK: 02 fdcb 01
0:01:40.466309	LOG	GPS Time from gateway: 1385113037582

0:01:40.467814	LOG	PUSH_DATA: Protocol version = 02, Token = fdcb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3196693869, 'time': '2023-11-27T09:36:58.582332Z', 'tmms': 1385113037582, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.0, 'foff': -3279, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA0QMCNiHwkLUlzUYBZOA='}, {'jver': 1, 'tmst': 3196693870, 'time': '2023-11-27T09:36:58.582333Z', 'tmms': 1385113037582, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -126, 'lsnr': -13.5, 'foff': -3278, 'rssi': -114, 'size': 20, 'data': 'QAAAAACA0QMCNiHwkLUlzUYBZOA='}]}
0:01:40.468821	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03d1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 460164e0)
0:01:40.469821	LOG	Server <---------- DUT
0:01:40.471821	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0187, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 18c3e50d)
0:01:40.473821	LOG	Frame command sent to the DUT
0:01:40.475820	LOG	PULL_RESP: Protocol version = 02, Token = 3761, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3198693869, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAhwHgoQYYw+UN'}}
0:01:40.476853	LOG	Server ----------> DUT
0:01:40.479822	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:01:40.485876	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:45.346403	LOG	Multiple frames received. Selecting the correct frame...
0:01:45.347436	LOG	Frame selected: {'jver': 1, 'tmst': 3201693608, 'time': '2023-11-27T09:37:03.582070Z', 'tmms': 1385113042582, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 8.8, 'foff': -3288, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA0gMC5fXW9ibvMaZyTYU='}
0:01:45.349434	LOG	First uplink received. Open reception window.
0:01:45.455267	LOG	PUSH_ACK: 02 a66d 01
0:01:45.456235	LOG	GPS Time from gateway: 1385113042582
0:01:45.458744	LOG	PUSH_DATA: Protocol version = 02, Token = a66d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3201693601, 'time': '2023-11-27T09:37:03.582063Z', 'tmms': 1385113042582, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -126, 'lsnr': -14.0, 'foff': -3257, 'rssi': -114, 'size': 20, 'data': 'QAAAAACA0gMC5fXW9ibvMaZyTYU='}, {'jver': 1, 'tmst': 3201693608, 'time': '2023-11-27T09:37:03.582070Z', 'tmms': 1385113042582, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 8.8, 'foff': -3288, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA0gMC5fXW9ibvMaZyTYU='}]}
0:01:45.459744	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03d2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a6724d85)
0:01:45.460744	LOG	Server <---------- DUT
0:01:45.462744	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0188, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 9f93c82d)
0:01:45.464744	LOG	Frame command sent to the DUT
0:01:45.465744	LOG	PULL_RESP: Protocol version = 02, Token = d231, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3202693608, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAiAHg5SOfk8gt'}}
0:01:45.466744	LOG	Server ----------> DUT
0:01:45.470252	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:45.474270	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:47.353985	LOG	GPS Time updated: 1385113044586
0:01:47.355985	LOG	PULL_DATA: 02 72ef 02 0016c001ff1025bf
0:01:47.356986	LOG	PULL_ACK: 02 72ef 04
0:01:50.348895	LOG	Multiple frames received. Selecting the correct frame...

0:01:50.350893	LOG	Frame selected: {'jver': 1, 'tmst': 3206693348, 'time': '2023-11-27T09:37:08.581809Z', 'tmms': 1385113047582, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 8.5, 'foff': -3279, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA0wMCUVG0BbrC3DpvfYE='}
0:01:50.352895	LOG	First uplink received. Open reception window.
0:01:50.462394	LOG	PUSH_ACK: 02 a33f 01
0:01:50.464437	LOG	GPS Time from gateway: 1385113047582
0:01:50.465401	LOG	PUSH_DATA: Protocol version = 02, Token = a33f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3206693348, 'time': '2023-11-27T09:37:08.581809Z', 'tmms': 1385113047582, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 8.5, 'foff': -3279, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA0wMCUVG0BbrC3DpvfYE='}, {'jver': 1, 'tmst': 3206693349, 'time': '2023-11-27T09:37:08.581810Z', 'tmms': 1385113047582, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -126, 'lsnr': -13.5, 'foff': -3278, 'rssi': -114, 'size': 20, 'data': 'QAAAAACA0wMCUVG0BbrC3DpvfYE='}]}
0:01:50.466433	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03d3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3a6f7d81)
0:01:50.468943	LOG	Server <---------- DUT
0:01:50.470943	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0189, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 4914c46d)
0:01:50.472943	LOG	Frame command sent to the DUT
0:01:50.473955	LOG	PULL_RESP: Protocol version = 02, Token = 683c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3207693348, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAiQHg46lJFMRt'}}
0:01:50.475943	LOG	Server ----------> DUT
0:01:50.478944	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:50.482944	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:55.342831	LOG	First uplink received. Open reception window.
0:01:55.456826	LOG	PUSH_ACK: 02 3332 01
0:01:55.458829	LOG	GPS Time from gateway: 1385113052581
0:01:55.459863	LOG	PUSH_DATA: Protocol version = 02, Token = 3332, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3211693095, 'time': '2023-11-27T09:37:13.581554Z', 'tmms': 1385113052581, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.5, 'foff': -3278, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA1AMC09oiWGivrb50pl8='}]}
0:01:55.460861	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03d4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: be74a65f)
0:01:55.462829	LOG	Server <---------- DUT
0:01:55.463860	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 018a, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 5d26f0a8)
0:01:55.465861	LOG	Frame command sent to the DUT
0:01:55.467611	LOG	PULL_RESP: Protocol version = 02, Token = ce58, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3212693095, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAigHg+bJdJvCo'}}
0:01:55.468615	LOG	Server ----------> DUT
0:01:55.471616	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:55.475649	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:57.564031	LOG	GPS Time updated: 1385113054804
0:01:57.566032	LOG	PULL_DATA: 02 d435 02 0016c001ff1025bf
0:01:57.567037	LOG	PULL_ACK: 02 d435 04
0:02:00.344159	LOG	Multiple frames received. Selecting the correct frame...
0:02:00.346127	LOG	Frame selected: {'jver': 1, 'tmst': 3216692847, 'time': '2023-11-27T09:37:18.581307Z', 'tmms': 1385113057581, 'chan': 0, 'rfch': 1, 'freq': 868.1,

		'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.8, 'foff': -3278, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA1QMCdpjhVBO6WmUvMrk='}
0:02:00.347125	LOG	First uplink received. Open reception window.
0:02:00.457076	LOG	PUSH_ACK: 02 0185 01
0:02:00.459077	LOG	GPS Time from gateway: 1385113057581
0:02:00.460109	LOG	PUSH_DATA: Protocol version = 02, Token = 0185, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3216692847, 'time': '2023-11-27T09:37:18.581307Z', 'tmms': 1385113057581, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.8, 'foff': -3278, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA1QMCdpjhVBO6WmUvMrk='}, {'jver': 1, 'tmst': 3216692847, 'time': '2023-11-27T09:37:18.581307Z', 'tmms': 1385113057581, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.0, 'foff': -3277, 'rssi': -114, 'size': 20, 'data': 'QAAAAACA1QMCdpjhVBO6WmUvMrk='}]}
0:02:00.462108	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03d5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 652f32b9)
0:02:00.463110	LOG	Server <---------- DUT
0:02:00.465076	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 018b, FOpts:), FPort: e0, FRMPayload: 0700), MIC: c6b4de91)
0:02:00.467100	LOG	Frame command sent to the DUT
0:02:00.468107	LOG	PULL_RESP: Protocol version = 02, Token = bf93, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3217692847, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAiwHgEbvGtN6R'}}
0:02:00.469205	LOG	Server ----------> DUT
0:02:00.472715	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:00.483714	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:05.346370	LOG	Multiple frames received. Selecting the correct frame...
0:02:05.347406	LOG	Frame selected: {'jver': 1, 'tmst': 3221692587, 'time': '2023-11-27T09:37:23.581046Z', 'tmms': 1385113062581, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.0, 'foff': -3277, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA1gMCV7u/zSHCC43A5Co='}
0:02:05.349375	LOG	First uplink received. Open reception window.
0:02:05.452182	LOG	PUSH_ACK: 02 36fe 01
0:02:05.454220	LOG	GPS Time from gateway: 1385113062581
0:02:05.455219	LOG	PUSH_DATA: Protocol version = 02, Token = 36fe, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3221692587, 'time': '2023-11-27T09:37:23.581046Z', 'tmms': 1385113062581, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.0, 'foff': -3277, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA1gMCV7u/zSHCC43A5Co='}, {'jver': 1, 'tmst': 3221692587, 'time': '2023-11-27T09:37:23.581046Z', 'tmms': 1385113062581, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.0, 'foff': -3277, 'rssi': -114, 'size': 20, 'data': 'QAAAAACA1gMCV7u/zSHCC43A5Co='}]}
0:02:05.456219	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03d6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8dc0e42a)
0:02:05.458186	LOG	Server <---------- DUT
0:02:05.460188	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 018c, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 686cf17e)
0:02:05.461187	LOG	Frame command sent to the DUT
0:02:05.463187	LOG	PULL_RESP: Protocol version = 02, Token = efeb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3222692587, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size':

		64, 'data': 'oAAAAAAAjAHgPz7u6+njKTfQFXBBPkktbjbHV+3vi3CJ8U7uS572gH0ki4owXQE+AbiLBbnkGFoqLkWmaGzxfg==''}}
0:02:05.464187	LOG	Server ----------> DUT
0:02:05.467693	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:05.469732	LOG	Check previous uplink data rate process starts
0:02:05.475261	LOG	Uplink received with expected Data Rate
0:02:05.478292	LOG	Check ACK bit in next uplink process starts
0:02:07.774187	LOG	GPS Time updated: 1385113065006
0:02:07.775216	LOG	PULL_DATA: 02 8aab 02 0016c001ff1025bf
0:02:07.776720	LOG	PULL_ACK: 02 8aab 04
0:02:10.348563	LOG	First uplink received. Open reception window.
0:02:10.458021	LOG	PUSH_ACK: 02 401d 01
0:02:10.459988	LOG	GPS Time from gateway: 1385113067583
0:02:10.460991	LOG	PUSH_DATA: Protocol version = 02, Token = 401d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3226695032, 'time': '2023-11-27T09:37:28.583490Z', 'tmms': 1385113067583, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.5, 'foff': -3297, 'rssi': -51, 'size': 12, 'data': 'QAAAAACg1wO0l7Oo'}]}
0:02:10.461989	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 03d7, FOpts:), FPort: , FRMPayload: , MIC: b497b3a8)
0:02:10.463989	LOG	Server <---------- DUT
0:02:10.465022	LOG	ACK bit in FCtrl field is set
0:02:10.467989	LOG	Check ACK bit in next uplink tested successfully
0:02:10.474558	LOG	Send Test Command RxAppCntReq process starts
0:02:15.348584	LOG	First uplink received. Open reception window.
0:02:15.455643	LOG	PUSH_ACK: 02 9830 01
0:02:15.457610	LOG	GPS Time from gateway: 1385113072580
0:02:15.458609	LOG	PUSH_DATA: Protocol version = 02, Token = 9830, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3231692073, 'time': '2023-11-27T09:37:33.580530Z', 'tmms': 1385113072580, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 8.8, 'foff': -3278, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA2AMCI2G5bKwZTPx4RA4='}]}
0:02:15.459614	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03d8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fc78440e)
0:02:15.460613	LOG	Server <---------- DUT
0:02:15.462626	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 018d, FOpts:), FPort: e0, FRMPayload: 09), MIC: 836fb333)
0:02:15.464615	LOG	Frame command sent to the DUT
0:02:15.466615	LOG	PULL_RESP: Protocol version = 02, Token = 0e3e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3233692073, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAjQHgMINvszM='}}
0:02:15.466615	LOG	Server ----------> DUT
0:02:15.470126	LOG	TX_ACK: 02 0e3e 05 0016c001ff1025bf
0:02:17.984090	LOG	GPS Time updated: 1385113075216
0:02:17.985089	LOG	PULL_DATA: 02 2e96 02 0016c001ff1025bf
0:02:17.986090	LOG	PULL_ACK: 02 2e96 04
0:02:19.866035	LOG	Multiple frames received. Selecting the correct frame...
0:02:19.868035	LOG	Frame selected: {'jver': 1, 'tmst': 3236217186, 'time': '2023-11-27T09:37:38.105640Z', 'tmms': 1385113077106, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 9.0, 'foff': -3290, 'rssi': -51, 'size': 16, 'data': 'QAAAAACA2QPg0I4gWYTqFg==''}
0:02:19.869567	LOG	First uplink received. Open reception window.
0:02:19.971049	LOG	PUSH_ACK: 02 fbd4 01
0:02:19.973049	LOG	GPS Time from gateway: 1385113077106

0:02:19.974052	LOG	PUSH_DATA: Protocol version = 02, Token = fbd4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3236217186, 'time': '2023-11-27T09:37:38.105640Z', 'tmms': 1385113077106, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 9.0, 'foff': -3290, 'rssi': -51, 'size': 16, 'data': 'QAAAAACA2QPg0I4gWYTqFg=='}, {'jver': 1, 'tmst': 3236217187, 'time': '2023-11-27T09:37:38.105641Z', 'tmms': 1385113077106, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.0, 'foff': -3290, 'rssi': -114, 'size': 16, 'data': 'QAAAAACA2QPg0I4gWYTqFg=='}]}
0:02:19.975050	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03d9, FOpts:), FPort: e0, FRMPayload: 096400, MIC: 5984ea16)
0:02:19.976087	LOG	Server <---------- DUT
0:02:19.978056	LOG	Frame Command Payload in the Answer: 096400
0:02:19.982090	LOG	RX Count received by DUT: 100
0:02:19.984087	LOG	Send Test Command RxAppCntReq process completed
0:02:19.990089	LOG	Send MAC command block process starts
0:02:25.350395	LOG	Multiple frames received. Selecting the correct frame...
0:02:25.351433	LOG	Frame selected: {'jver': 1, 'tmst': 3241691574, 'time': '2023-11-27T09:37:43.580028Z', 'tmms': 1385113082580, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.0, 'foff': -3277, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA2gMC5vlEsxmKO1u5PoA='}
0:02:25.354014	LOG	#**********CURRENT BEACON SENT**********#
0:02:25.355054	LOG	PULL_RESP: Protocol version = 02, Token = 8b8c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385113088000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAJo9Sd0UAAAAAAAAAAA='}}
0:02:25.357019	LOG	Server ----------> DUT
0:02:25.358019	LOG	#**********#
0:02:25.368023	LOG	#**********NEXT BEACON QUEUED**********#
0:02:25.369023	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385113216000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAJo9ST5gAAAAAAAAAAA='}}
0:02:25.371066	LOG	Server ----------> DUT
0:02:25.372060	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 80268f52, CRC1: 4f98, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385113216000
0:02:25.373024	LOG	#**********#
0:02:25.375537	LOG	Next BEACON scheduled at GPS time (ms): 1385113344000
0:02:25.376537	LOG	First uplink received. Open reception window.
0:02:25.378568	LOG	TX_ACK: 02 8b8c 05 0016c001ff1025bf
0:02:25.490932	LOG	PUSH_ACK: 02 c39f 01
0:02:25.492935	LOG	GPS Time from gateway: 1385113082580
0:02:25.493968	LOG	PUSH_DATA: Protocol version = 02, Token = c39f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3241691567, 'time': '2023-11-27T09:37:43.580021Z', 'tmms': 1385113082580, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -127, 'lsnr': -14.2, 'foff': -3246, 'rssi': -114, 'size': 20, 'data': 'QAAAAACA2gMC5vlEsxmKO1u5PoA='}, {'jver': 1, 'tmst': 3241691574, 'time': '2023-11-27T09:37:43.580028Z', 'tmms': 1385113082580, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.0, 'foff': -3277, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA2gMC5vlEsxmKO1u5PoA='}]}

0:02:25.495506	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03da, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5bb93e80)
0:02:25.496512	LOG	Server <---------- DUT
0:02:25.498511	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 018e, FOpts:), FPort: 00, FRMPayload: 03000700010520d2ad84), MIC: 89f13400)
0:02:25.500636	LOG	PULL_RESP: Protocol version = 02, Token = 5595, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3243691574, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAjgEA12/UDY3o+ZuVAYnxNAA='}}
0:02:25.501634	LOG	Server ----------> DUT
0:02:25.504544	LOG	TX_ACK: 02 5595 05 0016c001ff1025bf
0:02:28.023860	LOG	GPS Time updated: 1385113085225
0:02:28.025828	LOG	PULL_DATA: 02 9066 02 0016c001ff1025bf
0:02:28.026621	LOG	PULL_ACK: 02 9066 04
0:02:32.132647	LOG	First uplink received. Open reception window.
0:02:32.234177	LOG	PUSH_ACK: 02 de1f 01
0:02:32.236182	LOG	GPS Time from gateway: 1385113089366
0:02:32.237180	LOG	PUSH_DATA: Protocol version = 02, Token = de1f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3248477588, 'time': '2023-11-27T09:37:50.366042Z', 'tmms': 1385113089366, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3281, 'rssi': -51, 'size': 24, 'data': 'QAAAAACE2wMDBwUHAhuDn5AfNLGr9x8s'}]}
0:02:32.239185	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 03db, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: abf71f2c)
0:02:32.240185	LOG	Server <---------- DUT
0:02:32.242186	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:32.244185	LOG	Command Answer: 03070507
0:02:32.299496	LOG	MAC command communication completed
0:02:32.303038	LOG	Send Test Command RxAppCntReq process starts
0:02:36.878563	LOG	Multiple frames received. Selecting the correct frame...
0:02:36.880577	LOG	Frame selected: {'jver': 1, 'tmst': 3253220173, 'time': '2023-11-27T09:37:55.108625Z', 'tmms': 1385113094108, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.0, 'foff': -3276, 'rssi': -50, 'size': 22, 'data': 'QAAAAACC3AMFBwLg0xQtsOpKRKq5Ng=='}
0:02:36.882565	LOG	First uplink received. Open reception window.
0:02:36.993881	LOG	PUSH_ACK: 02 e6fb 01
0:02:36.995846	LOG	GPS Time from gateway: 1385113094108
0:02:36.996846	LOG	PUSH_DATA: Protocol version = 02, Token = e6fb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3253220173, 'time': '2023-11-27T09:37:55.108625Z', 'tmms': 1385113094108, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.0, 'foff': -3276, 'rssi': -50, 'size': 22, 'data': 'QAAAAACC3AMFBwLg0xQtsOpKRKq5Ng=='}, {'jver': 1, 'tmst': 3253220175, 'time': '2023-11-27T09:37:55.108627Z', 'tmms': 1385113094108, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -126, 'lsnr': -13.5, 'foff': -3276, 'rssi': -113, 'size': 22, 'data': 'QAAAAACC3AMFBwLg0xQtsOpKRKq5Ng=='}]}
0:02:36.997885	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 03dc, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 44aab936)
0:02:36.999391	LOG	Server <---------- DUT
0:02:37.001432	LOG	MAC Command RXParamSetupAns received
0:02:37.003397	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 018f, FOpts:), FPort: e0, FRMPayload: 09), MIC: e5e17f6b)
0:02:37.005430	LOG	Frame command sent to the DUT

0:02:37.006557	LOG	PULL_RESP: Protocol version = 02, Token = 0128, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3255220173, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAjwHgTeXhf2s='}}
0:02:37.007558	LOG	Server ----------> DUT
0:02:37.009526	LOG	TX_ACK: 02 0128 05 0016c001ff1025bf
0:02:38.053756	LOG	GPS Time updated: 1385113095280
0:02:38.055754	LOG	PULL_DATA: 02 2019 02 0016c001ff1025bf
0:02:38.057347	LOG	PULL_ACK: 02 2019 04
0:02:41.401863	LOG	First uplink received. Open reception window.
0:02:41.510051	LOG	PUSH_ACK: 02 2dfe 01
0:02:41.512056	LOG	GPS Time from gateway: 1385113098634
0:02:41.513057	LOG	PUSH_DATA: Protocol version = 02, Token = 2dfe, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3257745590, 'time': '2023-11-27T09:37:59.634043Z', 'tmms': 1385113098634, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3290, 'rssi': -50, 'size': 16, 'data': 'QAAAAACA3QPgmKYd3JWSsA=='}]}
0:02:41.514094	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03dd, FOpts:), FPort: e0, FRMPayload: 096500, MIC: dc9592b0)
0:02:41.516062	LOG	Server <---------- DUT
0:02:41.518064	LOG	Frame Command Payload in the Answer: 096500
0:02:41.521935	LOG	RX Count received by DUT: 101
0:02:41.523935	LOG	Send Test Command RxAppCntReq process completed
0:02:41.525936	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:02:46.711658	LOG	First uplink received. Open reception window.
0:02:46.819982	LOG	PUSH_ACK: 02 0c02 01
0:02:46.821983	LOG	GPS Time from gateway: 1385113103944
0:02:46.822983	LOG	PUSH_DATA: Protocol version = 02, Token = 0c02, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3263055721, 'time': '2023-11-27T09:38:04.944173Z', 'tmms': 1385113103944, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3275, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA3gMC5pnsZZpHRShXPnQ='}]}
0:02:46.824982	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03de, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 28573e74)
0:02:46.826172	LOG	Server <---------- DUT
0:02:46.828257	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0190, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 7ab4a1aa)
0:02:46.829883	LOG	Frame command sent to the DUT
0:02:46.831381	LOG	PULL_RESP: Protocol version = 02, Token = 3214, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3265055721, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAkAHgCTZ6tKGq'}}
0:02:46.832643	LOG	Server ----------> DUT
0:02:46.835585	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:02:46.841307	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:48.094424	LOG	GPS Time updated: 1385113105326
0:02:48.095423	LOG	PULL_DATA: 02 330d 02 0016c001ff1025bf
0:02:48.097426	LOG	PULL_ACK: 02 330d 04
0:02:51.711183	LOG	Multiple frames received. Selecting the correct frame...
0:02:51.712183	LOG	Frame selected: {'jver': 1, 'tmst': 3268055455, 'time': '2023-11-27T09:38:09.943906Z', 'tmms': 1385113108944, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3287, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA3wMCWFQPtDaK9uzx0rk='}
0:02:51.714205	LOG	First uplink received. Open reception window.
0:02:51.828735	LOG	PUSH_ACK: 02 0b11 01

0:02:51.830703	LOG	GPS Time from gateway: 1385113108944
0:02:51.831703	LOG	PUSH_DATA: Protocol version = 02, Token = 0b11, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3268055448, 'time': '2023-11-27T09:38:09.943899Z', 'tmms': 1385113108944, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -126, 'lsnr': -13.2, 'foff': -3257, 'rssi': -113, 'size': 20, 'data': 'QAAAAACA3wMCWFQPtDaK9uzx0rk='}, {'jver': 1, 'tmst': 3268055455, 'time': '2023-11-27T09:38:09.943906Z', 'tmms': 1385113108944, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3287, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA3wMCWFQPtDaK9uzx0rk='}]}
0:02:51.832707	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03df, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ecf1d2b9)
0:02:51.834708	LOG	Server <---------- DUT
0:02:51.836714	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0191, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 92b21ab0)
0:02:51.837707	LOG	Frame command sent to the DUT
0:02:51.839707	LOG	PULL_RESP: Protocol version = 02, Token = fd0f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3269055455, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAkQHgQImSshqw'}}
0:02:51.840707	LOG	Server ----------> DUT
0:02:51.844217	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:51.847215	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:56.707445	LOG	First uplink received. Open reception window.
0:02:56.818716	LOG	PUSH_ACK: 02 2ead 01
0:02:56.820718	LOG	GPS Time from gateway: 1385113113944
0:02:56.821718	LOG	PUSH_DATA: Protocol version = 02, Token = 2ead, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3273055214, 'time': '2023-11-27T09:38:14.943664Z', 'tmms': 1385113113944, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.2, 'foff': -3280, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA4AMC091TsLcCUnCWgi8='}]}
0:02:56.823719	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03e0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7096822f)
0:02:56.825223	LOG	Server <---------- DUT
0:02:56.827230	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0192, FOpts:), FPort: e0, FRMPayload: 0700), MIC: b10eef43)
0:02:56.829234	LOG	Frame command sent to the DUT
0:02:56.830234	LOG	PULL_RESP: Protocol version = 02, Token = 129b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3274055214, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAkgHgEC+xDu9D'}}
0:02:56.831234	LOG	Server ----------> DUT
0:02:56.834267	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:56.837267	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:58.303833	LOG	GPS Time updated: 1385113115540
0:02:58.305800	LOG	PULL_DATA: 02 7b5c 02 0016c001ff1025bf
0:02:58.307455	LOG	PULL_ACK: 02 7b5c 04
0:03:01.710647	LOG	Multiple frames received. Selecting the correct frame...
0:03:01.711647	LOG	Frame selected: {'jver': 1, 'tmst': 3278054952, 'time': '2023-11-27T09:38:19.943400Z', 'tmms': 1385113118943, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 8.5, 'foff': -3278, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA4QMCq6yDIOUPQxK0BeE='}
0:03:01.713661	LOG	First uplink received. Open reception window.
0:03:01.823260	LOG	PUSH_ACK: 02 3046 01
0:03:01.825262	LOG	GPS Time from gateway: 1385113118943

0:03:01.826261	LOG	PUSH_DATA: Protocol version = 02, Token = 3046, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3278054952, 'time': '2023-11-27T09:38:19.943400Z', 'tmms': 1385113118943, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 8.5, 'foff': -3278, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA4QMCq6yDIOUPQxK0BeE='}, {'jver': 1, 'tmst': 3278054953, 'time': '2023-11-27T09:38:19.943401Z', 'tmms': 1385113118943, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -128, 'lsnr': -15.2, 'foff': -3278, 'rssi': -113, 'size': 20, 'data': 'QAAAAACA4QMCq6yDIOUPQxK0BeE='}]}
0:03:01.828262	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03e1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 12b405e1)
0:03:01.829770	LOG	Server <---------- DUT
0:03:01.831777	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0193, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 89cab350)
0:03:01.832777	LOG	Frame command sent to the DUT
0:03:01.834776	LOG	PULL_RESP: Protocol version = 02, Token = 1fca, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3279054952, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAkwHglNuJyrNQ'}}
0:03:01.835775	LOG	Server ----------> DUT
0:03:01.838778	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:01.841778	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:06.714044	LOG	Multiple frames received. Selecting the correct frame...
0:03:06.715580	LOG	Frame selected: {'jver': 1, 'tmst': 3283054700, 'time': '2023-11-27T09:38:24.943149Z', 'tmms': 1385113123943, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 8.5, 'foff': -3276, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA4gMCw3ntNkexnbevK3c='}
0:03:06.718328	LOG	First uplink received. Open reception window.
0:03:06.830733	LOG	PUSH_ACK: 02 e573 01
0:03:06.832701	LOG	GPS Time from gateway: 1385113123943
0:03:06.833701	LOG	PUSH_DATA: Protocol version = 02, Token = e573, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3283054700, 'time': '2023-11-27T09:38:24.943149Z', 'tmms': 1385113123943, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 8.5, 'foff': -3276, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA4gMCw3ntNkexnbevK3c='}, {'jver': 1, 'tmst': 3283054702, 'time': '2023-11-27T09:38:24.943151Z', 'tmms': 1385113123943, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -127, 'lsnr': -14.8, 'foff': -3276, 'rssi': -113, 'size': 20, 'data': 'QAAAAACA4gMCw3ntNkexnbevK3c='}]}
0:03:06.835210	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03e2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b7af2b77)
0:03:06.837216	LOG	Server <---------- DUT
0:03:06.839217	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0194, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 6391fe1a)
0:03:06.841216	LOG	Frame command sent to the DUT
0:03:06.842252	LOG	PULL_RESP: Protocol version = 02, Token = b58f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3284054700, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAlAHgyXVjkf4a'}}
0:03:06.844729	LOG	Server ----------> DUT
0:03:06.847728	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:06.857674	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:08.314243	LOG	GPS Time updated: 1385113125540
0:03:08.315276	LOG	PULL_DATA: 02 5ac3 02 0016c001ff1025bf
0:03:08.317242	LOG	PULL_ACK: 02 5ac3 04
0:03:11.703942	LOG	Multiple frames received. Selecting the correct frame...

0:03:11.704932	LOG	Frame selected: {'jver': 1, 'tmst': 3288054444, 'time': '2023-11-27T09:38:29.942892Z', 'tmms': 1385113128943, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.8, 'foff': -3273, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA4wMCqQxtByqqmQSxSCg='}
0:03:11.706901	LOG	First uplink received. Open reception window.
0:03:11.822670	LOG	PUSH_ACK: 02 beb3 01
0:03:11.824635	LOG	GPS Time from gateway: 1385113128943
0:03:11.825640	LOG	PUSH_DATA: Protocol version = 02, Token = beb3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3288054444, 'time': '2023-11-27T09:38:29.942892Z', 'tmms': 1385113128943, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.8, 'foff': -3273, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA4wMCqQxtByqqmQSxSCg='}, {'jver': 1, 'tmst': 3288054444, 'time': '2023-11-27T09:38:29.942892Z', 'tmms': 1385113128943, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.2, 'foff': -3273, 'rssi': -113, 'size': 20, 'data': 'QAAAAACA4wMCqQxtByqqmQSxSCg='}]}
0:03:11.827640	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03e3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 04b14828)
0:03:11.828640	LOG	Server <---------- DUT
0:03:11.830640	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0195, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 6b262f76)
0:03:11.832641	LOG	Frame command sent to the DUT
0:03:11.833640	LOG	PULL_RESP: Protocol version = 02, Token = 59b3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3289054444, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'oAAAAAAAlQHgUARkaxq5Q0wXO0mpZNG/Phu3izIMIFfjEZCw0IFtCg4sNcguukLiXPFtWwQTf/rt0GitayYvdg=='}}
0:03:11.834639	LOG	Server ----------> DUT
0:03:11.837643	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:11.840210	LOG	Check previous uplink data rate process starts
0:03:11.843752	LOG	Uplink received with expected Data Rate
0:03:11.846756	LOG	Check ACK bit in next uplink process starts
0:03:16.707476	LOG	Multiple frames received. Selecting the correct frame...
0:03:16.708576	LOG	Frame selected: {'jver': 1, 'tmst': 3293057690, 'time': '2023-11-27T09:38:34.946137Z', 'tmms': 1385113133946, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3292, 'rssi': -50, 'size': 12, 'data': 'QAAAAACg5ANCR7be'}
0:03:16.710744	LOG	First uplink received. Open reception window.
0:03:16.821767	LOG	PUSH_ACK: 02 5aeb 01
0:03:16.823735	LOG	GPS Time from gateway: 1385113133946
0:03:16.824735	LOG	PUSH_DATA: Protocol version = 02, Token = 5aeb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3293057690, 'time': '2023-11-27T09:38:34.946137Z', 'tmms': 1385113133946, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3292, 'rssi': -50, 'size': 12, 'data': 'QAAAAACg5ANCR7be'}, {'jver': 1, 'tmst': 3293057699, 'time': '2023-11-27T09:38:34.946146Z', 'tmms': 1385113133946, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -128, 'lsnr': -15.2, 'foff': -3323, 'rssi': -113, 'size': 12, 'data': 'QAAAAACg5ANCR7be'}]}
0:03:16.826736	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 03e4, FOpts:), FPort: , FRMPayload: , MIC: 4247b6de)
0:03:16.827738	LOG	Server <---------- DUT
0:03:16.829743	LOG	ACK bit in FCtrl field is set

0:03:16.832744	LOG	Check ACK bit in next uplink tested successfully
0:03:16.837744	LOG	Send Test Command RxAppCntReq process starts
0:03:18.343936	LOG	GPS Time updated: 1385113135579
0:03:18.344942	LOG	PULL_DATA: 02 b166 02 0016c001ff1025bf
0:03:18.346942	LOG	PULL_ACK: 02 b166 04
0:03:21.713441	LOG	First uplink received. Open reception window.
0:03:21.815596	LOG	PUSH_ACK: 02 7374 01
0:03:21.817564	LOG	GPS Time from gateway: 1385113138942
0:03:21.818564	LOG	PUSH_DATA: Protocol version = 02, Token = 7374, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3298053961, 'time': '2023-11-27T09:38:39.942407Z', 'tmms': 1385113138942, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.0, 'foff': -3271, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA5QMCueYWZlX3udpqCP0='}]}
0:03:21.819564	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03e5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: da6a08fd)
0:03:21.820564	LOG	Server <---------- DUT
0:03:21.822564	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0196, FOpts:), FPort: e0, FRMPayload: 09), MIC: a62765f6)
0:03:21.824564	LOG	Frame command sent to the DUT
0:03:21.825563	LOG	PULL_RESP: Protocol version = 02, Token = 5b82, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3300053961, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAlgHgc6YnZfY='}}
0:03:21.827564	LOG	Server ----------> DUT
0:03:21.830602	LOG	TX_ACK: 02 5b82 05 0016c001ff1025bf
0:03:26.232731	LOG	First uplink received. Open reception window.
0:03:26.340974	LOG	PUSH_ACK: 02 4d7e 01
0:03:26.341974	LOG	GPS Time from gateway: 1385113143467
0:03:26.344484	LOG	PUSH_DATA: Protocol version = 02, Token = 4d7e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3302578883, 'time': '2023-11-27T09:38:44.467327Z', 'tmms': 1385113143467, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.0, 'foff': -3284, 'rssi': -49, 'size': 16, 'data': 'QAAAAACA5gPgXux//KLT0Q=='}]}
0:03:26.345482	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03e6, FOpts:), FPort: e0, FRMPayload: 096c00, MIC: fca2d3d1)
0:03:26.346482	LOG	Server <---------- DUT
0:03:26.348518	LOG	Frame Command Payload in the Answer: 096c00
0:03:26.352516	LOG	RX Count received by DUT: 108
0:03:26.354839	LOG	Send Test Command RxAppCntReq process completed
0:03:26.361884	LOG	Send MAC command block process starts
0:03:28.544169	LOG	GPS Time updated: 1385113145779
0:03:28.545168	LOG	PULL_DATA: 02 8562 02 0016c001ff1025bf
0:03:28.547172	LOG	PULL_ACK: 02 8562 04
0:03:31.708856	LOG	First uplink received. Open reception window.
0:03:31.810083	LOG	PUSH_ACK: 02 cab4 01
0:03:31.811118	LOG	GPS Time from gateway: 1385113148942
0:03:31.813627	LOG	PUSH_DATA: Protocol version = 02, Token = cab4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3308053457, 'time': '2023-11-27T09:38:49.941902Z', 'tmms': 1385113148942, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.2, 'foff': -3270, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA5wMCLznULzQ8PUeA6hM='}]}
0:03:31.814627	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03e7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4780ea13)
0:03:31.815628	LOG	Server <---------- DUT

0:03:31.817660	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0197, FOpts:), FPort: 00, FRMPayload: 03000700010530d2ad84), MIC: 009f70bc)
0:03:31.819642	LOG	PULL_RESP: Protocol version = 02, Token = 3855, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3310053457, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAlwEAd8M53FtTBF3LtQCfcLw='}}
0:03:31.821630	LOG	Server ----------> DUT
0:03:31.825628	LOG	TX_ACK: 02 3855 05 0016c001ff1025bf
0:03:36.870295	LOG	First uplink received. Open reception window.
0:03:36.978368	LOG	PUSH_ACK: 02 0f45 01
0:03:36.980336	LOG	GPS Time from gateway: 1385113154105
0:03:36.981335	LOG	PUSH_DATA: Protocol version = 02, Token = 0f45, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3313217154, 'time': '2023-11-27T09:38:55.105598Z', 'tmms': 1385113154105, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.2, 'foff': -3285, 'rssi': -50, 'size': 24, 'data': 'QAAAAACE6AMDBwUHAq0l5KRnJTfsrqYW'}]}
0:03:36.983337	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 03e8, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: ecaea616)
0:03:36.984336	LOG	Server <---------- DUT
0:03:36.986341	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:03:36.987341	LOG	Command Answer: 03070507
0:03:37.045952	LOG	MAC command communication completed
0:03:37.048830	LOG	Send Test Command RxAppCntReq process starts
0:03:38.753623	LOG	GPS Time updated: 1385113155988
0:03:38.755593	LOG	PULL_DATA: 02 1052 02 0016c001ff1025bf
0:03:38.756593	LOG	PULL_ACK: 02 1052 04
0:03:41.871588	LOG	Multiple frames received. Selecting the correct frame...
0:03:41.873588	LOG	Frame selected: {'jver': 1, 'tmst': 3318216885, 'time': '2023-11-27T09:39:00.105328Z', 'tmms': 1385113159105, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3270, 'rssi': -50, 'size': 22, 'data': 'QAAAAACC6QMFBwJHRBNwEIl3lrC6Gg=='}
0:03:41.875094	LOG	First uplink received. Open reception window.
0:03:41.983648	LOG	PUSH_ACK: 02 bc41 01
0:03:41.985653	LOG	GPS Time from gateway: 1385113159105
0:03:41.986688	LOG	PUSH_DATA: Protocol version = 02, Token = bc41, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3318216885, 'time': '2023-11-27T09:39:00.105328Z', 'tmms': 1385113159105, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3270, 'rssi': -50, 'size': 22, 'data': 'QAAAAACC6QMFBwJHRBNwEIl3lrC6Gg=='}, {'jver': 1, 'tmst': 3318216886, 'time': '2023-11-27T09:39:00.105329Z', 'tmms': 1385113159105, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.0, 'foff': -3269, 'rssi': -113, 'size': 22, 'data': 'QAAAAACC6QMFBwJHRBNwEIl3lrC6Gg=='}]}
0:03:41.987684	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 03e9, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 96b0ba1a)
0:03:41.989662	LOG	Server <---------- DUT
0:03:41.990651	LOG	MAC Command RXParamSetupAns received
0:03:41.992685	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0198, FOpts:), FPort: e0, FRMPayload: 09), MIC: 28da1848)
0:03:41.993682	LOG	Frame command sent to the DUT
0:03:41.994685	LOG	PULL_RESP: Protocol version = 02, Token = cb16, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3320216885, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAmAHg+SjaGEg='}}
0:03:41.996690	LOG	Server ----------> DUT
0:03:41.998912	LOG	TX_ACK: 02 cb16 05 0016c001ff1025bf
0:03:46.397146	LOG	Multiple frames received. Selecting the correct frame...
0:03:46.399170	LOG	Frame selected: {'jver': 1, 'tmst': 3322742734, 'time': '2023-11-27T09:39:04.631176Z', 'tmms': 1385113163631, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3283, 'rssi': -49, 'size': 16, 'data': 'QAAAAACA6gPgSV1PasqrJQ=='}
0:03:46.401116	LOG	First uplink received. Open reception window.
0:03:46.512139	LOG	PUSH_ACK: 02 989f 01
0:03:46.514138	LOG	GPS Time from gateway: 1385113163631
0:03:46.515138	LOG	PUSH_DATA: Protocol version = 02, Token = 989f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3322742734, 'time': '2023-11-27T09:39:04.631176Z', 'tmms': 1385113163631, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3283, 'rssi': -49, 'size': 16, 'data': 'QAAAAACA6gPgSV1PasqrJQ=='}, {'jver': 1, 'tmst': 3322742742, 'time': '2023-11-27T09:39:04.631184Z', 'tmms': 1385113163631, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -126, 'lsnr': -13.2, 'foff': -3314, 'rssi': -113, 'size': 16, 'data': 'QAAAAACA6gPgSV1PasqrJQ=='}]}
0:03:46.516137	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03ea, FOpts:), FPort: e0, FRMPayload: 096d00, MIC: 6acaab25)
0:03:46.517142	LOG	Server <---------- DUT
0:03:46.519142	LOG	Frame Command Payload in the Answer: 096d00
0:03:46.523175	LOG	RX Count received by DUT: 109
0:03:46.525797	LOG	Send Test Command RxAppCntReq process completed
0:03:46.528577	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:03:48.933551	LOG	GPS Time updated: 1385113166163
0:03:48.935559	LOG	PULL_DATA: 02 347d 02 0016c001ff1025bf
0:03:48.936521	LOG	PULL_ACK: 02 347d 04
0:03:51.706294	LOG	Multiple frames received. Selecting the correct frame...
0:03:51.707325	LOG	Frame selected: {'jver': 1, 'tmst': 3328052436, 'time': '2023-11-27T09:39:09.940877Z', 'tmms': 1385113168941, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3271, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA6wMCVnXcDy4ykz2LDpI='}
0:03:51.709294	LOG	First uplink received. Open reception window.
0:03:51.816984	LOG	PUSH_ACK: 02 40a6 01
0:03:51.818953	LOG	GPS Time from gateway: 1385113168941
0:03:51.819953	LOG	PUSH_DATA: Protocol version = 02, Token = 40a6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3328052436, 'time': '2023-11-27T09:39:09.940877Z', 'tmms': 1385113168941, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3271, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA6wMCVnXcDy4ykz2LDpI='}, {'jver': 1, 'tmst': 3328052444, 'time': '2023-11-27T09:39:09.940885Z', 'tmms': 1385113168941, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.2, 'foff': -3300, 'rssi': -113, 'size': 20, 'data': 'QAAAAACA6wMCVnXcDy4ykz2LDpI='}]}
0:03:51.820953	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03eb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3d8b0e92)
0:03:51.822953	LOG	Server <---------- DUT
0:03:51.824953	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0199, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 9d015399)
0:03:51.825953	LOG	Frame command sent to the DUT
0:03:51.826953	LOG	PULL_RESP: Protocol version = 02, Token = 5d9f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3330052436, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAmQHgkFCdAVOZ'}}
0:03:51.828954	LOG	Server ----------> DUT
0:03:51.831961	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:03:51.837961	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:56.709175	LOG	First uplink received. Open reception window.
0:03:56.823052	LOG	PUSH_ACK: 02 cffe 01
0:03:56.825053	LOG	GPS Time from gateway: 1385113173940
0:03:56.827053	LOG	PUSH_DATA: Protocol version = 02, Token = cffe, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3333052214, 'time': '2023-11-27T09:39:14.940653Z', 'tmms': 1385113173940, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 8.0, 'foff': -3281, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA7AMCHd24d/yhT+sKJ78='}]}
0:03:56.828053	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03ec, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: eb0a27bf)
0:03:56.830061	LOG	Server <---------- DUT
0:03:56.832060	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 019a, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 0ed83ec4)
0:03:56.834060	LOG	Frame command sent to the DUT
0:03:56.835059	LOG	PULL_RESP: Protocol version = 02, Token = 4648, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3334052214, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAmgHgTlcO2D7E'}}
0:03:56.837058	LOG	Server ----------> DUT
0:03:56.840060	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:56.843058	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:58.943697	LOG	GPS Time updated: 1385113176174
0:03:58.945665	LOG	PULL_DATA: 02 e90a 02 0016c001ff1025bf
0:03:58.946665	LOG	PULL_ACK: 02 e90a 04
0:04:01.706652	LOG	Multiple frames received. Selecting the correct frame...
0:04:01.708616	LOG	Frame selected: {'jver': 1, 'tmst': 3338051959, 'time': '2023-11-27T09:39:19.940399Z', 'tmms': 1385113178940, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3273, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA7QMCD+v6uBhz+jH7VX4='}
0:04:01.710618	LOG	First uplink received. Open reception window.
0:04:01.823760	LOG	PUSH_ACK: 02 8fd7 01
0:04:01.825727	LOG	GPS Time from gateway: 1385113178940
0:04:01.826728	LOG	PUSH_DATA: Protocol version = 02, Token = 8fd7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3338051951, 'time': '2023-11-27T09:39:19.940391Z', 'tmms': 1385113178940, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.5, 'foff': -3242, 'rssi': -113, 'size': 20, 'data': 'QAAAAACA7QMCD+v6uBhz+jH7VX4='}, {'jver': 1, 'tmst': 3338051959, 'time': '2023-11-27T09:39:19.940399Z', 'tmms': 1385113178940, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3273, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA7QMCD+v6uBhz+jH7VX4='}]}
0:04:01.827728	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03ed, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 31fb557e)
0:04:01.829732	LOG	Server <---------- DUT
0:04:01.831732	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 019b, FOpts:), FPort: e0, FRMPayload: 0700), MIC: b6b7274a)
0:04:01.832731	LOG	Frame command sent to the DUT
0:04:01.834731	LOG	PULL_RESP: Protocol version = 02, Token = f0b1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3339051959, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAmwHg+6C2tydK'}}

0:04:01.835765	LOG	Server ----------> DUT
0:04:01.838734	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:01.841769	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:06.706999	LOG	First uplink received. Open reception window.
0:04:06.812695	LOG	PUSH_ACK: 02 ee02 01
0:04:06.814702	LOG	GPS Time from gateway: 1385113183940
0:04:06.815734	LOG	PUSH_DATA: Protocol version = 02, Token = ee02, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3343051712, 'time': '2023-11-27T09:39:24.940151Z', 'tmms': 1385113183940, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3270, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA7gMCyEOcOZBK9Oh/FoA='}]}
0:04:06.817701	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03ee, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e87f1680)
0:04:06.818700	LOG	Server <---------- DUT
0:04:06.820753	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 019c, FOpts:), FPort: e0, FRMPayload: 0700), MIC: e61ed09f)
0:04:06.822740	LOG	Frame command sent to the DUT
0:04:06.823737	LOG	PULL_RESP: Protocol version = 02, Token = ca13, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3344051712, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAnAHgNtXmHtCf'}}
0:04:06.825735	LOG	Server ----------> DUT
0:04:06.828702	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:06.831707	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:09.133599	LOG	GPS Time updated: 1385113186367
0:04:09.135566	LOG	PULL_DATA: 02 4b3b 02 0016c001ff1025bf
0:04:09.136569	LOG	PULL_ACK: 02 4b3b 04
0:04:11.708099	LOG	Multiple frames received. Selecting the correct frame...
0:04:11.709130	LOG	Frame selected: {'jver': 1, 'tmst': 3348051447, 'time': '2023-11-27T09:39:29.939885Z', 'tmms': 1385113188940, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3272, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA7wMCWk9DtxCKk5JyNUs='}
0:04:11.711116	LOG	First uplink received. Open reception window.
0:04:11.819776	LOG	PUSH_ACK: 02 80d1 01
0:04:11.821744	LOG	GPS Time from gateway: 1385113188940
0:04:11.822777	LOG	PUSH_DATA: Protocol version = 02, Token = 80d1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3348051447, 'time': '2023-11-27T09:39:29.939885Z', 'tmms': 1385113188940, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3272, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA7wMCWk9DtxCKk5JyNUs='}, {'jver': 1, 'tmst': 3348051456, 'time': '2023-11-27T09:39:29.939894Z', 'tmms': 1385113188940, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.2, 'foff': -3302, 'rssi': -113, 'size': 20, 'data': 'QAAAAACA7wMCWk9DtxCKk5JyNUs='}]}
0:04:11.824743	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03ef, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9272354b)
0:04:11.825777	LOG	Server <---------- DUT
0:04:11.827744	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 019d, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 7a073a4b)
0:04:11.828747	LOG	Frame command sent to the DUT
0:04:11.830786	LOG	PULL_RESP: Protocol version = 02, Token = baaf, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3349051447, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAnQHgo696BzpL'}}
0:04:11.831787	LOG	Server ----------> DUT

0:04:11.834753	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:11.842594	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:16.700937	LOG	Multiple frames received. Selecting the correct frame...
0:04:16.701970	LOG	Frame selected: {'jver': 1, 'tmst': 3353051198, 'time': '2023-11-27T09:39:34.939635Z', 'tmms': 1385113193939, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.5, 'foff': -3273, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA8AMCXznGp6CMD60NztU='}
0:04:16.703939	LOG	First uplink received. Open reception window.
0:04:16.807044	LOG	PUSH_ACK: 02 9d4a 01
0:04:16.809048	LOG	GPS Time from gateway: 1385113193939
0:04:16.811051	LOG	PUSH_DATA: Protocol version = 02, Token = 9d4a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3353051190, 'time': '2023-11-27T09:39:34.939627Z', 'tmms': 1385113193939, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.2, 'foff': -3242, 'rssi': -113, 'size': 20, 'data': 'QAAAAACA8AMCXznGp6CMD60NztU='}, {'jver': 1, 'tmst': 3353051198, 'time': '2023-11-27T09:39:34.939635Z', 'tmms': 1385113193939, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.5, 'foff': -3273, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA8AMCXznGp6CMD60NztU='}]}
0:04:16.812056	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03f0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ad0dced5)
0:04:16.814566	LOG	Server <---------- DUT
0:04:16.816569	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 019e, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 6f1564f0)
0:04:16.818601	LOG	Frame command sent to the DUT
0:04:16.819605	LOG	PULL_RESP: Protocol version = 02, Token = 0933, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3354051198, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'oAAAAAAAngHgC8hfalq1vCTWHzO/EEtX17+RPv7sS39tHdOR9b5XiR4DevUl/YGS8OEHCHRODPBVwa4DbxVk8A=='}}
0:04:16.821569	LOG	Server ----------> DUT
0:04:16.824568	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:16.827603	LOG	Check previous uplink data rate process starts
0:04:16.832576	LOG	Uplink received with expected Data Rate
0:04:16.835608	LOG	Check ACK bit in next uplink process starts
0:04:19.344180	LOG	GPS Time updated: 1385113196580
0:04:19.345179	LOG	PULL_DATA: 02 85ac 02 0016c001ff1025bf
0:04:19.347197	LOG	PULL_ACK: 02 85ac 04
0:04:21.703522	LOG	First uplink received. Open reception window.
0:04:21.812768	LOG	PUSH_ACK: 02 fe4c 01
0:04:21.814273	LOG	GPS Time from gateway: 1385113198942
0:04:21.815274	LOG	PUSH_DATA: Protocol version = 02, Token = fe4c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3358053452, 'time': '2023-11-27T09:39:39.941888Z', 'tmms': 1385113198942, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.0, 'foff': -3291, 'rssi': -50, 'size': 12, 'data': 'QAAAAACg8QNPLCnK'}]}
0:04:21.817309	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 03f1, FOpts:), FPort: , FRMPayload: , MIC: 4f2c29ca)
0:04:21.818309	LOG	Server <---------- DUT
0:04:21.820310	LOG	ACK bit in FCtrl field is set
0:04:21.822307	LOG	Check ACK bit in next uplink tested successfully
0:04:21.828274	LOG	Send Test Command RxAppCntReq process starts

0:04:26.966996	LOG	First uplink received. Open reception window.
0:04:27.073539	LOG	PUSH_ACK: 02 d696 01
0:04:27.075509	LOG	GPS Time from gateway: 1385113204198
0:04:27.076508	LOG	PUSH_DATA: Protocol version = 02, Token = d696, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3363309748, 'time': '2023-11-27T09:39:45.198183Z', 'tmms': 1385113204198, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.5, 'foff': -3271, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA8gMCAlhVrj0z6h6lPSI='}]}
0:04:27.077540	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03f2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1ea53d22)
0:04:27.079558	LOG	Server <---------- DUT
0:04:27.080545	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 019f, FOpts:), FPort: e0, FRMPayload: 09), MIC: af3e5d28)
0:04:27.082543	LOG	Frame command sent to the DUT
0:04:27.084543	LOG	PULL_RESP: Protocol version = 02, Token = 6784, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3365309748, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAnwHgnK8+XSg='}}
0:04:27.085543	LOG	Server ----------> DUT
0:04:27.087557	LOG	TX_ACK: 02 6784 05 0016c001ff1025bf
0:04:29.393882	LOG	#**********CURRENT BEACON SENT**********#
0:04:29.394880	LOG	PULL_RESP: Protocol version = 02, Token = 048a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385113216000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAJo9ST5gAAAAAAAAAAA='}}
0:04:29.396415	LOG	Server ----------> DUT
0:04:29.398453	LOG	#**********#
0:04:29.408030	LOG	#**********NEXT BEACON QUEUED**********#
0:04:29.409030	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385113344000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAJ49SR3IAAAAAAAAAAA='}}
0:04:29.410031	LOG	Server ----------> DUT
0:04:29.412036	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 00278f52, CRC1: 4772, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385113344000
0:04:29.413031	LOG	#**********#
0:04:29.414557	LOG	Next BEACON scheduled at GPS time (ms): 1385113472000
0:04:29.415524	LOG	GPS Time updated: 1385113206648
0:04:29.416559	LOG	PULL_DATA: 02 eb0b 02 0016c001ff1025bf
0:04:29.418556	LOG	PULL_ACK: 02 eb0b 04
0:04:29.420522	LOG	TX_ACK: 02 048a 05 0016c001ff1025bf
0:04:31.493519	LOG	First uplink received. Open reception window.
0:04:31.598253	LOG	PUSH_ACK: 02 13fe 01
0:04:31.600221	LOG	GPS Time from gateway: 1385113208723
0:04:31.601225	LOG	PUSH_DATA: Protocol version = 02, Token = 13fe, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3367834608, 'time': '2023-11-27T09:39:49.723043Z', 'tmms': 1385113208723, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 8.5, 'foff': -3285, 'rssi': -50, 'size': 16, 'data': 'QAAAAACA8wPgJXiXxALdsA=='}]}
0:04:31.603225	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03f3, FOpts:), FPort: e0, FRMPayload: 097400, MIC: c402ddb0)

0:04:31.604226	LOG	Server <---------- DUT
0:04:31.605226	LOG	Frame Command Payload in the Answer: 097400
0:04:31.609957	LOG	RX Count received by DUT: 116
0:04:31.611986	LOG	Send Test Command RxAppCntReq process completed
0:04:31.618475	LOG	Send MAC command block process starts
0:04:36.744921	LOG	First uplink received. Open reception window.
0:04:36.850383	LOG	PUSH_ACK: 02 9953 01
0:04:36.852384	LOG	GPS Time from gateway: 1385113213976
0:04:36.853384	LOG	PUSH_DATA: Protocol version = 02, Token = 9953, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3373088259, 'time': '2023-11-27T09:39:54.976693Z', 'tmms': 1385113213976, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3268, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA9AMCWvIX9rbpKZr8j3o='}]}
0:04:36.855383	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03f4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9afc8f7a)
0:04:36.856383	LOG	Server <---------- DUT
0:04:36.859384	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01a0, FOpts:), FPort: 00, FRMPayload: 03000700010540d2ad84), MIC: 91813615)
0:04:36.861391	LOG	PULL_RESP: Protocol version = 02, Token = 3ef0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3375088259, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAoAEA3DsBarc9kdKz1JGBNhU='}}
0:04:36.862422	LOG	Server ----------> DUT
0:04:36.865389	LOG	GW Message b'{"txpk_ack":{"error":"COLLISION_PACKET"}}'
0:04:36.866422	LOG	Waiting a new Uplink to send the frame again
0:04:39.593884	LOG	GPS Time updated: 1385113216825
0:04:39.595519	LOG	PULL_DATA: 02 a468 02 0016c001ff1025bf
0:04:39.596525	LOG	PULL_ACK: 02 a468 04
0:04:41.745228	LOG	First uplink received. Open reception window.
0:04:41.859291	LOG	PUSH_ACK: 02 51fd 01
0:04:41.861292	LOG	GPS Time from gateway: 1385113218976
0:04:41.862328	LOG	PUSH_DATA: Protocol version = 02, Token = 51fd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3378088003, 'time': '2023-11-27T09:39:59.976436Z', 'tmms': 1385113218976, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.5, 'foff': -3270, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA9QMC5f9ahCEQxiPkcc8='}]}
0:04:41.864292	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03f5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 23e471cf)
0:04:41.865289	LOG	Server <---------- DUT
0:04:41.867292	LOG	PULL_RESP: Protocol version = 02, Token = 1d28, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3380088003, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAoAEA3DsBarc9kdKz1JGBNhU='}}
0:04:41.868328	LOG	Server ----------> DUT
0:04:41.873290	LOG	TX_ACK: 02 1d28 05 0016c001ff1025bf
0:04:46.904928	LOG	Multiple frames received. Selecting the correct frame...
0:04:46.906965	LOG	Frame selected: {'jver': 1, 'tmst': 3383251708, 'time': '2023-11-27T09:40:05.140140Z', 'tmms': 1385113224140, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.0, 'foff': -3287, 'rssi': -50, 'size': 24, 'data': 'QAAAAACE9gMDBwUHAtMHolCKy65P4+Q/'}
0:04:46.908971	LOG	First uplink received. Open reception window.
0:04:47.011527	LOG	PUSH_ACK: 02 913b 01
0:04:47.013529	LOG	GPS Time from gateway: 1385113224140

0:04:47.015528	LOG	PUSH_DATA: Protocol version = 02, Token = 913b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3383251708, 'time': '2023-11-27T09:40:05.140140Z', 'tmms': 1385113224140, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.0, 'foff': -3287, 'rssi': -50, 'size': 24, 'data': 'QAAAAACE9gMDBwUHAtMHolCKy65P4+Q/'}, {'jver': 1, 'tmst': 3383251708, 'time': '2023-11-27T09:40:05.140140Z', 'tmms': 1385113224140, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -11.8, 'foff': -3286, 'rssi': -113, 'size': 24, 'data': 'QAAAAACE9gMDBwUHAtMHolCKy65P4+Q/'}]}
0:04:47.016528	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 03f6, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 4fe3e43f)
0:04:47.017533	LOG	Server <---------- DUT
0:04:47.019567	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:04:47.021566	LOG	Command Answer: 03070507
0:04:47.078202	LOG	MAC command communication completed
0:04:47.081273	LOG	Send Test Command RxAppCntReq process starts
0:04:49.644279	LOG	GPS Time updated: 1385113226877
0:04:49.645266	LOG	PULL_DATA: 02 0720 02 0016c001ff1025bf
0:04:49.647240	LOG	PULL_ACK: 02 0720 04
0:04:51.903861	LOG	First uplink received. Open reception window.
0:04:52.018983	LOG	PUSH_ACK: 02 225d 01
0:04:52.020957	LOG	GPS Time from gateway: 1385113229140
0:04:52.021955	LOG	PUSH_DATA: Protocol version = 02, Token = 225d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3388251437, 'time': '2023-11-27T09:40:10.139868Z', 'tmms': 1385113229140, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3271, 'rssi': -50, 'size': 22, 'data': 'QAAAAACC9wMFBwLeHD8NsK8oaQrwPw=='}]}
0:04:52.022955	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 03f7, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 690af03f)
0:04:52.024957	LOG	Server <---------- DUT
0:04:52.025990	LOG	MAC Command RXParamSetupAns received
0:04:52.027989	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01a1, FOpts:), FPort: e0, FRMPayload: 09), MIC: 2e8b21e4)
0:04:52.028991	LOG	Frame command sent to the DUT
0:04:52.029989	LOG	PULL_RESP: Protocol version = 02, Token = 7249, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3390251437, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAoQHgUy6LIeQ='}}
0:04:52.031956	LOG	Server ----------> DUT
0:04:52.034064	LOG	TX_ACK: 02 7249 05 0016c001ff1025bf
0:04:56.436662	LOG	First uplink received. Open reception window.
0:04:56.550052	LOG	PUSH_ACK: 02 31a3 01
0:04:56.552052	LOG	GPS Time from gateway: 1385113233666
0:04:56.553053	LOG	PUSH_DATA: Protocol version = 02, Token = 31a3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3392777352, 'time': '2023-11-27T09:40:14.665781Z', 'tmms': 1385113233666, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.5, 'foff': -3289, 'rssi': -50, 'size': 16, 'data': 'QAAAAACA+APgIyfHMEGOOQ=='}]}
0:04:56.554057	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03f8, FOpts:), FPort: e0, FRMPayload: 097500, MIC: 30418e39)
0:04:56.556057	LOG	Server <---------- DUT
0:04:56.557058	LOG	Frame Command Payload in the Answer: 097500
0:04:56.561057	LOG	RX Count received by DUT: 117
0:04:56.564159	LOG	Send Test Command RxAppCntReq process completed

0:04:56.567160	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:04:59.803821	LOG	GPS Time updated: 1385113237033
0:04:59.805822	LOG	PULL_DATA: 02 2ece 02 0016c001ff1025bf
0:04:59.806791	LOG	PULL_ACK: 02 2ece 04
0:05:01.736205	LOG	First uplink received. Open reception window.
0:05:01.841139	LOG	PUSH_ACK: 02 edb3 01
0:05:01.843141	LOG	GPS Time from gateway: 1385113238975
0:05:01.843141	LOG	PUSH_DATA: Protocol version = 02, Token = edb3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3398086982, 'time': '2023-11-27T09:40:19.975412Z', 'tmms': 1385113238975, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.0, 'foff': -3274, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA+QMCSV3m+fNRFocxWZM='}]}
0:05:01.845650	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03f9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 87315993)
0:05:01.846649	LOG	Server <---------- DUT
0:05:01.849161	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01a2, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 0d64fe92)
0:05:01.851159	LOG	Frame command sent to the DUT
0:05:01.852158	LOG	PULL_RESP: Protocol version = 02, Token = 4c58, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3400086982, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAogHgVSgNZP6S'}}
0:05:01.853158	LOG	Server ----------> DUT
0:05:01.856162	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:05:01.861992	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:06.740190	LOG	Multiple frames received. Selecting the correct frame...
0:05:06.742198	LOG	Frame selected: {'jver': 1, 'tmst': 3403086739, 'time': '2023-11-27T09:40:24.975168Z', 'tmms': 1385113243975, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 7.8, 'foff': -3285, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA+gMCAOwzMe7MttgWTjs='}
0:05:06.743813	LOG	First uplink received. Open reception window.
0:05:06.847685	LOG	PUSH_ACK: 02 7b7d 01
0:05:06.849649	LOG	GPS Time from gateway: 1385113243975
0:05:06.852154	LOG	PUSH_DATA: Protocol version = 02, Token = 7b7d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3403086739, 'time': '2023-11-27T09:40:24.975168Z', 'tmms': 1385113243975, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 7.8, 'foff': -3285, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA+gMCAOwzMe7MttgWTjs='}, {'jver': 1, 'tmst': 3403086740, 'time': '2023-11-27T09:40:24.975169Z', 'tmms': 1385113243975, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -124, 'lsnr': -11.8, 'foff': -3284, 'rssi': -113, 'size': 20, 'data': 'QAAAAACA+gMCAOwzMe7MttgWTjs='}]}
0:05:06.853198	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03fa, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d8164e3b)
0:05:06.855171	LOG	Server <---------- DUT
0:05:06.857162	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01a3, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 51fb1131)
0:05:06.859182	LOG	Frame command sent to the DUT
0:05:06.861227	LOG	PULL_RESP: Protocol version = 02, Token = 3083, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3404086739, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAowHgPFBR+xEx'}}
0:05:06.862233	LOG	Server ----------> DUT
0:05:06.865201	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:06.868230	LOG	Send Test Command TxFramesCtrlReq process starts

0:05:10.013451	LOG	GPS Time updated: 1385113247246
0:05:10.015420	LOG	PULL_DATA: 02 4979 02 0016c001ff1025bf
0:05:10.017424	LOG	PULL_ACK: 02 4979 04
0:05:11.745606	LOG	Multiple frames received. Selecting the correct frame...
0:05:11.746638	LOG	Frame selected: {'jver': 1, 'tmst': 3408086484, 'time': '2023-11-27T09:40:29.974912Z', 'tmms': 1385113248975, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.5, 'foff': -3280, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA+wMCc+znmcVZlmzk8Xc='}
0:05:11.749285	LOG	First uplink received. Open reception window.
0:05:11.857251	LOG	PUSH_ACK: 02 c91f 01
0:05:11.859220	LOG	GPS Time from gateway: 1385113248975
0:05:11.860219	LOG	PUSH_DATA: Protocol version = 02, Token = c91f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3408086484, 'time': '2023-11-27T09:40:29.974912Z', 'tmms': 1385113248975, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.5, 'foff': -3280, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA+wMCc+znmcVZlmzk8Xc='}, {'jver': 1, 'tmst': 3408086485, 'time': '2023-11-27T09:40:29.974913Z', 'tmms': 1385113248975, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.2, 'foff': -3278, 'rssi': -113, 'size': 20, 'data': 'QAAAAACA+wMCc+znmcVZlmzk8Xc='}]}
0:05:11.862258	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03fb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6ce4f177)
0:05:11.863257	LOG	Server <---------- DUT
0:05:11.865225	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01a4, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 0bfd2dc2)
0:05:11.867225	LOG	Frame command sent to the DUT
0:05:11.868256	LOG	PULL_RESP: Protocol version = 02, Token = 4981, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3409086484, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAApAHg4IgL/S3C'}}
0:05:11.869256	LOG	Server ----------> DUT
0:05:11.872237	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:11.875730	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:16.741213	LOG	First uplink received. Open reception window.
0:05:16.844519	LOG	PUSH_ACK: 02 10b5 01
0:05:16.846560	LOG	GPS Time from gateway: 1385113253974
0:05:16.848527	LOG	PUSH_DATA: Protocol version = 02, Token = 10b5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3413086223, 'time': '2023-11-27T09:40:34.974650Z', 'tmms': 1385113253974, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 8.2, 'foff': -3278, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA/AMCu7s4mvBVl6Ke37Y='}]}
0:05:16.849573	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03fc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a29edfb6)
0:05:16.851554	LOG	Server <---------- DUT
0:05:16.853527	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01a5, FOpts:), FPort: e0, FRMPayload: 0700), MIC: f854694a)
0:05:16.855533	LOG	Frame command sent to the DUT
0:05:16.856558	LOG	PULL_RESP: Protocol version = 02, Token = 0fbb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3414086223, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAApQHgYM/4VGlK'}}
0:05:16.858561	LOG	Server ----------> DUT
0:05:16.861152	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:16.865171	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:20.213930	LOG	GPS Time updated: 1385113257446

0:05:20.214964	LOG	PULL_DATA: 02 b3c4 02 0016c001ff1025bf
0:05:20.216931	LOG	PULL_ACK: 02 b3c4 04
0:05:21.739371	LOG	First uplink received. Open reception window.
0:05:21.850232	LOG	PUSH_ACK: 02 2cc8 01
0:05:21.852270	LOG	GPS Time from gateway: 1385113258974
0:05:21.853269	LOG	PUSH_DATA: Protocol version = 02, Token = 2cc8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3418085968, 'time': '2023-11-27T09:40:39.974394Z', 'tmms': 1385113258974, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3279, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA/QMC9x4z1e9hiqW+Guo='}]}
0:05:21.854269	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03fd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a5be1aea)
0:05:21.856237	LOG	Server <---------- DUT
0:05:21.858237	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01a6, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 7872676d)
0:05:21.859236	LOG	Frame command sent to the DUT
0:05:21.861238	LOG	PULL_RESP: Protocol version = 02, Token = 1e16, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3419085968, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAApgHgSZV4cmdt'}}
0:05:21.862269	LOG	Server ----------> DUT
0:05:21.865241	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:21.874761	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:26.936798	LOG	Multiple frames received. Selecting the correct frame...
0:05:26.937798	LOG	Frame selected: {'jver': 1, 'tmst': 3423284656, 'time': '2023-11-27T09:40:45.173080Z', 'tmms': 1385113264173, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3280, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA/gMC4NZ0L2ONdLVpsbU='}
0:05:26.939800	LOG	First uplink received. Open reception window.
0:05:27.052108	LOG	PUSH_ACK: 02 55be 01
0:05:27.054109	LOG	GPS Time from gateway: 1385113264173
0:05:27.055151	LOG	PUSH_DATA: Protocol version = 02, Token = 55be, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3423284656, 'time': '2023-11-27T09:40:45.173080Z', 'tmms': 1385113264173, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3280, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA/gMC4NZ0L2ONdLVpsbU='}, {'jver': 1, 'tmst': 3423284656, 'time': '2023-11-27T09:40:45.173080Z', 'tmms': 1385113264173, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -126, 'lsnr': -13.8, 'foff': -3278, 'rssi': -113, 'size': 20, 'data': 'QAAAAACA/gMC4NZ0L2ONdLVpsbU='}]}
0:05:27.057154	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 03fe, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b569b1b5)
0:05:27.058143	LOG	Server <---------- DUT
0:05:27.060111	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01a7, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c13f1527)
0:05:27.062110	LOG	Frame command sent to the DUT
0:05:27.063615	LOG	PULL_RESP: Protocol version = 02, Token = c3d0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3424284656, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'oAAAAAAApwHgMB99zxs6FVCNKd7q7y8cjctJ5SP7cqdP5JRiHKLN3qlgmNSxtYmKqMrTwZC1l6RT1ep4wT8VJw=='}}
0:05:27.064656	LOG	Server ----------> DUT
0:05:27.067657	LOG	Send Test Command TxFramesCtrlReq process completed

0:05:27.070629	LOG	Check previous uplink data rate process starts
0:05:27.075029	LOG	Uplink received with expected Data Rate
0:05:27.078027	LOG	Check ACK bit in next uplink process starts
0:05:30.423298	LOG	GPS Time updated: 1385113267657
0:05:30.425334	LOG	PULL_DATA: 02 035d 02 0016c001ff1025bf
0:05:30.426303	LOG	PULL_ACK: 02 035d 04
0:05:31.938723	LOG	First uplink received. Open reception window.
0:05:32.042449	LOG	PUSH_ACK: 02 5201 01
0:05:32.044417	LOG	GPS Time from gateway: 1385113269176
0:05:32.045418	LOG	PUSH_DATA: Protocol version = 02, Token = 5201, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3428287534, 'time': '2023-11-27T09:40:50.175959Z', 'tmms': 1385113269176, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.8, 'foff': -3298, 'rssi': -50, 'size': 12, 'data': 'QAAAAACg/wPxLviZ'}]}
0:05:32.046417	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 03ff, FOpts:), FPort: , FRMPayload: , MIC: f12ef899)
0:05:32.047417	LOG	Server <---------- DUT
0:05:32.049422	LOG	ACK bit in FCtrl field is set
0:05:32.052421	LOG	Check ACK bit in next uplink tested successfully
0:05:32.057109	LOG	Send Test Command RxAppCntReq process starts
0:05:36.744849	LOG	First uplink received. Open reception window.
0:05:36.857224	LOG	PUSH_ACK: 02 7383 01
0:05:36.859220	LOG	GPS Time from gateway: 1385113273973
0:05:36.860242	LOG	PUSH_DATA: Protocol version = 02, Token = 7383, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3433085208, 'time': '2023-11-27T09:40:54.973632Z', 'tmms': 1385113273973, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.2, 'foff': -3276, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAAAQCVPcMZXk44wj7kho='}]}
0:05:36.862261	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0400, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 08fb921a)
0:05:36.863280	LOG	Server <---------- DUT
0:05:36.865246	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01a8, FOpts:), FPort: e0, FRMPayload: 09), MIC: 265e8444)
0:05:36.867249	LOG	Frame command sent to the DUT
0:05:36.868254	LOG	PULL_RESP: Protocol version = 02, Token = 05d2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3435085208, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAqAHgDiZehEQ='}}
0:05:36.869280	LOG	Server ----------> DUT
0:05:36.872259	LOG	TX_ACK: 02 05d2 05 0016c001ff1025bf
0:05:40.433536	LOG	GPS Time updated: 1385113277663
0:05:40.435505	LOG	PULL_DATA: 02 a4a1 02 0016c001ff1025bf
0:05:40.436538	LOG	PULL_ACK: 02 a4a1 04
0:05:41.268528	LOG	Multiple frames received. Selecting the correct frame...
0:05:41.269526	LOG	Frame selected: {'jver': 1, 'tmst': 3437610110, 'time': '2023-11-27T09:40:59.498533Z', 'tmms': 1385113278498, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3292, 'rssi': -50, 'size': 16, 'data': 'QAAAAACAAQTgMtl3Q+KWcg=='}
0:05:41.271162	LOG	First uplink received. Open reception window.
0:05:41.386817	LOG	PUSH_ACK: 02 5291 01
0:05:41.388321	LOG	GPS Time from gateway: 1385113278498
0:05:41.390329	LOG	PUSH_DATA: Protocol version = 02, Token = 5291, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3437610102, 'time': '2023-11-27T09:40:59.498525Z', 'tmms': 1385113278498, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -128, 'lsnr': -15.8, 'foff': -3260,

		'rssi': -113, 'size': 16, 'data': 'QAAAAACAAQTgMtl3Q+KWcg=='}, {'jver': 1, 'tmst': 3437610110, 'time': '2023-11-27T09:40:59.498533Z', 'tmms': 1385113278498, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3292, 'rssi': -50, 'size': 16, 'data': 'QAAAAACAAQTgMtl3Q+KWcg=='}]}
0:05:41.391326	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0401, FOpts:), FPort: e0, FRMPayload: 097c00, MIC: 43e29672)
0:05:41.392325	LOG	Server <---------- DUT
0:05:41.394330	LOG	Frame Command Payload in the Answer: 097c00
0:05:41.398487	LOG	RX Count received by DUT: 124
0:05:41.400496	LOG	Send Test Command RxAppCntReq process completed
0:05:41.406497	LOG	Send MAC command block process starts
0:05:46.736723	LOG	Multiple frames received. Selecting the correct frame...
0:05:46.738725	LOG	Frame selected: {'jver': 1, 'tmst': 3443084692, 'time': '2023-11-27T09:41:04.973114Z', 'tmms': 1385113283973, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.0, 'foff': -3280, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAAgQCkVQ5ddGROy/UIYI='}
0:05:46.740725	LOG	First uplink received. Open reception window.
0:05:46.845013	LOG	PUSH_ACK: 02 55cd 01
0:05:46.847018	LOG	GPS Time from gateway: 1385113283973
0:05:46.849021	LOG	PUSH_DATA: Protocol version = 02, Token = 55cd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3443084692, 'time': '2023-11-27T09:41:04.973114Z', 'tmms': 1385113283973, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.0, 'foff': -3280, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAAgQCkVQ5ddGROy/UIYI='}, {'jver': 1, 'tmst': 3443084693, 'time': '2023-11-27T09:41:04.973115Z', 'tmms': 1385113283973, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -126, 'lsnr': -13.8, 'foff': -3280, 'rssi': -113, 'size': 20, 'data': 'QAAAAACAAgQCkVQ5ddGROy/UIYI='}]}
0:05:46.850050	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0402, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2fd42182)
0:05:46.852021	LOG	Server <---------- DUT
0:05:46.854021	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01a9, FOpts:), FPort: 00, FRMPayload: 03000700010550d2ad84), MIC: 4ec29d5d)
0:05:46.856021	LOG	PULL_RESP: Protocol version = 02, Token = 97f1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3445084692, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAqQEAZKdsLX//z5Zbg07CnV0='}}
0:05:46.857048	LOG	Server ----------> DUT
0:05:46.860019	LOG	TX_ACK: 02 97f1 05 0016c001ff1025bf
0:05:50.634042	LOG	GPS Time updated: 1385113287867
0:05:50.635009	LOG	PULL_DATA: 02 46d8 02 0016c001ff1025bf
0:05:50.637009	LOG	PULL_ACK: 02 46d8 04
0:05:51.908043	LOG	Multiple frames received. Selecting the correct frame...
0:05:51.910049	LOG	Frame selected: {'jver': 1, 'tmst': 3448248399, 'time': '2023-11-27T09:41:10.136820Z', 'tmms': 1385113289137, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.5, 'foff': -3293, 'rssi': -51, 'size': 24, 'data': 'QAAAAACEAwQDBwUHAnrs/5dyyFQVAmIP'}
0:05:51.911081	LOG	First uplink received. Open reception window.
0:05:52.017415	LOG	PUSH_ACK: 02 bd56 01
0:05:52.019420	LOG	GPS Time from gateway: 1385113289137
0:05:52.020453	LOG	PUSH_DATA: Protocol version = 02, Token = bd56, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3448248399, 'time': '2023-11-27T09:41:10.136820Z', 'tmms': 1385113289137, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.5, 'foff': -3293, 'rssi': -51, 'size': 24, 'data': 'QAAAAACEAwQDBwUHAnrs/5dyyFQVAmIP'}, {'jver': 1, 'tmst': 3448248400, 'time': '2023-11-27T09:41:10.136821Z', 'tmms': 1385113289137, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -126, 'lsnr': -13.5, 'foff': -3292, 'rssi': -113, 'size': 24, 'data': 'QAAAAACEAwQDBwUHAnrs/5dyyFQVAmIP'}]}
0:05:52.022453	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0403, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 1502620f)
0:05:52.023454	LOG	Server <---------- DUT
0:05:52.025423	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:05:52.026453	LOG	Command Answer: 03070507
0:05:52.084847	LOG	MAC command communication completed
0:05:52.087879	LOG	Send Test Command RxAppCntReq process starts
0:05:56.898196	LOG	First uplink received. Open reception window.
0:05:57.005255	LOG	PUSH_ACK: 02 8de8 01
0:05:57.007224	LOG	GPS Time from gateway: 1385113294136
0:05:57.008222	LOG	PUSH_DATA: Protocol version = 02, Token = 8de8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3453248127, 'time': '2023-11-27T09:41:15.136546Z', 'tmms': 1385113294136, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.2, 'foff': -3274, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCBAQFBwIYeypxY5gslWx3Ww=='}]}
0:05:57.009222	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0404, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 956c775b)
0:05:57.011223	LOG	Server <---------- DUT
0:05:57.012223	LOG	MAC Command RXParamSetupAns received
0:05:57.014223	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01aa, FOpts:), FPort: e0, FRMPayload: 09), MIC: 1d671d75)
0:05:57.015222	LOG	Frame command sent to the DUT
0:05:57.017223	LOG	PULL_RESP: Protocol version = 02, Token = 7b87, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3455248127, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAqgHgWx1nHXU='}}
0:05:57.018228	LOG	Server ----------> DUT
0:05:57.020228	LOG	TX_ACK: 02 7b87 05 0016c001ff1025bf
0:06:00.794101	LOG	GPS Time updated: 1385113298032
0:06:00.795099	LOG	PULL_DATA: 02 7a41 02 0016c001ff1025bf
0:06:00.797069	LOG	PULL_ACK: 02 7a41 04
0:06:01.431108	LOG	First uplink received. Open reception window.
0:06:01.536443	LOG	PUSH_ACK: 02 acf1 01
0:06:01.537949	LOG	GPS Time from gateway: 1385113298662
0:06:01.539950	LOG	PUSH_DATA: Protocol version = 02, Token = acf1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3457773410, 'time': '2023-11-27T09:41:19.661830Z', 'tmms': 1385113298662, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 8.8, 'foff': -3283, 'rssi': -51, 'size': 16, 'data': 'QAAAAACABQTgYP+evhvm6A=='}]}
0:06:01.540950	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0405, FOpts:), FPort: e0, FRMPayload: 097d00, MIC: be1be6e8)
0:06:01.541949	LOG	Server <---------- DUT
0:06:01.543953	LOG	Frame Command Payload in the Answer: 097d00
0:06:01.547950	LOG	RX Count received by DUT: 125
0:06:01.549990	LOG	Send Test Command RxAppCntReq process completed
0:06:01.553244	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:06:06.735218	LOG	First uplink received. Open reception window.
0:06:06.845250	LOG	PUSH_ACK: 02 99d8 01

0:06:06.847663	LOG	GPS Time from gateway: 1385113303972
0:06:06.849758	LOG	PUSH_DATA: Protocol version = 02, Token = 99d8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3463083669, 'time': '2023-11-27T09:41:24.972088Z', 'tmms': 1385113303972, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.0, 'foff': -3272, 'rssi': -51, 'size': 20, 'data': 'QAAAAACABgQC6X7v0xxLAWJZNNg='}]}
0:06:06.850932	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0406, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 625934d8)
0:06:06.852502	LOG	Server <---------- DUT
0:06:06.854661	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01ab, FOpts:), FPort: e0, FRMPayload: 0500), MIC: c9463e89)
0:06:06.856768	LOG	Frame command sent to the DUT
0:06:06.857955	LOG	PULL_RESP: Protocol version = 02, Token = 9981, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3465083669, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAqwHg82DJRj6J'}}
0:06:06.858988	LOG	Server ----------> DUT
0:06:06.862981	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:06:06.868004	LOG	Send Test Command TxFramesCtrlReq process starts
0:06:10.844068	LOG	GPS Time updated: 1385113308081
0:06:10.845067	LOG	PULL_DATA: 02 b9ee 02 0016c001ff1025bf
0:06:10.846507	LOG	PULL_ACK: 02 b9ee 04
0:06:11.741033	LOG	Multiple frames received. Selecting the correct frame...
0:06:11.743041	LOG	Frame selected: {'jver': 1, 'tmst': 3468083420, 'time': '2023-11-27T09:41:29.971838Z', 'tmms': 1385113308972, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 8.5, 'foff': -3280, 'rssi': -51, 'size': 20, 'data': 'QAAAAACABwQCKtoVYAzE6A8QjB8='}
0:06:11.743888	LOG	First uplink received. Open reception window.
0:06:11.847737	LOG	PUSH_ACK: 02 96bd 01
0:06:11.849739	LOG	GPS Time from gateway: 1385113308972
0:06:11.851740	LOG	PUSH_DATA: Protocol version = 02, Token = 96bd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3468083420, 'time': '2023-11-27T09:41:29.971838Z', 'tmms': 1385113308972, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 8.5, 'foff': -3280, 'rssi': -51, 'size': 20, 'data': 'QAAAAACABwQCKtoVYAzE6A8QjB8='}, {'jver': 1, 'tmst': 3468083422, 'time': '2023-11-27T09:41:29.971840Z', 'tmms': 1385113308972, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -127, 'lsnr': -14.0, 'foff': -3279, 'rssi': -113, 'size': 20, 'data': 'QAAAAACABwQCKtoVYAzE6A8QjB8='}]}
0:06:11.852774	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0407, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0f108c1f)
0:06:11.854744	LOG	Server <---------- DUT
0:06:11.856741	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01ac, FOpts:), FPort: e0, FRMPayload: 0700), MIC: f993c7fa)
0:06:11.857741	LOG	Frame command sent to the DUT
0:06:11.859740	LOG	PULL_RESP: Protocol version = 02, Token = 5821, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3469083420, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAArAHgeeb5k8f6'}}
0:06:11.860742	LOG	Server ----------> DUT
0:06:11.864754	LOG	Send Test Command TxFramesCtrlReq process completed
0:06:11.868193	LOG	Send Test Command TxFramesCtrlReq process starts
0:06:16.732902	LOG	Multiple frames received. Selecting the correct frame...
0:06:16.734872	LOG	Frame selected: {'jver': 1, 'tmst': 3473083164, 'time': '2023-11-27T09:41:34.971581Z', 'tmms': 1385113313971, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr':

		9.8, 'foff': -3274, 'rssi': -51, 'size': 20, 'data': 'QAAAAACACAQCaFrO4YfhkNWmBWs='}
0:06:16.736869	LOG	First uplink received. Open reception window.
0:06:16.837114	LOG	PUSH_ACK: 02 d29e 01
0:06:16.840114	LOG	GPS Time from gateway: 1385113313971
0:06:16.841796	LOG	PUSH_DATA: Protocol version = 02, Token = d29e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3473083164, 'time': '2023-11-27T09:41:34.971581Z', 'tmms': 1385113313971, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.8, 'foff': -3274, 'rssi': -51, 'size': 20, 'data': 'QAAAAACACAQCaFrO4YfhkNWmBWs='}, {'jver': 1, 'tmst': 3473083164, 'time': '2023-11-27T09:41:34.971581Z', 'tmms': 1385113313971, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.0, 'foff': -3273, 'rssi': -113, 'size': 20, 'data': 'QAAAAACACAQCaFrO4YfhkNWmBWs='}]}
0:06:16.843390	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0408, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d5a6056b)
0:06:16.845081	LOG	Server <---------- DUT
0:06:16.847240	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01ad, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 93cf2063)
0:06:16.849492	LOG	Frame command sent to the DUT
0:06:16.851489	LOG	PULL_RESP: Protocol version = 02, Token = 7603, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3474083164, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAArQHg5v6TzyBj'}}
0:06:16.853176	LOG	Server ----------> DUT
0:06:16.856702	LOG	Send Test Command TxFramesCtrlReq process completed
0:06:16.860724	LOG	Send Test Command TxFramesCtrlReq process starts
0:06:20.853458	LOG	GPS Time updated: 1385113318088
0:06:20.855428	LOG	PULL_DATA: 02 211a 02 0016c001ff1025bf
0:06:20.857427	LOG	PULL_ACK: 02 211a 04
0:06:21.739422	LOG	Multiple frames received. Selecting the correct frame...
0:06:21.740405	LOG	Frame selected: {'jver': 1, 'tmst': 3478082908, 'time': '2023-11-27T09:41:39.971323Z', 'tmms': 1385113318971, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.0, 'foff': -3272, 'rssi': -51, 'size': 20, 'data': 'QAAAAACACQQCzCb/ez0oH441CJY='}
0:06:21.742410	LOG	First uplink received. Open reception window.
0:06:21.843184	LOG	PUSH_ACK: 02 e773 01
0:06:21.845151	LOG	GPS Time from gateway: 1385113318971
0:06:21.846660	LOG	PUSH_DATA: Protocol version = 02, Token = e773, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3478082908, 'time': '2023-11-27T09:41:39.971323Z', 'tmms': 1385113318971, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.0, 'foff': -3272, 'rssi': -51, 'size': 20, 'data': 'QAAAAACACQQCzCb/ez0oH441CJY='}, {'jver': 1, 'tmst': 3478082917, 'time': '2023-11-27T09:41:39.971332Z', 'tmms': 1385113318971, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.2, 'foff': -3302, 'rssi': -114, 'size': 20, 'data': 'QAAAAACACQQCzCb/ez0oH441CJY='}]}
0:06:21.847659	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0409, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8e350896)
0:06:21.848659	LOG	Server <---------- DUT
0:06:21.850668	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01ae, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 81f8dad6)
0:06:21.852660	LOG	Frame command sent to the DUT
0:06:21.854661	LOG	PULL_RESP: Protocol version = 02, Token = 41ac, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3479082908, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAArgHgUBuB+NrW'}}
0:06:21.855659	LOG	Server ----------> DUT
0:06:21.858705	LOG	Send Test Command TxFramesCtrlReq process completed
0:06:21.861731	LOG	Send Test Command TxFramesCtrlReq process starts
0:06:26.928602	LOG	Multiple frames received. Selecting the correct frame...
0:06:26.930107	LOG	Frame selected: {'jver': 1, 'tmst': 3483270550, 'time': '2023-11-27T09:41:45.158964Z', 'tmms': 1385113324159, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 8.5, 'foff': -3271, 'rssi': -51, 'size': 20, 'data': 'QAAAAACACgQCllyY3+KhZWklPzY='}
0:06:26.932116	LOG	First uplink received. Open reception window.
0:06:27.040967	LOG	PUSH_ACK: 02 ab3c 01
0:06:27.042967	LOG	GPS Time from gateway: 1385113324159
0:06:27.043970	LOG	PUSH_DATA: Protocol version = 02, Token = ab3c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3483270550, 'time': '2023-11-27T09:41:45.158964Z', 'tmms': 1385113324159, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 8.5, 'foff': -3271, 'rssi': -51, 'size': 20, 'data': 'QAAAAACACgQCllyY3+KhZWklPzY='}, {'jver': 1, 'tmst': 3483270550, 'time': '2023-11-27T09:41:45.158964Z', 'tmms': 1385113324159, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.2, 'foff': -3270, 'rssi': -113, 'size': 20, 'data': 'QAAAAACACgQCllyY3+KhZWklPzY='}]}
0:06:27.045968	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 040a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 69253f36)
0:06:27.046968	LOG	Server <---------- DUT
0:06:27.048971	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01af, FOpts:), FPort: e0, FRMPayload: 0700), MIC: ac08bbb8)
0:06:27.050978	LOG	Frame command sent to the DUT
0:06:27.051976	LOG	PULL_RESP: Protocol version = 02, Token = b57b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3484270550, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAArwHgeeqsCLu4'}}
0:06:27.052977	LOG	Server ----------> DUT
0:06:27.056663	LOG	Send Test Command TxFramesCtrlReq process completed
0:06:27.066131	LOG	Send Test Command TxFramesCtrlReq process starts
0:06:31.043446	LOG	GPS Time updated: 1385113328270
0:06:31.045448	LOG	PULL_DATA: 02 40ba 02 0016c001ff1025bf
0:06:31.046449	LOG	PULL_ACK: 02 40ba 04
0:06:31.740723	LOG	Multiple frames received. Selecting the correct frame...
0:06:31.741755	LOG	Frame selected: {'jver': 1, 'tmst': 3488082407, 'time': '2023-11-27T09:41:49.970822Z', 'tmms': 1385113328971, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.0, 'foff': -3270, 'rssi': -51, 'size': 20, 'data': 'QAAAAACACwQC7WGqklYIF/Rzu5o='}
0:06:31.743757	LOG	First uplink received. Open reception window.
0:06:31.845358	LOG	PUSH_ACK: 02 da87 01
0:06:31.847362	LOG	GPS Time from gateway: 1385113328971
0:06:31.848362	LOG	PUSH_DATA: Protocol version = 02, Token = da87, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3488082407, 'time': '2023-11-27T09:41:49.970822Z', 'tmms': 1385113328971, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.2, 'foff': -3270, 'rssi': -114, 'size': 20, 'data': 'QAAAAACACwQC7WGqklYIF/Rzu5o='}, {'jver': 1, 'tmst': 3488082407, 'time': '2023-11-27T09:41:49.970822Z', 'tmms': 1385113328971, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.0, 'foff': -3270, 'rssi': -51, 'size': 20, 'data': 'QAAAAACACwQC7WGqklYIF/Rzu5o='}]}

0:06:31.849363	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 040b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f473bb9a)
0:06:31.851363	LOG	Server <---------- DUT
0:06:31.853363	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01b0, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 61fdcf76)
0:06:31.854362	LOG	Frame command sent to the DUT
0:06:31.856363	LOG	PULL_RESP: Protocol version = 02, Token = 17dc, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3489082407, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'oAAAAAAAsAHgKn0/jgFyN6FkrBqzBDApQSYboik52kG7tAwXbL/NyCmOWSpvpLj7yqWmkjNzvmf4XaXRYf3Pdg==\'}}
0:06:31.857363	LOG	Server ----------> DUT
0:06:31.860364	LOG	Send Test Command TxFramesCtrlReq process completed
0:06:31.863370	LOG	Check previous uplink data rate process starts
0:06:31.867816	LOG	Uplink received with expected Data Rate
0:06:31.870454	LOG	Check ACK bit in next uplink process starts
0:06:36.742936	LOG	First uplink received. Open reception window.
0:06:36.852133	LOG	PUSH_ACK: 02 9397 01
0:06:36.854274	LOG	GPS Time from gateway: 1385113333973
0:06:36.855944	LOG	PUSH_DATA: Protocol version = 02, Token = 9397, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3493085000, 'time': '2023-11-27T09:41:54.973414Z', 'tmms': 1385113333973, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.8, 'foff': -3288, 'rssi': -51, 'size': 12, 'data': 'QAAAAACgDARW7Lyd'}]}
0:06:36.857578	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 040c, FOpts:), FPort: , FRMPayload: , MIC: 56ecbc9d)
0:06:36.859207	LOG	Server <---------- DUT
0:06:36.861391	LOG	ACK bit in FCtrl field is set
0:06:36.864104	LOG	Check ACK bit in next uplink tested successfully
0:06:36.870174	LOG	Send Test Command RxAppCntReq process starts
0:06:41.093349	LOG	#**********CURRENT BEACON SENT**********#
0:06:41.095350	LOG	PULL_RESP: Protocol version = 02, Token = c3f3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385113344000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAJ49SR3IAAAAAAAAAAA=\'}}
0:06:41.096463	LOG	Server ----------> DUT
0:06:41.098482	LOG	#**********#
0:06:41.107463	LOG	#**********NEXT BEACON QUEUED**********#
0:06:41.109464	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385113472000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAJ49Sf68AAAAAAAAAAA=\'}}
0:06:41.110463	LOG	Server ----------> DUT
0:06:41.112469	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 80278f52, CRC1: 7faf, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385113472000
0:06:41.113476	LOG	#**********#
0:06:41.114501	LOG	Next BEACON scheduled at GPS time (ms): 1385113600000
0:06:41.115501	LOG	GPS Time updated: 1385113338346

0:06:41.117470	LOG	PULL_DATA: 02 dd20 02 0016c001ff1025bf
0:06:41.118501	LOG	PULL_ACK: 02 dd20 04
0:06:41.119500	LOG	TX_ACK: 02 c3f3 05 0016c001ff1025bf
0:06:41.741230	LOG	First uplink received. Open reception window.
0:06:41.856622	LOG	PUSH_ACK: 02 7f57 01
0:06:41.858623	LOG	GPS Time from gateway: 1385113338970
0:06:41.859632	LOG	PUSH_DATA: Protocol version = 02, Token = 7f57, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3498081891, 'time': '2023-11-27T09:41:59.970304Z', 'tmms': 1385113338970, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.5, 'foff': -3267, 'rssi': -51, 'size': 20, 'data': 'QAAAAACADQQCbtNeOISw/yxwA/Y='}]}
0:06:41.860623	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 040d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2c7003f6)
0:06:41.862628	LOG	Server <---------- DUT
0:06:41.863629	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01b1, FOpts:), FPort: e0, FRMPayload: 09), MIC: c9cbb63f)
0:06:41.865662	LOG	Frame command sent to the DUT
0:06:41.867631	LOG	PULL_RESP: Protocol version = 02, Token = c18e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3500081891, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAsQHgZcnLtj8='}}
0:06:41.868663	LOG	Server ----------> DUT
0:06:41.871663	LOG	TX_ACK: 02 c18e 05 0016c001ff1025bf
0:06:46.263554	LOG	Multiple frames received. Selecting the correct frame...
0:06:46.265519	LOG	Frame selected: {'jver': 1, 'tmst': 3502607338, 'time': '2023-11-27T09:42:04.495750Z', 'tmms': 1385113343495, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.8, 'foff': -3283, 'rssi': -51, 'size': 16, 'data': 'QAAAAACADgTgkPqC1uTPYw=='}
0:06:46.267521	LOG	First uplink received. Open reception window.
0:06:46.375807	LOG	PUSH_ACK: 02 612b 01
0:06:46.377346	LOG	GPS Time from gateway: 1385113343495
0:06:46.379353	LOG	PUSH_DATA: Protocol version = 02, Token = 612b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3502607338, 'time': '2023-11-27T09:42:04.495750Z', 'tmms': 1385113343495, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.8, 'foff': -3283, 'rssi': -51, 'size': 16, 'data': 'QAAAAACADgTgkPqC1uTPYw=='}, {'jver': 1, 'tmst': 3502607338, 'time': '2023-11-27T09:42:04.495750Z', 'tmms': 1385113343495, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -126, 'lsnr': -13.2, 'foff': -3282, 'rssi': -113, 'size': 16, 'data': 'QAAAAACADgTgkPqC1uTPYw=='}]}
0:06:46.380385	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 040e, FOpts:), FPort: e0, FRMPayload: 098400, MIC: d6e4cf63)
0:06:46.381385	LOG	Server <---------- DUT
0:06:46.383385	LOG	Frame Command Payload in the Answer: 098400
0:06:46.387351	LOG	RX Count received by DUT: 132
0:06:46.389351	LOG	Send Test Command RxAppCntReq process completed
0:06:46.394358	LOG	End Test Step: Test packet error rate for SF12BW125 using RX1 window
0:06:46.398394	LOG	Partial Verdict: PASS
0:06:46.402391	LOG	==========
0:06:46.406392	LOG	==========
0:06:46.408933	LOG	Start Test Step: Test packet error rate for SF11BW125 using RX1 window
0:06:46.420934	LOG	Step 03-09
0:06:46.425937	LOG	Send MAC command block process starts
0:06:51.103660	LOG	GPS Time updated: 1385113348332
0:06:51.105660	LOG	PULL_DATA: 02 0402 02 0016c001ff1025bf

0:06:51.106695	LOG	PULL_ACK: 02 0402 04
0:06:51.730724	LOG	First uplink received. Open reception window.
0:06:51.845435	LOG	PUSH_ACK: 02 e99a 01
0:06:51.847440	LOG	GPS Time from gateway: 1385113348970
0:06:51.848472	LOG	PUSH_DATA: Protocol version = 02, Token = e99a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3508081386, 'time': '2023-11-27T09:42:09.969796Z', 'tmms': 1385113348970, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.0, 'foff': -3269, 'rssi': -51, 'size': 20, 'data': 'QAAAAACADwQCyQuL9eUYLDTV6bw='}]}
0:06:51.850442	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 040f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 34d5e9bc)
0:06:51.851472	LOG	Server <---------- DUT
0:06:51.853441	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01b2, FOpts:), FPort: 00, FRMPayload: 03100700010500d2ad84), MIC: 12896e74)
0:06:51.854472	LOG	PULL_RESP: Protocol version = 02, Token = 1c05, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3510081386, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAsgEAvY7O/CijhF1+phKJbnQ='}}
0:06:51.857016	LOG	Server ----------> DUT
0:06:51.859017	LOG	TX_ACK: 02 1c05 05 0016c001ff1025bf
0:06:56.232371	LOG	First uplink received. Open reception window.
0:06:56.343357	LOG	PUSH_ACK: 02 bf34 01
0:06:56.345322	LOG	GPS Time from gateway: 1385113353474
0:06:56.346831	LOG	PUSH_DATA: Protocol version = 02, Token = bf34, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3512585759, 'time': '2023-11-27T09:42:14.474170Z', 'tmms': 1385113353474, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.2, 'foff': -3289, 'rssi': -51, 'size': 24, 'data': 'QAAAAACEEAQDBwUHAlVESA9xpemcbeM3'}]}
0:06:56.347831	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0410, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 9c6de337)
0:06:56.348831	LOG	Server <---------- DUT
0:06:56.350838	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:06:56.352832	LOG	Command Answer: 03070507
0:06:56.414111	LOG	MAC command communication completed
0:06:56.417121	LOG	Send Test Command RxAppCntReq process starts
0:07:01.149604	LOG	First uplink received. Open reception window.
0:07:01.263541	LOG	PUSH_ACK: 02 0f91 01
0:07:01.264544	LOG	GPS Time from gateway: 1385113358392
0:07:01.267060	LOG	PUSH_DATA: Protocol version = 02, Token = 0f91, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3517503567, 'time': '2023-11-27T09:42:19.391977Z', 'tmms': 1385113358392, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.0, 'foff': -3278, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCEQQFBwJRT0tRtq1dPBLS6A=='}]}
0:07:01.268060	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0411, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 3c12d2e8)
0:07:01.270090	LOG	Server <---------- DUT
0:07:01.271066	LOG	MAC Command RXParamSetupAns received
0:07:01.273083	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01b3, FOpts:), FPort: e0, FRMPayload: 09), MIC: 9882a9f9)
0:07:01.275075	LOG	Frame command sent to the DUT
0:07:01.276067	LOG	PULL_RESP: Protocol version = 02, Token = b523, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3519503567, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAswHg6JiCqfk='}}
0:07:01.277099	LOG	Server ----------> DUT
0:07:01.280101	LOG	TX_ACK: 02 b523 05 0016c001ff1025bf
0:07:01.281100	LOG	GPS Time updated: 1385113358524
0:07:01.283065	LOG	PULL_DATA: 02 d285 02 0016c001ff1025bf
0:07:01.284587	LOG	PULL_ACK: 02 d285 04
0:07:05.018515	LOG	First uplink received. Open reception window.
0:07:05.128943	LOG	PUSH_ACK: 02 d7f4 01
0:07:05.130908	LOG	GPS Time from gateway: 1385113362258
0:07:05.131908	LOG	PUSH_DATA: Protocol version = 02, Token = d7f4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3521369543, 'time': '2023-11-27T09:42:23.257952Z', 'tmms': 1385113362258, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.2, 'foff': -3294, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAEgTg/dsCr6aiuA=='}]}
0:07:05.132908	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0412, FOpts:), FPort: e0, FRMPayload: 098500, MIC: afa6a2b8)
0:07:05.133908	LOG	Server <---------- DUT
0:07:05.135908	LOG	Frame Command Payload in the Answer: 098500
0:07:05.139909	LOG	RX Count received by DUT: 133
0:07:05.141907	LOG	Send Test Command RxAppCntReq process completed
0:07:05.144914	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:07:11.150693	LOG	First uplink received. Open reception window.
0:07:11.258159	LOG	PUSH_ACK: 02 9fbe 01
0:07:11.260130	LOG	GPS Time from gateway: 1385113368391
0:07:11.261133	LOG	PUSH_DATA: Protocol version = 02, Token = 9fbe, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3527502951, 'time': '2023-11-27T09:42:29.391359Z', 'tmms': 1385113368391, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.5, 'foff': -3283, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAEwQCLi1ykY9GaDmp8IU='}]}
0:07:11.262130	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0413, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 39a9f085)
0:07:11.263132	LOG	Server <---------- DUT
0:07:11.265131	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01b4, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 9a2e02af)
0:07:11.267133	LOG	Frame command sent to the DUT
0:07:11.268133	LOG	PULL_RESP: Protocol version = 02, Token = 212e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3529502951, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAtAHgY7+aLgKv'}}
0:07:11.270133	LOG	Server ----------> DUT
0:07:11.272134	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:07:11.278870	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:11.473257	LOG	GPS Time updated: 1385113368714
0:07:11.475260	LOG	PULL_DATA: 02 674b 02 0016c001ff1025bf
0:07:11.476437	LOG	PULL_ACK: 02 674b 04
0:07:16.150194	LOG	First uplink received. Open reception window.
0:07:16.253137	LOG	PUSH_ACK: 02 faa8 01
0:07:16.255138	LOG	GPS Time from gateway: 1385113373391
0:07:16.256174	LOG	PUSH_DATA: Protocol version = 02, Token = faa8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3532502688, 'time': '2023-11-27T09:42:34.391095Z', 'tmms': 1385113373391, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.2, 'foff': -3290, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAFAQCQvt2RXm/FlCZkEY='}]}
0:07:16.258140	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0414, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 50999046)

0:07:16.259138	LOG	Server <---------- DUT
0:07:16.261140	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01b5, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 2a22aeb3)
0:07:16.263140	LOG	Frame command sent to the DUT
0:07:16.264171	LOG	PULL_RESP: Protocol version = 02, Token = 3a25, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3533502688, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAtQHgZHMqIq6z'}}
0:07:16.265210	LOG	Server ----------> DUT
0:07:16.269176	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:16.272217	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:21.151652	LOG	First uplink received. Open reception window.
0:07:21.258454	LOG	PUSH_ACK: 02 6b0c 01
0:07:21.260456	LOG	GPS Time from gateway: 1385113378391
0:07:21.261489	LOG	PUSH_DATA: Protocol version = 02, Token = 6b0c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3537502437, 'time': '2023-11-27T09:42:39.390842Z', 'tmms': 1385113378391, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.8, 'foff': -3284, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAFQQCs8ShI22noxWMdL8='}]}
0:07:21.262491	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0415, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 158c74bf)
0:07:21.264493	LOG	Server <---------- DUT
0:07:21.266456	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01b6, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 7552adf3)
0:07:21.267456	LOG	Frame command sent to the DUT
0:07:21.269461	LOG	PULL_RESP: Protocol version = 02, Token = 3312, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3538502437, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAtgHgE1N1Uq3z'}}
0:07:21.270494	LOG	Server ----------> DUT
0:07:21.273461	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:21.277461	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:21.683882	LOG	GPS Time updated: 1385113378923
0:07:21.685496	LOG	PULL_DATA: 02 b9eb 02 0016c001ff1025bf
0:07:21.687019	LOG	PULL_ACK: 02 b9eb 04
0:07:26.151021	LOG	First uplink received. Open reception window.
0:07:26.261590	LOG	PUSH_ACK: 02 641a 01
0:07:26.263558	LOG	GPS Time from gateway: 1385113383390
0:07:26.264558	LOG	PUSH_DATA: Protocol version = 02, Token = 641a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3542502181, 'time': '2023-11-27T09:42:44.390587Z', 'tmms': 1385113383390, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.0, 'foff': -3283, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAFgQCOcXTfZmnT6NI9Gg='}]}
0:07:26.265558	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0416, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a348f468)
0:07:26.267558	LOG	Server <---------- DUT
0:07:26.269562	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01b7, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 7c5b61c3)
0:07:26.270563	LOG	Frame command sent to the DUT
0:07:26.272563	LOG	PULL_RESP: Protocol version = 02, Token = 976c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3543502181, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAtwHgVO18W2HD'}}
0:07:26.273562	LOG	Server ----------> DUT
0:07:26.276563	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:26.280564	LOG	Send Test Command TxFramesCtrlReq process starts

0:07:31.150062	LOG	First uplink received. Open reception window.
0:07:31.262362	LOG	PUSH_ACK: 02 151a 01
0:07:31.264330	LOG	GPS Time from gateway: 1385113388390
0:07:31.265362	LOG	PUSH_DATA: Protocol version = 02, Token = 151a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3547501928, 'time': '2023-11-27T09:42:49.390333Z', 'tmms': 1385113388390, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.8, 'foff': -3282, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAFwQCzwF5uDMwhRnS+tU='}]}
0:07:31.266363	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0417, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 19d2fad5)
0:07:31.268364	LOG	Server <---------- DUT
0:07:31.270368	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01b8, FOpts:), FPort: e0, FRMPayload: 0700), MIC: b03da46d)
0:07:31.271401	LOG	Frame command sent to the DUT
0:07:31.273369	LOG	PULL_RESP: Protocol version = 02, Token = 9049, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3548501928, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAuAHgdJ2wPaRt'}}
0:07:31.274401	LOG	Server ----------> DUT
0:07:31.277368	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:31.285880	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:31.693926	LOG	GPS Time updated: 1385113388934
0:07:31.694967	LOG	PULL_DATA: 02 aefe 02 0016c001ff1025bf
0:07:31.696931	LOG	PULL_ACK: 02 aefe 04
0:07:36.146869	LOG	First uplink received. Open reception window.
0:07:36.257334	LOG	PUSH_ACK: 02 32c4 01
0:07:36.259301	LOG	GPS Time from gateway: 1385113393390
0:07:36.260301	LOG	PUSH_DATA: Protocol version = 02, Token = 32c4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3552501666, 'time': '2023-11-27T09:42:54.390070Z', 'tmms': 1385113393390, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.8, 'foff': -3284, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAGAQCd+DVNEDSlL2axc0='}]}
0:07:36.261302	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0418, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: bd9ac5cd)
0:07:36.263302	LOG	Server <---------- DUT
0:07:36.265302	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01b9, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: f8a22375)
0:07:36.266301	LOG	Frame command sent to the DUT
0:07:36.268302	LOG	PULL_RESP: Protocol version = 02, Token = f6af, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3553501666, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'oAAAAAAAuQHg1xsVsE7FoIsD6kxzq8s4TlbODKNCMsJneSIBvVnYrpX+NLEyKXt6W2hZs//UfgASJCJP+KIjdQ=='}}
0:07:36.269307	LOG	Server ----------> DUT
0:07:36.272307	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:36.275308	LOG	Check previous uplink data rate process starts
0:07:36.279307	LOG	Uplink received with expected Data Rate
0:07:36.282307	LOG	Check ACK bit in next uplink process starts
0:07:39.246720	LOG	First uplink received. Open reception window.
0:07:39.361375	LOG	PUSH_ACK: 02 4ad6 01
0:07:39.363416	LOG	GPS Time from gateway: 1385113396484
0:07:39.364414	LOG	PUSH_DATA: Protocol version = 02, Token = 4ad6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3555595866, 'time': '2023-11-27T09:42:57.484268Z',

		'tmms': 1385113396484, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.8, 'foff': -3301, 'rssi': -51, 'size': 12, 'data': 'QAAAAACgGQSo1NnP'}]}
0:07:39.365414	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 0419, FOpts:), FPort: , FRMPayload: , MIC: a8d4d9cf)
0:07:39.367379	LOG	Server <---------- DUT
0:07:39.368379	LOG	ACK bit in FCtrl field is set
0:07:39.370380	LOG	Check ACK bit in next uplink tested successfully
0:07:39.376885	LOG	Send Test Command RxAppCntReq process starts
0:07:41.724069	LOG	GPS Time updated: 1385113398961
0:07:41.725070	LOG	PULL_DATA: 02 f9e9 02 0016c001ff1025bf
0:07:41.727071	LOG	PULL_ACK: 02 f9e9 04
0:07:46.146044	LOG	First uplink received. Open reception window.
0:07:46.251145	LOG	PUSH_ACK: 02 9460 01
0:07:46.252614	LOG	GPS Time from gateway: 1385113403389
0:07:46.254640	LOG	PUSH_DATA: Protocol version = 02, Token = 9460, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3562501158, 'time': '2023-11-27T09:43:04.389560Z', 'tmms': 1385113403389, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.2, 'foff': -3289, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAGgQCwx65+9xeQk/GVgo='}]}
0:07:46.255620	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 041a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4fc6560a)
0:07:46.256619	LOG	Server <---------- DUT
0:07:46.258620	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01ba, FOpts:), FPort: e0, FRMPayload: 09), MIC: b7edf639)
0:07:46.260620	LOG	Frame command sent to the DUT
0:07:46.261619	LOG	PULL_RESP: Protocol version = 02, Token = 1250, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3564501158, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAugHgrrft9jk='}}
0:07:46.262619	LOG	Server ----------> DUT
0:07:46.265621	LOG	TX_ACK: 02 1250 05 0016c001ff1025bf
0:07:50.015036	LOG	First uplink received. Open reception window.
0:07:50.120336	LOG	PUSH_ACK: 02 348e 01
0:07:50.122336	LOG	GPS Time from gateway: 1385113407255
0:07:50.124341	LOG	PUSH_DATA: Protocol version = 02, Token = 348e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3566367407, 'time': '2023-11-27T09:43:08.255809Z', 'tmms': 1385113407255, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.2, 'foff': -3303, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAGwTgzeNjILYSrQ=='}]}
0:07:50.125341	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 041b, FOpts:), FPort: e0, FRMPayload: 098c00, MIC: 20b612ad)
0:07:50.126341	LOG	Server <---------- DUT
0:07:50.128853	LOG	Frame Command Payload in the Answer: 098c00
0:07:50.133852	LOG	RX Count received by DUT: 140
0:07:50.135851	LOG	Send Test Command RxAppCntReq process completed
0:07:50.142850	LOG	Send MAC command block process starts
0:07:51.934069	LOG	GPS Time updated: 1385113409173
0:07:51.935069	LOG	PULL_DATA: 02 6237 02 0016c001ff1025bf
0:07:51.937073	LOG	PULL_ACK: 02 6237 04
0:07:56.145134	LOG	First uplink received. Open reception window.
0:07:56.260520	LOG	PUSH_ACK: 02 d2cd 01
0:07:56.262487	LOG	GPS Time from gateway: 1385113413389
0:07:56.263487	LOG	PUSH_DATA: Protocol version = 02, Token = d2cd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3572500638, 'time': '2023-11-27T09:43:14.389039Z', 'tmms': 1385113413389, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.8, 'foff': -3291, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAHAQCxwVcW6tMQJ7dAG0='}]}
0:07:56.264487	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 041c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9edd006d)
0:07:56.266488	LOG	Server <---------- DUT
0:07:56.268488	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01bb, FOpts:), FPort: 00, FRMPayload: 03100700010510d2ad84), MIC: 74a4cf36)
0:07:56.270493	LOG	PULL_RESP: Protocol version = 02, Token = a4aa, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3574500638, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAuwEAyH/jszurfe9RF3SkzzY='}}
0:07:56.271493	LOG	Server ----------> DUT
0:07:56.274492	LOG	TX_ACK: 02 a4aa 05 0016c001ff1025bf
0:08:01.230082	LOG	First uplink received. Open reception window.
0:08:01.339427	LOG	PUSH_ACK: 02 448b 01
0:08:01.341426	LOG	GPS Time from gateway: 1385113418470
0:08:01.342427	LOG	PUSH_DATA: Protocol version = 02, Token = 448b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3577582429, 'time': '2023-11-27T09:43:19.470829Z', 'tmms': 1385113418470, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.5, 'foff': -3301, 'rssi': -51, 'size': 24, 'data': 'QAAAAACEHQQDBwUHAsFvB87kb9CFJIGG'}]}
0:08:01.343427	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 041d, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 85248186)
0:08:01.344426	LOG	Server <---------- DUT
0:08:01.346969	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:08:01.348969	LOG	Command Answer: 03070507
0:08:01.403961	LOG	MAC command communication completed
0:08:01.406960	LOG	Send Test Command RxAppCntReq process starts
0:08:01.943766	LOG	GPS Time updated: 1385113419184
0:08:01.944735	LOG	PULL_DATA: 02 b8a8 02 0016c001ff1025bf
0:08:01.946736	LOG	PULL_ACK: 02 b8a8 04
0:08:06.141615	LOG	First uplink received. Open reception window.
0:08:06.255321	LOG	PUSH_ACK: 02 a6cf 01
0:08:06.257321	LOG	GPS Time from gateway: 1385113423388
0:08:06.258322	LOG	PUSH_DATA: Protocol version = 02, Token = a6cf, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3582500230, 'time': '2023-11-27T09:43:24.388629Z', 'tmms': 1385113423388, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.8, 'foff': -3287, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCHgQFBwJUtwrjc/3c0ul8FQ=='}]}
0:08:06.259359	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 041e, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: d2e97c15)
0:08:06.260355	LOG	Server <---------- DUT
0:08:06.262371	LOG	MAC Command RXParamSetupAns received
0:08:06.264355	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01bc, FOpts:), FPort: e0, FRMPayload: 09), MIC: 85fe3e81)
0:08:06.265373	LOG	Frame command sent to the DUT
0:08:06.267322	LOG	PULL_RESP: Protocol version = 02, Token = cd3e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3584500230, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAvAHghoX+PoE='}}
0:08:06.268322	LOG	Server ----------> DUT
0:08:06.271326	LOG	TX_ACK: 02 cd3e 05 0016c001ff1025bf
0:08:10.014256	LOG	First uplink received. Open reception window.

0:08:10.120717	LOG	PUSH_ACK: 02 54bb 01
0:08:10.122681	LOG	GPS Time from gateway: 1385113427255
0:08:10.123681	LOG	PUSH_DATA: Protocol version = 02, Token = 54bb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3586366588, 'time': '2023-11-27T09:43:28.254986Z', 'tmms': 1385113427255, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.5, 'foff': -3302, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAHwTgYCFrzC6WyA=='}]}
0:08:10.125686	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 041f, FOpts:), FPort: e0, FRMPayload: 098d00, MIC: cc2e96c8)
0:08:10.125686	LOG	Server <---------- DUT
0:08:10.128197	LOG	Frame Command Payload in the Answer: 098d00
0:08:10.132724	LOG	RX Count received by DUT: 141
0:08:10.135740	LOG	Send Test Command RxAppCntReq process completed
0:08:10.138578	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:08:12.143559	LOG	GPS Time updated: 1385113429384
0:08:12.144562	LOG	PULL_DATA: 02 e903 02 0016c001ff1025bf
0:08:12.146599	LOG	PULL_ACK: 02 e903 04
0:08:16.146807	LOG	First uplink received. Open reception window.
0:08:16.251138	LOG	PUSH_ACK: 02 b99e 01
0:08:16.252609	LOG	GPS Time from gateway: 1385113433388
0:08:16.254618	LOG	PUSH_DATA: Protocol version = 02, Token = b99e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3592499607, 'time': '2023-11-27T09:43:34.388004Z', 'tmms': 1385113433388, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.2, 'foff': -3286, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAIAQCHdRKa5OVMzsWWiw='}]}
0:08:16.255618	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0420, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3b165a2c)
0:08:16.256614	LOG	Server <---------- DUT
0:08:16.258615	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01bd, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 64f835b1)
0:08:16.260615	LOG	Frame command sent to the DUT
0:08:16.261615	LOG	PULL_RESP: Protocol version = 02, Token = c07f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3594499607, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAvQHg7VVk+DWx'}}
0:08:16.262615	LOG	Server ----------> DUT
0:08:16.265615	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:08:16.271871	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:21.735202	LOG	First uplink received. Open reception window.
0:08:21.849151	LOG	PUSH_ACK: 02 636f 01
0:08:21.851119	LOG	GPS Time from gateway: 1385113438975
0:08:21.852119	LOG	PUSH_DATA: Protocol version = 02, Token = 636f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3598086930, 'time': '2023-11-27T09:43:39.975325Z', 'tmms': 1385113438975, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.2, 'foff': -3289, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAIQQC6SXMMHeWFQ7ei+I='}]}
0:08:21.854119	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0421, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0ede8be2)
0:08:21.855118	LOG	Server <---------- DUT
0:08:21.857119	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01be, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 6ac62417)
0:08:21.859119	LOG	Frame command sent to the DUT
0:08:21.860118	LOG	PULL_RESP: Protocol version = 02, Token = 8ee9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3599086930, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAvgHg93tqxiQX'}}

0:08:21.862124	LOG	Server ----------> DUT
0:08:21.865128	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:21.868129	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:22.283785	LOG	GPS Time updated: 1385113439523
0:08:22.284901	LOG	PULL_DATA: 02 f0ad 02 0016c001ff1025bf
0:08:22.286869	LOG	PULL_ACK: 02 f0ad 04
0:08:26.511236	LOG	First uplink received. Open reception window.
0:08:26.617493	LOG	PUSH_ACK: 02 96d9 01
0:08:26.619034	LOG	GPS Time from gateway: 1385113443754
0:08:26.621037	LOG	PUSH_DATA: Protocol version = 02, Token = 96d9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3602866265, 'time': '2023-11-27T09:43:44.754661Z', 'tmms': 1385113443754, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.5, 'foff': -3289, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAIgQCusZo5N9/AJmB/8c='}]}
0:08:26.622067	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0422, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9981ffc7)
0:08:26.623071	LOG	Server <---------- DUT
0:08:26.625034	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01bf, FOpts:), FPort: e0, FRMPayload: 0700), MIC: ba81ec0b)
0:08:26.626037	LOG	Frame command sent to the DUT
0:08:26.628551	LOG	PULL_RESP: Protocol version = 02, Token = d9c8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3603866265, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAvwHgUBW6gewL'}}
0:08:26.630548	LOG	Server ----------> DUT
0:08:26.633521	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:26.638529	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:31.518269	LOG	First uplink received. Open reception window.
0:08:31.626704	LOG	PUSH_ACK: 02 4acb 01
0:08:31.628175	LOG	GPS Time from gateway: 1385113448754
0:08:31.630180	LOG	PUSH_DATA: Protocol version = 02, Token = 4acb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3607866019, 'time': '2023-11-27T09:43:49.754414Z', 'tmms': 1385113448754, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.0, 'foff': -3286, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAIwQChUv2T3WhJL4Fn3M='}]}
0:08:31.631180	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0423, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: be059f73)
0:08:31.632180	LOG	Server <---------- DUT
0:08:31.634179	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01c0, FOpts:), FPort: e0, FRMPayload: 0700), MIC: e77593a4)
0:08:31.636185	LOG	Frame command sent to the DUT
0:08:31.637184	LOG	PULL_RESP: Protocol version = 02, Token = b20c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3608866019, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAwAHgvs7ndZOk'}}
0:08:31.639185	LOG	Server ----------> DUT
0:08:31.641186	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:31.644922	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:32.473676	LOG	GPS Time updated: 1385113449710
0:08:32.474642	LOG	PULL_DATA: 02 6752 02 0016c001ff1025bf
0:08:32.476652	LOG	PULL_ACK: 02 6752 04
0:08:36.509801	LOG	First uplink received. Open reception window.
0:08:36.620483	LOG	PUSH_ACK: 02 8ad7 01
0:08:36.622446	LOG	GPS Time from gateway: 1385113453754
0:08:36.623446	LOG	PUSH_DATA: Protocol version = 02, Token = 8ad7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3612865755, 'time': '2023-11-27T09:43:54.754149Z',

		'tmms': 1385113453754, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.0, 'foff': -3287, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAJAQC/+eLF3ydi5gkGf4='}]}
0:08:36.624451	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0424, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 982419fe)
0:08:36.626451	LOG	Server <---------- DUT
0:08:36.627956	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01c1, FOpts:), FPort: e0, FRMPayload: 0700), MIC: b298d47b)
0:08:36.629962	LOG	Frame command sent to the DUT
0:08:36.631971	LOG	PULL_RESP: Protocol version = 02, Token = 2ac0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3613865755, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAwQHgLlCymNR7'}}
0:08:36.632961	LOG	Server ----------> DUT
0:08:36.636631	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:36.645677	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:41.514817	LOG	First uplink received. Open reception window.
0:08:41.625624	LOG	PUSH_ACK: 02 634f 01
0:08:41.627593	LOG	GPS Time from gateway: 1385113458754
0:08:41.629102	LOG	PUSH_DATA: Protocol version = 02, Token = 634f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3617865503, 'time': '2023-11-27T09:43:59.753896Z', 'tmms': 1385113458754, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.0, 'foff': -3287, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAJQQCuRLVHK0DlP57aSc='}]}
0:08:41.630102	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0425, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fe7b6927)
0:08:41.632102	LOG	Server <---------- DUT
0:08:41.633102	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01c2, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 2a5528d0)
0:08:41.635101	LOG	Frame command sent to the DUT
0:08:41.637102	LOG	PULL_RESP: Protocol version = 02, Token = 653e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3618865503, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'oAAAAAAAwgHgGDZLG1ZJ4lJNtqoOZP54p2RGgorliZVnwFr5FiD+vk7cXYSiW1rwaJ37SJkqCalMIIb5KlUo0A=='}}
0:08:41.638102	LOG	Server ----------> DUT
0:08:41.641102	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:41.644143	LOG	Check previous uplink data rate process starts
0:08:41.648141	LOG	Uplink received with expected Data Rate
0:08:41.651142	LOG	Check ACK bit in next uplink process starts
0:08:42.683555	LOG	GPS Time updated: 1385113459924
0:08:42.684518	LOG	PULL_DATA: 02 7609 02 0016c001ff1025bf
0:08:42.686521	LOG	PULL_ACK: 02 7609 04
0:08:45.936765	LOG	#**********CURRENT BEACON SENT**********#
0:08:45.937797	LOG	PULL_RESP: Protocol version = 02, Token = dc2f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385113472000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAJ49Sf68AAAAAAAAAAA='}}
0:08:45.939295	LOG	Server ----------> DUT
0:08:45.941341	LOG	#**********#

0:08:45.950348	LOG	#**********NEXT BEACON QUEUED**********#
0:08:45.952347	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385113600000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAKI9Sdl4AAAAAAAAAAA='}}
0:08:45.953347	LOG	Server ----------> DUT
0:08:45.955349	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 00288f52, CRC1: 765e, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385113600000
0:08:45.956347	LOG	#**********#
0:08:45.957347	LOG	Next BEACON scheduled at GPS time (ms): 1385113728000
0:08:45.958348	LOG	First uplink received. Open reception window.
0:08:45.960398	LOG	TX_ACK: 02 dc2f 05 0016c001ff1025bf
0:08:46.066092	LOG	PUSH_ACK: 02 c408 01
0:08:46.068054	LOG	GPS Time from gateway: 1385113463179
0:08:46.070054	LOG	PUSH_DATA: Protocol version = 02, Token = c408, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3622291273, 'time': '2023-11-27T09:44:04.179665Z', 'tmms': 1385113463179, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.0, 'foff': -3304, 'rssi': -51, 'size': 12, 'data': 'QAAAAACgJgRiBUNP'}]}
0:08:46.072053	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 0426, FOpts:), FPort: , FRMPayload: , MIC: 6205434f)
0:08:46.073054	LOG	Server <---------- DUT
0:08:46.075054	LOG	ACK bit in FCtrl field is set
0:08:46.078053	LOG	Check ACK bit in next uplink tested successfully
0:08:46.083096	LOG	Send Test Command RxAppCntReq process starts
0:08:51.515757	LOG	First uplink received. Open reception window.
0:08:51.616314	LOG	PUSH_ACK: 02 a63e 01
0:08:51.618315	LOG	GPS Time from gateway: 1385113468753
0:08:51.619316	LOG	PUSH_DATA: Protocol version = 02, Token = a63e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3627864985, 'time': '2023-11-27T09:44:09.753375Z', 'tmms': 1385113468753, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 8.8, 'foff': -3283, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAJwQCYzfLEUE8Q7sa5UI='}]}
0:08:51.620321	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0427, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: bb1ae542)
0:08:51.622323	LOG	Server <---------- DUT
0:08:51.623358	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01c3, FOpts:), FPort: e0, FRMPayload: 09), MIC: 63219351)
0:08:51.625353	LOG	Frame command sent to the DUT
0:08:51.626354	LOG	PULL_RESP: Protocol version = 02, Token = 2deb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3629864985, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAwwHgRWMhk1E='}}
0:08:51.628443	LOG	Server ----------> DUT
0:08:51.631437	LOG	TX_ACK: 02 2deb 05 0016c001ff1025bf
0:08:52.883067	LOG	GPS Time updated: 1385113470121
0:08:52.885068	LOG	PULL_DATA: 02 6809 02 0016c001ff1025bf
0:08:52.886070	LOG	PULL_ACK: 02 6809 04
0:08:55.373790	LOG	First uplink received. Open reception window.
0:08:55.483497	LOG	PUSH_ACK: 02 ad59 01
0:08:55.485462	LOG	GPS Time from gateway: 1385113472619
0:08:55.486495	LOG	PUSH_DATA: Protocol version = 02, Token = ad59, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3631730751, 'time': '2023-11-27T09:44:13.619142Z',

		'tmms': 1385113472619, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -79, 'lsnr': 3.8, 'foff': -3290, 'rssi': -76, 'size': 16, 'data': 'QAAAAACAKATgljF4whVkLA=='}]}
0:08:55.487496	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0428, FOpts:), FPort: e0, FRMPayload: 099400, MIC: c215642c)
0:08:55.488534	LOG	Server <---------- DUT
0:08:55.490533	LOG	Frame Command Payload in the Answer: 099400
0:08:55.494500	LOG	RX Count received by DUT: 148
0:08:55.496535	LOG	Send Test Command RxAppCntReq process completed
0:08:55.503592	LOG	Send MAC command block process starts
0:09:01.516027	LOG	First uplink received. Open reception window.
0:09:01.622579	LOG	PUSH_ACK: 02 b6f3 01
0:09:01.624546	LOG	GPS Time from gateway: 1385113478752
0:09:01.625550	LOG	PUSH_DATA: Protocol version = 02, Token = b6f3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3637864481, 'time': '2023-11-27T09:44:19.752871Z', 'tmms': 1385113478752, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.0, 'foff': -3288, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAKQQCaAGz9wFt5R1secM='}]}
0:09:01.627551	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0429, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1d6c79c3)
0:09:01.629061	LOG	Server <---------- DUT
0:09:01.631060	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01c4, FOpts:), FPort: 00, FRMPayload: 03100700010520d2ad84), MIC: 7689e795)
0:09:01.633080	LOG	PULL_RESP: Protocol version = 02, Token = 5668, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3639864481, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAxAEA4nytPBIUMQ7nLHaJ55U='}}
0:09:01.635060	LOG	Server ----------> DUT
0:09:01.638061	LOG	TX_ACK: 02 5668 05 0016c001ff1025bf
0:09:02.893593	LOG	GPS Time updated: 1385113480129
0:09:02.894598	LOG	PULL_DATA: 02 424d 02 0016c001ff1025bf
0:09:02.896600	LOG	PULL_ACK: 02 424d 04
0:09:06.588176	LOG	First uplink received. Open reception window.
0:09:06.691268	LOG	PUSH_ACK: 02 cc8c 01
0:09:06.693269	LOG	GPS Time from gateway: 1385113483834
0:09:06.695276	LOG	PUSH_DATA: Protocol version = 02, Token = cc8c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3642946259, 'time': '2023-11-27T09:44:24.834648Z', 'tmms': 1385113483834, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.5, 'foff': -3297, 'rssi': -51, 'size': 24, 'data': 'QAAAAACEKgQDBwUHAtoZpKzfuQEXAZfk'}]}
0:09:06.696269	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 042a, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 170197e4)
0:09:06.697268	LOG	Server <---------- DUT
0:09:06.699283	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:09:06.701236	LOG	Command Answer: 03070507
0:09:06.755583	LOG	MAC command communication completed
0:09:06.759833	LOG	Send Test Command RxAppCntReq process starts
0:09:11.510965	LOG	First uplink received. Open reception window.
0:09:11.615575	LOG	PUSH_ACK: 02 1834 01
0:09:11.617543	LOG	GPS Time from gateway: 1385113488752
0:09:11.618542	LOG	PUSH_DATA: Protocol version = 02, Token = 1834, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3647864061, 'time': '2023-11-27T09:44:29.752449Z', 'tmms': 1385113488752, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.8, 'foff': -3289, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCKwQFBwK7wpWpxuO89UxWEQ==''}]}
0:09:11.619547	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 042b, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: f54c5611)
0:09:11.621548	LOG	Server <---------- DUT
0:09:11.622548	LOG	MAC Command RXParamSetupAns received
0:09:11.624547	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01c5, FOpts:), FPort: e0, FRMPayload: 09), MIC: 96101b11)
0:09:11.625547	LOG	Frame command sent to the DUT
0:09:11.627547	LOG	PULL_RESP: Protocol version = 02, Token = 6f5b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3649864061, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAxQHg15YQGxE='}}
0:09:11.629057	LOG	Server ----------> DUT
0:09:11.631090	LOG	TX_ACK: 02 6f5b 05 0016c001ff1025bf
0:09:13.093084	LOG	GPS Time updated: 1385113490335
0:09:13.095052	LOG	PULL_DATA: 02 df1d 02 0016c001ff1025bf
0:09:13.096411	LOG	PULL_ACK: 02 df1d 04
0:09:15.373169	LOG	First uplink received. Open reception window.
0:09:15.485198	LOG	PUSH_ACK: 02 fd69 01
0:09:15.487166	LOG	GPS Time from gateway: 1385113492618
0:09:15.488669	LOG	PUSH_DATA: Protocol version = 02, Token = fd69, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3651730084, 'time': '2023-11-27T09:44:33.618470Z', 'tmms': 1385113492618, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.0, 'foff': -3305, 'rssi': -51, 'size': 16, 'data': 'QAAAAACALATgdd78eXRz0Q==''}]}
0:09:15.489674	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 042c, FOpts:), FPort: e0, FRMPayload: 099500, MIC: 797473d1)
0:09:15.490675	LOG	Server <---------- DUT
0:09:15.492675	LOG	Frame Command Payload in the Answer: 099500
0:09:15.496676	LOG	RX Count received by DUT: 149
0:09:15.498712	LOG	Send Test Command RxAppCntReq process completed
0:09:15.501675	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:09:21.512114	LOG	First uplink received. Open reception window.
0:09:21.619525	LOG	PUSH_ACK: 02 3757 01
0:09:21.621490	LOG	GPS Time from gateway: 1385113498751
0:09:21.622529	LOG	PUSH_DATA: Protocol version = 02, Token = 3757, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3657863445, 'time': '2023-11-27T09:44:39.751830Z', 'tmms': 1385113498751, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.0, 'foff': -3292, 'rssi': -51, 'size': 20, 'data': 'QAAAAACALQQCm8FwMYgqwGyACOQ='}]}
0:09:21.623522	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 042d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6c8008e4)
0:09:21.625489	LOG	Server <---------- DUT
0:09:21.626490	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01c6, FOpts:), FPort: e0, FRMPayload: 0500), MIC: ad7bc22e)
0:09:21.629013	LOG	Frame command sent to the DUT
0:09:21.630034	LOG	PULL_RESP: Protocol version = 02, Token = 11cb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3659863445, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAxgHgJdate8Iu'}}
0:09:21.632001	LOG	Server ----------> DUT
0:09:21.635001	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:09:21.641377	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:23.103519	LOG	GPS Time updated: 1385113500342
0:09:23.104486	LOG	PULL_DATA: 02 e4ad 02 0016c001ff1025bf

0:09:23.106486	LOG	PULL_ACK: 02 e4ad 04
0:09:26.505449	LOG	First uplink received. Open reception window.
0:09:26.609847	LOG	PUSH_ACK: 02 6002 01
0:09:26.611814	LOG	GPS Time from gateway: 1385113503751
0:09:26.613826	LOG	PUSH_DATA: Protocol version = 02, Token = 6002, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3662863187, 'time': '2023-11-27T09:44:44.751573Z', 'tmms': 1385113503751, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.8, 'foff': -3296, 'rssi': -51, 'size': 20, 'data': 'QAAAAACALgQCcFqF5znPRgD8k0o='}]}
0:09:26.614825	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 042e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 00fc934a)
0:09:26.615825	LOG	Server <---------- DUT
0:09:26.617825	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01c7, FOpts:), FPort: e0, FRMPayload: 0700), MIC: ed7b4ca0)
0:09:26.619827	LOG	Frame command sent to the DUT
0:09:26.620825	LOG	PULL_RESP: Protocol version = 02, Token = dba6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3663863187, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAxwHg4sfte0yg'}}
0:09:26.622826	LOG	Server ----------> DUT
0:09:26.625826	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:26.629181	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:31.508593	LOG	First uplink received. Open reception window.
0:09:31.621158	LOG	PUSH_ACK: 02 0a45 01
0:09:31.623126	LOG	GPS Time from gateway: 1385113508751
0:09:31.624126	LOG	PUSH_DATA: Protocol version = 02, Token = 0a45, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3667862928, 'time': '2023-11-27T09:44:49.751313Z', 'tmms': 1385113508751, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.2, 'foff': -3294, 'rssi': -51, 'size': 20, 'data': 'QAAAAACALwQCqKIBykiTU/NmTew='}]}
0:09:31.625130	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 042f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f3664dec)
0:09:31.626130	LOG	Server <---------- DUT
0:09:31.628641	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01c8, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 8c976891)
0:09:31.630641	LOG	Frame command sent to the DUT
0:09:31.632642	LOG	PULL_RESP: Protocol version = 02, Token = 85dc, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3668862928, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAyAHgq1CMl2iR'}}
0:09:31.634641	LOG	Server ----------> DUT
0:09:31.636674	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:31.640640	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:33.313499	LOG	GPS Time updated: 1385113510556
0:09:33.314466	LOG	PULL_DATA: 02 a1b1 02 0016c001ff1025bf
0:09:33.316467	LOG	PULL_ACK: 02 a1b1 04
0:09:36.509281	LOG	First uplink received. Open reception window.
0:09:36.611175	LOG	PUSH_ACK: 02 ba30 01
0:09:36.613243	LOG	GPS Time from gateway: 1385113513751
0:09:36.614241	LOG	PUSH_DATA: Protocol version = 02, Token = ba30, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3672862679, 'time': '2023-11-27T09:44:54.751063Z', 'tmms': 1385113513751, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.8, 'foff': -3294, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAMAQCw4DH7M1klF8HZJI='}]}
0:09:36.615241	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0430, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5f076492)

0:09:36.617211	LOG	Server <---------- DUT
0:09:36.618209	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01c9, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 8ba4083c)
0:09:36.620210	LOG	Frame command sent to the DUT
0:09:36.622209	LOG	PULL_RESP: Protocol version = 02, Token = 2341, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3673862679, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAyQHg8RyLpAg8'}}
0:09:36.623209	LOG	Server ----------> DUT
0:09:36.626208	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:36.629755	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:41.506131	LOG	First uplink received. Open reception window.
0:09:41.613167	LOG	PUSH_ACK: 02 6371 01
0:09:41.614704	LOG	GPS Time from gateway: 1385113518750
0:09:41.616713	LOG	PUSH_DATA: Protocol version = 02, Token = 6371, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3677862425, 'time': '2023-11-27T09:44:59.750808Z', 'tmms': 1385113518750, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.8, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAMQQCd183E6C3cyDB4HI='}]}
0:09:41.617746	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0431, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 20c1e072)
0:09:41.618746	LOG	Server <---------- DUT
0:09:41.620714	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01ca, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 5c65da4c)
0:09:41.622715	LOG	Frame command sent to the DUT
0:09:41.623716	LOG	PULL_RESP: Protocol version = 02, Token = 8211, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3678862425, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAygHgBGBcZdpM'}}
0:09:41.625751	LOG	Server ----------> DUT
0:09:41.628819	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:41.639816	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:43.513100	LOG	GPS Time updated: 1385113520757
0:09:43.515068	LOG	PULL_DATA: 02 23a5 02 0016c001ff1025bf
0:09:43.516101	LOG	PULL_ACK: 02 23a5 04
0:09:46.505202	LOG	First uplink received. Open reception window.
0:09:46.619019	LOG	PUSH_ACK: 02 32d6 01
0:09:46.620564	LOG	GPS Time from gateway: 1385113523750
0:09:46.621581	LOG	PUSH_DATA: Protocol version = 02, Token = 32d6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3682862166, 'time': '2023-11-27T09:45:04.750547Z', 'tmms': 1385113523750, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.0, 'foff': -3295, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAMgQCi4TGlaMe5rrO/Vo='}]}
0:09:46.623569	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0432, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: bacefd5a)
0:09:46.624568	LOG	Server <---------- DUT
0:09:46.626572	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01cb, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 94a2988d)
0:09:46.628075	LOG	Frame command sent to the DUT
0:09:46.630083	LOG	PULL_RESP: Protocol version = 02, Token = f82e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3683862166, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data':

		'oAAAAAAAywHgbr26BsPHiNuHczffVurCngJUGi4bklmqpCHP375p6De4sxhJM9leftrCh1kAiW4VduILlKKYjQ==''}}
0:09:46.631081	LOG	Server ----------> DUT
0:09:46.635081	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:46.638113	LOG	Check previous uplink data rate process starts
0:09:46.642301	LOG	Uplink received with expected Data Rate
0:09:46.644800	LOG	Check ACK bit in next uplink process starts
0:09:50.930808	LOG	First uplink received. Open reception window.
0:09:51.043165	LOG	PUSH_ACK: 02 7ae7 01
0:09:51.045131	LOG	GPS Time from gateway: 1385113528175
0:09:51.046131	LOG	PUSH_DATA: Protocol version = 02, Token = 7ae7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3687287040, 'time': '2023-11-27T09:45:09.175422Z', 'tmms': 1385113528175, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.0, 'foff': -3316, 'rssi': -51, 'size': 12, 'data': 'QAAAAACgMwSmRLOQ'}]}
0:09:51.047131	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 0433, FOpts:), FPort: , FRMPayload: , MIC: a644b390)
0:09:51.049131	LOG	Server <---------- DUT
0:09:51.050131	LOG	ACK bit in FCtrl field is set
0:09:51.053138	LOG	Check ACK bit in next uplink tested successfully
0:09:51.058791	LOG	Send Test Command RxAppCntReq process starts
0:09:53.563391	LOG	GPS Time updated: 1385113530809
0:09:53.564359	LOG	PULL_DATA: 02 b6b1 02 0016c001ff1025bf
0:09:53.565863	LOG	PULL_ACK: 02 b6b1 04
0:09:56.512009	LOG	First uplink received. Open reception window.
0:09:56.629773	LOG	PUSH_ACK: 02 3f9a 01
0:09:56.631806	LOG	GPS Time from gateway: 1385113533750
0:09:56.632814	LOG	PUSH_DATA: Protocol version = 02, Token = 3f9a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3692861658, 'time': '2023-11-27T09:45:14.750039Z', 'tmms': 1385113533750, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.8, 'foff': -3297, 'rssi': -51, 'size': 20, 'data': 'QAAAAACANAQCukexLVoCm6vGUeA='}]}
0:09:56.634780	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0434, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: abc651e0)
0:09:56.635814	LOG	Server <---------- DUT
0:09:56.637777	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01cc, FOpts:), FPort: e0, FRMPayload: 09), MIC: de0d2c94)
0:09:56.638777	LOG	Frame command sent to the DUT
0:09:56.640779	LOG	PULL_RESP: Protocol version = 02, Token = 5a4c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3694861658, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAzAHgvN4NLJQ='}}
0:09:56.641779	LOG	Server ----------> DUT
0:09:56.644816	LOG	TX_ACK: 02 5a4c 05 0016c001ff1025bf
0:10:00.369158	LOG	First uplink received. Open reception window.
0:10:00.476971	LOG	PUSH_ACK: 02 5e9f 01
0:10:00.478936	LOG	GPS Time from gateway: 1385113537615
0:10:00.479938	LOG	PUSH_DATA: Protocol version = 02, Token = 5e9f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3696727501, 'time': '2023-11-27T09:45:18.615881Z', 'tmms': 1385113537615, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.2, 'foff': -3314, 'rssi': -51, 'size': 16, 'data': 'QAAAAACANQTgCzIpYssA3A=='}]}
0:10:00.480938	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0435, FOpts:), FPort: e0, FRMPayload: 099c00, MIC: 62cb00dc)
0:10:00.482938	LOG	Server <---------- DUT
0:10:00.483937	LOG	Frame Command Payload in the Answer: 099c00

0:10:00.487938	LOG	RX Count received by DUT: 156
0:10:00.490943	LOG	Send Test Command RxAppCntReq process completed
0:10:00.497359	LOG	Send MAC command block process starts
0:10:03.573663	LOG	GPS Time updated: 1385113540818
0:10:03.574663	LOG	PULL_DATA: 02 9cd5 02 0016c001ff1025bf
0:10:03.576665	LOG	PULL_ACK: 02 9cd5 04
0:10:06.511731	LOG	First uplink received. Open reception window.
0:10:06.624322	LOG	PUSH_ACK: 02 c4a7 01
0:10:06.626289	LOG	GPS Time from gateway: 1385113543749
0:10:06.627850	LOG	PUSH_DATA: Protocol version = 02, Token = c4a7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3702861132, 'time': '2023-11-27T09:45:24.749511Z', 'tmms': 1385113543749, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.8, 'foff': -3300, 'rssi': -51, 'size': 20, 'data': 'QAAAAACANgQClPh+vUT2nqFcXPM='}]}
0:10:06.628861	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0436, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a15c5cf3)
0:10:06.630856	LOG	Server <---------- DUT
0:10:06.632857	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01cd, FOpts:), FPort: 00, FRMPayload: 03100700010530d2ad84), MIC: 93b80e47)
0:10:06.634857	LOG	PULL_RESP: Protocol version = 02, Token = 7273, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3704861132, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAzQEAqHD2OR+P6Y0WdZO4Dkc='}}
0:10:06.635858	LOG	Server ----------> DUT
0:10:06.638856	LOG	TX_ACK: 02 7273 05 0016c001ff1025bf
0:10:11.588140	LOG	First uplink received. Open reception window.
0:10:11.704130	LOG	PUSH_ACK: 02 1a65 01
0:10:11.706096	LOG	GPS Time from gateway: 1385113548831
0:10:11.707104	LOG	PUSH_DATA: Protocol version = 02, Token = 1a65, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3707942929, 'time': '2023-11-27T09:45:29.831307Z', 'tmms': 1385113548831, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.0, 'foff': -3310, 'rssi': -51, 'size': 24, 'data': 'QAAAAACENwQDBwUHAkoXLFF8yDMnBpPb'}]}
0:10:11.709100	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0437, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 270693db)
0:10:11.710100	LOG	Server <---------- DUT
0:10:11.712100	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:10:11.713100	LOG	Command Answer: 03070507
0:10:11.768445	LOG	MAC command communication completed
0:10:11.771491	LOG	Send Test Command RxAppCntReq process starts
0:10:13.773016	LOG	GPS Time updated: 1385113551016
0:10:13.774983	LOG	PULL_DATA: 02 589d 02 0016c001ff1025bf
0:10:13.776800	LOG	PULL_ACK: 02 589d 04
0:10:16.504151	LOG	First uplink received. Open reception window.
0:10:16.616699	LOG	PUSH_ACK: 02 6f12 01
0:10:16.618667	LOG	GPS Time from gateway: 1385113553749
0:10:16.619697	LOG	PUSH_DATA: Protocol version = 02, Token = 6f12, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3712860725, 'time': '2023-11-27T09:45:34.749101Z', 'tmms': 1385113553749, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.8, 'foff': -3300, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCOAQFBwJ/T1+LpvEJxgiwmw=='}]}
0:10:16.620663	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0438, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: c608b09b)

0:10:16.622665	LOG	Server <---------- DUT
0:10:16.623697	LOG	MAC Command RXParamSetupAns received
0:10:16.625699	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01ce, FOpts:), FPort: e0, FRMPayload: 09), MIC: bd6da1b0)
0:10:16.626698	LOG	Frame command sent to the DUT
0:10:16.628202	LOG	PULL_RESP: Protocol version = 02, Token = 0327, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3714860725, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAzgHg571tobA='}}
0:10:16.630207	LOG	Server ----------> DUT
0:10:16.632207	LOG	TX_ACK: 02 0327 05 0016c001ff1025bf
0:10:21.989211	LOG	First uplink received. Open reception window.
0:10:22.103209	LOG	PUSH_ACK: 02 83f1 01
0:10:22.105178	LOG	GPS Time from gateway: 1385113559232
0:10:22.106200	LOG	PUSH_DATA: Protocol version = 02, Token = 83f1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3718344160, 'time': '2023-11-27T09:45:40.232535Z', 'tmms': 1385113559232, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.0, 'foff': -3305, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAOQTgucIEJ+H/lA=='}]}
0:10:22.108176	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0439, FOpts:), FPort: e0, FRMPayload: 099d00, MIC: 27e1ff94)
0:10:22.109212	LOG	Server <---------- DUT
0:10:22.111176	LOG	Frame Command Payload in the Answer: 099d00
0:10:22.115183	LOG	RX Count received by DUT: 157
0:10:22.117180	LOG	Send Test Command RxAppCntReq process completed
0:10:22.120214	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:10:23.973017	LOG	GPS Time updated: 1385113561216
0:10:23.974017	LOG	PULL_DATA: 02 7841 02 0016c001ff1025bf
0:10:23.975987	LOG	PULL_ACK: 02 7841 04
0:10:26.853331	LOG	First uplink received. Open reception window.
0:10:26.968505	LOG	PUSH_ACK: 02 e1aa 01
0:10:26.970013	LOG	GPS Time from gateway: 1385113564093
0:10:26.972018	LOG	PUSH_DATA: Protocol version = 02, Token = e1aa, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3723204824, 'time': '2023-11-27T09:45:45.093199Z', 'tmms': 1385113564093, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.2, 'foff': -3303, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAOgQCRaRqR3da65BdKdk='}]}
0:10:26.973528	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 043a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 905d29d9)
0:10:26.974528	LOG	Server <---------- DUT
0:10:26.976527	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01cf, FOpts:), FPort: e0, FRMPayload: 0500), MIC: a4863e34)
0:10:26.978528	LOG	Frame command sent to the DUT
0:10:26.980527	LOG	PULL_RESP: Protocol version = 02, Token = fff8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3725204824, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAzwHgcl6khj40'}}
0:10:26.981528	LOG	Server ----------> DUT
0:10:26.984528	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:10:26.990143	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:31.848894	LOG	First uplink received. Open reception window.
0:10:31.957234	LOG	PUSH_ACK: 02 1705 01
0:10:31.959202	LOG	GPS Time from gateway: 1385113569093
0:10:31.961205	LOG	PUSH_DATA: Protocol version = 02, Token = 1705, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3728204568, 'time': '2023-11-27T09:45:50.092943Z', 'tmms': 1385113569093, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.5, 'foff': -3308, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAOwQCYLCkgpkgkdCL4z0='}]}
0:10:31.962202	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 043b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d08be33d)
0:10:31.963708	LOG	Server <---------- DUT
0:10:31.965713	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01d0, FOpts:), FPort: e0, FRMPayload: 0700), MIC: ec249c1c)
0:10:31.966712	LOG	Frame command sent to the DUT
0:10:31.968217	LOG	PULL_RESP: Protocol version = 02, Token = ca5b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3729204568, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA0AHggiTsJJwc'}}
0:10:31.970222	LOG	Server ----------> DUT
0:10:31.973566	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:31.976568	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:34.063457	LOG	GPS Time updated: 1385113571308
0:10:34.064973	LOG	PULL_DATA: 02 2735 02 0016c001ff1025bf
0:10:34.065979	LOG	PULL_ACK: 02 2735 04
0:10:36.856471	LOG	First uplink received. Open reception window.
0:10:36.960014	LOG	PUSH_ACK: 02 f2dd 01
0:10:36.961978	LOG	GPS Time from gateway: 1385113574092
0:10:36.962981	LOG	PUSH_DATA: Protocol version = 02, Token = f2dd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3733204309, 'time': '2023-11-27T09:45:55.092683Z', 'tmms': 1385113574092, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 9.0, 'foff': -3300, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAPAQCZQ+YieqiXk4ipMM='}]}
0:10:36.964979	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 043c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4e22a4c3)
0:10:36.965980	LOG	Server <---------- DUT
0:10:36.966979	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01d1, FOpts:), FPort: e0, FRMPayload: 0700), MIC: bdc4dbdb)
0:10:36.969486	LOG	Frame command sent to the DUT
0:10:36.970488	LOG	PULL_RESP: Protocol version = 02, Token = 7db5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3734204309, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA0QHgQqS9xNvb'}}
0:10:36.971992	LOG	Server ----------> DUT
0:10:36.976001	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:36.979997	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:41.853039	LOG	First uplink received. Open reception window.
0:10:41.955286	LOG	PUSH_ACK: 02 7744 01
0:10:41.957162	LOG	GPS Time from gateway: 1385113579092
0:10:41.958162	LOG	PUSH_DATA: Protocol version = 02, Token = 7744, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3738204048, 'time': '2023-11-27T09:46:00.092421Z', 'tmms': 1385113579092, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 11.2, 'foff': -3303, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAPQQCesv8d04wDXgN86A='}]}
0:10:41.960162	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 043d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 780df3a0)
0:10:41.961163	LOG	Server <---------- DUT
0:10:41.963163	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01d2, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 02233eb6)
0:10:41.964162	LOG	Frame command sent to the DUT
0:10:41.965666	LOG	PULL_RESP: Protocol version = 02, Token = c77d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3739204048, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA0gHgTvoCIz62'}}
0:10:41.967671	LOG	Server ----------> DUT
0:10:41.969671	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:41.973185	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:44.273007	LOG	GPS Time updated: 1385113581512
0:10:44.274011	LOG	PULL_DATA: 02 1994 02 0016c001ff1025bf
0:10:44.276526	LOG	PULL_ACK: 02 1994 04
0:10:46.848666	LOG	First uplink received. Open reception window.
0:10:46.961235	LOG	PUSH_ACK: 02 ba34 01
0:10:46.963235	LOG	GPS Time from gateway: 1385113584092
0:10:46.964240	LOG	PUSH_DATA: Protocol version = 02, Token = ba34, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3743203798, 'time': '2023-11-27T09:46:05.092171Z', 'tmms': 1385113584092, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 9.2, 'foff': -3302, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAPgQCqbHeYHDEj9BS2BU='}]}
0:10:46.966203	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 043e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d052d815)
0:10:46.967202	LOG	Server <---------- DUT
0:10:46.969205	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01d3, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 07d22078)
0:10:46.970236	LOG	Frame command sent to the DUT
0:10:46.972205	LOG	PULL_RESP: Protocol version = 02, Token = c7ea, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3744203798, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA0wHg7IEH0iB4'}}
0:10:46.973291	LOG	Server ----------> DUT
0:10:46.976325	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:46.986315	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:51.850252	LOG	First uplink received. Open reception window.
0:10:51.958872	LOG	PUSH_ACK: 02 259f 01
0:10:51.961019	LOG	GPS Time from gateway: 1385113589091
0:10:51.962731	LOG	PUSH_DATA: Protocol version = 02, Token = 259f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3748203533, 'time': '2023-11-27T09:46:10.091904Z', 'tmms': 1385113589091, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 9.2, 'foff': -3303, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAPwQC4GNZMGy7zexuVJo='}]}
0:10:51.964330	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 043f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ec6e549a)
0:10:51.965428	LOG	Server <---------- DUT
0:10:51.967433	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01d4, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: a5ae821e)
0:10:51.969433	LOG	Frame command sent to the DUT
0:10:51.970433	LOG	PULL_RESP: Protocol version = 02, Token = 8882, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3749203533, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'oAAAAAAA1AHgXOxzXXVb6OYO4mpvIvoJC2QKrzw/psu9QyO/mBoST5/Vr816136yQWqxTnhabgsDMQpMpa6CHg==''}}
0:10:51.972945	LOG	Server ----------> DUT
0:10:51.975966	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:51.978945	LOG	Check previous uplink data rate process starts
0:10:51.984023	LOG	Uplink received with expected Data Rate
0:10:51.986647	LOG	Check ACK bit in next uplink process starts

0:10:54.282709	LOG	#**********CURRENT BEACON SENT**********#
0:10:54.283678	LOG	PULL_RESP: Protocol version = 02, Token = a115, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385113600000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAKI9Sdl4AAAAAAAAAAA='}}
0:10:54.286224	LOG	Server ----------> DUT
0:10:54.287223	LOG	#**********#
0:10:54.297219	LOG	#**********NEXT BEACON QUEUED**********#
0:10:54.298220	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385113728000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAKI9SToMAAAAAAAAAAA='}}
0:10:54.300221	LOG	Server ----------> DUT
0:10:54.301261	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 80288f52, CRC1: 4e83, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385113728000
0:10:54.302263	LOG	#**********#
0:10:54.303260	LOG	Next BEACON scheduled at GPS time (ms): 1385113856000
0:10:54.305227	LOG	GPS Time updated: 1385113591545
0:10:54.306259	LOG	PULL_DATA: 02 3ca8 02 0016c001ff1025bf
0:10:54.307261	LOG	PULL_ACK: 02 3ca8 04
0:10:54.308260	LOG	TX_ACK: 02 a115 05 0016c001ff1025bf
0:10:56.271325	LOG	First uplink received. Open reception window.
0:10:56.384717	LOG	PUSH_ACK: 02 ea72 01
0:10:56.386716	LOG	GPS Time from gateway: 1385113593517
0:10:56.386716	LOG	PUSH_DATA: Protocol version = 02, Token = ea72, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3752629236, 'time': '2023-11-27T09:46:14.517607Z', 'tmms': 1385113593517, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 11.0, 'foff': -3323, 'rssi': -52, 'size': 12, 'data': 'QAAAAACgQAQYnoYO'}]}
0:10:56.389216	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 0440, FOpts:), FPort: , FRMPayload: , MIC: 189e860e)
0:10:56.390216	LOG	Server <---------- DUT
0:10:56.392217	LOG	ACK bit in FCtrl field is set
0:10:56.394216	LOG	Check ACK bit in next uplink tested successfully
0:10:56.400219	LOG	Send Test Command RxAppCntReq process starts
0:11:01.845186	LOG	First uplink received. Open reception window.
0:11:01.960788	LOG	PUSH_ACK: 02 5e01 01
0:11:01.962755	LOG	GPS Time from gateway: 1385113599091
0:11:01.963755	LOG	PUSH_DATA: Protocol version = 02, Token = 5e01, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3758203026, 'time': '2023-11-27T09:46:20.091396Z', 'tmms': 1385113599091, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.2, 'foff': -3304, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAQQQCRfLtQ+/3Ch8TQlM='}]}
0:11:01.965760	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0441, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1f134253)
0:11:01.966760	LOG	Server <---------- DUT
0:11:01.968759	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01d5, FOpts:), FPort: e0, FRMPayload: 09), MIC: 47b2138e)
0:11:01.969760	LOG	Frame command sent to the DUT
0:11:01.970760	LOG	PULL_RESP: Protocol version = 02, Token = 08cb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3760203026, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAA1QHglEeyE44='}}
0:11:01.973270	LOG	Server ----------> DUT
0:11:01.976277	LOG	TX_ACK: 02 08cb 05 0016c001ff1025bf
0:11:04.292287	LOG	GPS Time updated: 1385113601538
0:11:04.294796	LOG	PULL_DATA: 02 7819 02 0016c001ff1025bf
0:11:04.295796	LOG	PULL_ACK: 02 7819 04
0:11:05.712287	LOG	First uplink received. Open reception window.
0:11:05.815047	LOG	PUSH_ACK: 02 0c9f 01
0:11:05.816552	LOG	GPS Time from gateway: 1385113602957
0:11:05.818558	LOG	PUSH_DATA: Protocol version = 02, Token = 0c9f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3762069487, 'time': '2023-11-27T09:46:23.957855Z', 'tmms': 1385113602957, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 11.0, 'foff': -3318, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAQgTgkgWf3D86og==}]}
0:11:05.819592	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0442, FOpts:), FPort: e0, FRMPayload: 09a400, MIC: dc3f3aa2)
0:11:05.820558	LOG	Server <---------- DUT
0:11:05.822617	LOG	Frame Command Payload in the Answer: 09a400
0:11:05.826557	LOG	RX Count received by DUT: 164
0:11:05.828556	LOG	Send Test Command RxAppCntReq process completed
0:11:05.835801	LOG	Send MAC command block process starts
0:11:11.853509	LOG	First uplink received. Open reception window.
0:11:11.954513	LOG	PUSH_ACK: 02 4efe 01
0:11:11.956410	LOG	GPS Time from gateway: 1385113609090
0:11:11.957442	LOG	PUSH_DATA: Protocol version = 02, Token = 4efe, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3768202506, 'time': '2023-11-27T09:46:30.090872Z', 'tmms': 1385113609090, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 10.2, 'foff': -3304, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAQwQCoAGpOTp75yZ+GuY='}]}
0:11:11.959408	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0443, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 267e1ae6)
0:11:11.960409	LOG	Server <---------- DUT
0:11:11.962408	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01d6, FOpts:), FPort: 00, FRMPayload: 03100700010540d2ad84), MIC: b32eab21)
0:11:11.963408	LOG	PULL_RESP: Protocol version = 02, Token = 480e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3770202506, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAA1gEAMBK+yPgRPncAkbMuqyE='}}
0:11:11.964913	LOG	Server ----------> DUT
0:11:11.968952	LOG	TX_ACK: 02 480e 05 0016c001ff1025bf
0:11:14.485345	LOG	GPS Time updated: 1385113611722
0:11:14.487312	LOG	PULL_DATA: 02 7c34 02 0016c001ff1025bf
0:11:14.488920	LOG	PULL_ACK: 02 7c34 04
0:11:17.868877	LOG	First uplink received. Open reception window.
0:11:17.979859	LOG	PUSH_ACK: 02 2ff3 01
0:11:17.981859	LOG	GPS Time from gateway: 1385113615112
0:11:17.982860	LOG	PUSH_DATA: Protocol version = 02, Token = 2ff3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3774224390, 'time': '2023-11-27T09:46:36.112757Z', 'tmms': 1385113615112, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.5, 'foff': -3307, 'rssi': -51, 'size': 24, 'data': 'QAAAAACERAQDBwUHAu8ZfSul3KM47Vpz'}]}
0:11:17.983861	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0444, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 38ed5a73)

0:11:17.985826	LOG	Server <---------- DUT
0:11:17.986826	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:11:17.988864	LOG	Command Answer: 03070507
0:11:18.045924	LOG	MAC command communication completed
0:11:18.048955	LOG	Send Test Command RxAppCntReq process starts
0:11:22.569437	LOG	First uplink received. Open reception window.
0:11:22.679455	LOG	PUSH_ACK: 02 0691 01
0:11:22.681422	LOG	GPS Time from gateway: 1385113619813
0:11:22.682422	LOG	PUSH_DATA: Protocol version = 02, Token = 0691, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3778924714, 'time': '2023-11-27T09:46:40.813081Z', 'tmms': 1385113619813, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.5, 'foff': -3304, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCRQQFBwKwE76HVlqBpKFwww==\'}]}
0:11:22.683422	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0445, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: a4a170c3)
0:11:22.685422	LOG	Server <---------- DUT
0:11:22.686422	LOG	MAC Command RXParamSetupAns received
0:11:22.688421	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01d7, FOpts:), FPort: e0, FRMPayload: 09), MIC: 473d689c)
0:11:22.689421	LOG	Frame command sent to the DUT
0:11:22.690926	LOG	PULL_RESP: Protocol version = 02, Token = 777f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3780924714, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAA1wHgXkc9aJw=\'}}
0:11:22.692932	LOG	Server ----------> DUT
0:11:22.694933	LOG	TX_ACK: 02 777f 05 0016c001ff1025bf
0:11:24.583169	LOG	GPS Time updated: 1385113621827
0:11:24.584731	LOG	PULL_DATA: 02 94c1 02 0016c001ff1025bf
0:11:24.586370	LOG	PULL_ACK: 02 94c1 04
0:11:26.434086	LOG	First uplink received. Open reception window.
0:11:26.547445	LOG	PUSH_ACK: 02 c58e 01
0:11:26.549454	LOG	GPS Time from gateway: 1385113623679
0:11:26.551451	LOG	PUSH_DATA: Protocol version = 02, Token = c58e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3782790661, 'time': '2023-11-27T09:46:44.679027Z', 'tmms': 1385113623679, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.0, 'foff': -3320, 'rssi': -51, 'size': 16, 'data': 'QAAAAACARgTgoTb/3or5SA==\'}]}
0:11:26.552451	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0446, FOpts:), FPort: e0, FRMPayload: 09a500, MIC: de8af948)
0:11:26.554803	LOG	Server <---------- DUT
0:11:26.559166	LOG	Frame Command Payload in the Answer: 09a500
0:11:26.565290	LOG	RX Count received by DUT: 165
0:11:26.568499	LOG	Send Test Command RxAppCntReq process completed
0:11:26.572596	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:11:32.569595	LOG	First uplink received. Open reception window.
0:11:32.679427	LOG	PUSH_ACK: 02 d397 01
0:11:32.681428	LOG	GPS Time from gateway: 1385113629812
0:11:32.682431	LOG	PUSH_DATA: Protocol version = 02, Token = d397, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3788924100, 'time': '2023-11-27T09:46:50.812465Z', 'tmms': 1385113629812, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.5, 'foff': -3307, 'rssi': -51, 'size': 20, 'data': 'QAAAAACARwQCVydBAcHpCE+ZxFc=\'}]}
0:11:32.683463	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0447, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4f99c457)
0:11:32.685470	LOG	Server <---------- DUT

0:11:32.687462	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01d8, FOpts:), FPort: e0, FRMPayload: 0500), MIC: f458d2f4)
0:11:32.688462	LOG	Frame command sent to the DUT
0:11:32.689464	LOG	PULL_RESP: Protocol version = 02, Token = 9d52, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3790924100, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA2AHgYx/0WNL0'}}
0:11:32.691001	LOG	Server ----------> DUT
0:11:32.694006	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:11:32.702234	LOG	Send Test Command TxFramesCtrlReq process starts
0:11:34.792804	LOG	GPS Time updated: 1385113632035
0:11:34.794771	LOG	PULL_DATA: 02 f7f8 02 0016c001ff1025bf
0:11:34.795772	LOG	PULL_ACK: 02 f7f8 04
0:11:37.572113	LOG	First uplink received. Open reception window.
0:11:37.679038	LOG	PUSH_ACK: 02 3633 01
0:11:37.681007	LOG	GPS Time from gateway: 1385113634812
0:11:37.682006	LOG	PUSH_DATA: Protocol version = 02, Token = 3633, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3793923848, 'time': '2023-11-27T09:46:55.812212Z', 'tmms': 1385113634812, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 9.5, 'foff': -3314, 'rssi': -51, 'size': 20, 'data': 'QAAAAACASAQCI0a9YTsG8Fl7fPM='}]}
0:11:37.684007	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0448, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 597b7cf3)
0:11:37.685007	LOG	Server <---------- DUT
0:11:37.687007	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01d9, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 7f391a38)
0:11:37.688006	LOG	Frame command sent to the DUT
0:11:37.690007	LOG	PULL_RESP: Protocol version = 02, Token = b873, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3794923848, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA2QHg361/ORo4'}}
0:11:37.691510	LOG	Server ----------> DUT
0:11:37.694521	LOG	Send Test Command TxFramesCtrlReq process completed
0:11:37.698516	LOG	Send Test Command TxFramesCtrlReq process starts
0:11:42.572933	LOG	First uplink received. Open reception window.
0:11:42.684197	LOG	PUSH_ACK: 02 e78b 01
0:11:42.686151	LOG	GPS Time from gateway: 1385113639811
0:11:42.687153	LOG	PUSH_DATA: Protocol version = 02, Token = e78b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3798923592, 'time': '2023-11-27T09:47:00.811954Z', 'tmms': 1385113639811, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 11.8, 'foff': -3310, 'rssi': -51, 'size': 20, 'data': 'QAAAAACASQQCiwsdKQE1YkQZBTQ='}]}
0:11:42.688155	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0449, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 44190534)
0:11:42.690151	LOG	Server <---------- DUT
0:11:42.691655	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01da, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 78021e48)
0:11:42.693666	LOG	Frame command sent to the DUT
0:11:42.695662	LOG	PULL_RESP: Protocol version = 02, Token = f635, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3799923592, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA2gHgr9Z4Ah5I'}}
0:11:42.696660	LOG	Server ----------> DUT
0:11:42.699661	LOG	Send Test Command TxFramesCtrlReq process completed
0:11:42.703663	LOG	Send Test Command TxFramesCtrlReq process starts
0:11:45.002664	LOG	GPS Time updated: 1385113642241

0:11:45.004234	LOG	PULL_DATA: 02 8cb2 02 0016c001ff1025bf
0:11:45.006244	LOG	PULL_ACK: 02 8cb2 04
0:11:47.570128	LOG	First uplink received. Open reception window.
0:11:47.676867	LOG	PUSH_ACK: 02 5e98 01
0:11:47.678837	LOG	GPS Time from gateway: 1385113644811
0:11:47.679836	LOG	PUSH_DATA: Protocol version = 02, Token = 5e98, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3803923336, 'time': '2023-11-27T09:47:05.811699Z', 'tmms': 1385113644811, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.5, 'foff': -3308, 'rssi': -51, 'size': 20, 'data': 'QAAAAACASgQC5LeHMFxLWZF7b3c='}]}
0:11:47.680841	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 044a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 917b6f77)
0:11:47.682841	LOG	Server <---------- DUT
0:11:47.683841	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01db, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 71460502)
0:11:47.685841	LOG	Frame command sent to the DUT
0:11:47.687842	LOG	PULL_RESP: Protocol version = 02, Token = 16d8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3804923336, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA2wHgJABxRgUC'}}
0:11:47.688840	LOG	Server ----------> DUT
0:11:47.691345	LOG	Send Test Command TxFramesCtrlReq process completed
0:11:47.695349	LOG	Send Test Command TxFramesCtrlReq process starts
0:11:52.566199	LOG	First uplink received. Open reception window.
0:11:52.673894	LOG	PUSH_ACK: 02 96cd 01
0:11:52.675896	LOG	GPS Time from gateway: 1385113649811
0:11:52.676913	LOG	PUSH_DATA: Protocol version = 02, Token = 96cd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3808923081, 'time': '2023-11-27T09:47:10.811443Z', 'tmms': 1385113649811, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.0, 'foff': -3310, 'rssi': -51, 'size': 20, 'data': 'QAAAAACASwQCQkqQiL1ZYAjTs8o='}]}
0:11:52.678934	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 044b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 08d3b3ca)
0:11:52.679933	LOG	Server <---------- DUT
0:11:52.681902	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01dc, FOpts:), FPort: e0, FRMPayload: 0700), MIC: d3a16370)
0:11:52.683902	LOG	Frame command sent to the DUT
0:11:52.684936	LOG	PULL_RESP: Protocol version = 02, Token = 9095, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3809923081, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA3AHgpQLToWNw'}}
0:11:52.685933	LOG	Server ----------> DUT
0:11:52.688934	LOG	Send Test Command TxFramesCtrlReq process completed
0:11:52.699067	LOG	Send Test Command TxFramesCtrlReq process starts
0:11:55.203334	LOG	GPS Time updated: 1385113652447
0:11:55.204334	LOG	PULL_DATA: 02 e0c5 02 0016c001ff1025bf
0:11:55.206338	LOG	PULL_ACK: 02 e0c5 04
0:11:57.566670	LOG	First uplink received. Open reception window.
0:11:57.677968	LOG	PUSH_ACK: 02 c058 01
0:11:57.680004	LOG	GPS Time from gateway: 1385113654811
0:11:57.681006	LOG	PUSH_DATA: Protocol version = 02, Token = c058, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3813922811, 'time': '2023-11-27T09:47:15.811172Z', 'tmms': 1385113654811, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.5, 'foff': -3310, 'rssi': -51, 'size': 20, 'data': 'QAAAAACATAQCI1nIeRNF+PzLg1k='}]}

0:11:57.682002	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 044c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fccb8359)
0:11:57.683970	LOG	Server <---------- DUT
0:11:57.685971	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01dd, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 9199c997)
0:11:57.687003	LOG	Frame command sent to the DUT
0:11:57.688979	LOG	PULL_RESP: Protocol version = 02, Token = 994f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3814922811, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'oAAAAAAA3QHgxb3tzwd7ildov4Rdwd2eVothRDWnNkgpawFQfJW2uuk2hJTrMQ0cKUY+3UETfqnXmaOQkZnJlw==''}}
0:11:57.690004	LOG	Server ----------> DUT
0:11:57.693548	LOG	Send Test Command TxFramesCtrlReq process completed
0:11:57.696548	LOG	Check previous uplink data rate process starts
0:11:57.701561	LOG	Uplink received with expected Data Rate
0:11:57.704955	LOG	Check ACK bit in next uplink process starts
0:12:01.996985	LOG	First uplink received. Open reception window.
0:12:02.100959	LOG	PUSH_ACK: 02 ea59 01
0:12:02.102928	LOG	GPS Time from gateway: 1385113659236
0:12:02.103928	LOG	PUSH_DATA: Protocol version = 02, Token = ea59, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3818348370, 'time': '2023-11-27T09:47:20.236730Z', 'tmms': 1385113659236, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 11.5, 'foff': -3330, 'rssi': -52, 'size': 12, 'data': 'QAAAAACgTQQuquOz'}]}
0:12:02.105939	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 044d, FOpts:), FPort: , FRMPayload: , MIC: 2eaae3b3)
0:12:02.106963	LOG	Server <---------- DUT
0:12:02.107960	LOG	ACK bit in FCtrl field is set
0:12:02.110929	LOG	Check ACK bit in next uplink tested successfully
0:12:02.116935	LOG	Send Test Command RxAppCntReq process starts
0:12:05.252964	LOG	GPS Time updated: 1385113662492
0:12:05.253996	LOG	PULL_DATA: 02 87af 02 0016c001ff1025bf
0:12:05.255970	LOG	PULL_ACK: 02 87af 04
0:12:07.564546	LOG	First uplink received. Open reception window.
0:12:07.668508	LOG	PUSH_ACK: 02 e75b 01
0:12:07.670473	LOG	GPS Time from gateway: 1385113664810
0:12:07.671473	LOG	PUSH_DATA: Protocol version = 02, Token = e75b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3823922310, 'time': '2023-11-27T09:47:25.810669Z', 'tmms': 1385113664810, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.5, 'foff': -3312, 'rssi': -51, 'size': 20, 'data': 'QAAAAACATgQCdUEP/fu3UXi2vyc='}]}
0:12:07.672472	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 044e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 78b6bf27)
0:12:07.674473	LOG	Server <---------- DUT
0:12:07.675473	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01de, FOpts:), FPort: e0, FRMPayload: 09), MIC: 8dda426d)
0:12:07.677478	LOG	Frame command sent to the DUT
0:12:07.678478	LOG	PULL_RESP: Protocol version = 02, Token = 9029, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3825922310, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAA3gHgGI3aQm0='}}
0:12:07.680479	LOG	Server ----------> DUT
0:12:07.683478	LOG	TX_ACK: 02 9029 05 0016c001ff1025bf

0:12:11.432660	LOG	Multiple frames received. Selecting the correct frame...
0:12:11.434659	LOG	Frame selected: {'jver': 1, 'tmst': 3827788647, 'time': '2023-11-27T09:47:29.677006Z', 'tmms': 1385113668677, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.0, 'foff': -3325, 'rssi': -51, 'size': 16, 'data': 'QAAAAACATwTgLaYveJdDnA=='}
0:12:11.436393	LOG	First uplink received. Open reception window.
0:12:11.541272	LOG	PUSH_ACK: 02 46de 01
0:12:11.542847	LOG	GPS Time from gateway: 1385113668677
0:12:11.544850	LOG	PUSH_DATA: Protocol version = 02, Token = 46de, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3827788647, 'time': '2023-11-27T09:47:29.677006Z', 'tmms': 1385113668677, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.0, 'foff': -3325, 'rssi': -51, 'size': 16, 'data': 'QAAAAACATwTgLaYveJdDnA=='}, {'jver': 1, 'tmst': 3827788647, 'time': '2023-11-27T09:47:29.677006Z', 'tmms': 1385113668677, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.5, 'foff': -3325, 'rssi': -114, 'size': 16, 'data': 'QAAAAACATwTgLaYveJdDnA=='}]}
0:12:11.545851	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 044f, FOpts:), FPort: e0, FRMPayload: 09ac00, MIC: 7897439c)
0:12:11.546845	LOG	Server <---------- DUT
0:12:11.548858	LOG	Frame Command Payload in the Answer: 09ac00
0:12:11.552852	LOG	RX Count received by DUT: 172
0:12:11.554851	LOG	Send Test Command RxAppCntReq process completed
0:12:11.561846	LOG	Send MAC command block process starts
0:12:15.452839	LOG	GPS Time updated: 1385113672694
0:12:15.453843	LOG	PULL_DATA: 02 537d 02 0016c001ff1025bf
0:12:15.455846	LOG	PULL_ACK: 02 537d 04
0:12:17.566521	LOG	First uplink received. Open reception window.
0:12:17.670054	LOG	PUSH_ACK: 02 12f4 01
0:12:17.672057	LOG	GPS Time from gateway: 1385113674810
0:12:17.673060	LOG	PUSH_DATA: Protocol version = 02, Token = 12f4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3833921797, 'time': '2023-11-27T09:47:35.810155Z', 'tmms': 1385113674810, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 9.2, 'foff': -3315, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAUAQC5iNeDlHgQUFJb/o='}]}
0:12:17.675058	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0450, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 41496ffa)
0:12:17.676059	LOG	Server <---------- DUT
0:12:17.678062	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01df, FOpts:), FPort: 00, FRMPayload: 03100700010550d2ad84), MIC: 7f07d62e)
0:12:17.680062	LOG	PULL_RESP: Protocol version = 02, Token = a19c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3835921797, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAA3wEAF9vLjbm3gvdz6X8H1i4='}}
0:12:17.681065	LOG	Server ----------> DUT
0:12:17.684099	LOG	TX_ACK: 02 a19c 05 0016c001ff1025bf
0:12:23.637406	LOG	First uplink received. Open reception window.
0:12:23.743101	LOG	PUSH_ACK: 02 7f7e 01
0:12:23.745228	LOG	GPS Time from gateway: 1385113680879
0:12:23.746942	LOG	PUSH_DATA: Protocol version = 02, Token = 7f7e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3839990823, 'time': '2023-11-27T09:47:41.879180Z', 'tmms': 1385113680879, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 11.0, 'foff': -3319, 'rssi': -51, 'size': 24, 'data': 'QAAAAACEUQQDBwUHAm2YGHw4CzeUQWRw'}]}

0:12:23.747992	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0451, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 94416470)
0:12:23.749636	LOG	Server <---------- DUT
0:12:23.751640	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:12:23.752641	LOG	Command Answer: 03070507
0:12:23.810346	LOG	MAC command communication completed
0:12:23.813356	LOG	Send Test Command RxAppCntReq process starts
0:12:25.463234	LOG	GPS Time updated: 1385113682705
0:12:25.464247	LOG	PULL_DATA: 02 3f0c 02 0016c001ff1025bf
0:12:25.466235	LOG	PULL_ACK: 02 3f0c 04
0:12:28.338145	LOG	First uplink received. Open reception window.
0:12:28.440364	LOG	PUSH_ACK: 02 309d 01
0:12:28.441832	LOG	GPS Time from gateway: 1385113685579
0:12:28.443837	LOG	PUSH_DATA: Protocol version = 02, Token = 309d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3844690867, 'time': '2023-11-27T09:47:46.579223Z', 'tmms': 1385113685579, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.0, 'foff': -3311, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCUgQFBwLnwZ4Ja5tBYoMepQ==’}]}
0:12:28.444838	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0452, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 62831ea5)
0:12:28.445838	LOG	Server <---------- DUT
0:12:28.447838	LOG	MAC Command RXParamSetupAns received
0:12:28.448837	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01e0, FOpts:), FPort: e0, FRMPayload: 09), MIC: 641bec66)
0:12:28.450838	LOG	Frame command sent to the DUT
0:12:28.451838	LOG	PULL_RESP: Protocol version = 02, Token = d24f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3846690867, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAA4AHg72Qb7GY='}}
0:12:28.453838	LOG	Server ----------> DUT
0:12:28.456870	LOG	TX_ACK: 02 d24f 05 0016c001ff1025bf
0:12:32.202572	LOG	First uplink received. Open reception window.
0:12:32.316436	LOG	PUSH_ACK: 02 a481 01
0:12:32.317631	LOG	GPS Time from gateway: 1385113689445
0:12:32.319630	LOG	PUSH_DATA: Protocol version = 02, Token = a481, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3848556918, 'time': '2023-11-27T09:47:50.445273Z', 'tmms': 1385113689445, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.2, 'foff': -3326, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAUwTgOm7ua3dJQg==’}]}
0:12:32.320628	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0453, FOpts:), FPort: e0, FRMPayload: 09ad00, MIC: 6b774942)
0:12:32.322597	LOG	Server <---------- DUT
0:12:32.323629	LOG	Frame Command Payload in the Answer: 09ad00
0:12:32.327628	LOG	RX Count received by DUT: 173
0:12:32.329598	LOG	Send Test Command RxAppCntReq process completed
0:12:32.332629	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:12:35.603106	LOG	GPS Time updated: 1385113692845
0:12:35.604794	LOG	PULL_DATA: 02 4a3b 02 0016c001ff1025bf
0:12:35.605854	LOG	PULL_ACK: 02 4a3b 04
0:12:38.336246	LOG	First uplink received. Open reception window.
0:12:38.438136	LOG	PUSH_ACK: 02 4e2a 01
0:12:38.440104	LOG	GPS Time from gateway: 1385113695578
0:12:38.440104	LOG	PUSH_DATA: Protocol version = 02, Token = 4e2a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3854690258, 'time': '2023-11-27T09:47:56.578612Z',

		'tmms': 1385113695578, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.2, 'foff': -3314, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAVAQCQpU+xDpQMdevsfk='}]}
0:12:38.442615	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0454, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d7afb1f9)
0:12:38.443614	LOG	Server <---------- DUT
0:12:38.445615	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01e1, FOpts:), FPort: e0, FRMPayload: 0500), MIC: bcaac049)
0:12:38.447614	LOG	Frame command sent to the DUT
0:12:38.448614	LOG	PULL_RESP: Protocol version = 02, Token = fd49, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3856690258, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA4QHgzKq8qsBJ'}}
0:12:38.450621	LOG	Server ----------> DUT
0:12:38.453615	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:12:38.459468	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:43.330254	LOG	First uplink received. Open reception window.
0:12:43.435448	LOG	PUSH_ACK: 02 000e 01
0:12:43.437455	LOG	GPS Time from gateway: 1385113700578
0:12:43.438416	LOG	PUSH_DATA: Protocol version = 02, Token = 000e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3859689990, 'time': '2023-11-27T09:48:01.578342Z', 'tmms': 1385113700578, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.2, 'foff': -3318, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAVQQCT26KEI0O5tho8sk='}]}
0:12:43.440420	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0455, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d868f2c9)
0:12:43.441924	LOG	Server <---------- DUT
0:12:43.443963	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01e2, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 6d0bf612)
0:12:43.444965	LOG	Frame command sent to the DUT
0:12:43.446987	LOG	PULL_RESP: Protocol version = 02, Token = 9be2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3860689990, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA4gHgzhxtC/YS'}}
0:12:43.448931	LOG	Server ----------> DUT
0:12:43.451928	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:43.454962	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:45.762572	LOG	GPS Time updated: 1385113703010
0:12:45.764538	LOG	PULL_DATA: 02 d56d 02 0016c001ff1025bf
0:12:45.765538	LOG	PULL_ACK: 02 d56d 04
0:12:48.331016	LOG	First uplink received. Open reception window.
0:12:48.435213	LOG	PUSH_ACK: 02 1e5c 01
0:12:48.437180	LOG	GPS Time from gateway: 1385113705578
0:12:48.438180	LOG	PUSH_DATA: Protocol version = 02, Token = 1e5c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3864689743, 'time': '2023-11-27T09:48:06.578096Z', 'tmms': 1385113705578, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.5, 'foff': -3314, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAVgQChP34YMBIXyJbx0M='}]}
0:12:48.439186	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0456, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 225bc743)
0:12:48.440185	LOG	Server <---------- DUT
0:12:48.442696	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01e3, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 48703b80)
0:12:48.444695	LOG	Frame command sent to the DUT
0:12:48.446732	LOG	PULL_RESP: Protocol version = 02, Token = 21c5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3865689743, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA4wHgBI5IcDuA'}}
0:12:48.447710	LOG	Server ----------> DUT
0:12:48.450706	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:48.454973	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:53.335966	LOG	First uplink received. Open reception window.
0:12:53.438272	LOG	PUSH_ACK: 02 b763 01
0:12:53.440273	LOG	GPS Time from gateway: 1385113710577
0:12:53.441778	LOG	PUSH_DATA: Protocol version = 02, Token = b763, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3869689484, 'time': '2023-11-27T09:48:11.577836Z', 'tmms': 1385113710577, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.2, 'foff': -3311, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAVwQCPXII9U+1wI4geso='}]}
0:12:53.442783	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0457, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8e207aca)
0:12:53.444792	LOG	Server <---------- DUT
0:12:53.446783	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01e4, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 65612e54)
0:12:53.447782	LOG	Frame command sent to the DUT
0:12:53.448782	LOG	PULL_RESP: Protocol version = 02, Token = 2fbe, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3870689484, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA5AHg2BBlYS5U'}}
0:12:53.450783	LOG	Server ----------> DUT
0:12:53.453809	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:53.457783	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:55.972855	LOG	GPS Time updated: 1385113713214
0:12:55.974365	LOG	PULL_DATA: 02 e0f6 02 0016c001ff1025bf
0:12:55.975365	LOG	PULL_ACK: 02 e0f6 04
0:12:58.331019	LOG	First uplink received. Open reception window.
0:12:58.433261	LOG	PUSH_ACK: 02 ff24 01
0:12:58.435229	LOG	GPS Time from gateway: 1385113715577
0:12:58.436244	LOG	PUSH_DATA: Protocol version = 02, Token = ff24, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3874689224, 'time': '2023-11-27T09:48:16.577575Z', 'tmms': 1385113715577, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.2, 'foff': -3313, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAWAQCcAL+d/LtmuAWf/s='}]}
0:12:58.438262	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0458, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e0167ffb)
0:12:58.439264	LOG	Server <---------- DUT
0:12:58.441733	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01e5, FOpts:), FPort: e0, FRMPayload: 0700), MIC: cfc8eec2)
0:12:58.442738	LOG	Frame command sent to the DUT
0:12:58.444769	LOG	PULL_RESP: Protocol version = 02, Token = 1cb1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3875689224, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA5QHgOC/PyO7C'}}
0:12:58.446741	LOG	Server ----------> DUT
0:12:58.449781	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:58.459036	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:03.337843	LOG	#**********CURRENT BEACON SENT**********#
0:13:03.338843	LOG	PULL_RESP: Protocol version = 02, Token = 3c14, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385113728000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAKI9SToMAAAAAAAAAAA='}}

0:13:03.340578	LOG	Server ----------> DUT
0:13:03.342584	LOG	#**********# **********#
0:13:03.352135	LOG	#**********NEXT BEACON QUEUED**********#
0:13:03.354089	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385113856000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAKY9SRmkAAAAAAAAAAA='}}
0:13:03.355089	LOG	Server ----------> DUT
0:13:03.357121	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 00298f52, CRC1: 4669, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385113856000
0:13:03.358122	LOG	#**********# **********#
0:13:03.359121	LOG	Next BEACON scheduled at GPS time (ms): 1385113984000
0:13:03.361121	LOG	First uplink received. Open reception window.
0:13:03.362091	LOG	TX_ACK: 02 3c14 05 0016c001ff1025bf
0:13:03.476096	LOG	PUSH_ACK: 02 ef7f 01
0:13:03.479097	LOG	GPS Time from gateway: 1385113720577
0:13:03.480089	LOG	PUSH_DATA: Protocol version = 02, Token = ef7f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3879688967, 'time': '2023-11-27T09:48:21.577317Z', 'tmms': 1385113720577, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.8, 'foff': -3313, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAWQQCJe6zBJ7MCBAQCU0='}]}
0:13:03.482062	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0459, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1010094d)
0:13:03.483065	LOG	Server <---------- DUT
0:13:03.485096	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01e6, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 7fa9ca21)
0:13:03.487100	LOG	Frame command sent to the DUT
0:13:03.489098	LOG	PULL_RESP: Protocol version = 02, Token = db37, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3880688967, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'oAAAAAAA5gHgBH9e/jfWdZI1Dt6n4nKpP8gHKYVhXQHTeqjFhva4RiukQvmVy6bEqsc0HESLIQ1k88s1f6nKIQ==''}}
0:13:03.490134	LOG	Server ----------> DUT
0:13:03.493103	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:03.496102	LOG	Check previous uplink data rate process starts
0:13:03.500639	LOG	Uplink received with expected Data Rate
0:13:03.502671	LOG	Check ACK bit in next uplink process starts
0:13:06.002623	LOG	GPS Time updated: 1385113723217
0:13:06.003573	LOG	PULL_DATA: 02 a32e 02 0016c001ff1025bf
0:13:06.005572	LOG	PULL_ACK: 02 a32e 04
0:13:07.757508	LOG	Multiple frames received. Selecting the correct frame...
0:13:07.758540	LOG	Frame selected: {'jver': 1, 'tmst': 3884114656, 'time': '2023-11-27T09:48:26.003006Z', 'tmms': 1385113725002, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.5, 'foff': -3331, 'rssi': -51, 'size': 12, 'data': 'QAAAAACgWgROpDD+'}
0:13:07.760508	LOG	First uplink received. Open reception window.
0:13:07.872187	LOG	PUSH_ACK: 02 cc2f 01
0:13:07.874156	LOG	GPS Time from gateway: 1385113725002

0:13:07.875156	LOG	PUSH_DATA: Protocol version = 02, Token = cc2f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3884114656, 'time': '2023-11-27T09:48:26.003006Z', 'tmms': 1385113725002, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.5, 'foff': -3331, 'rssi': -51, 'size': 12, 'data': 'QAAAAACgWgROpDD+'}, {'jver': 1, 'tmst': 3884114664, 'time': '2023-11-27T09:48:26.003014Z', 'tmms': 1385113725002, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.0, 'foff': -3393, 'rssi': -114, 'size': 12, 'data': 'QAAAAACgWgROpDD+'}]}
0:13:07.876168	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 045a, FOpts:), FPort: , FRMPayload: , MIC: 4ea430fe)
0:13:07.877161	LOG	Server <---------- DUT
0:13:07.879666	LOG	ACK bit in FCtrl field is set
0:13:07.882672	LOG	Check ACK bit in next uplink tested successfully
0:13:07.888674	LOG	Send Test Command RxAppCntReq process starts
0:13:13.329669	LOG	First uplink received. Open reception window.
0:13:13.440776	LOG	PUSH_ACK: 02 5516 01
0:13:13.442248	LOG	GPS Time from gateway: 1385113730576
0:13:13.444254	LOG	PUSH_DATA: Protocol version = 02, Token = 5516, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3889688458, 'time': '2023-11-27T09:48:31.576807Z', 'tmms': 1385113730576, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.2, 'foff': -3311, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAWwQCCi0E0qtvUYFmKNw='}]}
0:13:13.445254	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 045b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 816628dc)
0:13:13.446253	LOG	Server <---------- DUT
0:13:13.448254	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01e7, FOpts:), FPort: e0, FRMPayload: 09), MIC: e17b8cc2)
0:13:13.449252	LOG	Frame command sent to the DUT
0:13:13.451253	LOG	PULL_RESP: Protocol version = 02, Token = 2ac2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3891688458, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAA5wHgoeF7jMI='}}
0:13:13.452253	LOG	Server ----------> DUT
0:13:13.456286	LOG	TX_ACK: 02 2ac2 05 0016c001ff1025bf
0:13:16.182624	LOG	GPS Time updated: 1385113733429
0:13:16.183592	LOG	PULL_DATA: 02 6aa3 02 0016c001ff1025bf
0:13:16.185593	LOG	PULL_ACK: 02 6aa3 04
0:13:17.200723	LOG	First uplink received. Open reception window.
0:13:17.303851	LOG	PUSH_ACK: 02 406b 01
0:13:17.305852	LOG	GPS Time from gateway: 1385113734442
0:13:17.306853	LOG	PUSH_DATA: Protocol version = 02, Token = 406b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3893554079, 'time': '2023-11-27T09:48:35.442427Z', 'tmms': 1385113734442, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.2, 'foff': -3323, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAXATgfiy4Zydazw=='}]}
0:13:17.308852	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 045c, FOpts:), FPort: e0, FRMPayload: 09b400, MIC: 67275acf)
0:13:17.309850	LOG	Server <---------- DUT
0:13:17.310853	LOG	Frame Command Payload in the Answer: 09b400
0:13:17.314851	LOG	RX Count received by DUT: 180
0:13:17.317356	LOG	Send Test Command RxAppCntReq process completed
0:13:17.323367	LOG	End Test Step: Test packet error rate for SF11BW125 using RX1 window
0:13:17.327865	LOG	Partial Verdict: PASS
0:13:17.331870	LOG	==========
0:13:17.335875	LOG	==========

0:13:17.338874	LOG	Start Test Step: Test packet error rate for SF10BW125 using RX1 window
0:13:17.348936	LOG	Step 03-09
0:13:17.353946	LOG	Send MAC command block process starts
0:13:23.333844	LOG	First uplink received. Open reception window.
0:13:23.441000	LOG	PUSH_ACK: 02 3087 01
0:13:23.442540	LOG	GPS Time from gateway: 1385113740576
0:13:23.444598	LOG	PUSH_DATA: Protocol version = 02, Token = 3087, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3899687948, 'time': '2023-11-27T09:48:41.576295Z', 'tmms': 1385113740576, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.2, 'foff': -3310, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAXQQC2xmUFq7Xk3R3fb0='}]}
0:13:23.445545	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 045d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 74777dbd)
0:13:23.447545	LOG	Server <---------- DUT
0:13:23.448545	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01e8, FOpts:), FPort: 00, FRMPayload: 03200700010500d2ad84), MIC: 7226f2b8)
0:13:23.450545	LOG	PULL_RESP: Protocol version = 02, Token = a891, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3901687948, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAA6AEAzDUzzSesrb/0THIm8rg='}}
0:13:23.451547	LOG	Server ----------> DUT
0:13:23.454571	LOG	TX_ACK: 02 a891 05 0016c001ff1025bf
0:13:26.392584	LOG	GPS Time updated: 1385113743635
0:13:26.393584	LOG	PULL_DATA: 02 304f 02 0016c001ff1025bf
0:13:26.395587	LOG	PULL_ACK: 02 304f 04
0:13:28.982127	LOG	First uplink received. Open reception window.
0:13:29.084981	LOG	PUSH_ACK: 02 e34d 01
0:13:29.086948	LOG	GPS Time from gateway: 1385113746227
0:13:29.087975	LOG	PUSH_DATA: Protocol version = 02, Token = e34d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3905338820, 'time': '2023-11-27T09:48:47.227166Z', 'tmms': 1385113746227, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3316, 'rssi': -51, 'size': 24, 'data': 'QAAAAACEXgQDBwUHAmbZMMIqhrzCUZhP'}]}
0:13:29.089950	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 045e, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: c251984f)
0:13:29.090950	LOG	Server <---------- DUT
0:13:29.092950	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:13:29.093982	LOG	Command Answer: 03070507
0:13:29.150788	LOG	MAC command communication completed
0:13:29.154755	LOG	Send Test Command RxAppCntReq process starts
0:13:33.766699	LOG	First uplink received. Open reception window.
0:13:33.868234	LOG	PUSH_ACK: 02 549b 01
0:13:33.870203	LOG	GPS Time from gateway: 1385113751008
0:13:33.871203	LOG	PUSH_DATA: Protocol version = 02, Token = 549b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3910120647, 'time': '2023-11-27T09:48:52.008990Z', 'tmms': 1385113751008, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.0, 'foff': -3314, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCXwQFBwKHr74X7WDqXFusZQ=='}]}
0:13:33.872208	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 045f, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 5c5bac65)
0:13:33.874208	LOG	Server <---------- DUT
0:13:33.875208	LOG	MAC Command RXParamSetupAns received

0:13:33.877208	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01e9, FOpts:), FPort: e0, FRMPayload: 09), MIC: d3c3ab1a)
0:13:33.878208	LOG	Frame command sent to the DUT
0:13:33.879715	LOG	PULL_RESP: Protocol version = 02, Token = 3fc7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3912120647, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAA6QHgttPDqxo='}}
0:13:33.881721	LOG	Server ----------> DUT
0:13:33.884722	LOG	TX_ACK: 02 3fc7 05 0016c001ff1025bf
0:13:36.402279	LOG	GPS Time updated: 1385113753644
0:13:36.404296	LOG	PULL_DATA: 02 b038 02 0016c001ff1025bf
0:13:36.405806	LOG	PULL_ACK: 02 b038 04
0:13:37.302767	LOG	First uplink received. Open reception window.
0:13:37.411848	LOG	PUSH_ACK: 02 a690 01
0:13:37.413817	LOG	GPS Time from gateway: 1385113754545
0:13:37.414817	LOG	PUSH_DATA: Protocol version = 02, Token = a690, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3913657251, 'time': '2023-11-27T09:48:55.545596Z', 'tmms': 1385113754545, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3330, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAYATgMO4ctvDAPg=='}]}
0:13:37.415817	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0460, FOpts:), FPort: e0, FRMPayload: 09b500, MIC: b6f0c03e)
0:13:37.417817	LOG	Server <---------- DUT
0:13:37.418817	LOG	Frame Command Payload in the Answer: 09b500
0:13:37.422850	LOG	RX Count received by DUT: 181
0:13:37.424817	LOG	Send Test Command RxAppCntReq process completed
0:13:37.427822	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:13:43.764666	LOG	First uplink received. Open reception window.
0:13:43.872193	LOG	PUSH_ACK: 02 2ea5 01
0:13:43.874161	LOG	GPS Time from gateway: 1385113761008
0:13:43.875160	LOG	PUSH_DATA: Protocol version = 02, Token = 2ea5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3920120028, 'time': '2023-11-27T09:49:02.008372Z', 'tmms': 1385113761008, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3315, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAYQQC/QNsytmXDIwGNlg='}]}
0:13:43.876165	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0461, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8c063658)
0:13:43.878165	LOG	Server <---------- DUT
0:13:43.879670	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01ea, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 36946ce4)
0:13:43.881676	LOG	Frame command sent to the DUT
0:13:43.882676	LOG	PULL_RESP: Protocol version = 02, Token = 4404, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3922120028, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA6gHgse82lGzk'}}
0:13:43.884677	LOG	Server ----------> DUT
0:13:43.887677	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:13:43.893618	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:46.612173	LOG	GPS Time updated: 1385113763856
0:13:46.614176	LOG	PULL_DATA: 02 b41e 02 0016c001ff1025bf
0:13:46.616182	LOG	PULL_ACK: 02 b41e 04
0:13:48.765611	LOG	First uplink received. Open reception window.
0:13:48.868044	LOG	PUSH_ACK: 02 2457 01
0:13:48.870012	LOG	GPS Time from gateway: 1385113766008
0:13:48.872013	LOG	PUSH_DATA: Protocol version = 02, Token = 2457, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3925119766, 'time': '2023-11-27T09:49:07.008108Z',

		'tmms': 1385113766008, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.8, 'foff': -3321, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAYgQCAS1JH9LETB7ns4Y='}]}
0:13:48.873031	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0462, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1ee7b386)
0:13:48.874031	LOG	Server <---------- DUT
0:13:48.876031	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01eb, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 4af8adc7)
0:13:48.878031	LOG	Frame command sent to the DUT
0:13:48.879536	LOG	PULL_RESP: Protocol version = 02, Token = 1ab9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3926119766, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA6wHgF31K+K3H'}}
0:13:48.880541	LOG	Server ----------> DUT
0:13:48.883542	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:48.887540	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:53.757428	LOG	First uplink received. Open reception window.
0:13:53.872005	LOG	PUSH_ACK: 02 df80 01
0:13:53.873973	LOG	GPS Time from gateway: 1385113771007
0:13:53.874972	LOG	PUSH_DATA: Protocol version = 02, Token = df80, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3930119501, 'time': '2023-11-27T09:49:12.007843Z', 'tmms': 1385113771007, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3318, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAYwQCeYSMajC4eNOQl3c='}]}
0:13:53.875972	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0463, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d3909777)
0:13:53.877978	LOG	Server <---------- DUT
0:13:53.879482	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01ec, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 24727c24)
0:13:53.881488	LOG	Frame command sent to the DUT
0:13:53.883489	LOG	PULL_RESP: Protocol version = 02, Token = 769d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3931119501, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA7AHgpiEkcnwk'}}
0:13:53.884489	LOG	Server ----------> DUT
0:13:53.888488	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:53.891520	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:56.821991	LOG	GPS Time updated: 1385113774071
0:13:56.823992	LOG	PULL_DATA: 02 2e49 02 0016c001ff1025bf
0:13:56.825994	LOG	PULL_ACK: 02 2e49 04
0:13:58.767449	LOG	First uplink received. Open reception window.
0:13:58.881968	LOG	PUSH_ACK: 02 236f 01
0:13:58.883936	LOG	GPS Time from gateway: 1385113776007
0:13:58.884984	LOG	PUSH_DATA: Protocol version = 02, Token = 236f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3935119276, 'time': '2023-11-27T09:49:17.007616Z', 'tmms': 1385113776007, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3321, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAZAQCnDGVpTbBiBsARaA='}]}
0:13:58.886937	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0464, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1b0045a0)
0:13:58.887969	LOG	Server <---------- DUT
0:13:58.889944	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01ed, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 7e422b5c)
0:13:58.890972	LOG	Frame command sent to the DUT
0:13:58.892936	LOG	PULL_RESP: Protocol version = 02, Token = 9ac9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3936119276, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF10BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA7QHgZg1+Qitc'}}
0:13:58.893969	LOG	Server ----------> DUT
0:13:58.896975	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:58.900977	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:03.757250	LOG	First uplink received. Open reception window.
0:14:03.858307	LOG	PUSH_ACK: 02 b4d5 01
0:14:03.860314	LOG	GPS Time from gateway: 1385113781007
0:14:03.861312	LOG	PUSH_DATA: Protocol version = 02, Token = b4d5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3940119061, 'time': '2023-11-27T09:49:22.007399Z', 'tmms': 1385113781007, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3321, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAZQQCDoZzwfWhA9kZ184='}]}
0:14:03.863310	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0465, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d919d7ce)
0:14:03.864311	LOG	Server <---------- DUT
0:14:03.866345	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01ee, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 773101ca)
0:14:03.867313	LOG	Frame command sent to the DUT
0:14:03.869344	LOG	PULL_RESP: Protocol version = 02, Token = 1701, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3941119061, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA7gHgahJ3MQHK'}}
0:14:03.870311	LOG	Server ----------> DUT
0:14:03.873311	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:03.882396	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:07.022296	LOG	GPS Time updated: 1385113784272
0:14:07.024273	LOG	PULL_DATA: 02 32e5 02 0016c001ff1025bf
0:14:07.026264	LOG	PULL_ACK: 02 32e5 04
0:14:08.765333	LOG	First uplink received. Open reception window.
0:14:08.880741	LOG	PUSH_ACK: 02 5c63 01
0:14:08.882709	LOG	GPS Time from gateway: 1385113786007
0:14:08.883720	LOG	PUSH_DATA: Protocol version = 02, Token = 5c63, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3945118801, 'time': '2023-11-27T09:49:27.007141Z', 'tmms': 1385113786007, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3322, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAZgQCcYNzTLRJ88bg9Gc='}]}
0:14:08.884709	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0466, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c6e0f467)
0:14:08.886710	LOG	Server <---------- DUT
0:14:08.888709	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01ef, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 8b7b41d7)
0:14:08.889709	LOG	Frame command sent to the DUT
0:14:08.891709	LOG	PULL_RESP: Protocol version = 02, Token = 3efa, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3946118801, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'oAAAAAAA7wHgq4zR7D5TiNm6cwdba4YykY/BLmKasNtte/pvG/1PwI/grdMqoH1o64lNs7AslLE/GDI7i3tB1w==''}}
0:14:08.892709	LOG	Server ----------> DUT
0:14:08.895709	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:08.898750	LOG	Check previous uplink data rate process starts
0:14:08.902713	LOG	Uplink received with expected Data Rate
0:14:08.905713	LOG	Check ACK bit in next uplink process starts

0:14:10.781904	LOG	First uplink received. Open reception window.
0:14:10.891293	LOG	PUSH_ACK: 02 b088 01
0:14:10.893261	LOG	GPS Time from gateway: 1385113788025
0:14:10.894260	LOG	PUSH_DATA: Protocol version = 02, Token = b088, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3947137037, 'time': '2023-11-27T09:49:29.025376Z', 'tmms': 1385113788025, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3331, 'rssi': -52, 'size': 12, 'data': 'QAAAAACgZwRp9ewb'}]}
0:14:10.895260	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 0467, FOpts:), FPort: , FRMPayload: , MIC: 69f5ec1b)
0:14:10.897266	LOG	Server <---------- DUT
0:14:10.898265	LOG	ACK bit in FCtrl field is set
0:14:10.901266	LOG	Check ACK bit in next uplink tested successfully
0:14:10.906299	LOG	Send Test Command RxAppCntReq process starts
0:14:13.759921	LOG	First uplink received. Open reception window.
0:14:13.862344	LOG	PUSH_ACK: 02 db60 01
0:14:13.864314	LOG	GPS Time from gateway: 1385113791006
0:14:13.865319	LOG	PUSH_DATA: Protocol version = 02, Token = db60, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3950118540, 'time': '2023-11-27T09:49:32.006879Z', 'tmms': 1385113791006, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3321, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAaAQCs/AmN7mAYhtF5Ks='}]}
0:14:13.866323	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0468, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1b45e4ab)
0:14:13.868324	LOG	Server <---------- DUT
0:14:13.869323	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01f0, FOpts:), FPort: e0, FRMPayload: 09), MIC: a207693a)
0:14:13.871324	LOG	Frame command sent to the DUT
0:14:13.872323	LOG	PULL_RESP: Protocol version = 02, Token = 4264, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3952118540, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAA8AHgTaIHaTo='}}
0:14:13.873324	LOG	Server ----------> DUT
0:14:13.877358	LOG	TX_ACK: 02 4264 05 0016c001ff1025bf
0:14:17.231952	LOG	GPS Time updated: 1385113794479
0:14:17.233952	LOG	PULL_DATA: 02 c181 02 0016c001ff1025bf
0:14:17.235952	LOG	PULL_ACK: 02 c181 04
0:14:17.296846	LOG	First uplink received. Open reception window.
0:14:17.407613	LOG	PUSH_ACK: 02 f0ef 01
0:14:17.409581	LOG	GPS Time from gateway: 1385113794542
0:14:17.411087	LOG	PUSH_DATA: Protocol version = 02, Token = f0ef, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3953654696, 'time': '2023-11-27T09:49:35.543034Z', 'tmms': 1385113794542, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3337, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAaQTg8HKSNkxqfQ=='}]}
0:14:17.412096	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0469, FOpts:), FPort: e0, FRMPayload: 09bc00, MIC: 364c6a7d)
0:14:17.413096	LOG	Server <---------- DUT
0:14:17.415092	LOG	Frame Command Payload in the Answer: 09bc00
0:14:17.419092	LOG	RX Count received by DUT: 188
0:14:17.422093	LOG	Send Test Command RxAppCntReq process completed
0:14:17.428425	LOG	Send MAC command block process starts
0:14:23.757002	LOG	First uplink received. Open reception window.
0:14:23.871081	LOG	PUSH_ACK: 02 0d4b 01
0:14:23.873049	LOG	GPS Time from gateway: 1385113801006

0:14:23.874048	LOG	PUSH_DATA: Protocol version = 02, Token = 0d4b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3960118050, 'time': '2023-11-27T09:49:42.006386Z', 'tmms': 1385113801006, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3323, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAagQC2fWl3d1CecX9K3k='}]}
0:14:23.876054	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 046a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c5fd2b79)
0:14:23.877053	LOG	Server <---------- DUT
0:14:23.878054	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01f1, FOpts:), FPort: 00, FRMPayload: 03200700010510d2ad84), MIC: 235ecc1f)
0:14:23.880564	LOG	PULL_RESP: Protocol version = 02, Token = b118, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3962118050, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAA8QEAXUFnGbAastwfRyNezB8='}}
0:14:23.882577	LOG	Server ----------> DUT
0:14:23.885564	LOG	TX_ACK: 02 b118 05 0016c001ff1025bf
0:14:27.242633	LOG	GPS Time updated: 1385113804490
0:14:27.243632	LOG	PULL_DATA: 02 fc5a 02 0016c001ff1025bf
0:14:27.245397	LOG	PULL_ACK: 02 fc5a 04
0:14:29.443453	LOG	First uplink received. Open reception window.
0:14:29.551700	LOG	PUSH_ACK: 02 fa27 01
0:14:29.553705	LOG	GPS Time from gateway: 1385113806691
0:14:29.554706	LOG	PUSH_DATA: Protocol version = 02, Token = fa27, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3965803346, 'time': '2023-11-27T09:49:47.691682Z', 'tmms': 1385113806691, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3327, 'rssi': -51, 'size': 24, 'data': 'QAAAAACEawQDBwUHAt6Q8gsw1apRSedc'}]}
0:14:29.556714	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 046b, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 5149e75c)
0:14:29.557740	LOG	Server <---------- DUT
0:14:29.559728	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:14:29.560738	LOG	Command Answer: 03070507
0:14:29.616587	LOG	MAC command communication completed
0:14:29.619589	LOG	Send Test Command RxAppCntReq process starts
0:14:34.230076	LOG	First uplink received. Open reception window.
0:14:34.339414	LOG	PUSH_ACK: 02 72d9 01
0:14:34.341417	LOG	GPS Time from gateway: 1385113811473
0:14:34.342415	LOG	PUSH_DATA: Protocol version = 02, Token = 72d9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3970585387, 'time': '2023-11-27T09:49:52.473722Z', 'tmms': 1385113811473, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3324, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCbAQFBwJek5Bmf9GnR/2IAA=='}]}
0:14:34.343419	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 046c, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 47fd8800)
0:14:34.345420	LOG	Server <---------- DUT
0:14:34.346421	LOG	MAC Command RXParamSetupAns received
0:14:34.348421	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01f2, FOpts:), FPort: e0, FRMPayload: 09), MIC: 0c0fe7c2)
0:14:34.349937	LOG	Frame command sent to the DUT
0:14:34.351937	LOG	PULL_RESP: Protocol version = 02, Token = 5fa5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3972585387, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAA8gHgBAwP58I='}}

0:14:34.353934	LOG	Server ----------> DUT
0:14:34.355935	LOG	TX_ACK: 02 5fa5 05 0016c001ff1025bf
0:14:37.291733	LOG	GPS Time updated: 1385113814534
0:14:37.293733	LOG	PULL_DATA: 02 a7a1 02 0016c001ff1025bf
0:14:37.295735	LOG	PULL_ACK: 02 a7a1 04
0:14:37.765402	LOG	First uplink received. Open reception window.
0:14:37.878597	LOG	PUSH_ACK: 02 23ca 01
0:14:37.880103	LOG	GPS Time from gateway: 1385113815010
0:14:37.882109	LOG	PUSH_DATA: Protocol version = 02, Token = 23ca, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3974122161, 'time': '2023-11-27T09:49:56.010496Z', 'tmms': 1385113815010, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3341, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAbQTgGH5ZqJYCpQ=='}]}
0:14:37.883108	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 046d, FOpts:), FPort: e0, FRMPayload: 09bd00, MIC: a89602a5)
0:14:37.885108	LOG	Server <---------- DUT
0:14:37.886108	LOG	Frame Command Payload in the Answer: 09bd00
0:14:37.890146	LOG	RX Count received by DUT: 189
0:14:37.892146	LOG	Send Test Command RxAppCntReq process completed
0:14:37.895114	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:14:44.221514	LOG	First uplink received. Open reception window.
0:14:44.335225	LOG	PUSH_ACK: 02 10d7 01
0:14:44.337227	LOG	GPS Time from gateway: 1385113821473
0:14:44.338228	LOG	PUSH_DATA: Protocol version = 02, Token = 10d7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3980584768, 'time': '2023-11-27T09:50:02.473102Z', 'tmms': 1385113821473, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3327, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAbgQC3QcdJdTE70XC9I8='}]}
0:14:44.339232	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 046e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 45c2f48f)
0:14:44.341232	LOG	Server <---------- DUT
0:14:44.343232	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01f3, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 1f9b9bef)
0:14:44.344233	LOG	Frame command sent to the DUT
0:14:44.345231	LOG	PULL_RESP: Protocol version = 02, Token = 8232, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3982584768, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA8wHgydEfm5vv'}}
0:14:44.347231	LOG	Server ----------> DUT
0:14:44.349751	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:14:44.356748	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:47.492323	LOG	GPS Time updated: 1385113824744
0:14:47.493327	LOG	PULL_DATA: 02 a042 02 0016c001ff1025bf
0:14:47.495324	LOG	PULL_ACK: 02 a042 04
0:14:49.226858	LOG	First uplink received. Open reception window.
0:14:49.338158	LOG	PUSH_ACK: 02 bcfc 01
0:14:49.340161	LOG	GPS Time from gateway: 1385113826472
0:14:49.342174	LOG	PUSH_DATA: Protocol version = 02, Token = bcfc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3985584519, 'time': '2023-11-27T09:50:07.472852Z', 'tmms': 1385113826472, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3331, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAbwQCb8AP66l0VgKbnWg='}]}
0:14:49.343198	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 046f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 029b9d68)
0:14:49.344199	LOG	Server <---------- DUT

0:14:49.346166	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01f4, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 70b8419d)
0:14:49.347198	LOG	Frame command sent to the DUT
0:14:49.349740	LOG	PULL_RESP: Protocol version = 02, Token = e346, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3986584519, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA9AHgkzBwuEGd'}}
0:14:49.350738	LOG	Server ----------> DUT
0:14:49.354740	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:49.357773	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:54.225975	LOG	First uplink received. Open reception window.
0:14:54.329834	LOG	PUSH_ACK: 02 7917 01
0:14:54.331833	LOG	GPS Time from gateway: 1385113831472
0:14:54.332833	LOG	PUSH_DATA: Protocol version = 02, Token = 7917, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3990584261, 'time': '2023-11-27T09:50:12.472593Z', 'tmms': 1385113831472, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3328, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAcAQCF9bwQrowIuEMnNQ='}]}
0:14:54.334901	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0470, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e10c9cd4)
0:14:54.335871	LOG	Server <---------- DUT
0:14:54.337870	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01f5, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 04241276)
0:14:54.338873	LOG	Frame command sent to the DUT
0:14:54.340872	LOG	PULL_RESP: Protocol version = 02, Token = fa4c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3991584261, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA9QHgm90EJBJ2'}}
0:14:54.341871	LOG	Server ----------> DUT
0:14:54.344881	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:54.348428	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:57.702276	LOG	GPS Time updated: 1385113834949
0:14:57.704244	LOG	PULL_DATA: 02 b53a 02 0016c001ff1025bf
0:14:57.705713	LOG	PULL_ACK: 02 b53a 04
0:14:59.224380	LOG	First uplink received. Open reception window.
0:14:59.335322	LOG	PUSH_ACK: 02 98a5 01
0:14:59.337288	LOG	GPS Time from gateway: 1385113836472
0:14:59.339287	LOG	PUSH_DATA: Protocol version = 02, Token = 98a5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3995583995, 'time': '2023-11-27T09:50:17.472326Z', 'tmms': 1385113836472, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3326, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAcQQCMpRextYb3dqCfHI='}]}
0:14:59.340288	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0471, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: da827c72)
0:14:59.341288	LOG	Server <---------- DUT
0:14:59.343288	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01f6, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 829df424)
0:14:59.345289	LOG	Frame command sent to the DUT
0:14:59.346287	LOG	PULL_RESP: Protocol version = 02, Token = 3b54, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3996583995, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA9gHgz+uCnfQk'}}
0:14:59.347289	LOG	Server ----------> DUT
0:14:59.350800	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:59.355800	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:04.227339	LOG	First uplink received. Open reception window.

0:15:04.340101	LOG	PUSH_ACK: 02 4a37 01
0:15:04.342103	LOG	GPS Time from gateway: 1385113841471
0:15:04.343127	LOG	PUSH_DATA: Protocol version = 02, Token = 4a37, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4000583740, 'time': '2023-11-27T09:50:22.472070Z', 'tmms': 1385113841471, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3329, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAcgQCmgwXo8aoLgilF8w='}]}
0:15:04.345104	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0472, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 08a517cc)
0:15:04.346102	LOG	Server <---------- DUT
0:15:04.347101	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01f7, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 7009208c)
0:15:04.349610	LOG	Frame command sent to the DUT
0:15:04.351610	LOG	PULL_RESP: Protocol version = 02, Token = fb31, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4001583740, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA9wHg5RtwCSCM'}}
0:15:04.352610	LOG	Server ----------> DUT
0:15:04.356617	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:04.365615	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:07.712400	LOG	GPS Time updated: 1385113844958
0:15:07.713407	LOG	PULL_DATA: 02 9104 02 0016c001ff1025bf
0:15:07.715375	LOG	PULL_ACK: 02 9104 04
0:15:09.229777	LOG	#**********CURRENT BEACON SENT**********#
0:15:09.230775	LOG	PULL_RESP: Protocol version = 02, Token = 9085, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385113856000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAKY9SRmkAAAAAAAAAAA='}}
0:15:09.233284	LOG	Server ----------> DUT
0:15:09.235312	LOG	#**********#
0:15:09.245336	LOG	#**********NEXT BEACON QUEUED**********#
0:15:09.246338	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385113984000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAKY9SfrQAAAAAAAAAAA='}}
0:15:09.248337	LOG	Server ----------> DUT
0:15:09.249337	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 80298f52, CRC1: 7eb4, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385113984000
0:15:09.250372	LOG	#**********#
0:15:09.252347	LOG	Next BEACON scheduled at GPS time (ms): 1385114112000
0:15:09.253338	LOG	First uplink received. Open reception window.
0:15:09.254876	LOG	TX_ACK: 02 9085 05 0016c001ff1025bf
0:15:09.365583	LOG	PUSH_ACK: 02 6d03 01
0:15:09.367616	LOG	GPS Time from gateway: 1385113846471
0:15:09.368614	LOG	PUSH_DATA: Protocol version = 02, Token = 6d03, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4005583487, 'time': '2023-11-27T09:50:27.471815Z', 'tmms': 1385113846471, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3327, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAcwQCKTf13RDBwM9OPlo='}]}
0:15:09.369614	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0473, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: cf4e3e5a)

0:15:09.371596	LOG	Server <---------- DUT
0:15:09.373584	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01f8, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: b62027c8)
0:15:09.374583	LOG	Frame command sent to the DUT
0:15:09.376614	LOG	PULL_RESP: Protocol version = 02, Token = 7a9f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4006583487, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'oAAAAAAA+AHg864H81ELnjQ9lRscBpDC86J17V0U5Qhdf7o6dTQeaeXpbZYSk366gC1t5e+9wjXhA9istiAnyA==''}}
0:15:09.377614	LOG	Server ----------> DUT
0:15:09.381124	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:09.384125	LOG	Check previous uplink data rate process starts
0:15:09.389128	LOG	Uplink received with expected Data Rate
0:15:09.392163	LOG	Check ACK bit in next uplink process starts
0:15:12.032309	LOG	First uplink received. Open reception window.
0:15:12.148009	LOG	PUSH_ACK: 02 a401 01
0:15:12.150012	LOG	GPS Time from gateway: 1385113849277
0:15:12.151045	LOG	PUSH_DATA: Protocol version = 02, Token = a401, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4008389101, 'time': '2023-11-27T09:50:30.277430Z', 'tmms': 1385113849277, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3346, 'rssi': -52, 'size': 12, 'data': 'QAAAAACgdAR24kYF'}]}
0:15:12.152046	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 0474, FOpts:), FPort: , FRMPayload: , MIC: 76e24605)
0:15:12.154010	LOG	Server <---------- DUT
0:15:12.155010	LOG	ACK bit in FCtrl field is set
0:15:12.158012	LOG	Check ACK bit in next uplink tested successfully
0:15:12.163525	LOG	Send Test Command RxAppCntReq process starts
0:15:17.782697	LOG	GPS Time updated: 1385113855026
0:15:17.783697	LOG	PULL_DATA: 02 deb4 02 0016c001ff1025bf
0:15:17.785580	LOG	PULL_ACK: 02 deb4 04
0:15:19.220442	LOG	First uplink received. Open reception window.
0:15:19.321001	LOG	PUSH_ACK: 02 d87e 01
0:15:19.323003	LOG	GPS Time from gateway: 1385113856471
0:15:19.324039	LOG	PUSH_DATA: Protocol version = 02, Token = d87e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4015582963, 'time': '2023-11-27T09:50:37.471291Z', 'tmms': 1385113856471, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3331, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAdQQCeF5dKGNyoMObzXU='}]}
0:15:19.325036	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0475, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c39bcd75)
0:15:19.327003	LOG	Server <---------- DUT
0:15:19.328035	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01f9, FOpts:), FPort: e0, FRMPayload: 09), MIC: 768adbb8)
0:15:19.330041	LOG	Frame command sent to the DUT
0:15:19.331073	LOG	PULL_RESP: Protocol version = 02, Token = 48be, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4017582963, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAA+QHgY3aK27g='}}
0:15:19.332072	LOG	Server ----------> DUT
0:15:19.335043	LOG	TX_ACK: 02 48be 05 0016c001ff1025bf
0:15:22.758976	LOG	First uplink received. Open reception window.
0:15:22.868977	LOG	PUSH_ACK: 02 7b9c 01

0:15:22.870944	LOG	GPS Time from gateway: 1385113860007
0:15:22.871948	LOG	PUSH_DATA: Protocol version = 02, Token = 7b9c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4019119471, 'time': '2023-11-27T09:50:41.007797Z', 'tmms': 1385113860007, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3346, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAdgTgWWRhqy/xow==\'}]}
0:15:22.873946	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0476, FOpts:), FPort: e0, FRMPayload: 09c400, MIC: ab2ff1a3)
0:15:22.874980	LOG	Server <---------- DUT
0:15:22.875983	LOG	Frame Command Payload in the Answer: 09c400
0:15:22.879945	LOG	RX Count received by DUT: 196
0:15:22.882353	LOG	Send Test Command RxAppCntReq process completed
0:15:22.890351	LOG	Send MAC command block process starts
0:15:27.942855	LOG	GPS Time updated: 1385113865190
0:15:27.943854	LOG	PULL_DATA: 02 85b7 02 0016c001ff1025bf
0:15:27.945860	LOG	PULL_ACK: 02 85b7 04
0:15:29.219776	LOG	First uplink received. Open reception window.
0:15:29.320089	LOG	PUSH_ACK: 02 f2fe 01
0:15:29.322090	LOG	GPS Time from gateway: 1385113866470
0:15:29.323101	LOG	PUSH_DATA: Protocol version = 02, Token = f2fe, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4025582454, 'time': '2023-11-27T09:50:47.470780Z', 'tmms': 1385113866470, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3332, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAdwQC0KNyhLw/MBwXq0M=\'}]}
0:15:29.325090	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0477, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1c17ab43)
0:15:29.326090	LOG	Server <---------- DUT
0:15:29.328090	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01fa, FOpts:), FPort: 00, FRMPayload: 03200700010520d2ad84), MIC: a1da9ec6)
0:15:29.330090	LOG	PULL_RESP: Protocol version = 02, Token = e749, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4027582454, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAA+gEAzXwfNpIpXbHnjKHansY='}}
0:15:29.331090	LOG	Server ----------> DUT
0:15:29.334096	LOG	TX_ACK: 02 e749 05 0016c001ff1025bf
0:15:34.225495	LOG	First uplink received. Open reception window.
0:15:34.339062	LOG	PUSH_ACK: 02 cfa7 01
0:15:34.341032	LOG	GPS Time from gateway: 1385113871470
0:15:34.342031	LOG	PUSH_DATA: Protocol version = 02, Token = cfa7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4030582309, 'time': '2023-11-27T09:50:52.470633Z', 'tmms': 1385113871470, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3340, 'rssi': -51, 'size': 24, 'data': 'QAAAAACEeAQDBwUHAmf3YpsbH91LIVRf'}]}
0:15:34.343037	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0478, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 4b21545f)
0:15:34.345036	LOG	Server <---------- DUT
0:15:34.347036	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:15:34.348036	LOG	Command Answer: 03070507
0:15:34.404296	LOG	MAC command communication completed
0:15:34.408296	LOG	Send Test Command RxAppCntReq process starts
0:15:38.152375	LOG	GPS Time updated: 1385113875398
0:15:38.153374	LOG	PULL_DATA: 02 3867 02 0016c001ff1025bf
0:15:38.155375	LOG	PULL_ACK: 02 3867 04

0:15:39.224656	LOG	First uplink received. Open reception window.
0:15:39.339701	LOG	PUSH_ACK: 02 4d62 01
0:15:39.341704	LOG	GPS Time from gateway: 1385113876470
0:15:39.342707	LOG	PUSH_DATA: Protocol version = 02, Token = 4d62, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4035582066, 'time': '2023-11-27T09:50:57.470389Z', 'tmms': 1385113876470, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 15.0, 'foff': -3335, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCeQQFBwLUmFjJyQsQKESLUw=='}]}
0:15:39.343736	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0479, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 28448b53)
0:15:39.345752	LOG	Server <---------- DUT
0:15:39.346702	LOG	MAC Command RXParamSetupAns received
0:15:39.348735	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01fb, FOpts:), FPort: e0, FRMPayload: 09), MIC: c3f09f94)
0:15:39.349817	LOG	Frame command sent to the DUT
0:15:39.350817	LOG	PULL_RESP: Protocol version = 02, Token = 8536, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4037582066, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAA+wHg5MPwn5Q='}}
0:15:39.351817	LOG	Server ----------> DUT
0:15:39.354820	LOG	TX_ACK: 02 8536 05 0016c001ff1025bf
0:15:42.759977	LOG	First uplink received. Open reception window.
0:15:42.867003	LOG	PUSH_ACK: 02 2697 01
0:15:42.869004	LOG	GPS Time from gateway: 1385113880006
0:15:42.870005	LOG	PUSH_DATA: Protocol version = 02, Token = 2697, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4039118431, 'time': '2023-11-27T09:51:01.006755Z', 'tmms': 1385113880006, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3351, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAegTgCO7ziqAVrA=='}]}
0:15:42.872038	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 047a, FOpts:), FPort: e0, FRMPayload: 09c500, MIC: 8aa015ac)
0:15:42.873005	LOG	Server <---------- DUT
0:15:42.875004	LOG	Frame Command Payload in the Answer: 09c500
0:15:42.878004	LOG	RX Count received by DUT: 197
0:15:42.881166	LOG	Send Test Command RxAppCntReq process completed
0:15:42.884149	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:15:48.182290	LOG	GPS Time updated: 1385113885429
0:15:48.183269	LOG	PULL_DATA: 02 9930 02 0016c001ff1025bf
0:15:48.185111	LOG	PULL_ACK: 02 9930 04
0:15:49.218261	LOG	First uplink received. Open reception window.
0:15:49.320114	LOG	PUSH_ACK: 02 dd2a 01
0:15:49.322082	LOG	GPS Time from gateway: 1385113886469
0:15:49.323082	LOG	PUSH_DATA: Protocol version = 02, Token = dd2a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4045581475, 'time': '2023-11-27T09:51:07.469798Z', 'tmms': 1385113886469, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3335, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAewQCxGLFx3gOYSF7Mvg='}]}
0:15:49.324082	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 047b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 217b32f8)
0:15:49.326082	LOG	Server <---------- DUT
0:15:49.328082	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01fc, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 30414015)
0:15:49.329083	LOG	Frame command sent to the DUT
0:15:49.331083	LOG	PULL_RESP: Protocol version = 02, Token = 98e2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4047581475, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA/AHgGkIwQUAV'}}
0:15:49.332082	LOG	Server ----------> DUT
0:15:49.335088	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:15:49.341089	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:54.226576	LOG	First uplink received. Open reception window.
0:15:54.331113	LOG	PUSH_ACK: 02 2d13 01
0:15:54.333082	LOG	GPS Time from gateway: 1385113891469
0:15:54.334114	LOG	PUSH_DATA: Protocol version = 02, Token = 2d13, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4050581255, 'time': '2023-11-27T09:51:12.469577Z', 'tmms': 1385113891469, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3341, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAfAQCe8kSFdT3kRa4SRY='}]}
0:15:54.336120	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 047c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 16b84916)
0:15:54.337118	LOG	Server <---------- DUT
0:15:54.339122	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01fd, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 5c2c98e2)
0:15:54.341128	LOG	Frame command sent to the DUT
0:15:54.342152	LOG	PULL_RESP: Protocol version = 02, Token = baa8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4051581255, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA/QHgVRhcLJji'}}
0:15:54.343152	LOG	Server ----------> DUT
0:15:54.346119	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:54.349623	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:58.342058	LOG	GPS Time updated: 1385113895585
0:15:58.343057	LOG	PULL_DATA: 02 143c 02 0016c001ff1025bf
0:15:58.344888	LOG	PULL_ACK: 02 143c 04
0:15:59.222447	LOG	First uplink received. Open reception window.
0:15:59.333384	LOG	PUSH_ACK: 02 86ec 01
0:15:59.335389	LOG	GPS Time from gateway: 1385113896469
0:15:59.336390	LOG	PUSH_DATA: Protocol version = 02, Token = 86ec, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4055581001, 'time': '2023-11-27T09:51:17.469322Z', 'tmms': 1385113896469, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3339, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAfQQCW4Hjl0x6/d+CdtQ='}]}
0:15:59.338422	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 047d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: df8276d4)
0:15:59.339422	LOG	Server <---------- DUT
0:15:59.341390	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01fe, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 35ea3d1c)
0:15:59.342423	LOG	Frame command sent to the DUT
0:15:59.344421	LOG	PULL_RESP: Protocol version = 02, Token = 4bae, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4056581001, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA/gHgO2c16j0c'}}
0:15:59.345421	LOG	Server ----------> DUT
0:15:59.347401	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:59.352913	LOG	Send Test Command TxFramesCtrlReq process starts
0:16:04.220874	LOG	First uplink received. Open reception window.
0:16:04.329899	LOG	PUSH_ACK: 02 bb7d 01
0:16:04.331867	LOG	GPS Time from gateway: 1385113901468
0:16:04.332867	LOG	PUSH_DATA: Protocol version = 02, Token = bb7d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4060580744, 'time': '2023-11-27T09:51:22.469063Z', 'tmms': 1385113901468, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3339, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAfgQCL1jciBKBtxTRGX4='}]}
0:16:04.334872	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 047e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 14d1197e)
0:16:04.335872	LOG	Server <---------- DUT
0:16:04.337871	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 01ff, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 9ea6d54e)
0:16:04.338871	LOG	Frame command sent to the DUT
0:16:04.340872	LOG	PULL_RESP: Protocol version = 02, Token = eadc, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4061580744, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA/wHgZ+OeptVO'}}
0:16:04.341871	LOG	Server ----------> DUT
0:16:04.344873	LOG	Send Test Command TxFramesCtrlReq process completed
0:16:04.347905	LOG	Send Test Command TxFramesCtrlReq process starts
0:16:08.541711	LOG	GPS Time updated: 1385113905789
0:16:08.543747	LOG	PULL_DATA: 02 8136 02 0016c001ff1025bf
0:16:08.545715	LOG	PULL_ACK: 02 8136 04
0:16:09.220878	LOG	First uplink received. Open reception window.
0:16:09.336803	LOG	PUSH_ACK: 02 1a07 01
0:16:09.338770	LOG	GPS Time from gateway: 1385113906468
0:16:09.339769	LOG	PUSH_DATA: Protocol version = 02, Token = 1a07, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4065580482, 'time': '2023-11-27T09:51:27.468802Z', 'tmms': 1385113906468, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3337, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAfwQCZK3qDVJFQRxTAe0='}]}
0:16:09.340770	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 047f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1c5301ed)
0:16:09.342770	LOG	Server <---------- DUT
0:16:09.344770	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0200, FOpts:), FPort: e0, FRMPayload: 0700), MIC: c25a3cef)
0:16:09.345769	LOG	Frame command sent to the DUT
0:16:09.347770	LOG	PULL_RESP: Protocol version = 02, Token = 644f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4066580482, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAAALgIC3CWjzv'}}
0:16:09.347770	LOG	Server ----------> DUT
0:16:09.352281	LOG	Send Test Command TxFramesCtrlReq process completed
0:16:09.361279	LOG	Send Test Command TxFramesCtrlReq process starts
0:16:14.224012	LOG	First uplink received. Open reception window.
0:16:14.337057	LOG	PUSH_ACK: 02 ed0c 01
0:16:14.339027	LOG	GPS Time from gateway: 1385113911468
0:16:14.341027	LOG	PUSH_DATA: Protocol version = 02, Token = ed0c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4070580227, 'time': '2023-11-27T09:51:32.468546Z', 'tmms': 1385113911468, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3337, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAgAQChszp9QhzrXRixjs='}]}
0:16:14.342060	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0480, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7462c63b)
0:16:14.343060	LOG	Server <---------- DUT
0:16:14.345025	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0201, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: f3b4364b)
0:16:14.347027	LOG	Frame command sent to the DUT

0:16:14.348059	LOG	PULL_RESP: Protocol version = 02, Token = 7dc6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4071580227, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'oAAAAAAAAQLgJpiaPCq3ou1dPXQxl2C6ZqFFN06yPPRdox4CuUMmmZXNtO9v3BfBE1nryLhmea1G6A7q87Q2Sw==''}}
0:16:14.349530	LOG	Server ----------> DUT
0:16:14.352539	LOG	Send Test Command TxFramesCtrlReq process completed
0:16:14.356552	LOG	Check previous uplink data rate process starts
0:16:14.360536	LOG	Uplink received with expected Data Rate
0:16:14.363536	LOG	Check ACK bit in next uplink process starts
0:16:18.355579	LOG	First uplink received. Open reception window.
0:16:18.468140	LOG	PUSH_ACK: 02 b33e 01
0:16:18.470112	LOG	GPS Time from gateway: 1385113915604
0:16:18.471107	LOG	PUSH_DATA: Protocol version = 02, Token = b33e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4074716678, 'time': '2023-11-27T09:51:36.604996Z', 'tmms': 1385113915604, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3359, 'rssi': -52, 'size': 12, 'data': 'QAAAAACggQT7H3zk'}]}
0:16:18.472112	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 0481, FOpts:), FPort: , FRMPayload: , MIC: fb1f7ce4)
0:16:18.473111	LOG	Server <---------- DUT
0:16:18.475621	LOG	ACK bit in FCtrl field is set
0:16:18.477621	LOG	Check ACK bit in next uplink tested successfully
0:16:18.483654	LOG	Send Test Command RxAppCntReq process starts
0:16:18.552333	LOG	GPS Time updated: 1385113915802
0:16:18.553343	LOG	PULL_DATA: 02 2400 02 0016c001ff1025bf
0:16:18.555342	LOG	PULL_ACK: 02 2400 04
0:16:24.222169	LOG	First uplink received. Open reception window.
0:16:24.327155	LOG	PUSH_ACK: 02 9739 01
0:16:24.329121	LOG	GPS Time from gateway: 1385113921467
0:16:24.330141	LOG	PUSH_DATA: Protocol version = 02, Token = 9739, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4080579702, 'time': '2023-11-27T09:51:42.468019Z', 'tmms': 1385113921467, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3342, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAggQCHGTR9suZM+d3hnM='}]}
0:16:24.332121	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0482, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e7778673)
0:16:24.333121	LOG	Server <---------- DUT
0:16:24.335125	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0202, FOpts:), FPort: e0, FRMPayload: 09), MIC: 045c0da1)
0:16:24.336125	LOG	Frame command sent to the DUT
0:16:24.337125	LOG	PULL_RESP: Protocol version = 02, Token = 804a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4082579702, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAAgLgoARcDaE='}}
0:16:24.339125	LOG	Server ----------> DUT
0:16:24.342125	LOG	TX_ACK: 02 804a 05 0016c001ff1025bf
0:16:28.742236	LOG	GPS Time updated: 1385113925987
0:16:28.744246	LOG	PULL_DATA: 02 7b74 02 0016c001ff1025bf
0:16:28.745877	LOG	PULL_ACK: 02 7b74 04
0:16:29.456005	LOG	First uplink received. Open reception window.
0:16:29.564312	LOG	PUSH_ACK: 02 63b0 01
0:16:29.566311	LOG	GPS Time from gateway: 1385113926702
0:16:29.567816	LOG	PUSH_DATA: Protocol version = 02, Token = 63b0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4085814074, 'time': '2023-11-27T09:51:47.702390Z',

		'tmms': 1385113926702, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3345, 'rssi': -50, 'size': 16, 'data': 'QAAAAACAgwTgOJ85KrQB2Q=='}]}
0:16:29.568823	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0483, FOpts:), FPort: e0, FRMPayload: 09cc00, MIC: 2ab401d9)
0:16:29.569821	LOG	Server <---------- DUT
0:16:29.571824	LOG	Frame Command Payload in the Answer: 09cc00
0:16:29.575820	LOG	RX Count received by DUT: 204
0:16:29.577821	LOG	Send Test Command RxAppCntReq process completed
0:16:29.585860	LOG	Send MAC command block process starts
0:16:34.270272	LOG	First uplink received. Open reception window.
0:16:34.371647	LOG	PUSH_ACK: 02 be90 01
0:16:34.373649	LOG	GPS Time from gateway: 1385113931522
0:16:34.374651	LOG	PUSH_DATA: Protocol version = 02, Token = be90, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4090633881, 'time': '2023-11-27T09:51:52.522197Z', 'tmms': 1385113931522, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3340, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAhAQC6dQeDuuqvOFhIRk='}]}
0:16:34.376651	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0484, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e1612119)
0:16:34.377684	LOG	Server <---------- DUT
0:16:34.379681	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0203, FOpts:), FPort: 00, FRMPayload: 03200700010530d2ad84), MIC: 33bd6396)
0:16:34.380681	LOG	PULL_RESP: Protocol version = 02, Token = 4fb8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4092633881, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAAwIAtNAY9c2huvFWzTO9Y5Y='}}
0:16:34.382766	LOG	Server ----------> DUT
0:16:34.386765	LOG	TX_ACK: 02 4fb8 05 0016c001ff1025bf
0:16:38.791451	LOG	GPS Time updated: 1385113936044
0:16:38.793451	LOG	PULL_DATA: 02 c31c 02 0016c001ff1025bf
0:16:38.795456	LOG	PULL_ACK: 02 c31c 04
0:16:39.280121	LOG	First uplink received. Open reception window.
0:16:39.392101	LOG	PUSH_ACK: 02 62d7 01
0:16:39.394103	LOG	GPS Time from gateway: 1385113936521
0:16:39.395104	LOG	PUSH_DATA: Protocol version = 02, Token = 62d7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4095633730, 'time': '2023-11-27T09:51:57.522045Z', 'tmms': 1385113936521, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.5, 'foff': -3344, 'rssi': -50, 'size': 24, 'data': 'QAAAAACEhQQDBwUHApMdZlSzFzGV7qKI'}]}
0:16:39.397143	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0485, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 95eea288)
0:16:39.398142	LOG	Server <---------- DUT
0:16:39.400189	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:16:39.401177	LOG	Command Answer: 03070507
0:16:39.457154	LOG	MAC command communication completed
0:16:39.459829	LOG	Send Test Command RxAppCntReq process starts
0:16:44.276300	LOG	First uplink received. Open reception window.
0:16:44.381910	LOG	PUSH_ACK: 02 59e9 01
0:16:44.383908	LOG	GPS Time from gateway: 1385113941521
0:16:44.384908	LOG	PUSH_DATA: Protocol version = 02, Token = 59e9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4100633460, 'time': '2023-11-27T09:52:02.521773Z', 'tmms': 1385113941521, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.8, 'foff': -3336, 'rssi': -50, 'size': 22, 'data': 'QAAAAACChgQFBwLlciCfdpLJ5lXw5A=='}]}
0:16:44.385908	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0486, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: e655f0e4)
0:16:44.386908	LOG	Server <---------- DUT
0:16:44.388908	LOG	MAC Command RXParamSetupAns received
0:16:44.389907	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0204, FOpts:), FPort: e0, FRMPayload: 09), MIC: 3e08589e)
0:16:44.391908	LOG	Frame command sent to the DUT
0:16:44.392907	LOG	PULL_RESP: Protocol version = 02, Token = 044e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4102633460, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAABALgHj4IWJ4='}}
0:16:44.394908	LOG	Server ----------> DUT
0:16:44.396910	LOG	TX_ACK: 02 044e 05 0016c001ff1025bf
0:16:47.809017	LOG	First uplink received. Open reception window.
0:16:47.915265	LOG	PUSH_ACK: 02 c314 01
0:16:47.917267	LOG	GPS Time from gateway: 1385113945058
0:16:47.918266	LOG	PUSH_DATA: Protocol version = 02, Token = c314, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4104170074, 'time': '2023-11-27T09:52:06.058385Z', 'tmms': 1385113945058, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3353, 'rssi': -50, 'size': 16, 'data': 'QAAAAACAhwTgOfxc8zChpQ=='}]}
0:16:47.920266	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0487, FOpts:), FPort: e0, FRMPayload: 09cd00, MIC: f330a1a5)
0:16:47.921265	LOG	Server <---------- DUT
0:16:47.923266	LOG	Frame Command Payload in the Answer: 09cd00
0:16:47.927269	LOG	RX Count received by DUT: 205
0:16:47.929329	LOG	Send Test Command RxAppCntReq process completed
0:16:47.932325	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:16:48.802173	LOG	GPS Time updated: 1385113946052
0:16:48.803171	LOG	PULL_DATA: 02 6645 02 0016c001ff1025bf
0:16:48.805212	LOG	PULL_ACK: 02 6645 04
0:16:54.269502	LOG	First uplink received. Open reception window.
0:16:54.383258	LOG	PUSH_ACK: 02 4c37 01
0:16:54.385259	LOG	GPS Time from gateway: 1385113951520
0:16:54.386238	LOG	PUSH_DATA: Protocol version = 02, Token = 4c37, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4110632842, 'time': '2023-11-27T09:52:12.521154Z', 'tmms': 1385113951520, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3336, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAiAQC0IbGgFFMJoqW+9c='}]}
0:16:54.387256	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0488, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8a96fbd7)
0:16:54.389222	LOG	Server <---------- DUT
0:16:54.390260	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0205, FOpts:), FPort: e0, FRMPayload: 0500), MIC: b617267b)
0:16:54.392258	LOG	Frame command sent to the DUT
0:16:54.393256	LOG	PULL_RESP: Protocol version = 02, Token = 4485, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4112632842, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAABQLgK8S2FyZ7'}}
0:16:54.395229	LOG	Server ----------> DUT
0:16:54.398228	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:16:54.404230	LOG	Send Test Command TxFramesCtrlReq process starts
0:16:59.011815	LOG	GPS Time updated: 1385113956263
0:16:59.013785	LOG	PULL_DATA: 02 8c51 02 0016c001ff1025bf

0:16:59.014784	LOG	PULL_ACK: 02 8c51 04
0:16:59.275783	LOG	First uplink received. Open reception window.
0:16:59.385579	LOG	PUSH_ACK: 02 f440 01
0:16:59.387547	LOG	GPS Time from gateway: 1385113956520
0:16:59.388581	LOG	PUSH_DATA: Protocol version = 02, Token = f440, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4115632587, 'time': '2023-11-27T09:52:17.520897Z', 'tmms': 1385113956520, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3338, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAiQQCKszqTuU92K4B3Kc='}]}
0:16:59.390548	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0489, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ae01dca7)
0:16:59.391578	LOG	Server <---------- DUT
0:16:59.393547	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0206, FOpts:), FPort: e0, FRMPayload: 0700), MIC: d2006e9d)
0:16:59.394579	LOG	Frame command sent to the DUT
0:16:59.396546	LOG	PULL_RESP: Protocol version = 02, Token = 7d4e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4116632587, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAABgLgn23SAG6d'}}
0:16:59.397549	LOG	Server ----------> DUT
0:16:59.400551	LOG	Send Test Command TxFramesCtrlReq process completed
0:16:59.404550	LOG	Send Test Command TxFramesCtrlReq process starts
0:17:04.271695	LOG	First uplink received. Open reception window.
0:17:04.379632	LOG	PUSH_ACK: 02 402f 01
0:17:04.381105	LOG	GPS Time from gateway: 1385113961520
0:17:04.383111	LOG	PUSH_DATA: Protocol version = 02, Token = 402f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4120632334, 'time': '2023-11-27T09:52:22.520645Z', 'tmms': 1385113961520, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3334, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAigQCu62C/U/155tVUmQ='}]}
0:17:04.384110	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 048a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9b555264)
0:17:04.385110	LOG	Server <---------- DUT
0:17:04.387111	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0207, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 27c0f86a)
0:17:04.388110	LOG	Frame command sent to the DUT
0:17:04.390111	LOG	PULL_RESP: Protocol version = 02, Token = 6545, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4121632334, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAABwLgSq4nwPhq'}}
0:17:04.391111	LOG	Server ----------> DUT
0:17:04.394111	LOG	Send Test Command TxFramesCtrlReq process completed
0:17:04.398116	LOG	Send Test Command TxFramesCtrlReq process starts
0:17:09.221460	LOG	GPS Time updated: 1385113966470
0:17:09.223460	LOG	PULL_DATA: 02 68dd 02 0016c001ff1025bf
0:17:09.224968	LOG	PULL_ACK: 02 68dd 04
0:17:09.275682	LOG	First uplink received. Open reception window.
0:17:09.381700	LOG	PUSH_ACK: 02 4ccb 01
0:17:09.383666	LOG	GPS Time from gateway: 1385113966520
0:17:09.384665	LOG	PUSH_DATA: Protocol version = 02, Token = 4ccb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4125632074, 'time': '2023-11-27T09:52:27.520383Z', 'tmms': 1385113966520, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3333, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAiwQCgf+Zz+CoSlqnC4U='}]}
0:17:09.386666	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 048b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5aa70b85)

0:17:09.387665	LOG	Server <---------- DUT
0:17:09.389666	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0208, FOpts:), FPort: e0, FRMPayload: 0700), MIC: dbdd59d9)
0:17:09.391666	LOG	Frame command sent to the DUT
0:17:09.392665	LOG	PULL_RESP: Protocol version = 02, Token = 9a1a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4126632074, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAACALgcmPb3VnZ'}}
0:17:09.393665	LOG	Server ----------> DUT
0:17:09.397673	LOG	Send Test Command TxFramesCtrlReq process completed
0:17:09.400703	LOG	Send Test Command TxFramesCtrlReq process starts
0:17:14.268355	LOG	First uplink received. Open reception window.
0:17:14.380587	LOG	PUSH_ACK: 02 5c50 01
0:17:14.382592	LOG	GPS Time from gateway: 1385113971519
0:17:14.383592	LOG	PUSH_DATA: Protocol version = 02, Token = 5c50, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4130631814, 'time': '2023-11-27T09:52:32.520123Z', 'tmms': 1385113971519, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.0, 'foff': -3335, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAjAQC45r02NKsUsddXKM='}]}
0:17:14.384592	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 048c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c75d5ca3)
0:17:14.386592	LOG	Server <---------- DUT
0:17:14.388593	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0209, FOpts:), FPort: e0, FRMPayload: 0700), MIC: f44a3604)
0:17:14.389592	LOG	Frame command sent to the DUT
0:17:14.391592	LOG	PULL_RESP: Protocol version = 02, Token = 1afb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4131631814, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAACQLgwfn0SjYE'}}
0:17:14.392592	LOG	Server ----------> DUT
0:17:14.395592	LOG	Send Test Command TxFramesCtrlReq process completed
0:17:14.404631	LOG	Send Test Command TxFramesCtrlReq process starts
0:17:19.271205	LOG	#**********CURRENT BEACON SENT**********#
0:17:19.273208	LOG	PULL_RESP: Protocol version = 02, Token = b607, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385113984000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAKY9SfrQAAAAAAAAAAA='}}
0:17:19.274209	LOG	Server ----------> DUT
0:17:19.276223	LOG	#**********#
0:17:19.285228	LOG	#**********NEXT BEACON QUEUED**********#
0:17:19.287732	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385114112000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAKo9SFjAAAAAAAAAAAA='}}
0:17:19.289741	LOG	Server ----------> DUT
0:17:19.290774	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 002a8f52, CRC1: 1630, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385114112000
0:17:19.292780	LOG	#**********#
0:17:19.294738	LOG	Next BEACON scheduled at GPS time (ms): 1385114240000
0:17:19.295737	LOG	First uplink received. Open reception window.

0:17:19.297737	LOG	TX_ACK: 02 b607 05 0016c001ff1025bf
0:17:19.298772	LOG	PULL_DATA: 02 a7eb 02 0016c001ff1025bf
0:17:19.299771	LOG	PULL_ACK: 02 a7eb 04
0:17:19.410501	LOG	PUSH_ACK: 02 2780 01
0:17:19.413064	LOG	GPS Time from gateway: 1385113976519
0:17:19.415063	LOG	PUSH_DATA: Protocol version = 02, Token = 2780, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4135631548, 'time': '2023-11-27T09:52:37.519856Z', 'tmms': 1385113976519, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3334, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAjQQCB24Z2Ec5HJKOiJ4='}]}
0:17:19.416064	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 048d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 928e889e)
0:17:19.418102	LOG	Server <---------- DUT
0:17:19.421064	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 020a, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c3505e34)
0:17:19.423063	LOG	Frame command sent to the DUT
0:17:19.424062	LOG	PULL_RESP: Protocol version = 02, Token = ed6e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4136631548, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'oAAAAAAACgLgfldPLuWiHWGiBbA/ws1+TlBGPMeXcM+M1U7Cdvvhz3X68yfbaS7QhQMnQw17roduoV4ew1BeNA==\'}}
0:17:19.426063	LOG	Server ----------> DUT
0:17:19.429067	LOG	Send Test Command TxFramesCtrlReq process completed
0:17:19.432066	LOG	Check previous uplink data rate process starts
0:17:19.437073	LOG	Uplink received with expected Data Rate
0:17:19.440072	LOG	Check ACK bit in next uplink process starts
0:17:23.408449	LOG	First uplink received. Open reception window.
0:17:23.512339	LOG	PUSH_ACK: 02 8e7c 01
0:17:23.514304	LOG	GPS Time from gateway: 1385113980655
0:17:23.515304	LOG	PUSH_DATA: Protocol version = 02, Token = 8e7c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4139767726, 'time': '2023-11-27T09:52:41.656034Z', 'tmms': 1385113980655, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3353, 'rssi': -51, 'size': 12, 'data': 'QAAAAACgjgS/vDZm'}]}
0:17:23.516304	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 048e, FOpts:), FPort: , FRMPayload: , MIC: bfbc3666)
0:17:23.518304	LOG	Server <---------- DUT
0:17:23.519304	LOG	ACK bit in FCtrl field is set
0:17:23.522308	LOG	Check ACK bit in next uplink tested successfully
0:17:23.527309	LOG	Send Test Command RxAppCntReq process starts
0:17:29.266988	LOG	First uplink received. Open reception window.
0:17:29.302073	LOG	PULL_DATA: 02 cd0a 02 0016c001ff1025bf
0:17:29.303072	LOG	PULL_ACK: 02 cd0a 04
0:17:29.381033	LOG	PUSH_ACK: 02 161b 01
0:17:29.383070	LOG	GPS Time from gateway: 1385113986519
0:17:29.384073	LOG	PUSH_DATA: Protocol version = 02, Token = 161b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4145631037, 'time': '2023-11-27T09:52:47.519344Z', 'tmms': 1385113986519, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3332, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAjwQCw6bR8mFsn6HsG5E='}]}
0:17:29.385041	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 048f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a1ec1b91)
0:17:29.387037	LOG	Server <---------- DUT

0:17:29.389039	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 020b, FOpts:), FPort: e0, FRMPayload: 09), MIC: 63db4287)
0:17:29.390072	LOG	Frame command sent to the DUT
0:17:29.392069	LOG	PULL_RESP: Protocol version = 02, Token = 8afd, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4147631037, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAACwLg92PbQoc='}}
0:17:29.393070	LOG	Server ----------> DUT
0:17:29.395039	LOG	TX_ACK: 02 8afd 05 0016c001ff1025bf
0:17:32.804792	LOG	First uplink received. Open reception window.
0:17:32.915371	LOG	PUSH_ACK: 02 5b5d 01
0:17:32.917339	LOG	GPS Time from gateway: 1385113990056
0:17:32.918339	LOG	PUSH_DATA: Protocol version = 02, Token = 5b5d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4149168150, 'time': '2023-11-27T09:52:51.056456Z', 'tmms': 1385113990056, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3348, 'rssi': -50, 'size': 16, 'data': 'QAAAAACAkATglq8DEwEDcQ=='}]}
0:17:32.919339	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0490, FOpts:), FPort: e0, FRMPayload: 09d400, MIC: 13010371)
0:17:32.921339	LOG	Server <---------- DUT
0:17:32.922338	LOG	Frame Command Payload in the Answer: 09d400
0:17:32.926339	LOG	RX Count received by DUT: 212
0:17:32.928397	LOG	Send Test Command RxAppCntReq process completed
0:17:32.935401	LOG	Send MAC command block process starts
0:17:39.271517	LOG	First uplink received. Open reception window.
0:17:39.382764	LOG	PUSH_ACK: 02 229b 01
0:17:39.384733	LOG	GPS Time from gateway: 1385113996518
0:17:39.385732	LOG	PUSH_DATA: Protocol version = 02, Token = 229b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4155630520, 'time': '2023-11-27T09:52:57.518825Z', 'tmms': 1385113996518, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3331, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAkQQCBTaG8+uO0twK4jY='}]}
0:17:39.387741	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0491, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: dc0ae236)
0:17:39.388733	LOG	Server <---------- DUT
0:17:39.390732	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 020c, FOpts:), FPort: 00, FRMPayload: 03200700010540d2ad84), MIC: 427eda88)
0:17:39.392733	LOG	PULL_RESP: Protocol version = 02, Token = c6b4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4157630520, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAADAIAP4p2U7VHAvUsJ0J+2og='}}
0:17:39.393732	LOG	Server ----------> DUT
0:17:39.396733	LOG	TX_ACK: 02 c6b4 05 0016c001ff1025bf
0:17:39.397737	LOG	GPS Time updated: 1385113996644
0:17:39.399738	LOG	PULL_DATA: 02 8c84 02 0016c001ff1025bf
0:17:39.400737	LOG	PULL_ACK: 02 8c84 04
0:17:44.271998	LOG	First uplink received. Open reception window.
0:17:44.379058	LOG	PUSH_ACK: 02 73f5 01
0:17:44.381026	LOG	GPS Time from gateway: 1385114001518
0:17:44.382522	LOG	PUSH_DATA: Protocol version = 02, Token = 73f5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4160630383, 'time': '2023-11-27T09:53:02.518687Z', 'tmms': 1385114001518, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3333, 'rssi': -50, 'size': 24, 'data': 'QAAAAACEkgQDBwUHApL6Ug8cgy1LxEF4'}]}

0:17:44.383521	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0492, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 4bc44178)
0:17:44.384521	LOG	Server <---------- DUT
0:17:44.386489	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:17:44.387865	LOG	Command Answer: 03070507
0:17:44.442517	LOG	MAC command communication completed
0:17:44.445607	LOG	Send Test Command RxAppCntReq process starts
0:17:49.266184	LOG	First uplink received. Open reception window.
0:17:49.372734	LOG	PUSH_ACK: 02 62c0 01
0:17:49.374729	LOG	GPS Time from gateway: 1385114006518
0:17:49.375729	LOG	PUSH_DATA: Protocol version = 02, Token = 62c0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4165630099, 'time': '2023-11-27T09:53:07.518401Z', 'tmms': 1385114006518, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3327, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCkwQFBwIz6fQyuZgkpZUL6A=='}]}
0:17:49.377708	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0493, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: a5950be8)
0:17:49.378735	LOG	Server <---------- DUT
0:17:49.379734	LOG	MAC Command RXParamSetupAns received
0:17:49.381239	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 020d, FOpts:), FPort: e0, FRMPayload: 09), MIC: 6ebe13bc)
0:17:49.383244	LOG	Frame command sent to the DUT
0:17:49.384243	LOG	PULL_RESP: Protocol version = 02, Token = 503c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4167630099, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAADQLgn26+E7w='}}
0:17:49.386282	LOG	Server ----------> DUT
0:17:49.389243	LOG	TX_ACK: 02 503c 05 0016c001ff1025bf
0:17:49.591972	LOG	GPS Time updated: 1385114006843
0:17:49.592976	LOG	PULL_DATA: 02 c0ef 02 0016c001ff1025bf
0:17:49.594977	LOG	PULL_ACK: 02 c0ef 04
0:17:52.810531	LOG	First uplink received. Open reception window.
0:17:52.919143	LOG	PUSH_ACK: 02 40f2 01
0:17:52.921112	LOG	GPS Time from gateway: 1385114010054
0:17:52.922112	LOG	PUSH_DATA: Protocol version = 02, Token = 40f2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4169166218, 'time': '2023-11-27T09:53:11.054521Z', 'tmms': 1385114010054, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3341, 'rssi': -50, 'size': 16, 'data': 'QAAAAACAlATgwaHZJ7oP3Q=='}]}
0:17:52.924111	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0494, FOpts:), FPort: e0, FRMPayload: 09d500, MIC: 27ba0fdd)
0:17:52.925111	LOG	Server <---------- DUT
0:17:52.927111	LOG	Frame Command Payload in the Answer: 09d500
0:17:52.930117	LOG	RX Count received by DUT: 213
0:17:52.933120	LOG	Send Test Command RxAppCntReq process completed
0:17:52.936128	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:17:59.267836	LOG	First uplink received. Open reception window.
0:17:59.372685	LOG	PUSH_ACK: 02 db67 01
0:17:59.374652	LOG	GPS Time from gateway: 1385114016517
0:17:59.375651	LOG	PUSH_DATA: Protocol version = 02, Token = db67, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4175629488, 'time': '2023-11-27T09:53:17.517790Z', 'tmms': 1385114016517, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.8, 'foff': -3323, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAlQQCmvNrehC13XpVLrs='}]}

0:17:59.377657	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0495, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7a552ebb)
0:17:59.378657	LOG	Server <---------- DUT
0:17:59.379657	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 020e, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 689b9685)
0:17:59.382169	LOG	Frame command sent to the DUT
0:17:59.384168	LOG	PULL_RESP: Protocol version = 02, Token = 109f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4177629488, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAADgLg9hJom5aF'}}
0:17:59.385169	LOG	Server ----------> DUT
0:17:59.388176	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:17:59.394173	LOG	Send Test Command TxFramesCtrlReq process starts
0:17:59.801674	LOG	GPS Time updated: 1385114017051
0:17:59.802677	LOG	PULL_DATA: 02 7382 02 0016c001ff1025bf
0:17:59.804682	LOG	PULL_ACK: 02 7382 04
0:18:04.266762	LOG	First uplink received. Open reception window.
0:18:04.380153	LOG	PUSH_ACK: 02 5207 01
0:18:04.381624	LOG	GPS Time from gateway: 1385114021517
0:18:04.383630	LOG	PUSH_DATA: Protocol version = 02, Token = 5207, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4180629230, 'time': '2023-11-27T09:53:22.517530Z', 'tmms': 1385114021517, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.0, 'foff': -3324, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAlgQCdMbvVFmnojXT1BE='}]}
0:18:04.384629	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0496, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 35d3d411)
0:18:04.386629	LOG	Server <---------- DUT
0:18:04.388630	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 020f, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 271b889e)
0:18:04.389629	LOG	Frame command sent to the DUT
0:18:04.391634	LOG	PULL_RESP: Protocol version = 02, Token = 102c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4181629230, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAADwLg3d4nG4ie'}}
0:18:04.392634	LOG	Server ----------> DUT
0:18:04.395634	LOG	Send Test Command TxFramesCtrlReq process completed
0:18:04.398637	LOG	Send Test Command TxFramesCtrlReq process starts
0:18:09.272221	LOG	First uplink received. Open reception window.
0:18:09.375392	LOG	PUSH_ACK: 02 e61f 01
0:18:09.377360	LOG	GPS Time from gateway: 1385114026517
0:18:09.378358	LOG	PUSH_DATA: Protocol version = 02, Token = e61f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4185628974, 'time': '2023-11-27T09:53:27.517274Z', 'tmms': 1385114026517, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3321, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAlwQCNvUBnmUwz/QSATI='}]}
0:18:09.379360	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0497, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f4120132)
0:18:09.381873	LOG	Server <---------- DUT
0:18:09.383919	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0210, FOpts:), FPort: e0, FRMPayload: 0700), MIC: d36b4e32)
0:18:09.384903	LOG	Frame command sent to the DUT
0:18:09.386904	LOG	PULL_RESP: Protocol version = 02, Token = 944d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4186628974, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAEALg6eTTa04y'}}
0:18:09.387903	LOG	Server ----------> DUT

0:18:09.390870	LOG	Send Test Command TxFramesCtrlReq process completed
0:18:09.394871	LOG	Send Test Command TxFramesCtrlReq process starts
0:18:10.011970	LOG	GPS Time updated: 1385114027256
0:18:10.013491	LOG	PULL_DATA: 02 fefc 02 0016c001ff1025bf
0:18:10.014479	LOG	PULL_ACK: 02 fefc 04
0:18:14.272366	LOG	First uplink received. Open reception window.
0:18:14.382549	LOG	PUSH_ACK: 02 3acc 01
0:18:14.384517	LOG	GPS Time from gateway: 1385114031516
0:18:14.385517	LOG	PUSH_DATA: Protocol version = 02, Token = 3acc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4190628709, 'time': '2023-11-27T09:53:32.517008Z', 'tmms': 1385114031516, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.8, 'foff': -3321, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAmAQCDbO3cMDbUs/Ta64='}]}
0:18:14.386517	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0498, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: cfd36bae)
0:18:14.388517	LOG	Server <---------- DUT
0:18:14.390517	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0211, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 0c80897f)
0:18:14.391516	LOG	Frame command sent to the DUT
0:18:14.392517	LOG	PULL_RESP: Protocol version = 02, Token = 0cbf, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4191628709, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAEQLgQrkMgIl/'}}
0:18:14.394517	LOG	Server ----------> DUT
0:18:14.397523	LOG	Send Test Command TxFramesCtrlReq process completed
0:18:14.400521	LOG	Send Test Command TxFramesCtrlReq process starts
0:18:19.267963	LOG	First uplink received. Open reception window.
0:18:19.369282	LOG	PUSH_ACK: 02 2928 01
0:18:19.371249	LOG	GPS Time from gateway: 1385114036516
0:18:19.372249	LOG	PUSH_DATA: Protocol version = 02, Token = 2928, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4195628455, 'time': '2023-11-27T09:53:37.516752Z', 'tmms': 1385114036516, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3320, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAmQQCjodeSCb8P05htbo='}]}
0:18:19.373253	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0499, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4e61b5ba)
0:18:19.375254	LOG	Server <---------- DUT
0:18:19.376253	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0212, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 88bfbdfa)
0:18:19.378253	LOG	Frame command sent to the DUT
0:18:19.379253	LOG	PULL_RESP: Protocol version = 02, Token = b720, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4196628455, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAEgLgj26Iv736'}}
0:18:19.380253	LOG	Server ----------> DUT
0:18:19.383764	LOG	Send Test Command TxFramesCtrlReq process completed
0:18:19.393762	LOG	Send Test Command TxFramesCtrlReq process starts
0:18:20.221556	LOG	GPS Time updated: 1385114037470
0:18:20.222557	LOG	PULL_DATA: 02 30b5 02 0016c001ff1025bf
0:18:20.223557	LOG	PULL_ACK: 02 30b5 04
0:18:24.271186	LOG	First uplink received. Open reception window.
0:18:24.380033	LOG	PUSH_ACK: 02 aa0e 01
0:18:24.382116	LOG	GPS Time from gateway: 1385114041516
0:18:24.383118	LOG	PUSH_DATA: Protocol version = 02, Token = aa0e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4200628198, 'time': '2023-11-27T09:53:42.516495Z', 'tmms': 1385114041516, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3317, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAmgQCgGfd3uWDD997OMs='}]}
0:18:24.384151	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 049a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: df7b38cb)
0:18:24.386116	LOG	Server <---------- DUT
0:18:24.388114	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0213, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: f018d067)
0:18:24.389115	LOG	Frame command sent to the DUT
0:18:24.391114	LOG	PULL_RESP: Protocol version = 02, Token = 9e4d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4201628198, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'oAAAAAAAEwLg4P++HaV0QERSE2SiDfDmCNnGxzgjCn1peip++vCsPHA65fWtFnbkCgwNogHuswZ9lHln8BjQZw==''}}
0:18:24.392114	LOG	Server ----------> DUT
0:18:24.395116	LOG	Send Test Command TxFramesCtrlReq process completed
0:18:24.398123	LOG	Check previous uplink data rate process starts
0:18:24.402121	LOG	Uplink received with expected Data Rate
0:18:24.405148	LOG	Check ACK bit in next uplink process starts
0:18:28.402051	LOG	First uplink received. Open reception window.
0:18:28.515529	LOG	PUSH_ACK: 02 fe2f 01
0:18:28.517532	LOG	GPS Time from gateway: 1385114045652
0:18:28.518535	LOG	PUSH_DATA: Protocol version = 02, Token = fe2f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4204764523, 'time': '2023-11-27T09:53:46.652820Z', 'tmms': 1385114045652, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.0, 'foff': -3336, 'rssi': -51, 'size': 12, 'data': 'QAAAAACgmwS3SUVS'}]}
0:18:28.519533	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 049b, FOpts:), FPort: , FRMPayload: , MIC: b7494552)
0:18:28.520534	LOG	Server <---------- DUT
0:18:28.522533	LOG	ACK bit in FCtrl field is set
0:18:28.524533	LOG	Check ACK bit in next uplink tested successfully
0:18:28.529534	LOG	Send Test Command RxAppCntReq process starts
0:18:30.271433	LOG	GPS Time updated: 1385114047522
0:18:30.273401	LOG	PULL_DATA: 02 873e 02 0016c001ff1025bf
0:18:30.274386	LOG	PULL_ACK: 02 873e 04
0:18:34.266605	LOG	First uplink received. Open reception window.
0:18:34.368236	LOG	PUSH_ACK: 02 2162 01
0:18:34.370203	LOG	GPS Time from gateway: 1385114051515
0:18:34.371203	LOG	PUSH_DATA: Protocol version = 02, Token = 2162, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4210627687, 'time': '2023-11-27T09:53:52.515982Z', 'tmms': 1385114051515, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3313, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAnAQCXAtqv9mlE0aEt2Q='}]}
0:18:34.372208	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 049c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4684b764)
0:18:34.374208	LOG	Server <---------- DUT
0:18:34.376208	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0214, FOpts:), FPort: e0, FRMPayload: 09), MIC: ea6bccdd)
0:18:34.377208	LOG	Frame command sent to the DUT
0:18:34.379208	LOG	PULL_RESP: Protocol version = 02, Token = efc2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4212627687, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAFALgZeprzN0='}}

0:18:34.380208	LOG	Server ----------> DUT
0:18:34.382718	LOG	TX_ACK: 02 efc2 05 0016c001ff1025bf
0:18:37.801595	LOG	First uplink received. Open reception window.
0:18:37.910199	LOG	PUSH_ACK: 02 a594 01
0:18:37.911166	LOG	GPS Time from gateway: 1385114055051
0:18:37.912671	LOG	PUSH_DATA: Protocol version = 02, Token = a594, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4214163688, 'time': '2023-11-27T09:53:56.051984Z', 'tmms': 1385114055051, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3328, 'rssi': -50, 'size': 16, 'data': 'QAAAAACAnQTgZUf6AwEViw==\'}]}
0:18:37.914676	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 049d, FOpts:), FPort: e0, FRMPayload: 09dc00, MIC: 0301158b)
0:18:37.915675	LOG	Server <---------- DUT
0:18:37.917676	LOG	Frame Command Payload in the Answer: 09dc00
0:18:37.921683	LOG	RX Count received by DUT: 220
0:18:37.923676	LOG	Send Test Command RxAppCntReq process completed
0:18:37.929682	LOG	Send MAC command block process starts
0:18:40.481419	LOG	GPS Time updated: 1385114057732
0:18:40.483422	LOG	PULL_DATA: 02 e5f8 02 0016c001ff1025bf
0:18:40.484422	LOG	PULL_ACK: 02 e5f8 04
0:18:44.264433	LOG	First uplink received. Open reception window.
0:18:44.371408	LOG	PUSH_ACK: 02 9c75 01
0:18:44.373377	LOG	GPS Time from gateway: 1385114061515
0:18:44.374381	LOG	PUSH_DATA: Protocol version = 02, Token = 9c75, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4220627177, 'time': '2023-11-27T09:54:02.515470Z', 'tmms': 1385114061515, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3312, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAngQCiwajS+GMiKe2rYM=\'}]}
0:18:44.376387	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 049e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a7b6ad83)
0:18:44.377387	LOG	Server <---------- DUT
0:18:44.379386	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0215, FOpts:), FPort: 00, FRMPayload: 03200700010550d2ad84), MIC: 7b35a269)
0:18:44.381386	LOG	PULL_RESP: Protocol version = 02, Token = cdbe, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4222627177, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAFQIAo524PehelTGA8Xs1omk=\'}}
0:18:44.382895	LOG	Server ----------> DUT
0:18:44.385895	LOG	TX_ACK: 02 cdbe 05 0016c001ff1025bf
0:18:49.269416	LOG	First uplink received. Open reception window.
0:18:49.373979	LOG	PUSH_ACK: 02 7a82 01
0:18:49.375946	LOG	GPS Time from gateway: 1385114066515
0:18:49.376979	LOG	PUSH_DATA: Protocol version = 02, Token = 7a82, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4225627036, 'time': '2023-11-27T09:54:07.515329Z', 'tmms': 1385114066515, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.8, 'foff': -3316, 'rssi': -50, 'size': 24, 'data': 'QAAAAACEnwQDBwUHAuCQ2pUrJXdvl7ca'}]}
0:18:49.378980	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 049f, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 6f97b71a)
0:18:49.379979	LOG	Server <---------- DUT
0:18:49.381518	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:18:49.383523	LOG	Command Answer: 03070507
0:18:49.438729	LOG	MAC command communication completed

0:18:49.442697	LOG	Send Test Command RxAppCntReq process starts
0:18:50.681855	LOG	GPS Time updated: 1385114067926
0:18:50.682855	LOG	PULL_DATA: 02 7ece 02 0016c001ff1025bf
0:18:50.683825	LOG	PULL_ACK: 02 7ece 04
0:18:54.269145	LOG	First uplink received. Open reception window.
0:18:54.378716	LOG	PUSH_ACK: 02 4584 01
0:18:54.379750	LOG	GPS Time from gateway: 1385114071514
0:18:54.382260	LOG	PUSH_DATA: Protocol version = 02, Token = 4584, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4230626756, 'time': '2023-11-27T09:54:12.515049Z', 'tmms': 1385114071514, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3307, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCoAQFBwIo14yUHx6TmgK82Q==\'}]}
0:18:54.383294	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 04a0, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 9a02bcd9)
0:18:54.384259	LOG	Server <---------- DUT
0:18:54.386259	LOG	MAC Command RXParamSetupAns received
0:18:54.387259	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0216, FOpts:), FPort: e0, FRMPayload: 09), MIC: 814505c7)
0:18:54.389291	LOG	Frame command sent to the DUT
0:18:54.390292	LOG	PULL_RESP: Protocol version = 02, Token = 9a6c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4232626756, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAFgLgGoFFBcc='}}
0:18:54.391293	LOG	Server ----------> DUT
0:18:54.394262	LOG	TX_ACK: 02 9a6c 05 0016c001ff1025bf
0:18:57.808953	LOG	First uplink received. Open reception window.
0:18:57.919108	LOG	PUSH_ACK: 02 636e 01
0:18:57.921110	LOG	GPS Time from gateway: 1385114075050
0:18:57.923111	LOG	PUSH_DATA: Protocol version = 02, Token = 636e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4234162835, 'time': '2023-11-27T09:54:16.051126Z', 'tmms': 1385114075050, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3326, 'rssi': -50, 'size': 16, 'data': 'QAAAAACAoQTgbnvf/yWE8w==\'}]}
0:18:57.924146	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04a1, FOpts:), FPort: e0, FRMPayload: 09dd00, MIC: ff2584f3)
0:18:57.925110	LOG	Server <---------- DUT
0:18:57.927111	LOG	Frame Command Payload in the Answer: 09dd00
0:18:57.931114	LOG	RX Count received by DUT: 221
0:18:57.933114	LOG	Send Test Command RxAppCntReq process completed
0:18:57.937120	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:19:00.701471	LOG	GPS Time updated: 1385114077943
0:19:00.702495	LOG	PULL_DATA: 02 ac94 02 0016c001ff1025bf
0:19:00.704479	LOG	PULL_ACK: 02 ac94 04
0:19:04.263593	LOG	First uplink received. Open reception window.
0:19:04.371186	LOG	PUSH_ACK: 02 2358 01
0:19:04.373187	LOG	GPS Time from gateway: 1385114081514
0:19:04.374766	LOG	PUSH_DATA: Protocol version = 02, Token = 2358, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4240626137, 'time': '2023-11-27T09:54:22.514428Z', 'tmms': 1385114081514, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.0, 'foff': -3309, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAogQCJBOjrel2f1N5WcM=\'}]}
0:19:04.375765	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04a2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 537959c3)
0:19:04.376765	LOG	Server <---------- DUT
0:19:04.378758	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0217, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 0a9fe9e5)

0:19:04.379765	LOG	Frame command sent to the DUT
0:19:04.381304	LOG	PULL_RESP: Protocol version = 02, Token = abc8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4242626137, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAFwLg6nMKn+nl'}}
0:19:04.383308	LOG	Server ----------> DUT
0:19:04.386312	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:19:04.392308	LOG	Send Test Command TxFramesCtrlReq process starts
0:19:09.267701	LOG	First uplink received. Open reception window.
0:19:09.381396	LOG	PUSH_ACK: 02 38ce 01
0:19:09.382905	LOG	GPS Time from gateway: 1385114086513
0:19:09.384906	LOG	PUSH_DATA: Protocol version = 02, Token = 38ce, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4245625887, 'time': '2023-11-27T09:54:27.514176Z', 'tmms': 1385114086513, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3311, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAowQCPCQdha6rW908j1g='}]}
0:19:09.385904	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04a3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: dd3c8f58)
0:19:09.386904	LOG	Server <---------- DUT
0:19:09.388904	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0218, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 3aa46425)
0:19:09.390905	LOG	Frame command sent to the DUT
0:19:09.391904	LOG	PULL_RESP: Protocol version = 02, Token = c5aa, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4246625887, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAGALgPDI6pGQl'}}
0:19:09.393904	LOG	Server ----------> DUT
0:19:09.395905	LOG	Send Test Command TxFramesCtrlReq process completed
0:19:09.399909	LOG	Send Test Command TxFramesCtrlReq process starts
0:19:10.861248	LOG	GPS Time updated: 1385114088107
0:19:10.863224	LOG	PULL_DATA: 02 679c 02 0016c001ff1025bf
0:19:10.864265	LOG	PULL_ACK: 02 679c 04
0:19:14.263208	LOG	First uplink received. Open reception window.
0:19:14.373013	LOG	PUSH_ACK: 02 cbc0 01
0:19:14.374981	LOG	GPS Time from gateway: 1385114091513
0:19:14.375984	LOG	PUSH_DATA: Protocol version = 02, Token = cbc0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4250625619, 'time': '2023-11-27T09:54:32.513908Z', 'tmms': 1385114091513, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3309, 'rssi': -49, 'size': 20, 'data': 'QAAAAACApAQCgTVT3pkmFYEJALs='}]}
0:19:14.376990	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04a4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 810900bb)
0:19:14.378990	LOG	Server <---------- DUT
0:19:14.379990	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0219, FOpts:), FPort: e0, FRMPayload: 0700), MIC: acadb97d)
0:19:14.382501	LOG	Frame command sent to the DUT
0:19:14.384007	LOG	PULL_RESP: Protocol version = 02, Token = 1ffc, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4251625619, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAGQLgpYWsrbl9'}}
0:19:14.386014	LOG	Server ----------> DUT
0:19:14.389031	LOG	Send Test Command TxFramesCtrlReq process completed
0:19:14.392045	LOG	Send Test Command TxFramesCtrlReq process starts
0:19:19.268483	LOG	First uplink received. Open reception window.
0:19:19.375389	LOG	PUSH_ACK: 02 2348 01
0:19:19.377358	LOG	GPS Time from gateway: 1385114096513

0:19:19.378357	LOG	PUSH_DATA: Protocol version = 02, Token = 2348, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4255625364, 'time': '2023-11-27T09:54:37.513653Z', 'tmms': 1385114096513, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3313, 'rssi': -49, 'size': 20, 'data': 'QAAAAACApQQCHyDb6sQBaNAvzIE='}]}
0:19:19.379357	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04a5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d02fcc81)
0:19:19.381362	LOG	Server <---------- DUT
0:19:19.382871	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 021a, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 00a05f7a)
0:19:19.384871	LOG	Frame command sent to the DUT
0:19:19.386925	LOG	PULL_RESP: Protocol version = 02, Token = cade, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4256625364, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAGgLggiYAoF96'}}
0:19:19.387910	LOG	Server ----------> DUT
0:19:19.391432	LOG	Send Test Command TxFramesCtrlReq process completed
0:19:19.395431	LOG	Send Test Command TxFramesCtrlReq process starts
0:19:21.061769	LOG	GPS Time updated: 1385114098305
0:19:21.062793	LOG	PULL_DATA: 02 401d 02 0016c001ff1025bf
0:19:21.064792	LOG	PULL_ACK: 02 401d 04
0:19:24.267242	LOG	First uplink received. Open reception window.
0:19:24.369565	LOG	PUSH_ACK: 02 9f12 01
0:19:24.371565	LOG	GPS Time from gateway: 1385114101513
0:19:24.372567	LOG	PUSH_DATA: Protocol version = 02, Token = 9f12, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4260625103, 'time': '2023-11-27T09:54:42.513391Z', 'tmms': 1385114101513, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3307, 'rssi': -49, 'size': 20, 'data': 'QAAAAACApgQCq9wlOt94fTwRj/0='}]}
0:19:24.373566	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04a6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3c118ffd)
0:19:24.375566	LOG	Server <---------- DUT
0:19:24.376565	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 021b, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 0a388685)
0:19:24.378567	LOG	Frame command sent to the DUT
0:19:24.379565	LOG	PULL_RESP: Protocol version = 02, Token = ec5b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4261625103, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAGwLghbMKOIaF'}}
0:19:24.381568	LOG	Server ----------> DUT
0:19:24.384659	LOG	Send Test Command TxFramesCtrlReq process completed
0:19:24.395238	LOG	Send Test Command TxFramesCtrlReq process starts
0:19:29.267839	LOG	#**********CURRENT BEACON SENT**********#
0:19:29.268838	LOG	PULL_RESP: Protocol version = 02, Token = a8fc, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385114112000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAKo9SFjAAAAAAAAAAAA='}}
0:19:29.270843	LOG	Server ----------> DUT
0:19:29.272840	LOG	#**********#
0:19:29.281843	LOG	#**********NEXT BEACON QUEUED**********#
0:19:29.283846	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385114240000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAKo9SLu0AAAAAAAAAAA='}}

0:19:29.285846	LOG	Server ----------> DUT
0:19:29.286845	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 802a8f52, CRC1: 2eed, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385114240000
0:19:29.288350	LOG	#**********# **********#
0:19:29.290355	LOG	Next BEACON scheduled at GPS time (ms): 1385114368000
0:19:29.291354	LOG	First uplink received. Open reception window.
0:19:29.293362	LOG	TX_ACK: 02 a8fc 05 0016c001ff1025bf
0:19:29.405439	LOG	PUSH_ACK: 02 341d 01
0:19:29.407458	LOG	GPS Time from gateway: 1385114106512
0:19:29.408457	LOG	PUSH_DATA: Protocol version = 02, Token = 341d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4265624847, 'time': '2023-11-27T09:54:47.513134Z', 'tmms': 1385114106512, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3305, 'rssi': -49, 'size': 20, 'data': 'QAAAAACApwQCa8GX2Oa0yoIj9xU='}]}
0:19:29.410457	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04a7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8223f715)
0:19:29.411456	LOG	Server <---------- DUT
0:19:29.413967	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 021c, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 93cd2d2d)
0:19:29.414967	LOG	Frame command sent to the DUT
0:19:29.416972	LOG	PULL_RESP: Protocol version = 02, Token = f164, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4266624847, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'oAAAAAAAHALgiL6KQHBBmTaHeAX+0F4gP9Sq2hRbovSTTmYh13RgTDGeJb1wFa79LchcyVcIYpyk0qO0k80tLQ=='}}
0:19:29.418967	LOG	Server ----------> DUT
0:19:29.421968	LOG	Send Test Command TxFramesCtrlReq process completed
0:19:29.424966	LOG	Check previous uplink data rate process starts
0:19:29.428967	LOG	Uplink received with expected Data Rate
0:19:29.431971	LOG	Check ACK bit in next uplink process starts
0:19:31.091279	LOG	GPS Time updated: 1385114108310
0:19:31.093242	LOG	PULL_DATA: 02 e079 02 0016c001ff1025bf
0:19:31.095243	LOG	PULL_ACK: 02 e079 04
0:19:33.397975	LOG	First uplink received. Open reception window.
0:19:33.509247	LOG	PUSH_ACK: 02 e74d 01
0:19:33.511249	LOG	GPS Time from gateway: 1385114110649
0:19:33.512233	LOG	PUSH_DATA: Protocol version = 02, Token = e74d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4269761635, 'time': '2023-11-27T09:54:51.649920Z', 'tmms': 1385114110649, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.8, 'foff': -3325, 'rssi': -50, 'size': 12, 'data': 'QAAAAACgqASEjlET'}]}
0:19:33.513251	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 04a8, FOpts:), FPort: , FRMPayload: , MIC: 848e5113)
0:19:33.515218	LOG	Server <---------- DUT
0:19:33.516248	LOG	ACK bit in FCtrl field is set
0:19:33.519221	LOG	Check ACK bit in next uplink tested successfully
0:19:33.524254	LOG	Send Test Command RxAppCntReq process starts
0:19:39.268743	LOG	First uplink received. Open reception window.
0:19:39.377024	LOG	PUSH_ACK: 02 d80a 01
0:19:39.378993	LOG	GPS Time from gateway: 1385114116512

0:19:39.379992	LOG	PUSH_DATA: Protocol version = 02, Token = d80a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4275624332, 'time': '2023-11-27T09:54:57.512618Z', 'tmms': 1385114116512, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.0, 'foff': -3300, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAqQQC7zS5sSz6jI+rEG0='}]}
0:19:39.381499	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04a9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8fab106d)
0:19:39.382504	LOG	Server <---------- DUT
0:19:39.384505	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 021d, FOpts:), FPort: e0, FRMPayload: 09), MIC: 6fb5a8e4)
0:19:39.386508	LOG	Frame command sent to the DUT
0:19:39.387504	LOG	PULL_RESP: Protocol version = 02, Token = bfdf, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4277624332, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAHQLgiW+1qOQ='}}
0:19:39.389508	LOG	Server ----------> DUT
0:19:39.391503	LOG	TX_ACK: 02 bfdf 05 0016c001ff1025bf
0:19:41.281716	LOG	GPS Time updated: 1385114118524
0:19:41.282717	LOG	PULL_DATA: 02 a510 02 0016c001ff1025bf
0:19:41.283718	LOG	PULL_ACK: 02 a510 04
0:19:42.797241	LOG	First uplink received. Open reception window.
0:19:42.909677	LOG	PUSH_ACK: 02 d80c 01
0:19:42.911679	LOG	GPS Time from gateway: 1385114120049
0:19:42.913188	LOG	PUSH_DATA: Protocol version = 02, Token = d80c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4279161208, 'time': '2023-11-27T09:55:01.049493Z', 'tmms': 1385114120049, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3311, 'rssi': -49, 'size': 16, 'data': 'QAAAAACAqgTgyad6MpckzA=='}]}
0:19:42.914194	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04aa, FOpts:), FPort: e0, FRMPayload: 09e400, MIC: 329724cc)
0:19:42.916193	LOG	Server <---------- DUT
0:19:42.917194	LOG	Frame Command Payload in the Answer: 09e400
0:19:42.921194	LOG	RX Count received by DUT: 228
0:19:42.923195	LOG	Send Test Command RxAppCntReq process completed
0:19:42.929194	LOG	End Test Step: Test packet error rate for SF10BW125 using RX1 window
0:19:42.933199	LOG	Partial Verdict: PASS
0:19:42.937197	LOG	==========
0:19:42.941232	LOG	==========
0:19:42.944233	LOG	Start Test Step: Test packet error rate for SF9BW125 using RX1 window
0:19:42.956353	LOG	Step 03-09
0:19:42.961447	LOG	Send MAC command block process starts
0:19:49.263475	LOG	First uplink received. Open reception window.
0:19:49.368811	LOG	PUSH_ACK: 02 ac11 01
0:19:49.370779	LOG	GPS Time from gateway: 1385114126511
0:19:49.371778	LOG	PUSH_DATA: Protocol version = 02, Token = ac11, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4285623825, 'time': '2023-11-27T09:55:07.512109Z', 'tmms': 1385114126511, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3294, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAqwQCyuZ/j3DVDj5PSe4='}]}
0:19:49.372782	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04ab, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3e4f49ee)
0:19:49.374783	LOG	Server <---------- DUT
0:19:49.376782	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 021e, FOpts:), FPort: 00, FRMPayload: 03300700010500d2ad84), MIC: 34fe1582)

0:19:49.378783	LOG	PULL_RESP: Protocol version = 02, Token = 0bbe, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4287623825, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAHgIAgHQWYrZqhpO7/DT+FYI='}}
0:19:49.379782	LOG	Server ----------> DUT
0:19:49.381785	LOG	TX_ACK: 02 0bbe 05 0016c001ff1025bf
0:19:51.481725	LOG	GPS Time updated: 1385114128728
0:19:51.482725	LOG	PULL_DATA: 02 d214 02 0016c001ff1025bf
0:19:51.484727	LOG	PULL_ACK: 02 d214 04
0:19:54.095945	LOG	First uplink received. Open reception window.
0:19:54.197860	LOG	PUSH_ACK: 02 63f5 01
0:19:54.199826	LOG	GPS Time from gateway: 1385114131346
0:19:54.200826	LOG	PUSH_DATA: Protocol version = 02, Token = 63f5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4290458810, 'time': '2023-11-27T09:55:12.347093Z', 'tmms': 1385114131346, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.8, 'foff': -3301, 'rssi': -49, 'size': 24, 'data': 'QAAAAACErAQDBwUHAk15ioDqY1dRP/1o'}]}
0:19:54.202827	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 04ac, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 513ffd68)
0:19:54.203826	LOG	Server <---------- DUT
0:19:54.205826	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:19:54.206826	LOG	Command Answer: 03070507
0:19:54.262899	LOG	MAC command communication completed
0:19:54.266864	LOG	Send Test Command RxAppCntReq process starts
0:19:59.100565	LOG	First uplink received. Open reception window.
0:19:59.210907	LOG	PUSH_ACK: 02 5de4 01
0:19:59.212908	LOG	GPS Time from gateway: 1385114136346
0:19:59.213907	LOG	PUSH_DATA: Protocol version = 02, Token = 5de4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 491240, 'time': '2023-11-27T09:55:17.346818Z', 'tmms': 1385114136346, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3295, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCrQQFBwLzGvRqDsXRoCUoIg=='}]}
0:19:59.214908	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 04ad, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: a0252822)
0:19:59.215910	LOG	Server <---------- DUT
0:19:59.217910	LOG	MAC Command RXParamSetupAns received
0:19:59.219875	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 021f, FOpts:), FPort: e0, FRMPayload: 09), MIC: 51094283)
0:19:59.220873	LOG	Frame command sent to the DUT
0:19:59.221874	LOG	PULL_RESP: Protocol version = 02, Token = da16, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2491240, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAHwLgflEJQoM='}}
0:19:59.223873	LOG	Server ----------> DUT
0:19:59.226384	LOG	TX_ACK: 02 da16 05 0016c001ff1025bf
0:20:01.530813	LOG	GPS Time updated: 1385114138776
0:20:01.532319	LOG	PULL_DATA: 02 fd9d 02 0016c001ff1025bf
0:20:01.534339	LOG	PULL_ACK: 02 fd9d 04
0:20:02.468624	LOG	First uplink received. Open reception window.
0:20:02.577712	LOG	PUSH_ACK: 02 017a 01
0:20:02.579678	LOG	GPS Time from gateway: 1385114139717
0:20:02.580678	LOG	PUSH_DATA: Protocol version = 02, Token = 017a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3862422, 'time': '2023-11-27T09:55:20.718000Z', 'tmms': 1385114139717, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA',

		'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3309, 'rssi': -49, 'size': 16, 'data': 'QAAAAACArgTgfz/FGgd+hA=='}]}
0:20:02.581677	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04ae, FOpts:), FPort: e0, FRMPayload: 09e500, MIC: 1a077e84)
0:20:02.583677	LOG	Server <---------- DUT
0:20:02.584677	LOG	Frame Command Payload in the Answer: 09e500
0:20:02.588683	LOG	RX Count received by DUT: 229
0:20:02.591683	LOG	Send Test Command RxAppCntReq process completed
0:20:02.594684	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:20:09.073522	LOG	First uplink received. Open reception window.
0:20:09.185412	LOG	PUSH_ACK: 02 58a0 01
0:20:09.187381	LOG	GPS Time from gateway: 1385114146325
0:20:09.188381	LOG	PUSH_DATA: Protocol version = 02, Token = 58a0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 10470175, 'time': '2023-11-27T09:55:27.325752Z', 'tmms': 1385114146325, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.8, 'foff': -3297, 'rssi': -49, 'size': 20, 'data': 'QAAAAACArwQCwa9no0XCVmczqqM='}]}
0:20:09.189380	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04af, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6733aaa3)
0:20:09.191393	LOG	Server <---------- DUT
0:20:09.192386	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0220, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 89e664c5)
0:20:09.194904	LOG	Frame command sent to the DUT
0:20:09.195909	LOG	PULL_RESP: Protocol version = 02, Token = 9aa9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 12470175, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAIALg1+2J5mTF'}}
0:20:09.197910	LOG	Server ----------> DUT
0:20:09.200911	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:20:09.207909	LOG	Send Test Command TxFramesCtrlReq process starts
0:20:11.711039	LOG	GPS Time updated: 1385114148964
0:20:11.713039	LOG	PULL_DATA: 02 8c8c 02 0016c001ff1025bf
0:20:11.714132	LOG	PULL_ACK: 02 8c8c 04
0:20:14.075327	LOG	First uplink received. Open reception window.
0:20:14.185431	LOG	PUSH_ACK: 02 bd6d 01
0:20:14.187397	LOG	GPS Time from gateway: 1385114151325
0:20:14.189401	LOG	PUSH_DATA: Protocol version = 02, Token = bd6d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 15469916, 'time': '2023-11-27T09:55:32.325492Z', 'tmms': 1385114151325, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.8, 'foff': -3303, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAsAQCmjhwq5NLJWiLV+U='}]}
0:20:14.190401	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04b0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 688b57e5)
0:20:14.191403	LOG	Server <---------- DUT
0:20:14.193401	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0221, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 41d6ddb5)
0:20:14.195927	LOG	Frame command sent to the DUT
0:20:14.196911	LOG	PULL_RESP: Protocol version = 02, Token = 2e1b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 16469916, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAIQLg4JdB1t21'}}
0:20:14.198911	LOG	Server ----------> DUT
0:20:14.201914	LOG	Send Test Command TxFramesCtrlReq process completed
0:20:14.204945	LOG	Send Test Command TxFramesCtrlReq process starts
0:20:19.080179	LOG	First uplink received. Open reception window.
0:20:19.191143	LOG	PUSH_ACK: 02 055e 01

0:20:19.193108	LOG	GPS Time from gateway: 1385114156324
0:20:19.194613	LOG	PUSH_DATA: Protocol version = 02, Token = 055e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 20469660, 'time': '2023-11-27T09:55:37.325235Z', 'tmms': 1385114156324, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.8, 'foff': -3299, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAsQQCIroLLPWmxRxw9XA='}]}
0:20:19.195619	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04b1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1c70f570)
0:20:19.197619	LOG	Server <---------- DUT
0:20:19.199624	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0222, FOpts:), FPort: e0, FRMPayload: 0700), MIC: a385aa4c)
0:20:19.201619	LOG	Frame command sent to the DUT
0:20:19.202618	LOG	PULL_RESP: Protocol version = 02, Token = 081b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 21469660, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAIgLghoWjhapM'}}
0:20:19.203619	LOG	Server ----------> DUT
0:20:19.206619	LOG	Send Test Command TxFramesCtrlReq process completed
0:20:19.210618	LOG	Send Test Command TxFramesCtrlReq process starts
0:20:21.720745	LOG	GPS Time updated: 1385114158964
0:20:21.722746	LOG	PULL_DATA: 02 ab89 02 0016c001ff1025bf
0:20:21.724715	LOG	PULL_ACK: 02 ab89 04
0:20:24.074190	LOG	First uplink received. Open reception window.
0:20:24.187374	LOG	PUSH_ACK: 02 f751 01
0:20:24.189343	LOG	GPS Time from gateway: 1385114161324
0:20:24.190342	LOG	PUSH_DATA: Protocol version = 02, Token = f751, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 25469397, 'time': '2023-11-27T09:55:42.324971Z', 'tmms': 1385114161324, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 12.8, 'foff': -3301, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAsgQCMFTy0DYlFH63v/Y='}]}
0:20:24.191347	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04b2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7eb7bff6)
0:20:24.193347	LOG	Server <---------- DUT
0:20:24.194849	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0223, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 02fcf8fe)
0:20:24.196855	LOG	Frame command sent to the DUT
0:20:24.198855	LOG	PULL_RESP: Protocol version = 02, Token = 02bc, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 26469397, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAIwLgpdgC/Pj+'}}
0:20:24.199854	LOG	Server ----------> DUT
0:20:24.202854	LOG	Send Test Command TxFramesCtrlReq process completed
0:20:24.206854	LOG	Send Test Command TxFramesCtrlReq process starts
0:20:29.072478	LOG	First uplink received. Open reception window.
0:20:29.186046	LOG	PUSH_ACK: 02 99cf 01
0:20:29.188012	LOG	GPS Time from gateway: 1385114166324
0:20:29.189011	LOG	PUSH_DATA: Protocol version = 02, Token = 99cf, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 30469151, 'time': '2023-11-27T09:55:47.324724Z', 'tmms': 1385114166324, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 12.8, 'foff': -3299, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAswQC3Iiri2mfcS87FM4='}]}
0:20:29.190016	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04b3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2f3b14ce)
0:20:29.192017	LOG	Server <---------- DUT
0:20:29.193016	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0224, FOpts:), FPort: e0, FRMPayload: 0700), MIC: a2234e63)

0:20:29.195526	LOG	Frame command sent to the DUT
0:20:29.197526	LOG	PULL_RESP: Protocol version = 02, Token = afed, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 31469151, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAJALgUciiI05j'}}
0:20:29.198527	LOG	Server --------------------> DUT
0:20:29.201526	LOG	Send Test Command TxFramesCtrlReq process completed
0:20:29.211530	LOG	Send Test Command TxFramesCtrlReq process starts
0:20:31.931400	LOG	GPS Time updated: 1385114169183
0:20:31.932400	LOG	PULL_DATA: 02 5d45 02 0016c001ff1025bf
0:20:31.934090	LOG	PULL_ACK: 02 5d45 04
0:20:34.069457	LOG	First uplink received. Open reception window.
0:20:34.173136	LOG	PUSH_ACK: 02 e1cf 01
0:20:34.175104	LOG	GPS Time from gateway: 1385114171324
0:20:34.176107	LOG	PUSH_DATA: Protocol version = 02, Token = e1cf, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 35468892, 'time': '2023-11-27T09:55:52.324463Z', 'tmms': 1385114171324, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3297, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAtAQC1AIZWAxaP/sHIU4='}]}
0:20:34.178106	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04b4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fb07214e)
0:20:34.179103	LOG	Server <-------------------- DUT
0:20:34.181143	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0225, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101), MIC: e318402a)
0:20:34.182110	LOG	Frame command sent to the DUT
0:20:34.184141	LOG	PULL_RESP: Protocol version = 02, Token = a3da, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 36468892, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'oAAAAAAAJQLgwe7MAJ1IEV2W7AUHfST79MeMj5PNetxSC5oInz9fqfaMAfO0DDwZPvmHzOtIZ9lXkzb3hfWO+WvRQiH3AzSpS9GDfCkllnNbekhwSXB0m9t8jUo20RMb7lHamzL7ngP6Nx63nbwFwE+P7QFRMJuflcS6AeMYQCo='}}
0:20:34.185141	LOG	Server --------------------> DUT
0:20:34.188113	LOG	Send Test Command TxFramesCtrlReq process completed
0:20:34.191108	LOG	Check previous uplink data rate process starts
0:20:34.195656	LOG	Uplink received with expected Data Rate
0:20:34.199656	LOG	Check ACK bit in next uplink process starts
0:20:35.924123	LOG	First uplink received. Open reception window.
0:20:36.026187	LOG	PUSH_ACK: 02 bcb3 01
0:20:36.028188	LOG	GPS Time from gateway: 1385114173176
0:20:36.029190	LOG	PUSH_DATA: Protocol version = 02, Token = bcb3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 37321090, 'time': '2023-11-27T09:55:54.176662Z', 'tmms': 1385114173176, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3306, 'rssi': -50, 'size': 12, 'data': 'QAAAAACgtQTKwm78'}]}
0:20:36.030221	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 04b5, FOpts:), FPort: , FRMPayload: , MIC: cac26efc)
0:20:36.032188	LOG	Server <-------------------- DUT
0:20:36.033187	LOG	ACK bit in FCtrl field is set
0:20:36.036189	LOG	Check ACK bit in next uplink tested successfully
0:20:36.040694	LOG	Send Test Command RxAppCntReq process starts
0:20:39.070457	LOG	First uplink received. Open reception window.

0:20:39.183135	LOG	PUSH_ACK: 02 e31f 01
0:20:39.185134	LOG	GPS Time from gateway: 1385114176323
0:20:39.186138	LOG	PUSH_DATA: Protocol version = 02, Token = e31f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 40468635, 'time': '2023-11-27T09:55:57.324207Z', 'tmms': 1385114176323, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3297, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAtgQC/7grZQcTJRUIMDM='}]}
0:20:39.188134	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04b6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 15083033)
0:20:39.189135	LOG	Server <---------- DUT
0:20:39.191134	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0226, FOpts:), FPort: e0, FRMPayload: 09), MIC: e2d30294)
0:20:39.192134	LOG	Frame command sent to the DUT
0:20:39.193135	LOG	PULL_RESP: Protocol version = 02, Token = 223b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 42468635, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAJgLgpOLTApQ='}}
0:20:39.194641	LOG	Server ----------> DUT
0:20:39.197644	LOG	TX_ACK: 02 223b 05 0016c001ff1025bf
0:20:42.131196	LOG	GPS Time updated: 1385114179384
0:20:42.132714	LOG	PULL_DATA: 02 a840 02 0016c001ff1025bf
0:20:42.134722	LOG	PULL_ACK: 02 a840 04
0:20:42.451150	LOG	First uplink received. Open reception window.
0:20:42.559981	LOG	PUSH_ACK: 02 04a5 01
0:20:42.561949	LOG	GPS Time from gateway: 1385114179695
0:20:42.562951	LOG	PUSH_DATA: Protocol version = 02, Token = 04a5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 43840714, 'time': '2023-11-27T09:56:00.696285Z', 'tmms': 1385114179695, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3312, 'rssi': -49, 'size': 16, 'data': 'QAAAAACAtwTgOMnIOibm2g=='}]}
0:20:42.563983	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04b7, FOpts:), FPort: e0, FRMPayload: 09ec00, MIC: 3a26e6da)
0:20:42.565949	LOG	Server <---------- DUT
0:20:42.566947	LOG	Frame Command Payload in the Answer: 09ec00
0:20:42.571458	LOG	RX Count received by DUT: 236
0:20:42.574461	LOG	Send Test Command RxAppCntReq process completed
0:20:42.580906	LOG	Send MAC command block process starts
0:20:49.076766	LOG	First uplink received. Open reception window.
0:20:49.189216	LOG	PUSH_ACK: 02 de05 01
0:20:49.191184	LOG	GPS Time from gateway: 1385114186323
0:20:49.192184	LOG	PUSH_DATA: Protocol version = 02, Token = de05, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 50468152, 'time': '2023-11-27T09:56:07.323722Z', 'tmms': 1385114186323, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3293, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAuAQCCYHmT52AZPTmDSs='}]}
0:20:49.193185	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04b8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f4e60d2b)
0:20:49.195696	LOG	Server <---------- DUT
0:20:49.197696	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0227, FOpts:), FPort: 00, FRMPayload: 03300700010510d2ad84), MIC: 853a990f)
0:20:49.199701	LOG	PULL_RESP: Protocol version = 02, Token = 5b24, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 52468152, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAJwIAj/Fhsi6xV1NZPIU6mQ8='}}
0:20:49.200695	LOG	Server ----------> DUT

0:20:49.203695	LOG	TX_ACK: 02 5b24 05 0016c001ff1025bf
0:20:52.141180	LOG	GPS Time updated: 1385114189388
0:20:52.142181	LOG	PULL_DATA: 02 a6ac 02 0016c001ff1025bf
0:20:52.144183	LOG	PULL_ACK: 02 a6ac 04
0:20:54.090553	LOG	First uplink received. Open reception window.
0:20:54.201813	LOG	PUSH_ACK: 02 c363 01
0:20:54.203812	LOG	GPS Time from gateway: 1385114191343
0:20:54.204814	LOG	PUSH_DATA: Protocol version = 02, Token = c363, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 55488516, 'time': '2023-11-27T09:56:12.344085Z', 'tmms': 1385114191343, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.8, 'foff': -3295, 'rssi': -49, 'size': 24, 'data': 'QAAAAACEuQQDBwUHAmOU8NfclYdpf7cO'}]}
0:20:54.206814	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 04b9, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 697fb70e)
0:20:54.207812	LOG	Server <---------- DUT
0:20:54.209811	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:20:54.210845	LOG	Command Answer: 03070507
0:20:54.268471	LOG	MAC command communication completed
0:20:54.271471	LOG	Send Test Command RxAppCntReq process starts
0:20:59.090890	LOG	First uplink received. Open reception window.
0:20:59.200756	LOG	PUSH_ACK: 02 19c8 01
0:20:59.202725	LOG	GPS Time from gateway: 1385114196343
0:20:59.203725	LOG	PUSH_DATA: Protocol version = 02, Token = 19c8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 60488244, 'time': '2023-11-27T09:56:17.343812Z', 'tmms': 1385114196343, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 12.8, 'foff': -3288, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCugQFBwJ1arenpTLtJFuieQ=='}]}
0:20:59.204724	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 04ba, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 245ba279)
0:20:59.206725	LOG	Server <---------- DUT
0:20:59.207725	LOG	MAC Command RXParamSetupAns received
0:20:59.209725	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0228, FOpts:), FPort: e0, FRMPayload: 09), MIC: b7ad73c8)
0:20:59.210724	LOG	Frame command sent to the DUT
0:20:59.212729	LOG	PULL_RESP: Protocol version = 02, Token = 1717, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 62488244, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAKALgL7etc8g='}}
0:20:59.213729	LOG	Server ----------> DUT
0:20:59.215728	LOG	TX_ACK: 02 1717 05 0016c001ff1025bf
0:21:02.150720	LOG	GPS Time updated: 1385114199403
0:21:02.152726	LOG	PULL_DATA: 02 c2ca 02 0016c001ff1025bf
0:21:02.153925	LOG	PULL_ACK: 02 c2ca 04
0:21:02.466199	LOG	First uplink received. Open reception window.
0:21:02.574491	LOG	PUSH_ACK: 02 b56d 01
0:21:02.576490	LOG	GPS Time from gateway: 1385114199715
0:21:02.577460	LOG	PUSH_DATA: Protocol version = 02, Token = b56d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 63859884, 'time': '2023-11-27T09:56:20.715452Z', 'tmms': 1385114199715, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3303, 'rssi': -49, 'size': 16, 'data': 'QAAAAACAuwTgihlSmwUSrA=='}]}
0:21:02.579496	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04bb, FOpts:), FPort: e0, FRMPayload: 09ed00, MIC: 9b0512ac)
0:21:02.580457	LOG	Server <---------- DUT

0:21:02.582457	LOG	Frame Command Payload in the Answer: 09ed00
0:21:02.586496	LOG	RX Count received by DUT: 237
0:21:02.588507	LOG	Send Test Command RxAppCntReq process completed
0:21:02.591546	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:21:09.072736	LOG	First uplink received. Open reception window.
0:21:09.174913	LOG	PUSH_ACK: 02 53ac 01
0:21:09.176914	LOG	GPS Time from gateway: 1385114206322
0:21:09.177882	LOG	PUSH_DATA: Protocol version = 02, Token = 53ac, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 70467165, 'time': '2023-11-27T09:56:27.322732Z', 'tmms': 1385114206322, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3290, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAvAQCxfCRZHVg+64hAWA='}]}
0:21:09.178914	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04bc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ae210160)
0:21:09.179918	LOG	Server <---------- DUT
0:21:09.181917	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0229, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 2864af7b)
0:21:09.183918	LOG	Frame command sent to the DUT
0:21:09.184918	LOG	PULL_RESP: Protocol version = 02, Token = bf1b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 72467165, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAKQLgle4oZK97'}}
0:21:09.185917	LOG	Server ----------> DUT
0:21:09.188917	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:21:09.194918	LOG	Send Test Command TxFramesCtrlReq process starts
0:21:12.330636	LOG	GPS Time updated: 1385114209580
0:21:12.332602	LOG	PULL_DATA: 02 beec 02 0016c001ff1025bf
0:21:12.333602	LOG	PULL_ACK: 02 beec 04
0:21:14.111478	LOG	First uplink received. Open reception window.
0:21:14.215036	LOG	PUSH_ACK: 02 7b1c 01
0:21:14.217002	LOG	GPS Time from gateway: 1385114211357
0:21:14.218017	LOG	PUSH_DATA: Protocol version = 02, Token = 7b1c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 75502049, 'time': '2023-11-27T09:56:32.357615Z', 'tmms': 1385114211357, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3293, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAvQQCWiMyqcUX3hMUJ/o='}]}
0:21:14.220033	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04bd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 131427fa)
0:21:14.221001	LOG	Server <---------- DUT
0:21:14.223001	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 022a, FOpts:), FPort: e0, FRMPayload: 0700), MIC: ce9f0849)
0:21:14.225057	LOG	Frame command sent to the DUT
0:21:14.226039	LOG	PULL_RESP: Protocol version = 02, Token = 8796, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 76502049, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAKgLgVKnOnwhJ'}}
0:21:14.227127	LOG	Server ----------> DUT
0:21:14.231130	LOG	Send Test Command TxFramesCtrlReq process completed
0:21:14.235127	LOG	Send Test Command TxFramesCtrlReq process starts
0:21:19.069682	LOG	First uplink received. Open reception window.
0:21:19.172103	LOG	PUSH_ACK: 02 ebed 01
0:21:19.174065	LOG	GPS Time from gateway: 1385114216321
0:21:19.175067	LOG	PUSH_DATA: Protocol version = 02, Token = ebed, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 80466693, 'time': '2023-11-27T09:56:37.322258Z', 'tmms': 1385114216321, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 9, 'stat': 1, 'modu': 'LORA',

		'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.8, 'foff': -3293, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAvgQCxiNQYOvm41FarJI='}]}
0:21:19.176067	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04be, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 515aac92)
0:21:19.178067	LOG	Server <---------- DUT
0:21:19.180103	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 022b, FOpts:), FPort: e0, FRMPayload: 0700), MIC: cb470082)
0:21:19.181070	LOG	Frame command sent to the DUT
0:21:19.183070	LOG	PULL_RESP: Protocol version = 02, Token = 726b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 81466693, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAKwLg0wTLRwCC'}}
0:21:19.184070	LOG	Server ----------> DUT
0:21:19.186069	LOG	Send Test Command TxFramesCtrlReq process completed
0:21:19.190071	LOG	Send Test Command TxFramesCtrlReq process starts
0:21:22.541168	LOG	GPS Time updated: 1385114219793
0:21:22.542137	LOG	PULL_DATA: 02 0cb7 02 0016c001ff1025bf
0:21:22.544141	LOG	PULL_ACK: 02 0cb7 04
0:21:24.072141	LOG	First uplink received. Open reception window.
0:21:24.176867	LOG	PUSH_ACK: 02 0f10 01
0:21:24.178869	LOG	GPS Time from gateway: 1385114221321
0:21:24.179848	LOG	PUSH_DATA: Protocol version = 02, Token = 0f10, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 85466466, 'time': '2023-11-27T09:56:42.322030Z', 'tmms': 1385114221321, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3289, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAvwQCtWWAaaBf7PM8lHk='}]}
0:21:24.181904	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04bf, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f33c9479)
0:21:24.182887	LOG	Server <---------- DUT
0:21:24.184892	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 022c, FOpts:), FPort: e0, FRMPayload: 0700), MIC: cbd46cfe)
0:21:24.185885	LOG	Frame command sent to the DUT
0:21:24.187888	LOG	PULL_RESP: Protocol version = 02, Token = 70cc, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 86466466, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAALALgW9jL1Gz+'}}
0:21:24.188852	LOG	Server ----------> DUT
0:21:24.191855	LOG	Send Test Command TxFramesCtrlReq process completed
0:21:24.195357	LOG	Send Test Command TxFramesCtrlReq process starts
0:21:29.073135	LOG	First uplink received. Open reception window.
0:21:29.178647	LOG	PUSH_ACK: 02 5ced 01
0:21:29.180642	LOG	GPS Time from gateway: 1385114226321
0:21:29.181657	LOG	PUSH_DATA: Protocol version = 02, Token = 5ced, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 90466234, 'time': '2023-11-27T09:56:47.321797Z', 'tmms': 1385114226321, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3295, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAwAQCAS3EC4OAQu7Dpxs='}]}
0:21:29.183689	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04c0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: eec3a71b)
0:21:29.184679	LOG	Server <---------- DUT
0:21:29.186643	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 022d, FOpts:), FPort: e0, FRMPayload: 0700), MIC: f1293c6d)
0:21:29.188643	LOG	Frame command sent to the DUT
0:21:29.189675	LOG	PULL_RESP: Protocol version = 02, Token = 1169, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 91466234, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAALQLgRrHxKTxt'}}
0:21:29.190674	LOG	Server ----------> DUT
0:21:29.193644	LOG	Send Test Command TxFramesCtrlReq process completed
0:21:29.204157	LOG	Send Test Command TxFramesCtrlReq process starts
0:21:32.550965	LOG	GPS Time updated: 1385114229798
0:21:32.552932	LOG	PULL_DATA: 02 167c 02 0016c001ff1025bf
0:21:32.553933	LOG	PULL_ACK: 02 167c 04
0:21:34.072922	LOG	#**********CURRENT BEACON SENT**********#
0:21:34.074887	LOG	PULL_RESP: Protocol version = 02, Token = 1354, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385114240000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAKo9SLu0AAAAAAAAAAA='}}
0:21:34.075887	LOG	Server ----------> DUT
0:21:34.077890	LOG	#**********#
0:21:34.087955	LOG	#**********NEXT BEACON QUEUED**********#
0:21:34.088955	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385114368000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAK49SJgcAAAAAAAAAAA='}}
0:21:34.090925	LOG	Server ----------> DUT
0:21:34.091923	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 002b8f52, CRC1: 2607, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385114368000
0:21:34.092923	LOG	#**********#
0:21:34.094925	LOG	Next BEACON scheduled at GPS time (ms): 1385114496000
0:21:34.095964	LOG	First uplink received. Open reception window.
0:21:34.097957	LOG	TX_ACK: 02 1354 05 0016c001ff1025bf
0:21:34.200847	LOG	PUSH_ACK: 02 23bc 01
0:21:34.202811	LOG	GPS Time from gateway: 1385114231321
0:21:34.204812	LOG	PUSH_DATA: Protocol version = 02, Token = 23bc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 95465977, 'time': '2023-11-27T09:56:52.321538Z', 'tmms': 1385114231321, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.8, 'foff': -3295, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAwQQCrVZJcYYFrwN7OK4='}]}
0:21:34.205843	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04c1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 037b38ae)
0:21:34.207838	LOG	Server <---------- DUT
0:21:34.208842	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 022e, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: f38c04cf)
0:21:34.210851	LOG	Frame command sent to the DUT
0:21:34.211889	LOG	PULL_RESP: Protocol version = 02, Token = 9331, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 96465977, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'oAAAAAAALgLglUG/aEu7zAs5DLCX9r1pwkynm5mx57lXRhPOsgQ7RQ6zW2U0ZGBSN83Mq9vXYc9Pi0ZN84wEzw=='}}
0:21:34.213857	LOG	Server ----------> DUT
0:21:34.216857	LOG	Send Test Command TxFramesCtrlReq process completed
0:21:34.218888	LOG	Check previous uplink data rate process starts

0:21:34.223888	LOG	Uplink received with expected Data Rate
0:21:34.226428	LOG	Check ACK bit in next uplink process starts
0:21:35.946732	LOG	Multiple frames received. Selecting the correct frame...
0:21:35.947732	LOG	Frame selected: {'jver': 1, 'tmst': 97339486, 'time': '2023-11-27T09:56:54.195048Z', 'tmms': 1385114233194, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3304, 'rssi': -50, 'size': 12, 'data': 'QAAAAACgwgQFaRPI'}
0:21:35.949733	LOG	First uplink received. Open reception window.
0:21:36.059761	LOG	PUSH_ACK: 02 1f41 01
0:21:36.061727	LOG	GPS Time from gateway: 1385114233194
0:21:36.063738	LOG	PUSH_DATA: Protocol version = 02, Token = 1f41, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 97339486, 'time': '2023-11-27T09:56:54.195048Z', 'tmms': 1385114233194, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3304, 'rssi': -50, 'size': 12, 'data': 'QAAAAACgwgQFaRPI'}, {'jver': 1, 'tmst': 97339499, 'time': '2023-11-27T09:56:54.195061Z', 'tmms': 1385114233194, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -115, 'lsnr': -10.2, 'foff': -28303, 'rssi': -106, 'size': 12, 'data': 'QAAAAACgwgQFaRPI'}]}
0:21:36.064760	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 04c2, FOpts:), FPort: , FRMPayload: , MIC: 056913c8)
0:21:36.065742	LOG	Server <---------- DUT
0:21:36.067735	LOG	ACK bit in FCtrl field is set
0:21:36.070229	LOG	Check ACK bit in next uplink tested successfully
0:21:36.077235	LOG	Send Test Command RxAppCntReq process starts
0:21:39.072071	LOG	First uplink received. Open reception window.
0:21:39.181895	LOG	PUSH_ACK: 02 afe1 01
0:21:39.183897	LOG	GPS Time from gateway: 1385114236320
0:21:39.184900	LOG	PUSH_DATA: Protocol version = 02, Token = afe1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 100465710, 'time': '2023-11-27T09:56:57.321272Z', 'tmms': 1385114236320, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3293, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAwwQCHWB16eRgc3tzz88='}]}
0:21:39.185930	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04c3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7b73cfcf)
0:21:39.187898	LOG	Server <---------- DUT
0:21:39.189896	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 022f, FOpts:), FPort: e0, FRMPayload: 09), MIC: 7ce191dc)
0:21:39.190896	LOG	Frame command sent to the DUT
0:21:39.191897	LOG	PULL_RESP: Protocol version = 02, Token = 0766, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 102465710, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAALwLgCnzhkdw='}}
0:21:39.193899	LOG	Server ----------> DUT
0:21:39.196403	LOG	TX_ACK: 02 0766 05 0016c001ff1025bf
0:21:42.444800	LOG	First uplink received. Open reception window.
0:21:42.546869	LOG	PUSH_ACK: 02 0b64 01
0:21:42.548835	LOG	GPS Time from gateway: 1385114239692
0:21:42.549836	LOG	PUSH_DATA: Protocol version = 02, Token = 0b64, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 103837632, 'time': '2023-11-27T09:57:00.693193Z', 'tmms': 1385114239692, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3309, 'rssi': -49, 'size': 16, 'data': 'QAAAAACAxATgvXKp+WQjqA=='}]}
0:21:42.550839	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04c4, FOpts:), FPort: e0, FRMPayload: 09f400, MIC: f96423a8)
0:21:42.552835	LOG	Server <---------- DUT
0:21:42.553835	LOG	Frame Command Payload in the Answer: 09f400

0:21:42.557837	LOG	RX Count received by DUT: 244
0:21:42.559837	LOG	Send Test Command RxAppCntReq process completed
0:21:42.566840	LOG	Send MAC command block process starts
0:21:42.761462	LOG	GPS Time updated: 1385114240009
0:21:42.763435	LOG	PULL_DATA: 02 4f5e 02 0016c001ff1025bf
0:21:42.765434	LOG	PULL_ACK: 02 4f5e 04
0:21:49.071053	LOG	First uplink received. Open reception window.
0:21:49.185388	LOG	PUSH_ACK: 02 100d 01
0:21:49.187355	LOG	GPS Time from gateway: 1385114246320
0:21:49.188355	LOG	PUSH_DATA: Protocol version = 02, Token = 100d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 110465199, 'time': '2023-11-27T09:57:07.320759Z', 'tmms': 1385114246320, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.8, 'foff': -3297, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAxQQCE74Qi9MJ1lCOkws='}]}
0:21:49.190360	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04c5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 508e930b)
0:21:49.191360	LOG	Server <---------- DUT
0:21:49.193360	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0230, FOpts:), FPort: 00, FRMPayload: 03300700010520d2ad84), MIC: d6d4c25d)
0:21:49.194864	LOG	PULL_RESP: Protocol version = 02, Token = cd69, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 112465199, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAMAIAt3ALe0ufDK4hV9bUwl0='}}
0:21:49.196870	LOG	Server ----------> DUT
0:21:49.199874	LOG	TX_ACK: 02 cd69 05 0016c001ff1025bf
0:21:52.971236	LOG	GPS Time updated: 1385114250220
0:21:52.972235	LOG	PULL_DATA: 02 297b 02 0016c001ff1025bf
0:21:52.974238	LOG	PULL_ACK: 02 297b 04
0:21:54.094037	LOG	First uplink received. Open reception window.
0:21:54.209408	LOG	PUSH_ACK: 02 e814 01
0:21:54.211447	LOG	GPS Time from gateway: 1385114251340
0:21:54.212417	LOG	PUSH_DATA: Protocol version = 02, Token = e814, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 115485533, 'time': '2023-11-27T09:57:12.341092Z', 'tmms': 1385114251340, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.8, 'foff': -3299, 'rssi': -49, 'size': 24, 'data': 'QAAAAACExgQDBwUHAlA2XkvXVZ7KC+L+'}]}
0:21:54.214415	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 04c6, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: ca0be2fe)
0:21:54.215446	LOG	Server <---------- DUT
0:21:54.217424	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:21:54.218451	LOG	Command Answer: 03070507
0:21:54.274861	LOG	MAC command communication completed
0:21:54.277852	LOG	Send Test Command RxAppCntReq process starts
0:21:59.086138	LOG	First uplink received. Open reception window.
0:21:59.194842	LOG	PUSH_ACK: 02 68f7 01
0:21:59.196880	LOG	GPS Time from gateway: 1385114256340
0:21:59.197853	LOG	PUSH_DATA: Protocol version = 02, Token = 68f7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 120485255, 'time': '2023-11-27T09:57:17.340813Z', 'tmms': 1385114256340, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3293, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCxwQFBwIGlHuO7GuD+hTViA=='}]}
0:21:59.198880	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 04c7, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: fa14d588)

0:21:59.200887	LOG	Server <---------- DUT
0:21:59.201879	LOG	MAC Command RXParamSetupAns received
0:21:59.203848	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0231, FOpts:), FPort: e0, FRMPayload: 09), MIC: 9de04f9a)
0:21:59.204879	LOG	Frame command sent to the DUT
0:21:59.206849	LOG	PULL_RESP: Protocol version = 02, Token = 98b3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 122485255, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAMQLg/Z3gT5o='}}
0:21:59.207848	LOG	Server ----------> DUT
0:21:59.209880	LOG	TX_ACK: 02 98b3 05 0016c001ff1025bf
0:22:02.456873	LOG	First uplink received. Open reception window.
0:22:02.564759	LOG	PUSH_ACK: 02 e374 01
0:22:02.566723	LOG	GPS Time from gateway: 1385114259711
0:22:02.567724	LOG	PUSH_DATA: Protocol version = 02, Token = e374, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 123856340, 'time': '2023-11-27T09:57:20.711898Z', 'tmms': 1385114259711, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3310, 'rssi': -49, 'size': 16, 'data': 'QAAAAACAyATgR17AlmAyUQ==''}]}
0:22:02.568724	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04c8, FOpts:), FPort: e0, FRMPayload: 09f500, MIC: 96603251)
0:22:02.571235	LOG	Server <---------- DUT
0:22:02.572233	LOG	Frame Command Payload in the Answer: 09f500
0:22:02.577233	LOG	RX Count received by DUT: 245
0:22:02.579236	LOG	Send Test Command RxAppCntReq process completed
0:22:02.582232	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:22:02.981286	LOG	GPS Time updated: 1385114260235
0:22:02.982286	LOG	PULL_DATA: 02 aff2 02 0016c001ff1025bf
0:22:02.984289	LOG	PULL_ACK: 02 aff2 04
0:22:09.076002	LOG	First uplink received. Open reception window.
0:22:09.183801	LOG	PUSH_ACK: 02 850b 01
0:22:09.185770	LOG	GPS Time from gateway: 1385114266319
0:22:09.186770	LOG	PUSH_DATA: Protocol version = 02, Token = 850b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 130464171, 'time': '2023-11-27T09:57:27.319728Z', 'tmms': 1385114266319, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.8, 'foff': -3295, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAyQQCDFmol9HffPHJqdg='}]}
0:22:09.187769	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04c9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f1c9a9d8)
0:22:09.189769	LOG	Server <---------- DUT
0:22:09.190770	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0232, FOpts:), FPort: e0, FRMPayload: 0500), MIC: e5d897ad)
0:22:09.192770	LOG	Frame command sent to the DUT
0:22:09.193770	LOG	PULL_RESP: Protocol version = 02, Token = 40c2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 132464171, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAMgLgFLvl2Jet'}}
0:22:09.195274	LOG	Server ----------> DUT
0:22:09.198279	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:22:09.205279	LOG	Send Test Command TxFramesCtrlReq process starts
0:22:13.191014	LOG	GPS Time updated: 1385114270435
0:22:13.192014	LOG	PULL_DATA: 02 df9b 02 0016c001ff1025bf
0:22:13.193983	LOG	PULL_ACK: 02 df9b 04
0:22:14.074864	LOG	First uplink received. Open reception window.
0:22:14.188094	LOG	PUSH_ACK: 02 8702 01
0:22:14.190097	LOG	GPS Time from gateway: 1385114271319

0:22:14.192096	LOG	PUSH_DATA: Protocol version = 02, Token = 8702, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 135463902, 'time': '2023-11-27T09:57:32.319458Z', 'tmms': 1385114271319, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3297, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAygQCPzLFu01a9qvRIU0='}]}
0:22:14.193129	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04ca, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: abd1214d)
0:22:14.195097	LOG	Server <---------- DUT
0:22:14.197186	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0233, FOpts:), FPort: e0, FRMPayload: 0700), MIC: b01fe31e)
0:22:14.198185	LOG	Frame command sent to the DUT
0:22:14.200227	LOG	PULL_RESP: Protocol version = 02, Token = dff5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 136463902, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAMwLgFjKwH+Me'}}
0:22:14.202198	LOG	Server ----------> DUT
0:22:14.205186	LOG	Send Test Command TxFramesCtrlReq process completed
0:22:14.208186	LOG	Send Test Command TxFramesCtrlReq process starts
0:22:19.067533	LOG	First uplink received. Open reception window.
0:22:19.172471	LOG	PUSH_ACK: 02 57af 01
0:22:19.174439	LOG	GPS Time from gateway: 1385114276318
0:22:19.175945	LOG	PUSH_DATA: Protocol version = 02, Token = 57af, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 140463651, 'time': '2023-11-27T09:57:37.319206Z', 'tmms': 1385114276318, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3293, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAywQCEpr5kWdXWPvbv4I='}]}
0:22:19.176950	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04cb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fbdbbf82)
0:22:19.177950	LOG	Server <---------- DUT
0:22:19.179966	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0234, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 1078bdce)
0:22:19.181971	LOG	Frame command sent to the DUT
0:22:19.182971	LOG	PULL_RESP: Protocol version = 02, Token = 0f62, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 141463651, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAANALgejcQeL3O'}}
0:22:19.184971	LOG	Server ----------> DUT
0:22:19.186970	LOG	Send Test Command TxFramesCtrlReq process completed
0:22:19.191004	LOG	Send Test Command TxFramesCtrlReq process starts
0:22:23.380288	LOG	GPS Time updated: 1385114280631
0:22:23.382327	LOG	PULL_DATA: 02 58fb 02 0016c001ff1025bf
0:22:23.383309	LOG	PULL_ACK: 02 58fb 04
0:22:24.073888	LOG	First uplink received. Open reception window.
0:22:24.188846	LOG	PUSH_ACK: 02 fca7 01
0:22:24.190815	LOG	GPS Time from gateway: 1385114281318
0:22:24.191813	LOG	PUSH_DATA: Protocol version = 02, Token = fca7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 145463396, 'time': '2023-11-27T09:57:42.318950Z', 'tmms': 1385114281318, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.8, 'foff': -3293, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAzAQCNgxqDie4YnxVLPM='}]}
0:22:24.192818	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04cc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7c552cf3)
0:22:24.193818	LOG	Server <---------- DUT
0:22:24.197330	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0235, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 0138e765)
0:22:24.198329	LOG	Frame command sent to the DUT

0:22:24.200366	LOG	PULL_RESP: Protocol version = 02, Token = 3a33, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 146463396, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAANQLg77IBOOdl'}}
0:22:24.201364	LOG	Server ----------> DUT
0:22:24.204344	LOG	Send Test Command TxFramesCtrlReq process completed
0:22:24.208329	LOG	Send Test Command TxFramesCtrlReq process starts
0:22:29.069050	LOG	First uplink received. Open reception window.
0:22:29.174524	LOG	PUSH_ACK: 02 590c 01
0:22:29.176492	LOG	GPS Time from gateway: 1385114286318
0:22:29.177492	LOG	PUSH_DATA: Protocol version = 02, Token = 590c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 150463129, 'time': '2023-11-27T09:57:47.318682Z', 'tmms': 1385114286318, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 12.8, 'foff': -3295, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAzQQCJ6sxrS/cKB47Gak='}]}
0:22:29.178492	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04cd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1e3b19a9)
0:22:29.180492	LOG	Server <---------- DUT
0:22:29.182492	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0236, FOpts:), FPort: e0, FRMPayload: 0700), MIC: ef4333ec)
0:22:29.183492	LOG	Frame command sent to the DUT
0:22:29.184996	LOG	PULL_RESP: Protocol version = 02, Token = 3a42, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 151463129, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAANgLgTLjvQzPs'}}
0:22:29.187001	LOG	Server ----------> DUT
0:22:29.189001	LOG	Send Test Command TxFramesCtrlReq process completed
0:22:29.199518	LOG	Send Test Command TxFramesCtrlReq process starts
0:22:33.590551	LOG	GPS Time updated: 1385114290839
0:22:33.592519	LOG	PULL_DATA: 02 97de 02 0016c001ff1025bf
0:22:33.594240	LOG	PULL_ACK: 02 97de 04
0:22:34.066628	LOG	First uplink received. Open reception window.
0:22:34.169102	LOG	PUSH_ACK: 02 1e7f 01
0:22:34.171104	LOG	GPS Time from gateway: 1385114291318
0:22:34.172106	LOG	PUSH_DATA: Protocol version = 02, Token = 1e7f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 155462868, 'time': '2023-11-27T09:57:52.318419Z', 'tmms': 1385114291318, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3292, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAzgQCm9ImxMILMkznWeY='}]}
0:22:34.174103	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04ce, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4ce759e6)
0:22:34.175103	LOG	Server <---------- DUT
0:22:34.177106	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0237, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 1d9e169b)
0:22:34.179106	LOG	Frame command sent to the DUT
0:22:34.180106	LOG	PULL_RESP: Protocol version = 02, Token = 1b0e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 156462868, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'oAAAAAAANwLgnQNXMe/qAgzmnJ79hXKY0+U6VjJugm+FT8QpVdggwhVeVwgc9fM2jgNldjitJXq9Cl3jHZ4Wmw=='}}
0:22:34.181106	LOG	Server ----------> DUT
0:22:34.184106	LOG	Send Test Command TxFramesCtrlReq process completed
0:22:34.187109	LOG	Check previous uplink data rate process starts

0:22:34.191616	LOG	Uplink received with expected Data Rate
0:22:34.193621	LOG	Check ACK bit in next uplink process starts
0:22:36.730244	LOG	First uplink received. Open reception window.
0:22:36.843145	LOG	PUSH_ACK: 02 77d5 01
0:22:36.845147	LOG	GPS Time from gateway: 1385114293979
0:22:36.846149	LOG	PUSH_DATA: Protocol version = 02, Token = 77d5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 158124606, 'time': '2023-11-27T09:57:54.980158Z', 'tmms': 1385114293979, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3312, 'rssi': -50, 'size': 12, 'data': 'QAAAAACgzwRLI3bW'}]}
0:22:36.847155	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 04cf, FOpts:), FPort: , FRMPayload: , MIC: 4b2376d6)
0:22:36.849164	LOG	Server <---------- DUT
0:22:36.850188	LOG	ACK bit in FCtrl field is set
0:22:36.852730	LOG	Check ACK bit in next uplink tested successfully
0:22:36.859761	LOG	Send Test Command RxAppCntReq process starts
0:22:43.630944	LOG	GPS Time updated: 1385114300880
0:22:43.632595	LOG	PULL_DATA: 02 fb26 02 0016c001ff1025bf
0:22:43.634284	LOG	PULL_ACK: 02 fb26 04
0:22:44.065679	LOG	First uplink received. Open reception window.
0:22:44.167938	LOG	PUSH_ACK: 02 c780 01
0:22:44.169939	LOG	GPS Time from gateway: 1385114301317
0:22:44.170940	LOG	PUSH_DATA: Protocol version = 02, Token = c780, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 165462365, 'time': '2023-11-27T09:58:02.317916Z', 'tmms': 1385114301317, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.8, 'foff': -3293, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA0AQCWIcN0cKuHqta8VQ='}]}
0:22:44.171939	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04d0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ab5af154)
0:22:44.173939	LOG	Server <---------- DUT
0:22:44.174938	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0238, FOpts:), FPort: e0, FRMPayload: 09), MIC: 03bb66d5)
0:22:44.176939	LOG	Frame command sent to the DUT
0:22:44.177940	LOG	PULL_RESP: Protocol version = 02, Token = 4221, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 167462365, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAOALgeQO7ZtU='}}
0:22:44.179939	LOG	Server ----------> DUT
0:22:44.181942	LOG	TX_ACK: 02 4221 05 0016c001ff1025bf
0:22:47.443374	LOG	First uplink received. Open reception window.
0:22:47.545903	LOG	PUSH_ACK: 02 31a6 01
0:22:47.547446	LOG	GPS Time from gateway: 1385114304689
0:22:47.548445	LOG	PUSH_DATA: Protocol version = 02, Token = 31a6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 168834068, 'time': '2023-11-27T09:58:05.689618Z', 'tmms': 1385114304689, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3311, 'rssi': -49, 'size': 16, 'data': 'QAAAAACA0QTgj0jzk1UkfA=='}]}
0:22:47.550479	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04d1, FOpts:), FPort: e0, FRMPayload: 09fc00, MIC: 9355247c)
0:22:47.551459	LOG	Server <---------- DUT
0:22:47.553444	LOG	Frame Command Payload in the Answer: 09fc00
0:22:47.557447	LOG	RX Count received by DUT: 252
0:22:47.559448	LOG	Send Test Command RxAppCntReq process completed
0:22:47.565449	LOG	Send MAC command block process starts
0:22:53.640430	LOG	GPS Time updated: 1385114310887
0:22:53.642399	LOG	PULL_DATA: 02 a972 02 0016c001ff1025bf

0:22:53.643398	LOG	PULL_ACK: 02 a972 04
0:22:54.066838	LOG	First uplink received. Open reception window.
0:22:54.168748	LOG	PUSH_ACK: 02 6892 01
0:22:54.170717	LOG	GPS Time from gateway: 1385114311316
0:22:54.171716	LOG	PUSH_DATA: Protocol version = 02, Token = 6892, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 175461843, 'time': '2023-11-27T09:58:12.317392Z', 'tmms': 1385114311316, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3295, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA0gQC1RsOKKaKG2qcok0='}]}
0:22:54.172716	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04d2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6a9ca24d)
0:22:54.174717	LOG	Server <---------- DUT
0:22:54.176717	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0239, FOpts:), FPort: 00, FRMPayload: 03300700010530d2ad84), MIC: ed0d474e)
0:22:54.178717	LOG	PULL_RESP: Protocol version = 02, Token = b65f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 177461843, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAOQIAhh5iZvt/lHRiTu0NR04='}}
0:22:54.179716	LOG	Server ----------> DUT
0:22:54.182755	LOG	TX_ACK: 02 b65f 05 0016c001ff1025bf
0:22:59.084274	LOG	First uplink received. Open reception window.
0:22:59.187596	LOG	PUSH_ACK: 02 e859 01
0:22:59.189565	LOG	GPS Time from gateway: 1385114316337
0:22:59.190565	LOG	PUSH_DATA: Protocol version = 02, Token = e859, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 180482179, 'time': '2023-11-27T09:58:17.337727Z', 'tmms': 1385114316337, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.8, 'foff': -3299, 'rssi': -49, 'size': 24, 'data': 'QAAAAACE0wQDBwUHAszC+8oXeVU1M9yz'}]}
0:22:59.192573	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 04d3, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 3533dcb3)
0:22:59.194573	LOG	Server <---------- DUT
0:22:59.195604	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:22:59.197878	LOG	Command Answer: 03070507
0:22:59.253705	LOG	MAC command communication completed
0:22:59.256718	LOG	Send Test Command RxAppCntReq process starts
0:23:03.840736	LOG	GPS Time updated: 1385114321093
0:23:03.841698	LOG	PULL_DATA: 02 2a40 02 0016c001ff1025bf
0:23:03.843638	LOG	PULL_ACK: 02 2a40 04
0:23:04.086196	LOG	First uplink received. Open reception window.
0:23:04.199800	LOG	PUSH_ACK: 02 5426 01
0:23:04.201801	LOG	GPS Time from gateway: 1385114321337
0:23:04.202803	LOG	PUSH_DATA: Protocol version = 02, Token = 5426, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 185481899, 'time': '2023-11-27T09:58:22.337445Z', 'tmms': 1385114321337, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 12.8, 'foff': -3295, 'rssi': -49, 'size': 22, 'data': 'QAAAAACC1AQFBwLacCg+2Qw3JWnh/w=='}]}
0:23:04.203801	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 04d4, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 2569e1ff)
0:23:04.205768	LOG	Server <---------- DUT
0:23:04.206800	LOG	MAC Command RXParamSetupAns received
0:23:04.208782	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 023a, FOpts:), FPort: e0, FRMPayload: 09), MIC: ab5d486a)
0:23:04.209800	LOG	Frame command sent to the DUT

0:23:04.211769	LOG	PULL_RESP: Protocol version = 02, Token = e891, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 187481899, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAOgLgf6tdSGo='}}
0:23:04.212807	LOG	Server ----------> DUT
0:23:04.215774	LOG	TX_ACK: 02 e891 05 0016c001ff1025bf
0:23:09.078080	LOG	First uplink received. Open reception window.
0:23:09.187954	LOG	PUSH_ACK: 02 e7ae 01
0:23:09.189920	LOG	GPS Time from gateway: 1385114326329
0:23:09.190920	LOG	PUSH_DATA: Protocol version = 02, Token = e7ae, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 190474302, 'time': '2023-11-27T09:58:27.329849Z', 'tmms': 1385114326329, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3293, 'rssi': -49, 'size': 16, 'data': 'QAAAAACA1QTg8bWrC9bzWw==''}]}
0:23:09.192925	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04d5, FOpts:), FPort: e0, FRMPayload: 09fd00, MIC: 0bd6f35b)
0:23:09.193925	LOG	Server <---------- DUT
0:23:09.195429	LOG	Frame Command Payload in the Answer: 09fd00
0:23:09.200436	LOG	RX Count received by DUT: 253
0:23:09.202435	LOG	Send Test Command RxAppCntReq process completed
0:23:09.205435	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:23:13.870834	LOG	GPS Time updated: 1385114331122
0:23:13.872460	LOG	PULL_DATA: 02 329c 02 0016c001ff1025bf
0:23:13.874467	LOG	PULL_ACK: 02 329c 04
0:23:14.064318	LOG	First uplink received. Open reception window.
0:23:14.171531	LOG	PUSH_ACK: 02 51c9 01
0:23:14.173531	LOG	GPS Time from gateway: 1385114331315
0:23:14.174532	LOG	PUSH_DATA: Protocol version = 02, Token = 51c9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 195460818, 'time': '2023-11-27T09:58:32.316364Z', 'tmms': 1385114331315, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3289, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA1gQC47BwCCso8KqeAM4='}]}
0:23:14.175534	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04d6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: aa9e00ce)
0:23:14.177498	LOG	Server <---------- DUT
0:23:14.179497	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 023b, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 0f38baad)
0:23:14.180497	LOG	Frame command sent to the DUT
0:23:14.181501	LOG	PULL_RESP: Protocol version = 02, Token = 2136, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 197460818, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAOwLg9k8POLqt'}}
0:23:14.182501	LOG	Server ----------> DUT
0:23:14.185502	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:23:14.192536	LOG	Send Test Command TxFramesCtrlReq process starts
0:23:19.068098	LOG	First uplink received. Open reception window.
0:23:19.178864	LOG	PUSH_ACK: 02 7a70 01
0:23:19.180834	LOG	GPS Time from gateway: 1385114336315
0:23:19.181834	LOG	PUSH_DATA: Protocol version = 02, Token = 7a70, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 200460576, 'time': '2023-11-27T09:58:37.316121Z', 'tmms': 1385114336315, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.8, 'foff': -3289, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA1wQCfTtw/hGzDvy2USc='}]}
0:23:19.183839	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04d7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fcb65127)
0:23:19.184838	LOG	Server <---------- DUT

0:23:19.186839	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 023c, FOpts:), FPort: e0, FRMPayload: 0700), MIC: b88e500c)
0:23:19.188839	LOG	Frame command sent to the DUT
0:23:19.189838	LOG	PULL_RESP: Protocol version = 02, Token = 8081, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 201460576, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAPALgqn24jlAM'}}
0:23:19.190838	LOG	Server ----------> DUT
0:23:19.193839	LOG	Send Test Command TxFramesCtrlReq process completed
0:23:19.198383	LOG	Send Test Command TxFramesCtrlReq process starts
0:23:24.020196	LOG	GPS Time updated: 1385114341267
0:23:24.022193	LOG	PULL_DATA: 02 f6c0 02 0016c001ff1025bf
0:23:24.023203	LOG	PULL_ACK: 02 f6c0 04
0:23:24.066599	LOG	First uplink received. Open reception window.
0:23:24.177672	LOG	PUSH_ACK: 02 42f1 01
0:23:24.179639	LOG	GPS Time from gateway: 1385114341315
0:23:24.181658	LOG	PUSH_DATA: Protocol version = 02, Token = 42f1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 205460321, 'time': '2023-11-27T09:58:42.315865Z', 'tmms': 1385114341315, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3284, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA2AQCu1Twg2+5rtPayh8='}]}
0:23:24.182663	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04d8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d3daca1f)
0:23:24.183663	LOG	Server <---------- DUT
0:23:24.185663	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 023d, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 8c76c39f)
0:23:24.187663	LOG	Frame command sent to the DUT
0:23:24.188663	LOG	PULL_RESP: Protocol version = 02, Token = 43da, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 206460321, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAPQLgnzSMdsOf'}}
0:23:24.189663	LOG	Server ----------> DUT
0:23:24.193664	LOG	Send Test Command TxFramesCtrlReq process completed
0:23:24.197174	LOG	Send Test Command TxFramesCtrlReq process starts
0:23:29.061917	LOG	First uplink received. Open reception window.
0:23:29.164376	LOG	PUSH_ACK: 02 7117 01
0:23:29.166414	LOG	GPS Time from gateway: 1385114346315
0:23:29.167383	LOG	PUSH_DATA: Protocol version = 02, Token = 7117, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 210460067, 'time': '2023-11-27T09:58:47.315610Z', 'tmms': 1385114346315, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3280, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA2QQC6RIMrVtcSKTyMNI='}]}
0:23:29.169415	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04d9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a4f230d2)
0:23:29.170415	LOG	Server <---------- DUT
0:23:29.172383	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 023e, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 371b6700)
0:23:29.174415	LOG	Frame command sent to the DUT
0:23:29.175414	LOG	PULL_RESP: Protocol version = 02, Token = 1fed, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 211460067, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAPgLg2SA3G2cA'}}
0:23:29.176414	LOG	Server ----------> DUT
0:23:29.179381	LOG	Send Test Command TxFramesCtrlReq process completed
0:23:29.183386	LOG	Send Test Command TxFramesCtrlReq process starts
0:23:34.069726	LOG	First uplink received. Open reception window.

0:23:34.180014	LOG	PUSH_ACK: 02 b08c 01
0:23:34.182019	LOG	GPS Time from gateway: 1385114351314
0:23:34.184022	LOG	PUSH_DATA: Protocol version = 02, Token = b08c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 215459811, 'time': '2023-11-27T09:58:52.315352Z', 'tmms': 1385114351314, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3280, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA2gQC1xHWo27NZR3vJf0='}]}
0:23:34.185052	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04da, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1def25fd)
0:23:34.186020	LOG	Server <---------- DUT
0:23:34.188017	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 023f, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 11ef3c88)
0:23:34.190017	LOG	Frame command sent to the DUT
0:23:34.191019	LOG	PULL_RESP: Protocol version = 02, Token = 8dcf, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 216459811, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAPwLgvqMR7zyI'}}
0:23:34.192017	LOG	Server ----------> DUT
0:23:34.195536	LOG	Send Test Command TxFramesCtrlReq process completed
0:23:34.205576	LOG	Send Test Command TxFramesCtrlReq process starts
0:23:39.062187	LOG	First uplink received. Open reception window.
0:23:39.168811	LOG	PUSH_ACK: 02 fe39 01
0:23:39.170779	LOG	GPS Time from gateway: 1385114356314
0:23:39.171784	LOG	PUSH_DATA: Protocol version = 02, Token = fe39, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 220459554, 'time': '2023-11-27T09:58:57.315096Z', 'tmms': 1385114356314, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3282, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA2wQC3lIKuWB3SnyREBw='}]}
0:23:39.173779	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04db, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7c91101c)
0:23:39.174779	LOG	Server <---------- DUT
0:23:39.176779	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0240, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 3191665c)
0:23:39.178780	LOG	Frame command sent to the DUT
0:23:39.179779	LOG	PULL_RESP: Protocol version = 02, Token = 3541, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 221459554, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'oAAAAAAAQALgr8Zw0EeSotVNkmlE6VcsHy+hZYi3zJNM5TjmNAYVFdGQF0vYmIDDZjmOR4XPvyxomQQsMZFmXA=='}}
0:23:39.180779	LOG	Server ----------> DUT
0:23:39.183783	LOG	Send Test Command TxFramesCtrlReq process completed
0:23:39.186816	LOG	Check previous uplink data rate process starts
0:23:39.191785	LOG	Uplink received with expected Data Rate
0:23:39.193816	LOG	Check ACK bit in next uplink process starts
0:23:43.060236	LOG	#**********CURRENT BEACON SENT**********#
0:23:43.061204	LOG	PULL_RESP: Protocol version = 02, Token = c4fc, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385114368000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAK49SJgcAAAAAAAAAAA='}}
0:23:43.063714	LOG	Server ----------> DUT
0:23:43.064719	LOG	#**********#

0:23:43.074224	LOG	#**********NEXT BEACON QUEUED**********#
0:23:43.076225	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385114496000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAK49SHtoAAAAAAAAAAA='}}
0:23:43.077225	LOG	Server ----------> DUT
0:23:43.078226	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 802b8f52, CRC1: 1eda, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385114496000
0:23:43.080226	LOG	#**********#
0:23:43.081225	LOG	Next BEACON scheduled at GPS time (ms): 1385114624000
0:23:43.083226	LOG	First uplink received. Open reception window.
0:23:43.084226	LOG	TX_ACK: 02 c4fc 05 0016c001ff1025bf
0:23:43.187191	LOG	PUSH_ACK: 02 9215 01
0:23:43.188895	LOG	GPS Time from gateway: 1385114360307
0:23:43.190894	LOG	PUSH_DATA: Protocol version = 02, Token = 9215, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 224452006, 'time': '2023-11-27T09:59:01.307547Z', 'tmms': 1385114360307, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3305, 'rssi': -50, 'size': 12, 'data': 'QAAAAACg3ARnFU7d'}]}
0:23:43.191927	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 04dc, FOpts:), FPort: , FRMPayload: , MIC: 67154edd)
0:23:43.192926	LOG	Server <---------- DUT
0:23:43.194894	LOG	ACK bit in FCtrl field is set
0:23:43.197438	LOG	Check ACK bit in next uplink tested successfully
0:23:43.204404	LOG	Send Test Command RxAppCntReq process starts
0:23:44.320956	LOG	GPS Time updated: 1385114361542
0:23:44.321992	LOG	PULL_DATA: 02 27e6 02 0016c001ff1025bf
0:23:44.322998	LOG	PULL_ACK: 02 27e6 04
0:23:49.065646	LOG	First uplink received. Open reception window.
0:23:49.167017	LOG	PUSH_ACK: 02 3b0f 01
0:23:49.168520	LOG	GPS Time from gateway: 1385114366314
0:23:49.170524	LOG	PUSH_DATA: Protocol version = 02, Token = 3b0f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 230459028, 'time': '2023-11-27T09:59:07.314568Z', 'tmms': 1385114366314, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3278, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA3QQCo/Qe1ISQWGbvIRw='}]}
0:23:49.171524	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04dd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 66ef211c)
0:23:49.172560	LOG	Server <---------- DUT
0:23:49.174559	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0241, FOpts:), FPort: e0, FRMPayload: 09), MIC: 4c7759be)
0:23:49.176526	LOG	Frame command sent to the DUT
0:23:49.177558	LOG	PULL_RESP: Protocol version = 02, Token = fdd3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 232459028, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAQQLgo0x3Wb4='}}
0:23:49.178562	LOG	Server ----------> DUT
0:23:49.180527	LOG	TX_ACK: 02 fdd3 05 0016c001ff1025bf
0:23:52.436343	LOG	First uplink received. Open reception window.
0:23:52.547036	LOG	PUSH_ACK: 02 abe6 01
0:23:52.549004	LOG	GPS Time from gateway: 1385114369686
0:23:52.550018	LOG	PUSH_DATA: Protocol version = 02, Token = abe6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 233831002, 'time': '2023-11-27T09:59:10.686542Z',

		'tmms': 1385114369686, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.0, 'foff': -3295, 'rssi': -50, 'size': 16, 'data': 'QAAAAACA3gTgYVrsW6/kcg=='}]}
0:23:52.551003	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04de, FOpts:), FPort: e0, FRMPayload: 090401, MIC: 5bafe472)
0:23:52.553003	LOG	Server <---------- DUT
0:23:52.554004	LOG	Frame Command Payload in the Answer: 090401
0:23:52.558014	LOG	RX Count received by DUT: 260
0:23:52.561015	LOG	Send Test Command RxAppCntReq process completed
0:23:52.567791	LOG	Send MAC command block process starts
0:23:54.440776	LOG	GPS Time updated: 1385114371690
0:23:54.441776	LOG	PULL_DATA: 02 3625 02 0016c001ff1025bf
0:23:54.443777	LOG	PULL_ACK: 02 3625 04
0:23:59.066946	LOG	First uplink received. Open reception window.
0:23:59.173516	LOG	PUSH_ACK: 02 567f 01
0:23:59.175514	LOG	GPS Time from gateway: 1385114376313
0:23:59.176515	LOG	PUSH_DATA: Protocol version = 02, Token = 567f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 240458511, 'time': '2023-11-27T09:59:17.314048Z', 'tmms': 1385114376313, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.0, 'foff': -3284, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA3wQCr4YDxG9xd5NjX8I='}]}
0:23:59.177514	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04df, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 93635fc2)
0:23:59.179018	LOG	Server <---------- DUT
0:23:59.181025	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0242, FOpts:), FPort: 00, FRMPayload: 03300700010540d2ad84), MIC: 5208ec8a)
0:23:59.183060	LOG	PULL_RESP: Protocol version = 02, Token = 964d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 242458511, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAQgIALqmmoBxeLxxKGlII7Io='}}
0:23:59.184062	LOG	Server ----------> DUT
0:23:59.187028	LOG	TX_ACK: 02 964d 05 0016c001ff1025bf
0:24:04.079626	LOG	First uplink received. Open reception window.
0:24:04.190308	LOG	PUSH_ACK: 02 914c 01
0:24:04.192309	LOG	GPS Time from gateway: 1385114381333
0:24:04.193324	LOG	PUSH_DATA: Protocol version = 02, Token = 914c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 245478863, 'time': '2023-11-27T09:59:22.334401Z', 'tmms': 1385114381333, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.2, 'foff': -3287, 'rssi': -50, 'size': 24, 'data': 'QAAAAACE4AQDBwUHAuk7Z5YfPWdpee+V'}]}
0:24:04.194309	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 04e0, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 6979ef95)
0:24:04.196817	LOG	Server <---------- DUT
0:24:04.198826	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:24:04.199816	LOG	Command Answer: 03070507
0:24:04.256169	LOG	MAC command communication completed
0:24:04.258757	LOG	Send Test Command RxAppCntReq process starts
0:24:04.640480	LOG	GPS Time updated: 1385114381894
0:24:04.641476	LOG	PULL_DATA: 02 3fd3 02 0016c001ff1025bf
0:24:04.643449	LOG	PULL_ACK: 02 3fd3 04
0:24:09.081178	LOG	First uplink received. Open reception window.
0:24:09.185933	LOG	PUSH_ACK: 02 3e25 01
0:24:09.187901	LOG	GPS Time from gateway: 1385114386333

0:24:09.188901	LOG	PUSH_DATA: Protocol version = 02, Token = 3e25, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 250478585, 'time': '2023-11-27T09:59:27.334122Z', 'tmms': 1385114386333, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3284, 'rssi': -49, 'size': 22, 'data': 'QAAAAACC4QQFBwLDGxYaVpvOHMO+AA=='}]}
0:24:09.190405	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 04e1, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 1cc3be00)
0:24:09.191410	LOG	Server <---------- DUT
0:24:09.193411	LOG	MAC Command RXParamSetupAns received
0:24:09.194410	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0243, FOpts:), FPort: e0, FRMPayload: 09), MIC: e673f964)
0:24:09.195914	LOG	Frame command sent to the DUT
0:24:09.197920	LOG	PULL_RESP: Protocol version = 02, Token = 08d2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 252478585, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAQwLg1+Zz+WQ='}}
0:24:09.198919	LOG	Server ----------> DUT
0:24:09.201919	LOG	TX_ACK: 02 08d2 05 0016c001ff1025bf
0:24:12.456402	LOG	First uplink received. Open reception window.
0:24:12.560964	LOG	PUSH_ACK: 02 ddaf 01
0:24:12.562932	LOG	GPS Time from gateway: 1385114389705
0:24:12.563930	LOG	PUSH_DATA: Protocol version = 02, Token = ddaf, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 253850415, 'time': '2023-11-27T09:59:30.705951Z', 'tmms': 1385114389705, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.0, 'foff': -3297, 'rssi': -50, 'size': 16, 'data': 'QAAAAACA4gTgsl/CaPCR6A=='}]}
0:24:12.565932	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04e2, FOpts:), FPort: e0, FRMPayload: 090501, MIC: 68f091e8)
0:24:12.566931	LOG	Server <---------- DUT
0:24:12.568956	LOG	Frame Command Payload in the Answer: 090501
0:24:12.573441	LOG	RX Count received by DUT: 261
0:24:12.575440	LOG	Send Test Command RxAppCntReq process completed
0:24:12.579463	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:24:14.660275	LOG	GPS Time updated: 1385114391910
0:24:14.662276	LOG	PULL_DATA: 02 3d8d 02 0016c001ff1025bf
0:24:14.663292	LOG	PULL_ACK: 02 3d8d 04
0:24:19.066179	LOG	First uplink received. Open reception window.
0:24:19.175068	LOG	PUSH_ACK: 02 3c0d 01
0:24:19.177037	LOG	GPS Time from gateway: 1385114396312
0:24:19.178037	LOG	PUSH_DATA: Protocol version = 02, Token = 3c0d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 260457476, 'time': '2023-11-27T09:59:37.313011Z', 'tmms': 1385114396312, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3283, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA4wQCMgSpfCx7ZV7/e+o='}]}
0:24:19.179037	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04e3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5eff7bea)
0:24:19.181042	LOG	Server <---------- DUT
0:24:19.183047	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0244, FOpts:), FPort: e0, FRMPayload: 0500), MIC: da8077d3)
0:24:19.184047	LOG	Frame command sent to the DUT
0:24:19.185047	LOG	PULL_RESP: Protocol version = 02, Token = 961f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 262457476, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAARALgNcXagHfT'}}
0:24:19.187047	LOG	Server ----------> DUT
0:24:19.189046	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed

0:24:19.196550	LOG	Send Test Command TxFramesCtrlReq process starts
0:24:24.065216	LOG	First uplink received. Open reception window.
0:24:24.180953	LOG	PUSH_ACK: 02 46d1 01
0:24:24.182958	LOG	GPS Time from gateway: 1385114401312
0:24:24.183957	LOG	PUSH_DATA: Protocol version = 02, Token = 46d1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 265457217, 'time': '2023-11-27T09:59:42.312751Z', 'tmms': 1385114401312, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3290, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA5AQCL9OMKCV/VeWmYF0='}]}
0:24:24.185961	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04e4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e5a6605d)
0:24:24.186961	LOG	Server <---------- DUT
0:24:24.189013	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0245, FOpts:), FPort: e0, FRMPayload: 0700), MIC: f1f2b4ec)
0:24:24.190995	LOG	Frame command sent to the DUT
0:24:24.191961	LOG	PULL_RESP: Protocol version = 02, Token = 0e91, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 266457217, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAARQLgm3Hx8rTs'}}
0:24:24.192997	LOG	Server ----------> DUT
0:24:24.196471	LOG	Send Test Command TxFramesCtrlReq process completed
0:24:24.200476	LOG	Send Test Command TxFramesCtrlReq process starts
0:24:24.819411	LOG	GPS Time updated: 1385114402066
0:24:24.821986	LOG	PULL_DATA: 02 21d8 02 0016c001ff1025bf
0:24:24.822985	LOG	PULL_ACK: 02 21d8 04
0:24:29.062798	LOG	First uplink received. Open reception window.
0:24:29.173022	LOG	PUSH_ACK: 02 bf21 01
0:24:29.175017	LOG	GPS Time from gateway: 1385114406312
0:24:29.175985	LOG	PUSH_DATA: Protocol version = 02, Token = bf21, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 270456972, 'time': '2023-11-27T09:59:47.312504Z', 'tmms': 1385114406312, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3288, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA5QQCGWuJrEmgVmle1Ig='}]}
0:24:29.176984	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04e5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 695ed488)
0:24:29.178985	LOG	Server <---------- DUT
0:24:29.181016	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0246, FOpts:), FPort: e0, FRMPayload: 0700), MIC: b3911a3b)
0:24:29.182053	LOG	Frame command sent to the DUT
0:24:29.183054	LOG	PULL_RESP: Protocol version = 02, Token = 82ef, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 271456972, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAARgLgjLGzkRo7'}}
0:24:29.185053	LOG	Server ----------> DUT
0:24:29.188021	LOG	Send Test Command TxFramesCtrlReq process completed
0:24:29.191066	LOG	Send Test Command TxFramesCtrlReq process starts
0:24:34.059193	LOG	First uplink received. Open reception window.
0:24:34.173016	LOG	PUSH_ACK: 02 8e03 01
0:24:34.175017	LOG	GPS Time from gateway: 1385114411311
0:24:34.176022	LOG	PUSH_DATA: Protocol version = 02, Token = 8e03, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 275456711, 'time': '2023-11-27T09:59:52.312244Z', 'tmms': 1385114411311, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 11.5, 'foff': -3290, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA5gQCtce2f52OkRtYWlE='}]}
0:24:34.178017	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04e6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1b585a51)

0:24:34.179017	LOG	Server <---------- DUT
0:24:34.181016	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0247, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 06b917d7)
0:24:34.183038	LOG	Frame command sent to the DUT
0:24:34.184021	LOG	PULL_RESP: Protocol version = 02, Token = 624f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 276456711, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAARwLgiTAGuRfX'}}
0:24:34.185022	LOG	Server ----------> DUT
0:24:34.188021	LOG	Send Test Command TxFramesCtrlReq process completed
0:24:34.192022	LOG	Send Test Command TxFramesCtrlReq process starts
0:24:35.020025	LOG	GPS Time updated: 1385114412272
0:24:35.022025	LOG	PULL_DATA: 02 39c4 02 0016c001ff1025bf
0:24:35.024039	LOG	PULL_ACK: 02 39c4 04
0:24:39.064102	LOG	First uplink received. Open reception window.
0:24:39.180081	LOG	PUSH_ACK: 02 44b9 01
0:24:39.182053	LOG	GPS Time from gateway: 1385114416311
0:24:39.183053	LOG	PUSH_DATA: Protocol version = 02, Token = 44b9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 280456453, 'time': '2023-11-27T09:59:57.311985Z', 'tmms': 1385114416311, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.5, 'foff': -3288, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA5wQCpMblKp3BY8DpYjw='}]}
0:24:39.185053	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04e7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c0e9623c)
0:24:39.186053	LOG	Server <---------- DUT
0:24:39.188053	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0248, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 82506aa9)
0:24:39.190060	LOG	Frame command sent to the DUT
0:24:39.191053	LOG	PULL_RESP: Protocol version = 02, Token = 831c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 281456453, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAASALghNiCUGqp'}}
0:24:39.192053	LOG	Server ----------> DUT
0:24:39.195063	LOG	Send Test Command TxFramesCtrlReq process completed
0:24:39.205168	LOG	Send Test Command TxFramesCtrlReq process starts
0:24:44.063256	LOG	First uplink received. Open reception window.
0:24:44.171017	LOG	PUSH_ACK: 02 8d1a 01
0:24:44.172987	LOG	GPS Time from gateway: 1385114421311
0:24:44.173998	LOG	PUSH_DATA: Protocol version = 02, Token = 8d1a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 285456188, 'time': '2023-11-27T10:00:02.311719Z', 'tmms': 1385114421311, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.0, 'foff': -3290, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA6AQCmYp0BNROEcNyAoo='}]}
0:24:44.175986	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04e8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c372028a)
0:24:44.176985	LOG	Server <---------- DUT
0:24:44.178999	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0249, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: bd1d6917)
0:24:44.179985	LOG	Frame command sent to the DUT
0:24:44.181991	LOG	PULL_RESP: Protocol version = 02, Token = 465c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 286456188, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data':

		'oAAAAAAASQLgjiICpEwdLIdB9PDD+y8T+2k14bklqwy6iEAF5cLvSmdZvfvRzbuTkHXmjwrtlMt0XgcCvR1pFw==''}}
0:24:44.182991	LOG	Server ----------> DUT
0:24:44.185995	LOG	Send Test Command TxFramesCtrlReq process completed
0:24:44.188991	LOG	Check previous uplink data rate process starts
0:24:44.193038	LOG	Uplink received with expected Data Rate
0:24:44.196509	LOG	Check ACK bit in next uplink process starts
0:24:45.030572	LOG	GPS Time updated: 1385114422278
0:24:45.031571	LOG	PULL_DATA: 02 a96a 02 0016c001ff1025bf
0:24:45.033573	LOG	PULL_ACK: 02 a96a 04
0:24:48.054961	LOG	First uplink received. Open reception window.
0:24:48.167362	LOG	PUSH_ACK: 02 f705 01
0:24:48.169391	LOG	GPS Time from gateway: 1385114425303
0:24:48.170365	LOG	PUSH_DATA: Protocol version = 02, Token = f705, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 289448345, 'time': '2023-11-27T10:00:06.303874Z', 'tmms': 1385114425303, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.0, 'foff': -3311, 'rssi': -51, 'size': 12, 'data': 'QAAAAACg6QQnKJQp'}]}
0:24:48.171398	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 04e9, FOpts:), FPort: , FRMPayload: , MIC: 27289429)
0:24:48.173365	LOG	Server <---------- DUT
0:24:48.174397	LOG	ACK bit in FCtrl field is set
0:24:48.177401	LOG	Check ACK bit in next uplink tested successfully
0:24:48.182436	LOG	Send Test Command RxAppCntReq process starts
0:24:54.056564	LOG	First uplink received. Open reception window.
0:24:54.170315	LOG	PUSH_ACK: 02 403a 01
0:24:54.172316	LOG	GPS Time from gateway: 1385114431310
0:24:54.173320	LOG	PUSH_DATA: Protocol version = 02, Token = 403a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 295455681, 'time': '2023-11-27T10:00:12.311209Z', 'tmms': 1385114431310, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.2, 'foff': -3290, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA6gQC60i8poWA4b4+LUQ='}]}
0:24:54.174317	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04ea, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: be3e2d44)
0:24:54.176317	LOG	Server <---------- DUT
0:24:54.177317	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 024a, FOpts:), FPort: e0, FRMPayload: 09), MIC: c3e8a78c)
0:24:54.179316	LOG	Frame command sent to the DUT
0:24:54.180317	LOG	PULL_RESP: Protocol version = 02, Token = 840e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 297455681, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAASgLgaMPop4w='}}
0:24:54.181322	LOG	Server ----------> DUT
0:24:54.184320	LOG	TX_ACK: 02 840e 05 0016c001ff1025bf
0:24:55.230313	LOG	GPS Time updated: 1385114432484
0:24:55.231278	LOG	PULL_DATA: 02 ae61 02 0016c001ff1025bf
0:24:55.233279	LOG	PULL_ACK: 02 ae61 04
0:24:57.432152	LOG	First uplink received. Open reception window.
0:24:57.546063	LOG	PUSH_ACK: 02 1294 01
0:24:57.548031	LOG	GPS Time from gateway: 1385114434682
0:24:57.549040	LOG	PUSH_DATA: Protocol version = 02, Token = 1294, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 298827922, 'time': '2023-11-27T10:00:15.683451Z', 'tmms': 1385114434682, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.8, 'foff': -3303, 'rssi': -51, 'size': 16, 'data': 'QAAAAACA6wTgWtIUbHD9Rg=='}]}

0:24:57.550066	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04eb, FOpts:), FPort: e0, FRMPayload: 090c01, MIC: 6c70fd46)
0:24:57.552075	LOG	Server <---------- DUT
0:24:57.553064	LOG	Frame Command Payload in the Answer: 090c01
0:24:57.557067	LOG	RX Count received by DUT: 268
0:24:57.560068	LOG	Send Test Command RxAppCntReq process completed
0:24:57.566095	LOG	Send MAC command block process starts
0:25:04.061387	LOG	First uplink received. Open reception window.
0:25:04.175944	LOG	PUSH_ACK: 02 aad1 01
0:25:04.177913	LOG	GPS Time from gateway: 1385114441310
0:25:04.178916	LOG	PUSH_DATA: Protocol version = 02, Token = aad1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 305455159, 'time': '2023-11-27T10:00:22.310687Z', 'tmms': 1385114441310, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.8, 'foff': -3287, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA7AQCN6uKDLMUG8nnLSQ='}]}
0:25:04.180923	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04ec, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c9e72d24)
0:25:04.181927	LOG	Server <---------- DUT
0:25:04.183926	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 024b, FOpts:), FPort: 00, FRMPayload: 03300700010550d2ad84), MIC: 58e5ef2c)
0:25:04.185927	LOG	PULL_RESP: Protocol version = 02, Token = d3a2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 307455159, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAASwIAEJBHVuUonV3nh1jl7yw='}}
0:25:04.186926	LOG	Server ----------> DUT
0:25:04.189927	LOG	TX_ACK: 02 d3a2 05 0016c001ff1025bf
0:25:05.439925	LOG	GPS Time updated: 1385114442688
0:25:05.441898	LOG	PULL_DATA: 02 b502 02 0016c001ff1025bf
0:25:05.443676	LOG	PULL_ACK: 02 b502 04
0:25:09.505029	LOG	First uplink received. Open reception window.
0:25:09.607718	LOG	PUSH_ACK: 02 2543 01
0:25:09.609719	LOG	GPS Time from gateway: 1385114446754
0:25:09.610721	LOG	PUSH_DATA: Protocol version = 02, Token = 2543, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 310898538, 'time': '2023-11-27T10:00:27.754065Z', 'tmms': 1385114446754, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.8, 'foff': -3289, 'rssi': -51, 'size': 24, 'data': 'QAAAAACE7QQDBwUHAsPyzl2QgTuDuoFd'}]}
0:25:09.612720	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 04ed, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 83ba815d)
0:25:09.613721	LOG	Server <---------- DUT
0:25:09.615719	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:25:09.616719	LOG	Command Answer: 03070507
0:25:09.675122	LOG	MAC command communication completed
0:25:09.678049	LOG	Send Test Command RxAppCntReq process starts
0:25:14.281947	LOG	First uplink received. Open reception window.
0:25:14.395697	LOG	PUSH_ACK: 02 055e 01
0:25:14.397697	LOG	GPS Time from gateway: 1385114451536
0:25:14.398699	LOG	PUSH_DATA: Protocol version = 02, Token = 055e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 315680300, 'time': '2023-11-27T10:00:32.535826Z', 'tmms': 1385114451536, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.8, 'foff': -3286, 'rssi': -51, 'size': 22, 'data': 'QAAAAACC7gQFBwJo9xo5MMlr3pwomQ=='}]}

0:25:14.399699	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 04ee, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: de9c2899)
0:25:14.401704	LOG	Server <---------- DUT
0:25:14.402740	LOG	MAC Command RXParamSetupAns received
0:25:14.404705	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 024c, FOpts:), FPort: e0, FRMPayload: 09), MIC: a4cb77c1)
0:25:14.405736	LOG	Frame command sent to the DUT
0:25:14.407705	LOG	PULL_RESP: Protocol version = 02, Token = 9aa0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 317680300, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAATALgxaTLd8E='}}
0:25:14.408736	LOG	Server ----------> DUT
0:25:14.412710	LOG	TX_ACK: 02 9aa0 05 0016c001ff1025bf
0:25:15.460088	LOG	GPS Time updated: 1385114452716
0:25:15.461056	LOG	PULL_DATA: 02 072d 02 0016c001ff1025bf
0:25:15.463061	LOG	PULL_ACK: 02 072d 04
0:25:17.660982	LOG	First uplink received. Open reception window.
0:25:17.762690	LOG	PUSH_ACK: 02 ee4b 01
0:25:17.764658	LOG	GPS Time from gateway: 1385114454907
0:25:17.766672	LOG	PUSH_DATA: Protocol version = 02, Token = ee4b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 319051773, 'time': '2023-11-27T10:00:35.907299Z', 'tmms': 1385114454907, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.8, 'foff': -3299, 'rssi': -51, 'size': 16, 'data': 'QAAAAACA7wTg44iVAxiEfA==''}]}
0:25:17.767691	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04ef, FOpts:), FPort: e0, FRMPayload: 090d01, MIC: 0318847c)
0:25:17.769660	LOG	Server <---------- DUT
0:25:17.771660	LOG	Frame Command Payload in the Answer: 090d01
0:25:17.775670	LOG	RX Count received by DUT: 269
0:25:17.777669	LOG	Send Test Command RxAppCntReq process completed
0:25:17.780668	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:25:24.264684	LOG	First uplink received. Open reception window.
0:25:24.374365	LOG	PUSH_ACK: 02 cf74 01
0:25:24.376334	LOG	GPS Time from gateway: 1385114461515
0:25:24.377333	LOG	PUSH_DATA: Protocol version = 02, Token = cf74, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 325659199, 'time': '2023-11-27T10:00:42.514723Z', 'tmms': 1385114461515, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.2, 'foff': -3284, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA8AQCNsJbTfspvkUy+zY='}]}
0:25:24.379341	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04f0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4532fb36)
0:25:24.380347	LOG	Server <---------- DUT
0:25:24.382356	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 024d, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 98f28a64)
0:25:24.383860	LOG	Frame command sent to the DUT
0:25:24.385866	LOG	PULL_RESP: Protocol version = 02, Token = fd23, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 327659199, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAATQLgPMGY8opk'}}
0:25:24.386866	LOG	Server ----------> DUT
0:25:24.389974	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:25:24.395867	LOG	Send Test Command TxFramesCtrlReq process starts
0:25:25.640465	LOG	GPS Time updated: 1385114462890
0:25:25.641464	LOG	PULL_DATA: 02 e478 02 0016c001ff1025bf
0:25:25.643468	LOG	PULL_ACK: 02 e478 04
0:25:29.262097	LOG	First uplink received. Open reception window.

0:25:29.367882	LOG	PUSH_ACK: 02 dead 01
0:25:29.369459	LOG	GPS Time from gateway: 1385114466514
0:25:29.371458	LOG	PUSH_DATA: Protocol version = 02, Token = dead, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 330658933, 'time': '2023-11-27T10:00:47.514457Z', 'tmms': 1385114466514, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.5, 'foff': -3286, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA8QQCjX6LzvHMHEoJWsc='}]}
0:25:29.372425	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04f1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4a095ac7)
0:25:29.374460	LOG	Server <---------- DUT
0:25:29.376427	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 024e, FOpts:), FPort: e0, FRMPayload: 0700), MIC: a38544a7)
0:25:29.377458	LOG	Frame command sent to the DUT
0:25:29.379427	LOG	PULL_RESP: Protocol version = 02, Token = 05d5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 331658933, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAATgLgBLyjhUSn'}}
0:25:29.380458	LOG	Server ----------> DUT
0:25:29.382458	LOG	Send Test Command TxFramesCtrlReq process completed
0:25:29.387000	LOG	Send Test Command TxFramesCtrlReq process starts
0:25:34.263666	LOG	First uplink received. Open reception window.
0:25:34.371520	LOG	PUSH_ACK: 02 b351 01
0:25:34.373055	LOG	GPS Time from gateway: 1385114471514
0:25:34.375112	LOG	PUSH_DATA: Protocol version = 02, Token = b351, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 335658686, 'time': '2023-11-27T10:00:52.514209Z', 'tmms': 1385114471514, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.2, 'foff': -3283, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA8gQC3GNQXe6ZKlOv1+M='}]}
0:25:34.376098	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04f2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 53afd7e3)
0:25:34.378060	LOG	Server <---------- DUT
0:25:34.379059	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 024f, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 2ac7ca75)
0:25:34.381059	LOG	Frame command sent to the DUT
0:25:34.382061	LOG	PULL_RESP: Protocol version = 02, Token = 5aa4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 336658686, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAATwLgKxEqx8p1'}}
0:25:34.384059	LOG	Server ----------> DUT
0:25:34.386567	LOG	Send Test Command TxFramesCtrlReq process completed
0:25:34.391567	LOG	Send Test Command TxFramesCtrlReq process starts
0:25:35.850101	LOG	GPS Time updated: 1385114473101
0:25:35.851101	LOG	PULL_DATA: 02 b2f3 02 0016c001ff1025bf
0:25:35.853070	LOG	PULL_ACK: 02 b2f3 04
0:25:39.258713	LOG	First uplink received. Open reception window.
0:25:39.368836	LOG	PUSH_ACK: 02 8b60 01
0:25:39.370802	LOG	GPS Time from gateway: 1385114476514
0:25:39.372802	LOG	PUSH_DATA: Protocol version = 02, Token = 8b60, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 340658419, 'time': '2023-11-27T10:00:57.513941Z', 'tmms': 1385114476514, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.8, 'foff': -3282, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA8wQC2nSDYGz971eiJz0='}]}
0:25:39.373802	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04f3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 57a2273d)
0:25:39.375824	LOG	Server <---------- DUT

0:25:39.376834	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0250, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 9409ea64)
0:25:39.377837	LOG	Frame command sent to the DUT
0:25:39.380412	LOG	PULL_RESP: Protocol version = 02, Token = 81b9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 341658419, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAUALgXP6UCepk'}}
0:25:39.381411	LOG	Server ----------> DUT
0:25:39.383915	LOG	Send Test Command TxFramesCtrlReq process completed
0:25:39.387919	LOG	Send Test Command TxFramesCtrlReq process starts
0:25:44.258825	LOG	First uplink received. Open reception window.
0:25:44.361496	LOG	PUSH_ACK: 02 f4ff 01
0:25:44.363465	LOG	GPS Time from gateway: 1385114481514
0:25:44.364465	LOG	PUSH_DATA: Protocol version = 02, Token = f4ff, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 345658161, 'time': '2023-11-27T10:01:02.513682Z', 'tmms': 1385114481514, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.8, 'foff': -3282, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA9AQCaczSddCKFA0+BiY='}]}
0:25:44.366464	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04f4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0d3e0626)
0:25:44.367464	LOG	Server <---------- DUT
0:25:44.369470	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0251, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 6cbc54f7)
0:25:44.370469	LOG	Frame command sent to the DUT
0:25:44.372470	LOG	PULL_RESP: Protocol version = 02, Token = 44ed, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 346658161, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAUQLgOLdsvFT3'}}
0:25:44.373469	LOG	Server ----------> DUT
0:25:44.376470	LOG	Send Test Command TxFramesCtrlReq process completed
0:25:44.386523	LOG	Send Test Command TxFramesCtrlReq process starts
0:25:46.049567	LOG	GPS Time updated: 1385114483305
0:25:46.051567	LOG	PULL_DATA: 02 6fa9 02 0016c001ff1025bf
0:25:46.052567	LOG	PULL_ACK: 02 6fa9 04
0:25:49.259000	LOG	#**********CURRENT BEACON SENT**********#
0:25:49.261381	LOG	PULL_RESP: Protocol version = 02, Token = 39b0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385114496000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAK49SHtoAAAAAAAAAAA='}}
0:25:49.262365	LOG	Server ----------> DUT
0:25:49.264365	LOG	#**********#
0:25:49.274401	LOG	#**********NEXT BEACON QUEUED**********#
0:25:49.275438	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385114624000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAALI9StoIAAAAAAAAAAA='}}
0:25:49.277437	LOG	Server ----------> DUT
0:25:49.278406	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 002c8f52, CRC1: b682, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385114624000
0:25:49.279406	LOG	#**********#
0:25:49.281440	LOG	Next BEACON scheduled at GPS time (ms): 1385114752000

0:25:49.282438	LOG	First uplink received. Open reception window.
0:25:49.284406	LOG	TX_ACK: 02 39b0 05 0016c001ff1025bf
0:25:49.395917	LOG	PUSH_ACK: 02 ec07 01
0:25:49.397919	LOG	GPS Time from gateway: 1385114486513
0:25:49.399918	LOG	PUSH_DATA: Protocol version = 02, Token = ec07, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 350657905, 'time': '2023-11-27T10:01:07.513424Z', 'tmms': 1385114486513, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.5, 'foff': -3283, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA9QQCkA+LaTUNkNfZC1Q='}]}
0:25:49.400923	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04f5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d7d90b54)
0:25:49.401923	LOG	Server <---------- DUT
0:25:49.403923	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0252, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: a40c9336)
0:25:49.404923	LOG	Frame command sent to the DUT
0:25:49.406923	LOG	PULL_RESP: Protocol version = 02, Token = a12d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 351657905, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'oAAAAAAAUgLgoYgnx55pwV0pOCWpW5vwtxLPbOQTJYsKBNvaxuxSMqxGz9J9a+Pvy9ugeKKZiOdtw1pBpAyTNg==''}}
0:25:49.407922	LOG	Server ----------> DUT
0:25:49.410926	LOG	Send Test Command TxFramesCtrlReq process completed
0:25:49.413924	LOG	Check previous uplink data rate process starts
0:25:49.418432	LOG	Uplink received with expected Data Rate
0:25:49.422435	LOG	Check ACK bit in next uplink process starts
0:25:53.253280	LOG	Multiple frames received. Selecting the correct frame...
0:25:53.255281	LOG	Frame selected: {'jver': 1, 'tmst': 354650375, 'time': '2023-11-27T10:01:11.505895Z', 'tmms': 1385114490506, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.0, 'foff': -3307, 'rssi': -51, 'size': 12, 'data': 'QAAAAACg9gTC1G+g'}
0:25:53.256248	LOG	First uplink received. Open reception window.
0:25:53.371950	LOG	PUSH_ACK: 02 34e1 01
0:25:53.373925	LOG	GPS Time from gateway: 1385114490506
0:25:53.375918	LOG	PUSH_DATA: Protocol version = 02, Token = 34e1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 354650375, 'time': '2023-11-27T10:01:11.505895Z', 'tmms': 1385114490506, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.0, 'foff': -3307, 'rssi': -51, 'size': 12, 'data': 'QAAAAACg9gTC1G+g'}, {'jver': 1, 'tmst': 354650378, 'time': '2023-11-27T10:01:11.505897Z', 'tmms': 1385114490506, 'chan': 7, 'rfch': 0, 'freq': 867.9, 'mid': 11, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -117, 'lsnr': -10.2, 'foff': -28064, 'rssi': -108, 'size': 12, 'data': 'QAAAAACg9gTC1G+g'}]}
0:25:53.376951	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 04f6, FOpts:), FPort: , FRMPayload: , MIC: c2d46fa0)
0:25:53.378924	LOG	Server <---------- DUT
0:25:53.379957	LOG	ACK bit in FCtrl field is set
0:25:53.382958	LOG	Check ACK bit in next uplink tested successfully
0:25:53.388437	LOG	Send Test Command RxAppCntReq process starts
0:25:56.129816	LOG	GPS Time updated: 1385114493379
0:25:56.131783	LOG	PULL_DATA: 02 3f1b 02 0016c001ff1025bf
0:25:56.132931	LOG	PULL_ACK: 02 3f1b 04
0:25:59.261141	LOG	First uplink received. Open reception window.
0:25:59.362038	LOG	PUSH_ACK: 02 ab0e 01

0:25:59.364038	LOG	GPS Time from gateway: 1385114496513
0:25:59.365040	LOG	PUSH_DATA: Protocol version = 02, Token = ab0e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 360657391, 'time': '2023-11-27T10:01:17.512910Z', 'tmms': 1385114496513, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 11.2, 'foff': -3284, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA9wQConpNJBlwWiNluJQ='}]}
0:25:59.366039	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04f7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2365b894)
0:25:59.368052	LOG	Server <---------- DUT
0:25:59.370044	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0253, FOpts:), FPort: e0, FRMPayload: 09), MIC: 1b240c5a)
0:25:59.371043	LOG	Frame command sent to the DUT
0:25:59.372044	LOG	PULL_RESP: Protocol version = 02, Token = a4f3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 362657391, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAUwLgNxskDFo='}}
0:25:59.374044	LOG	Server ----------> DUT
0:25:59.376043	LOG	TX_ACK: 02 a4f3 05 0016c001ff1025bf
0:26:02.633924	LOG	First uplink received. Open reception window.
0:26:02.735845	LOG	PUSH_ACK: 02 8f8f 01
0:26:02.738311	LOG	GPS Time from gateway: 1385114499884
0:26:02.739904	LOG	PUSH_DATA: Protocol version = 02, Token = 8f8f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 364028699, 'time': '2023-11-27T10:01:20.884216Z', 'tmms': 1385114499884, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3295, 'rssi': -51, 'size': 16, 'data': 'QAAAAACA+ATgkgwsrOPxTA=='}]}
0:26:02.741176	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04f8, FOpts:), FPort: e0, FRMPayload: 091401, MIC: ace3f14c)
0:26:02.742414	LOG	Server <---------- DUT
0:26:02.744089	LOG	Frame Command Payload in the Answer: 091401
0:26:02.748507	LOG	RX Count received by DUT: 276
0:26:02.750514	LOG	Send Test Command RxAppCntReq process completed
0:26:02.755512	LOG	End Test Step: Test packet error rate for SF9BW125 using RX1 window
0:26:02.759018	LOG	Partial Verdict: PASS
0:26:02.764025	LOG	==========
0:26:02.769696	LOG	==========
0:26:02.771705	LOG	Start Test Step: Test packet error rate for SF8BW125 using RX1 window
0:26:02.782710	LOG	Step 03-09
0:26:02.786710	LOG	Send MAC command block process starts
0:26:06.299752	LOG	GPS Time updated: 1385114503550
0:26:06.301754	LOG	PULL_DATA: 02 866d 02 0016c001ff1025bf
0:26:06.302791	LOG	PULL_ACK: 02 866d 04
0:26:09.257795	LOG	First uplink received. Open reception window.
0:26:09.367041	LOG	PUSH_ACK: 02 3ce4 01
0:26:09.369042	LOG	GPS Time from gateway: 1385114506512
0:26:09.370047	LOG	PUSH_DATA: Protocol version = 02, Token = 3ce4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 370656866, 'time': '2023-11-27T10:01:27.512383Z', 'tmms': 1385114506512, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.0, 'foff': -3284, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA+QQCQDyjzBXdj/N1YpY='}]}
0:26:09.372046	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04f9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f3756296)
0:26:09.373046	LOG	Server <---------- DUT
0:26:09.375046	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0254, FOpts:), FPort: 00, FRMPayload: 03400700010500d2ad84), MIC: 5760f962)

0:26:09.377047	LOG	PULL_RESP: Protocol version = 02, Token = 54e0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 372656866, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAVAIAuPlVx14z91FQpVdg+WI='}}
0:26:09.378047	LOG	Server ----------> DUT
0:26:09.382045	LOG	TX_ACK: 02 54e0 05 0016c001ff1025bf
0:26:14.641848	LOG	First uplink received. Open reception window.
0:26:14.748716	LOG	PUSH_ACK: 02 42ef 01
0:26:14.750717	LOG	GPS Time from gateway: 1385114511897
0:26:14.751723	LOG	PUSH_DATA: Protocol version = 02, Token = 42ef, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 376041804, 'time': '2023-11-27T10:01:32.897319Z', 'tmms': 1385114511897, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3290, 'rssi': -51, 'size': 24, 'data': 'QAAAAACE+gQDBwUHAn++fr7S6zZBoWI2'}]}
0:26:14.753686	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 04fa, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 41a16236)
0:26:14.754731	LOG	Server <---------- DUT
0:26:14.756684	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:26:14.757716	LOG	Command Answer: 03070507
0:26:14.814588	LOG	MAC command communication completed
0:26:14.817618	LOG	Send Test Command RxAppCntReq process starts
0:26:16.309353	LOG	GPS Time updated: 1385114513565
0:26:16.311354	LOG	PULL_DATA: 02 35f4 02 0016c001ff1025bf
0:26:16.312320	LOG	PULL_ACK: 02 35f4 04
0:26:19.419173	LOG	First uplink received. Open reception window.
0:26:19.521013	LOG	PUSH_ACK: 02 e2c1 01
0:26:19.523014	LOG	GPS Time from gateway: 1385114516669
0:26:19.523994	LOG	PUSH_DATA: Protocol version = 02, Token = e2c1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 380813274, 'time': '2023-11-27T10:01:37.668790Z', 'tmms': 1385114516669, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3285, 'rssi': -51, 'size': 22, 'data': 'QAAAAACC+wQFBwJe+hxDIJrHjPLPuA=='}]}
0:26:19.525014	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 04fb, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 8cf2cfb8)
0:26:19.527026	LOG	Server <---------- DUT
0:26:19.529020	LOG	MAC Command RXParamSetupAns received
0:26:19.530055	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0255, FOpts:), FPort: e0, FRMPayload: 09), MIC: d401a4fd)
0:26:19.531051	LOG	Frame command sent to the DUT
0:26:19.533019	LOG	PULL_RESP: Protocol version = 02, Token = 3eae, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 382813274, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAVQLgx9QBpP0='}}
0:26:19.534050	LOG	Server ----------> DUT
0:26:19.536058	LOG	TX_ACK: 02 3eae 05 0016c001ff1025bf
0:26:22.714897	LOG	First uplink received. Open reception window.
0:26:22.821340	LOG	PUSH_ACK: 02 5f48 01
0:26:22.822849	LOG	GPS Time from gateway: 1385114519968
0:26:22.824853	LOG	PUSH_DATA: Protocol version = 02, Token = 5f48, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 384112684, 'time': '2023-11-27T10:01:40.968199Z', 'tmms': 1385114519968, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3304, 'rssi': -51, 'size': 16, 'data': 'QAAAAACA/ATgcjY8cqcY4g=='}]}

0:26:22.826851	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04fc, FOpts:), FPort: e0, FRMPayload: 091501, MIC: 72a718e2)
0:26:22.827849	LOG	Server <---------- DUT
0:26:22.829848	LOG	Frame Command Payload in the Answer: 091501
0:26:22.832848	LOG	RX Count received by DUT: 277
0:26:22.835847	LOG	Send Test Command RxAppCntReq process completed
0:26:22.838867	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:26:26.459860	LOG	GPS Time updated: 1385114523714
0:26:26.460865	LOG	PULL_DATA: 02 36ce 02 0016c001ff1025bf
0:26:26.462974	LOG	PULL_ACK: 02 36ce 04
0:26:29.419594	LOG	First uplink received. Open reception window.
0:26:29.530128	LOG	PUSH_ACK: 02 f137 01
0:26:29.532129	LOG	GPS Time from gateway: 1385114526668
0:26:29.533139	LOG	PUSH_DATA: Protocol version = 02, Token = f137, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 390812658, 'time': '2023-11-27T10:01:47.668172Z', 'tmms': 1385114526668, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3289, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA/QQCUFhKfr0GEbIhMMM='}]}
0:26:29.534144	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04fd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b22130c3)
0:26:29.536144	LOG	Server <---------- DUT
0:26:29.538177	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0256, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 4089f19d)
0:26:29.539177	LOG	Frame command sent to the DUT
0:26:29.540712	LOG	PULL_RESP: Protocol version = 02, Token = 3ea3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 392812658, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAVgLgqOdAifGd'}}
0:26:29.541721	LOG	Server ----------> DUT
0:26:29.545719	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:26:29.551751	LOG	Send Test Command TxFramesCtrlReq process starts
0:26:34.410702	LOG	First uplink received. Open reception window.
0:26:34.514439	LOG	PUSH_ACK: 02 63dd 01
0:26:34.516407	LOG	GPS Time from gateway: 1385114531668
0:26:34.518413	LOG	PUSH_DATA: Protocol version = 02, Token = 63dd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 395812393, 'time': '2023-11-27T10:01:52.667906Z', 'tmms': 1385114531668, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3285, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA/gQCvrTdVbVzVCWAP/I='}]}
0:26:34.519412	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04fe, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 25803ff2)
0:26:34.520412	LOG	Server <---------- DUT
0:26:34.522418	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0257, FOpts:), FPort: e0, FRMPayload: 0700), MIC: f136b049)
0:26:34.524412	LOG	Frame command sent to the DUT
0:26:34.525412	LOG	PULL_RESP: Protocol version = 02, Token = 99dc, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 396812393, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAVwLgm9zxNrBJ'}}
0:26:34.527413	LOG	Server ----------> DUT
0:26:34.530417	LOG	Send Test Command TxFramesCtrlReq process completed
0:26:34.533918	LOG	Send Test Command TxFramesCtrlReq process starts
0:26:36.619235	LOG	GPS Time updated: 1385114533877
0:26:36.621235	LOG	PULL_DATA: 02 3e56 02 0016c001ff1025bf
0:26:36.623205	LOG	PULL_ACK: 02 3e56 04
0:26:39.413381	LOG	First uplink received. Open reception window.

0:26:39.517983	LOG	PUSH_ACK: 02 d173 01
0:26:39.520019	LOG	GPS Time from gateway: 1385114536668
0:26:39.520987	LOG	PUSH_DATA: Protocol version = 02, Token = d173, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 400812132, 'time': '2023-11-27T10:01:57.667643Z', 'tmms': 1385114536668, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3282, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA/wQCIoJdrbxUvfRV5rI='}]}
0:26:39.521992	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 04ff, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f455e6b2)
0:26:39.523993	LOG	Server <---------- DUT
0:26:39.525991	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0258, FOpts:), FPort: e0, FRMPayload: 0700), MIC: e36cd187)
0:26:39.526993	LOG	Frame command sent to the DUT
0:26:39.528026	LOG	PULL_RESP: Protocol version = 02, Token = 6172, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 401812132, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAWALgVSnjbNGH'}}
0:26:39.530028	LOG	Server ----------> DUT
0:26:39.532025	LOG	Send Test Command TxFramesCtrlReq process completed
0:26:39.536496	LOG	Send Test Command TxFramesCtrlReq process starts
0:26:44.413378	LOG	First uplink received. Open reception window.
0:26:44.522680	LOG	PUSH_ACK: 02 3710 01
0:26:44.524646	LOG	GPS Time from gateway: 1385114541667
0:26:44.525650	LOG	PUSH_DATA: Protocol version = 02, Token = 3710, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 405811873, 'time': '2023-11-27T10:02:02.667385Z', 'tmms': 1385114541667, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3290, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAAAUC7TMsLO7f9RBidTQ='}]}
0:26:44.527655	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0500, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 10627534)
0:26:44.528655	LOG	Server <---------- DUT
0:26:44.530655	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0259, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 8b7d1f42)
0:26:44.532656	LOG	Frame command sent to the DUT
0:26:44.533655	LOG	PULL_RESP: Protocol version = 02, Token = 3c4a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 406811873, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAWQLgTXGLfR9C'}}
0:26:44.534655	LOG	Server ----------> DUT
0:26:44.537655	LOG	Send Test Command TxFramesCtrlReq process completed
0:26:44.541166	LOG	Send Test Command TxFramesCtrlReq process starts
0:26:46.629790	LOG	GPS Time updated: 1385114543883
0:26:46.630784	LOG	PULL_DATA: 02 8ee2 02 0016c001ff1025bf
0:26:46.632831	LOG	PULL_ACK: 02 8ee2 04
0:26:49.411432	LOG	First uplink received. Open reception window.
0:26:49.513876	LOG	PUSH_ACK: 02 1e1e 01
0:26:49.515876	LOG	GPS Time from gateway: 1385114546667
0:26:49.516878	LOG	PUSH_DATA: Protocol version = 02, Token = 1e1e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 410811609, 'time': '2023-11-27T10:02:07.667120Z', 'tmms': 1385114546667, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3290, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAAQUCfJ1mdH5TV9NzYo0='}]}
0:26:49.518918	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0501, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d373628d)
0:26:49.519912	LOG	Server <---------- DUT

0:26:49.521927	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 025a, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 53870983)
0:26:49.523879	LOG	Frame command sent to the DUT
0:26:49.524911	LOG	PULL_RESP: Protocol version = 02, Token = 63b4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 411811609, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAWgLgSBVThwmD'}}
0:26:49.525951	LOG	Server --------------------> DUT
0:26:49.528952	LOG	Send Test Command TxFramesCtrlReq process completed
0:26:49.538917	LOG	Send Test Command TxFramesCtrlReq process starts
0:26:54.413347	LOG	First uplink received. Open reception window.
0:26:54.518785	LOG	PUSH_ACK: 02 8bad 01
0:26:54.520790	LOG	GPS Time from gateway: 1385114551667
0:26:54.521781	LOG	PUSH_DATA: Protocol version = 02, Token = 8bad, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 415811353, 'time': '2023-11-27T10:02:12.666863Z', 'tmms': 1385114551667, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3285, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAAgUC28TWepCim7Na9Bc='}]}
0:26:54.523786	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0502, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b35af417)
0:26:54.524806	LOG	Server <-------------------- DUT
0:26:54.526844	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 025b, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 8249e050)
0:26:54.528812	LOG	Frame command sent to the DUT
0:26:54.529844	LOG	PULL_RESP: Protocol version = 02, Token = 477a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 416811353, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'oAAAAAAAWwLghcnyqKXM8V7IO8C6FVvdqWQZha7ejXkbUkLDW1fKBvBEaOoo7c0l+C/eq7qEgOWG7Qb4dFr7Sskjr1n+AVqBZq9bFqEDlC7cL/RvLD04GLCbMAeL2uP6AEmp9/rHTtBsi0H32Jo2XqWec+b7Qe4UWhQlGO4VQ+hr6d6dxiWQs5A2edHVXsD8dhL7fhanp8bUUwYCRgpe8lxydSBKJaeGx5vfhF5jj4b8w+ZuQ1WBoweCyFWIBIPnaZHjSXFUTDMJlLDljEhUI9LdgSUArpPQtRF01aX1enziKvNaQkenChgJtqiTmU4c2FiYWghlTBI78oSCSeBQ'}}
0:26:54.530844	LOG	Server --------------------> DUT
0:26:54.533851	LOG	Send Test Command TxFramesCtrlReq process completed
0:26:54.536843	LOG	Check previous uplink data rate process starts
0:26:54.541359	LOG	Uplink received with expected Data Rate
0:26:54.544357	LOG	Check ACK bit in next uplink process starts
0:26:56.235124	LOG	First uplink received. Open reception window.
0:26:56.344008	LOG	PUSH_ACK: 02 88ce 01
0:26:56.346008	LOG	GPS Time from gateway: 1385114553483
0:26:56.346978	LOG	PUSH_DATA: Protocol version = 02, Token = 88ce, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 417627591, 'time': '2023-11-27T10:02:14.483099Z', 'tmms': 1385114553483, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3297, 'rssi': -52, 'size': 12, 'data': 'QAAAAACgAwWY9ghO'}]}
0:26:56.347975	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 0503, FOpts:), FPort: , FRMPayload: , MIC: 98f6084e)

0:26:56.349975	LOG	Server <---------- DUT
0:26:56.350977	LOG	ACK bit in FCtrl field is set
0:26:56.353994	LOG	Check ACK bit in next uplink tested successfully
0:26:56.359996	LOG	Send Test Command RxAppCntReq process starts
0:26:56.839088	LOG	GPS Time updated: 1385114554087
0:26:56.841087	LOG	PULL_DATA: 02 9dbd 02 0016c001ff1025bf
0:26:56.842089	LOG	PULL_ACK: 02 9dbd 04
0:26:59.418605	LOG	First uplink received. Open reception window.
0:26:59.526172	LOG	PUSH_ACK: 02 c27f 01
0:26:59.528141	LOG	GPS Time from gateway: 1385114556667
0:26:59.529141	LOG	PUSH_DATA: Protocol version = 02, Token = c27f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 420811095, 'time': '2023-11-27T10:02:17.666604Z', 'tmms': 1385114556667, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3290, 'rssi': -51, 'size': 20, 'data': 'QAAAAACABAUCtn6Nbl03CBBEaCo='}]}
0:26:59.530146	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0504, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1044682a)
0:26:59.532148	LOG	Server <---------- DUT
0:26:59.534146	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 025c, FOpts:), FPort: e0, FRMPayload: 09), MIC: b8f1fe51)
0:26:59.535146	LOG	Frame command sent to the DUT
0:26:59.536146	LOG	PULL_RESP: Protocol version = 02, Token = ece2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 422811095, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAXALgj7jx/lE='}}
0:26:59.537145	LOG	Server ----------> DUT
0:26:59.539146	LOG	TX_ACK: 02 ece2 05 0016c001ff1025bf
0:27:02.717185	LOG	First uplink received. Open reception window.
0:27:02.823071	LOG	PUSH_ACK: 02 7e17 01
0:27:02.825072	LOG	GPS Time from gateway: 1385114559966
0:27:02.826042	LOG	PUSH_DATA: Protocol version = 02, Token = 7e17, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 424110573, 'time': '2023-11-27T10:02:20.966080Z', 'tmms': 1385114559966, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3304, 'rssi': -51, 'size': 16, 'data': 'QAAAAACABQXgB5Pkqq/p0Q=='}]}
0:27:02.828041	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0505, FOpts:), FPort: e0, FRMPayload: 091c01, MIC: aaafe9d1)
0:27:02.829076	LOG	Server <---------- DUT
0:27:02.830071	LOG	Frame Command Payload in the Answer: 091c01
0:27:02.834041	LOG	RX Count received by DUT: 284
0:27:02.836074	LOG	Send Test Command RxAppCntReq process completed
0:27:02.844090	LOG	Send MAC command block process starts
0:27:06.889655	LOG	GPS Time updated: 1385114564138
0:27:06.890654	LOG	PULL_DATA: 02 b6dd 02 0016c001ff1025bf
0:27:06.892659	LOG	PULL_ACK: 02 b6dd 04
0:27:09.417068	LOG	First uplink received. Open reception window.
0:27:09.523450	LOG	PUSH_ACK: 02 5fec 01
0:27:09.525418	LOG	GPS Time from gateway: 1385114566666
0:27:09.526423	LOG	PUSH_DATA: Protocol version = 02, Token = 5fec, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 430810584, 'time': '2023-11-27T10:02:27.666090Z', 'tmms': 1385114566666, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3290, 'rssi': -51, 'size': 20, 'data': 'QAAAAACABgUC/0hszc9HPsuEkXs='}]}
0:27:09.528427	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0506, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: cb84917b)
0:27:09.529427	LOG	Server <---------- DUT

0:27:09.531427	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 025d, FOpts:), FPort: 00, FRMPayload: 03400700010510d2ad84), MIC: ef4be110)
0:27:09.533427	LOG	PULL_RESP: Protocol version = 02, Token = 44db, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 432810584, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAXQIAEyLhN0Zk1MJCJe9L4RA='}}
0:27:09.534426	LOG	Server ----------> DUT
0:27:09.539427	LOG	TX_ACK: 02 44db 05 0016c001ff1025bf
0:27:14.831967	LOG	First uplink received. Open reception window.
0:27:14.934117	LOG	PUSH_ACK: 02 ac51 01
0:27:14.936084	LOG	GPS Time from gateway: 1385114572086
0:27:14.937083	LOG	PUSH_DATA: Protocol version = 02, Token = ac51, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 436230525, 'time': '2023-11-27T10:02:33.086032Z', 'tmms': 1385114572086, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3289, 'rssi': -51, 'size': 24, 'data': 'QAAAAACEBwUDBwUHAiOyO+sPlIpoP4b3'}]}
0:27:14.939083	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0507, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 683f86f7)
0:27:14.940083	LOG	Server <---------- DUT
0:27:14.942089	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:27:14.943117	LOG	Command Answer: 03070507
0:27:15.001679	LOG	MAC command communication completed
0:27:15.004706	LOG	Send Test Command RxAppCntReq process starts
0:27:17.089505	LOG	GPS Time updated: 1385114574344
0:27:17.091471	LOG	PULL_DATA: 02 240f 02 0016c001ff1025bf
0:27:17.092504	LOG	PULL_ACK: 02 240f 04
0:27:19.609783	LOG	First uplink received. Open reception window.
0:27:19.720974	LOG	PUSH_ACK: 02 2e62 01
0:27:19.722974	LOG	GPS Time from gateway: 1385114576858
0:27:19.723955	LOG	PUSH_DATA: Protocol version = 02, Token = 2e62, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 441002540, 'time': '2023-11-27T10:02:37.858046Z', 'tmms': 1385114576858, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3290, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCCAUFBwKKMY0jSQeKbxG0wg=='}]}
0:27:19.725941	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0508, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 6f11b4c2)
0:27:19.726943	LOG	Server <---------- DUT
0:27:19.728449	LOG	MAC Command RXParamSetupAns received
0:27:19.730453	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 025e, FOpts:), FPort: e0, FRMPayload: 09), MIC: 825b2a97)
0:27:19.731453	LOG	Frame command sent to the DUT
0:27:19.733455	LOG	PULL_RESP: Protocol version = 02, Token = 4d41, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 443002540, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAXgLgaoJbKpc='}}
0:27:19.734453	LOG	Server ----------> DUT
0:27:19.738454	LOG	TX_ACK: 02 4d41 05 0016c001ff1025bf
0:27:22.910405	LOG	First uplink received. Open reception window.
0:27:23.015175	LOG	PUSH_ACK: 02 d59c 01
0:27:23.017143	LOG	GPS Time from gateway: 1385114580158
0:27:23.018144	LOG	PUSH_DATA: Protocol version = 02, Token = d59c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 444302144, 'time': '2023-11-27T10:02:41.157649Z', 'tmms': 1385114580158, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3309, 'rssi': -51, 'size': 16, 'data': 'QAAAAACACQXgXrX2gH4Smw==']}
0:27:23.020143	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0509, FOpts:), FPort: e0, FRMPayload: 091d01, MIC: 807e129b)
0:27:23.021142	LOG	Server <---------- DUT
0:27:23.023143	LOG	Frame Command Payload in the Answer: 091d01
0:27:23.027150	LOG	RX Count received by DUT: 285
0:27:23.029145	LOG	Send Test Command RxAppCntReq process completed
0:27:23.032145	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:27:27.290132	LOG	GPS Time updated: 1385114584537
0:27:27.292904	LOG	PULL_DATA: 02 0f64 02 0016c001ff1025bf
0:27:27.294549	LOG	PULL_ACK: 02 0f64 04
0:27:29.604527	LOG	First uplink received. Open reception window.
0:27:29.717858	LOG	PUSH_ACK: 02 7e2d 01
0:27:29.719859	LOG	GPS Time from gateway: 1385114586857
0:27:29.720860	LOG	PUSH_DATA: Protocol version = 02, Token = 7e2d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 451001916, 'time': '2023-11-27T10:02:47.857420Z', 'tmms': 1385114586857, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACACgUCozjr/NoCNNNF41k='}]}
0:27:29.722883	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 050a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d345e359)
0:27:29.723921	LOG	Server <---------- DUT
0:27:29.725929	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 025f, FOpts:), FPort: e0, FRMPayload: 0500), MIC: e6c4ca2a)
0:27:29.726920	LOG	Frame command sent to the DUT
0:27:29.729020	LOG	PULL_RESP: Protocol version = 02, Token = 9e55, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 453001916, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAXwLgcKbmxMoq'}}
0:27:29.730015	LOG	Server ----------> DUT
0:27:29.732979	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:27:29.738979	LOG	Send Test Command TxFramesCtrlReq process starts
0:27:34.601234	LOG	First uplink received. Open reception window.
0:27:34.703034	LOG	PUSH_ACK: 02 82ef 01
0:27:34.705002	LOG	GPS Time from gateway: 1385114591857
0:27:34.706004	LOG	PUSH_DATA: Protocol version = 02, Token = 82ef, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 456001659, 'time': '2023-11-27T10:02:52.857162Z', 'tmms': 1385114591857, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACACwUCuFlGZd41+sNg1/I='}]}
0:27:34.708002	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 050b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c360d7f2)
0:27:34.709001	LOG	Server <---------- DUT
0:27:34.711002	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0260, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 9e4ef078)
0:27:34.713001	LOG	Frame command sent to the DUT
0:27:34.714005	LOG	PULL_RESP: Protocol version = 02, Token = d0fa, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 457001659, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAYALgxMeeTvB4'}}
0:27:34.715006	LOG	Server ----------> DUT
0:27:34.719007	LOG	Send Test Command TxFramesCtrlReq process completed
0:27:34.722036	LOG	Send Test Command TxFramesCtrlReq process starts
0:27:37.439627	LOG	GPS Time updated: 1385114594695
0:27:37.440626	LOG	PULL_DATA: 02 d10d 02 0016c001ff1025bf

0:27:37.442535	LOG	PULL_ACK: 02 d10d 04
0:27:39.604402	LOG	First uplink received. Open reception window.
0:27:39.718647	LOG	PUSH_ACK: 02 9c59 01
0:27:39.720646	LOG	GPS Time from gateway: 1385114596857
0:27:39.721654	LOG	PUSH_DATA: Protocol version = 02, Token = 9c59, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 461001410, 'time': '2023-11-27T10:02:57.856911Z', 'tmms': 1385114596857, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3290, 'rssi': -51, 'size': 20, 'data': 'QAAAAACADAUCQHtevE+xvSk2zkg='}]}
0:27:39.723615	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 050c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2936ce48)
0:27:39.724647	LOG	Server <---------- DUT
0:27:39.726615	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0261, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 7ba22077)
0:27:39.728121	LOG	Frame command sent to the DUT
0:27:39.729126	LOG	PULL_RESP: Protocol version = 02, Token = c401, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 462001410, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAYQLgP5x7oiB3'}}
0:27:39.731125	LOG	Server ----------> DUT
0:27:39.734165	LOG	Send Test Command TxFramesCtrlReq process completed
0:27:39.737159	LOG	Send Test Command TxFramesCtrlReq process starts
0:27:44.607394	LOG	First uplink received. Open reception window.
0:27:44.720996	LOG	PUSH_ACK: 02 db39 01
0:27:44.722957	LOG	GPS Time from gateway: 1385114601857
0:27:44.723957	LOG	PUSH_DATA: Protocol version = 02, Token = db39, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 466001140, 'time': '2023-11-27T10:03:02.856642Z', 'tmms': 1385114601857, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3289, 'rssi': -51, 'size': 20, 'data': 'QAAAAACADQUCjTP1sJoBg5kWszg='}]}
0:27:44.725962	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 050d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9916b338)
0:27:44.726962	LOG	Server <---------- DUT
0:27:44.728466	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0262, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 2878ded2)
0:27:44.730471	LOG	Frame command sent to the DUT
0:27:44.732471	LOG	PULL_RESP: Protocol version = 02, Token = f7ce, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 467001140, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAYgLgObIoeN7S'}}
0:27:44.733471	LOG	Server ----------> DUT
0:27:44.736474	LOG	Send Test Command TxFramesCtrlReq process completed
0:27:44.739471	LOG	Send Test Command TxFramesCtrlReq process starts
0:27:47.459309	LOG	GPS Time updated: 1385114604709
0:27:47.460308	LOG	PULL_DATA: 02 179e 02 0016c001ff1025bf
0:27:47.462307	LOG	PULL_ACK: 02 179e 04
0:27:49.604224	LOG	First uplink received. Open reception window.
0:27:49.720237	LOG	PUSH_ACK: 02 b995 01
0:27:49.722240	LOG	GPS Time from gateway: 1385114606856
0:27:49.723239	LOG	PUSH_DATA: Protocol version = 02, Token = b995, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 471000894, 'time': '2023-11-27T10:03:07.856395Z', 'tmms': 1385114606856, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3289, 'rssi': -51, 'size': 20, 'data': 'QAAAAACADgUC3vuDQ2a0mjgdlYY='}]}
0:27:49.725275	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 050e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 381d9586)

0:27:49.726271	LOG	Server <-------------------- DUT
0:27:49.728241	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0263, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 01c549dd)
0:27:49.730334	LOG	Frame command sent to the DUT
0:27:49.731365	LOG	PULL_RESP: Protocol version = 02, Token = 31cf, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 472000894, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAYwLgxsgBxUnd'}}
0:27:49.732365	LOG	Server --------------------> DUT
0:27:49.735335	LOG	Send Test Command TxFramesCtrlReq process completed
0:27:49.745340	LOG	Send Test Command TxFramesCtrlReq process starts
0:27:54.601133	LOG	First uplink received. Open reception window.
0:27:54.702071	LOG	PUSH_ACK: 02 7314 01
0:27:54.704073	LOG	GPS Time from gateway: 1385114611856
0:27:54.705072	LOG	PUSH_DATA: Protocol version = 02, Token = 7314, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 476000633, 'time': '2023-11-27T10:03:12.856133Z', 'tmms': 1385114611856, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACADwUCW0u+S9gbgeCZA0s='}]}
0:27:54.707073	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 050f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e099034b)
0:27:54.708073	LOG	Server <-------------------- DUT
0:27:54.710073	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0264, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101), MIC: 4178e44d)
0:27:54.711072	LOG	Frame command sent to the DUT
0:27:54.713073	LOG	PULL_RESP: Protocol version = 02, Token = 070f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 477000633, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'oAAAAAAAZALgab+mxcegofdWEzWztY9s+qEFgMvJEXhtzDgmyxhuiVTqf+hLK2pwvBqC8d5CU3CH1xgMs+HZRqiXN92wibAgwiYtlnllxpm6yt3qSqDQ0stVC8i2AWfXy8Yt/PhkxWaUbUzwiIqAHMV06RkeAtL3dOsxBkF45E0='}}
0:27:54.714072	LOG	Server --------------------> DUT
0:27:54.716582	LOG	Send Test Command TxFramesCtrlReq process completed
0:27:54.719581	LOG	Check previous uplink data rate process starts
0:27:54.724582	LOG	Uplink received with expected Data Rate
0:27:54.726581	LOG	Check ACK bit in next uplink process starts
0:27:56.388616	LOG	First uplink received. Open reception window.
0:27:56.499332	LOG	PUSH_ACK: 02 5c1f 01
0:27:56.501300	LOG	GPS Time from gateway: 1385114613646
0:27:56.503302	LOG	PUSH_DATA: Protocol version = 02, Token = 5c1f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 477790385, 'time': '2023-11-27T10:03:14.645883Z', 'tmms': 1385114613646, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3301, 'rssi': -51, 'size': 12, 'data': 'QAAAAACgEAXuUdq9'}]}
0:27:56.504351	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 0510, FOpts:), FPort: , FRMPayload: , MIC: ee51dabd)
0:27:56.506301	LOG	Server <-------------------- DUT
0:27:56.507312	LOG	ACK bit in FCtrl field is set
0:27:56.509872	LOG	Check ACK bit in next uplink tested successfully
0:27:56.516021	LOG	Send Test Command RxAppCntReq process starts

0:27:57.659471	LOG	#**********CURRENT BEACON SENT**********#
0:27:57.660470	LOG	PULL_RESP: Protocol version = 02, Token = ce3f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385114624000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAALI9StoIAAAAAAAAAAA='}}
0:27:57.662454	LOG	Server ----------> DUT
0:27:57.664437	LOG	#**********#
0:27:57.673978	LOG	#**********NEXT BEACON QUEUED**********#
0:27:57.674980	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385114752000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACALI9Sjl8AAAAAAAAAAA='}}
0:27:57.675981	LOG	Server ----------> DUT
0:27:57.677982	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 802c8f52, CRC1: 8e5f, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385114752000
0:27:57.679013	LOG	#**********#
0:27:57.680013	LOG	Next BEACON scheduled at GPS time (ms): 1385114880000
0:27:57.680981	LOG	GPS Time updated: 1385114614938
0:27:57.683046	LOG	PULL_DATA: 02 6580 02 0016c001ff1025bf
0:27:57.684054	LOG	PULL_ACK: 02 6580 04
0:27:57.686017	LOG	TX_ACK: 02 ce3f 05 0016c001ff1025bf
0:27:59.605085	LOG	First uplink received. Open reception window.
0:27:59.711949	LOG	PUSH_ACK: 02 2e94 01
0:27:59.713918	LOG	GPS Time from gateway: 1385114616856
0:27:59.714917	LOG	PUSH_DATA: Protocol version = 02, Token = 2e94, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 481000367, 'time': '2023-11-27T10:03:17.855866Z', 'tmms': 1385114616856, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAEQUCA4rvjzoxn4yCjeM='}]}
0:27:59.716918	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0511, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8c828de3)
0:27:59.717918	LOG	Server <---------- DUT
0:27:59.719919	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0265, FOpts:), FPort: e0, FRMPayload: 09), MIC: f30bdd75)
0:27:59.720918	LOG	Frame command sent to the DUT
0:27:59.722422	LOG	PULL_RESP: Protocol version = 02, Token = 70d6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 483000367, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAZQLgIvML3XU='}}
0:27:59.723426	LOG	Server ----------> DUT
0:27:59.727460	LOG	TX_ACK: 02 70d6 05 0016c001ff1025bf
0:28:02.900557	LOG	First uplink received. Open reception window.
0:28:03.007511	LOG	PUSH_ACK: 02 e293 01
0:28:03.009548	LOG	GPS Time from gateway: 1385114620156
0:28:03.011090	LOG	PUSH_DATA: Protocol version = 02, Token = e293, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 484300215, 'time': '2023-11-27T10:03:21.155713Z', 'tmms': 1385114620156, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3313, 'rssi': -52, 'size': 16, 'data': 'QAAAAACAEgXg/+jHGGr6lQ=='}]}
0:28:03.012089	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0512, FOpts:), FPort: e0, FRMPayload: 092401, MIC: 186afa95)

0:28:03.013090	LOG	Server <---------- DUT
0:28:03.015089	LOG	Frame Command Payload in the Answer: 092401
0:28:03.018991	LOG	RX Count received by DUT: 292
0:28:03.021131	LOG	Send Test Command RxAppCntReq process completed
0:28:03.026751	LOG	Send MAC command block process starts
0:28:07.699205	LOG	GPS Time updated: 1385114624956
0:28:07.701173	LOG	PULL_DATA: 02 93b8 02 0016c001ff1025bf
0:28:07.702207	LOG	PULL_ACK: 02 93b8 04
0:28:09.607580	LOG	First uplink received. Open reception window.
0:28:09.713310	LOG	PUSH_ACK: 02 2fa3 01
0:28:09.715351	LOG	GPS Time from gateway: 1385114626855
0:28:09.716348	LOG	PUSH_DATA: Protocol version = 02, Token = 2fa3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 490999850, 'time': '2023-11-27T10:03:27.855347Z', 'tmms': 1385114626855, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAEwUCs/2r9YfgaLQELgY='}]}
0:28:09.718320	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0513, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b4042e06)
0:28:09.719353	LOG	Server <---------- DUT
0:28:09.721318	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0266, FOpts:), FPort: 00, FRMPayload: 03400700010520d2ad84), MIC: 25500f96)
0:28:09.723318	LOG	PULL_RESP: Protocol version = 02, Token = c4e3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 492999850, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAZgIAFT/aNWjIQZEfvyVQD5Y='}}
0:28:09.725354	LOG	Server ----------> DUT
0:28:09.727352	LOG	TX_ACK: 02 c4e3 05 0016c001ff1025bf
0:28:15.004558	LOG	First uplink received. Open reception window.
0:28:15.109670	LOG	PUSH_ACK: 02 1cad 01
0:28:15.111671	LOG	GPS Time from gateway: 1385114632262
0:28:15.112673	LOG	PUSH_DATA: Protocol version = 02, Token = 1cad, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 496406859, 'time': '2023-11-27T10:03:33.262354Z', 'tmms': 1385114632262, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3297, 'rssi': -51, 'size': 24, 'data': 'QAAAAACEFAUDBwUHAmXAFLcJXFitXgQn'}]}
0:28:15.114671	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0514, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: ad5e0427)
0:28:15.115671	LOG	Server <---------- DUT
0:28:15.117673	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:28:15.119670	LOG	Command Answer: 03070507
0:28:15.177210	LOG	MAC command communication completed
0:28:15.181210	LOG	Send Test Command RxAppCntReq process starts
0:28:17.909500	LOG	GPS Time updated: 1385114635167
0:28:17.910500	LOG	PULL_DATA: 02 d09e 02 0016c001ff1025bf
0:28:17.913504	LOG	PULL_ACK: 02 d09e 04
0:28:19.742962	LOG	First uplink received. Open reception window.
0:28:19.853306	LOG	PUSH_ACK: 02 9ca2 01
0:28:19.855311	LOG	GPS Time from gateway: 1385114636994
0:28:19.856311	LOG	PUSH_DATA: Protocol version = 02, Token = 9ca2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 501139082, 'time': '2023-11-27T10:03:37.994578Z', 'tmms': 1385114636994, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3293, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCFQUFBwLO76nhRN1oqIZKkQ=='}]}

0:28:19.857343	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0515, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: a8864a91)
0:28:19.859319	LOG	Server <---------- DUT
0:28:19.860313	LOG	MAC Command RXParamSetupAns received
0:28:19.862347	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0267, FOpts:), FPort: e0, FRMPayload: 09), MIC: c7430e21)
0:28:19.863343	LOG	Frame command sent to the DUT
0:28:19.865313	LOG	PULL_RESP: Protocol version = 02, Token = 75fe, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 503139082, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAZwLgYcdDDiE='}}
0:28:19.866343	LOG	Server ----------> DUT
0:28:19.869310	LOG	TX_ACK: 02 75fe 05 0016c001ff1025bf
0:28:23.045495	LOG	First uplink received. Open reception window.
0:28:23.151799	LOG	PUSH_ACK: 02 fb87 01
0:28:23.153767	LOG	GPS Time from gateway: 1385114640294
0:28:23.154766	LOG	PUSH_DATA: Protocol version = 02, Token = fb87, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 504438595, 'time': '2023-11-27T10:03:41.294090Z', 'tmms': 1385114640294, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3308, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAFgXg8XoYDEH+iA=='}]}
0:28:23.156771	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0516, FOpts:), FPort: e0, FRMPayload: 092501, MIC: 0c41fe88)
0:28:23.157770	LOG	Server <---------- DUT
0:28:23.159770	LOG	Frame Command Payload in the Answer: 092501
0:28:23.163770	LOG	RX Count received by DUT: 293
0:28:23.165772	LOG	Send Test Command RxAppCntReq process completed
0:28:23.168870	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:28:28.058677	LOG	GPS Time updated: 1385114645307
0:28:28.060676	LOG	PULL_DATA: 02 7212 02 0016c001ff1025bf
0:28:28.061677	LOG	PULL_ACK: 02 7212 04
0:28:29.740726	LOG	First uplink received. Open reception window.
0:28:29.853635	LOG	PUSH_ACK: 02 252b 01
0:28:29.855153	LOG	GPS Time from gateway: 1385114646994
0:28:29.857144	LOG	PUSH_DATA: Protocol version = 02, Token = 252b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 511138462, 'time': '2023-11-27T10:03:47.993956Z', 'tmms': 1385114646994, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAFwUCMn4og1QHlFboaJ0='}]}
0:28:29.858144	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0517, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 56e8689d)
0:28:29.859144	LOG	Server <---------- DUT
0:28:29.861145	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0268, FOpts:), FPort: e0, FRMPayload: 0500), MIC: abc97237)
0:28:29.863143	LOG	Frame command sent to the DUT
0:28:29.864145	LOG	PULL_RESP: Protocol version = 02, Token = bc30, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 513138462, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAaALgddWryXI3'}}
0:28:29.865144	LOG	Server ----------> DUT
0:28:29.868154	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:28:29.874183	LOG	Send Test Command TxFramesCtrlReq process starts
0:28:34.735922	LOG	First uplink received. Open reception window.
0:28:34.836408	LOG	PUSH_ACK: 02 a8da 01
0:28:34.838442	LOG	GPS Time from gateway: 1385114651994

0:28:34.840447	LOG	PUSH_DATA: Protocol version = 02, Token = a8da, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 516138199, 'time': '2023-11-27T10:03:52.993692Z', 'tmms': 1385114651994, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3297, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAGAUCn44SRvH+NbmlFLw='}]}
0:28:34.841451	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0518, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b9a514bc)
0:28:34.843456	LOG	Server <---------- DUT
0:28:34.845452	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0269, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 73c02022)
0:28:34.846452	LOG	Frame command sent to the DUT
0:28:34.848452	LOG	PULL_RESP: Protocol version = 02, Token = 25f6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 517138199, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAaQLgXPRzwCAi'}}
0:28:34.849452	LOG	Server ----------> DUT
0:28:34.852454	LOG	Send Test Command TxFramesCtrlReq process completed
0:28:34.855571	LOG	Send Test Command TxFramesCtrlReq process starts
0:28:38.209044	LOG	GPS Time updated: 1385114655469
0:28:38.211042	LOG	PULL_DATA: 02 eef6 02 0016c001ff1025bf
0:28:38.212043	LOG	PULL_ACK: 02 eef6 04
0:28:39.745089	LOG	First uplink received. Open reception window.
0:28:39.851485	LOG	PUSH_ACK: 02 3a54 01
0:28:39.853463	LOG	GPS Time from gateway: 1385114656993
0:28:39.854804	LOG	PUSH_DATA: Protocol version = 02, Token = 3a54, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 521137949, 'time': '2023-11-27T10:03:57.993440Z', 'tmms': 1385114656993, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAGQUCNe+eHELvsW5rmMk='}]}
0:28:39.856803	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0519, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6e6b98c9)
0:28:39.857803	LOG	Server <---------- DUT
0:28:39.859805	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 026a, FOpts:), FPort: e0, FRMPayload: 0700), MIC: def96779)
0:28:39.860836	LOG	Frame command sent to the DUT
0:28:39.862803	LOG	PULL_RESP: Protocol version = 02, Token = d903, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 522137949, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAagLgwmre+Wd5'}}
0:28:39.864305	LOG	Server ----------> DUT
0:28:39.867315	LOG	Send Test Command TxFramesCtrlReq process completed
0:28:39.870347	LOG	Send Test Command TxFramesCtrlReq process starts
0:28:44.738288	LOG	First uplink received. Open reception window.
0:28:44.851391	LOG	PUSH_ACK: 02 7668 01
0:28:44.853857	LOG	GPS Time from gateway: 1385114661993
0:28:44.854864	LOG	PUSH_DATA: Protocol version = 02, Token = 7668, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 526137690, 'time': '2023-11-27T10:04:02.993180Z', 'tmms': 1385114661993, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAGgUCQQjAAm8wIVZaIfk='}]}
0:28:44.856862	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 051a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 565a21f9)
0:28:44.857861	LOG	Server <---------- DUT
0:28:44.859900	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 026b, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 035166e8)
0:28:44.861860	LOG	Frame command sent to the DUT

0:28:44.862860	LOG	PULL_RESP: Protocol version = 02, Token = 477f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 527137690, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAawLgBagDUWbo'}}
0:28:44.863861	LOG	Server ----------> DUT
0:28:44.865860	LOG	Send Test Command TxFramesCtrlReq process completed
0:28:44.870371	LOG	Send Test Command TxFramesCtrlReq process starts
0:28:48.219111	LOG	GPS Time updated: 1385114665474
0:28:48.220109	LOG	PULL_DATA: 02 e859 02 0016c001ff1025bf
0:28:48.222114	LOG	PULL_ACK: 02 e859 04
0:28:49.742108	LOG	First uplink received. Open reception window.
0:28:49.851482	LOG	PUSH_ACK: 02 fb7b 01
0:28:49.853448	LOG	GPS Time from gateway: 1385114666993
0:28:49.854957	LOG	PUSH_DATA: Protocol version = 02, Token = fb7b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 531137429, 'time': '2023-11-27T10:04:07.992920Z', 'tmms': 1385114666993, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAGwUCLc8/5m4gdYgrBNs='}]}
0:28:49.855957	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 051b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 882b04db)
0:28:49.856962	LOG	Server <---------- DUT
0:28:49.858961	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 026c, FOpts:), FPort: e0, FRMPayload: 0700), MIC: c8898d30)
0:28:49.860962	LOG	Frame command sent to the DUT
0:28:49.861961	LOG	PULL_RESP: Protocol version = 02, Token = e7b7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 532137429, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAbALg6PbIiY0w'}}
0:28:49.862961	LOG	Server ----------> DUT
0:28:49.865962	LOG	Send Test Command TxFramesCtrlReq process completed
0:28:49.875471	LOG	Send Test Command TxFramesCtrlReq process starts
0:28:54.739786	LOG	First uplink received. Open reception window.
0:28:54.843699	LOG	PUSH_ACK: 02 1e2d 01
0:28:54.845665	LOG	GPS Time from gateway: 1385114671993
0:28:54.846666	LOG	PUSH_DATA: Protocol version = 02, Token = 1e2d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 536137173, 'time': '2023-11-27T10:04:12.992663Z', 'tmms': 1385114671993, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAHAUCX6JzZnncNQG5XH8='}]}
0:28:54.848666	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 051c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 01b95c7f)
0:28:54.850671	LOG	Server <---------- DUT
0:28:54.851705	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 026d, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 8caabb27)
0:28:54.853705	LOG	Frame command sent to the DUT
0:28:54.855275	LOG	PULL_RESP: Protocol version = 02, Token = 9da3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 537137173, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'oAAAAAAAbQLgpSCV4u4pT9xIcC3Yt1ePjn1EG3d8D/XvQLeEkjnZTpzHXbMuVojYjSrB4CsHrFIhxNCNjKq7Jw=='}}
0:28:54.856283	LOG	Server ----------> DUT
0:28:54.859250	LOG	Send Test Command TxFramesCtrlReq process completed
0:28:54.862255	LOG	Check previous uplink data rate process starts

0:28:54.866255	LOG	Uplink received with expected Data Rate
0:28:54.869246	LOG	Check ACK bit in next uplink process starts
0:28:56.548197	LOG	First uplink received. Open reception window.
0:28:56.653121	LOG	PUSH_ACK: 02 d7ef 01
0:28:56.655106	LOG	GPS Time from gateway: 1385114673804
0:28:56.656107	LOG	PUSH_DATA: Protocol version = 02, Token = d7ef, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 537948228, 'time': '2023-11-27T10:04:14.803716Z', 'tmms': 1385114673804, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3301, 'rssi': -52, 'size': 12, 'data': 'QAAAAACgHQX45aoH'}]}
0:28:56.657107	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 051d, FOpts:), FPort: , FRMPayload: , MIC: f8e5aa07)
0:28:56.659106	LOG	Server <---------- DUT
0:28:56.660107	LOG	ACK bit in FCtrl field is set
0:28:56.663106	LOG	Check ACK bit in next uplink tested successfully
0:28:56.668615	LOG	Send Test Command RxAppCntReq process starts
0:28:58.428903	LOG	GPS Time updated: 1385114675684
0:28:58.429904	LOG	PULL_DATA: 02 cb73 02 0016c001ff1025bf
0:28:58.431907	LOG	PULL_ACK: 02 cb73 04
0:28:59.737846	LOG	First uplink received. Open reception window.
0:28:59.840721	LOG	PUSH_ACK: 02 9176 01
0:28:59.842690	LOG	GPS Time from gateway: 1385114676992
0:28:59.843689	LOG	PUSH_DATA: Protocol version = 02, Token = 9176, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 541136917, 'time': '2023-11-27T10:04:17.992406Z', 'tmms': 1385114676992, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAHgUCqBU/Goxce+wk850='}]}
0:28:59.844689	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 051e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ec24f39d)
0:28:59.846694	LOG	Server <---------- DUT
0:28:59.848695	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 026e, FOpts:), FPort: e0, FRMPayload: 09), MIC: 76add376)
0:28:59.849694	LOG	Frame command sent to the DUT
0:28:59.850693	LOG	PULL_RESP: Protocol version = 02, Token = d47d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 543136917, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAbgLgOHat03Y='}}
0:28:59.852694	LOG	Server ----------> DUT
0:28:59.855220	LOG	TX_ACK: 02 d47d 05 0016c001ff1025bf
0:29:04.738322	LOG	First uplink received. Open reception window.
0:29:04.850594	LOG	PUSH_ACK: 02 ab8c 01
0:29:04.852595	LOG	GPS Time from gateway: 1385114681993
0:29:04.854101	LOG	PUSH_DATA: Protocol version = 02, Token = ab8c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 546137403, 'time': '2023-11-27T10:04:22.992891Z', 'tmms': 1385114681993, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3297, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAHwXgYF2o1meVrA==}]}
0:29:04.855109	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 051f, FOpts:), FPort: e0, FRMPayload: 092c01, MIC: d66795ac)
0:29:04.856143	LOG	Server <---------- DUT
0:29:04.858107	LOG	Frame Command Payload in the Answer: 092c01
0:29:04.862120	LOG	RX Count received by DUT: 300
0:29:04.864107	LOG	Send Test Command RxAppCntReq process completed
0:29:04.870113	LOG	Send MAC command block process starts
0:29:08.468738	LOG	GPS Time updated: 1385114685723
0:29:08.470799	LOG	PULL_DATA: 02 fd1d 02 0016c001ff1025bf

0:29:08.472744	LOG	PULL_ACK: 02 fd1d 04
0:29:09.734842	LOG	First uplink received. Open reception window.
0:29:09.838012	LOG	PUSH_ACK: 02 9f22 01
0:29:09.840017	LOG	GPS Time from gateway: 1385114686992
0:29:09.841016	LOG	PUSH_DATA: Protocol version = 02, Token = 9f22, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 551136390, 'time': '2023-11-27T10:04:27.991877Z', 'tmms': 1385114686992, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3289, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAIAUCfwjXsaRGhy9lUDw='}]}
0:29:09.843022	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0520, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2f65503c)
0:29:09.844022	LOG	Server <---------- DUT
0:29:09.846023	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 026f, FOpts:), FPort: 00, FRMPayload: 03400700010530d2ad84), MIC: 9aae4e5f)
0:29:09.848022	LOG	PULL_RESP: Protocol version = 02, Token = 85a9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 553136390, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAbwIAD2Gq+35dAkJ1epquTl8='}}
0:29:09.849021	LOG	Server ----------> DUT
0:29:09.851025	LOG	TX_ACK: 02 85a9 05 0016c001ff1025bf
0:29:14.749049	LOG	First uplink received. Open reception window.
0:29:14.858777	LOG	PUSH_ACK: 02 4847 01
0:29:14.860741	LOG	GPS Time from gateway: 1385114692002
0:29:14.861743	LOG	PUSH_DATA: Protocol version = 02, Token = 4847, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 556146499, 'time': '2023-11-27T10:04:33.001983Z', 'tmms': 1385114692002, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3297, 'rssi': -51, 'size': 24, 'data': 'QAAAAACEIQUDBwUHAuHVysr0liv6LEY2'}]}
0:29:14.863743	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0521, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: fa2c4636)
0:29:14.864741	LOG	Server <---------- DUT
0:29:14.866743	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:29:14.867777	LOG	Command Answer: 03070507
0:29:14.926987	LOG	MAC command communication completed
0:29:14.930001	LOG	Send Test Command RxAppCntReq process starts
0:29:18.668805	LOG	GPS Time updated: 1385114695921
0:29:18.670773	LOG	PULL_DATA: 02 fce3 02 0016c001ff1025bf
0:29:18.671773	LOG	PULL_ACK: 02 fce3 04
0:29:19.735937	LOG	First uplink received. Open reception window.
0:29:19.847137	LOG	PUSH_ACK: 02 62eb 01
0:29:19.849138	LOG	GPS Time from gateway: 1385114696991
0:29:19.850139	LOG	PUSH_DATA: Protocol version = 02, Token = 62eb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 561135981, 'time': '2023-11-27T10:04:37.991467Z', 'tmms': 1385114696991, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.8, 'foff': -3290, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCIgUFBwIR8s5fQorl9PYUeA=='}]}
0:29:19.852146	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0522, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: f4f61478)
0:29:19.852146	LOG	Server <---------- DUT
0:29:19.855660	LOG	MAC Command RXParamSetupAns received
0:29:19.856690	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0270, FOpts:), FPort: e0, FRMPayload: 09), MIC: c8565e42)
0:29:19.858709	LOG	Frame command sent to the DUT

0:29:19.859690	LOG	PULL_RESP: Protocol version = 02, Token = 64d8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 563135981, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAcALgPchWXkI='}}
0:29:19.860693	LOG	Server ----------> DUT
0:29:19.863696	LOG	TX_ACK: 02 64d8 05 0016c001ff1025bf
0:29:23.032804	LOG	First uplink received. Open reception window.
0:29:23.148676	LOG	PUSH_ACK: 02 3f50 01
0:29:23.150678	LOG	GPS Time from gateway: 1385114700291
0:29:23.151732	LOG	PUSH_DATA: Protocol version = 02, Token = 3f50, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 564435433, 'time': '2023-11-27T10:04:41.290918Z', 'tmms': 1385114700291, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3309, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAIwXgGORrYwBpfg==}]}
0:29:23.153684	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0523, FOpts:), FPort: e0, FRMPayload: 092d01, MIC: 6300697e)
0:29:23.154682	LOG	Server <---------- DUT
0:29:23.156726	LOG	Frame Command Payload in the Answer: 092d01
0:29:23.160682	LOG	RX Count received by DUT: 301
0:29:23.162683	LOG	Send Test Command RxAppCntReq process completed
0:29:23.164715	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:29:28.689286	LOG	GPS Time updated: 1385114705947
0:29:28.690283	LOG	PULL_DATA: 02 0427 02 0016c001ff1025bf
0:29:28.691286	LOG	PULL_ACK: 02 0427 04
0:29:29.734503	LOG	Multiple frames received. Selecting the correct frame...
0:29:29.735536	LOG	Frame selected: {'jver': 1, 'tmst': 571135353, 'time': '2023-11-27T10:04:47.990837Z', 'tmms': 1385114706991, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAJAUCFG+B+uni8/nSnh8='}
0:29:29.737541	LOG	First uplink received. Open reception window.
0:29:29.850601	LOG	PUSH_ACK: 02 a9ff 01
0:29:29.852567	LOG	GPS Time from gateway: 1385114706991
0:29:29.854073	LOG	PUSH_DATA: Protocol version = 02, Token = a9ff, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 571135353, 'time': '2023-11-27T10:04:47.990837Z', 'tmms': 1385114706991, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAJAUCFG+B+uni8/nSnh8='}, {'jver': 1, 'tmst': 571135359, 'time': '2023-11-27T10:04:47.990843Z', 'tmms': 1385114706991, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -114, 'lsnr': -10.2, 'foff': -27795, 'rssi': -105, 'size': 20, 'data': 'QAAAAACAJAUCFG+B+uni8/nSnh8='}]}
0:29:29.855078	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0524, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f9d29e1f)
0:29:29.857083	LOG	Server <---------- DUT
0:29:29.859097	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0271, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 5f419f02)
0:29:29.861077	LOG	Frame command sent to the DUT
0:29:29.862077	LOG	PULL_RESP: Protocol version = 02, Token = 2ff7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 573135353, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAcQLgq/xfQZ8C'}}
0:29:29.863077	LOG	Server ----------> DUT
0:29:29.866078	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:29:29.873048	LOG	Send Test Command TxFramesCtrlReq process starts
0:29:34.737126	LOG	First uplink received. Open reception window.

0:29:34.851490	LOG	PUSH_ACK: 02 a2ba 01
0:29:34.853458	LOG	GPS Time from gateway: 1385114711990
0:29:34.854972	LOG	PUSH_DATA: Protocol version = 02, Token = a2ba, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 576135106, 'time': '2023-11-27T10:04:52.990589Z', 'tmms': 1385114711990, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAJQUCrzN+gUSLDxw/xdU='}]}
0:29:34.855968	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0525, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1c3fc5d5)
0:29:34.857968	LOG	Server <---------- DUT
0:29:34.859968	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0272, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 21715472)
0:29:34.860967	LOG	Frame command sent to the DUT
0:29:34.861968	LOG	PULL_RESP: Protocol version = 02, Token = 388a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 577135106, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAcgLga0AhcVRy'}}
0:29:34.863967	LOG	Server ----------> DUT
0:29:34.865968	LOG	Send Test Command TxFramesCtrlReq process completed
0:29:34.869990	LOG	Send Test Command TxFramesCtrlReq process starts
0:29:38.858751	LOG	GPS Time updated: 1385114716111
0:29:38.860719	LOG	PULL_DATA: 02 e700 02 0016c001ff1025bf
0:29:38.861718	LOG	PULL_ACK: 02 e700 04
0:29:39.738841	LOG	First uplink received. Open reception window.
0:29:39.847883	LOG	PUSH_ACK: 02 b0b2 01
0:29:39.849883	LOG	GPS Time from gateway: 1385114716990
0:29:39.850885	LOG	PUSH_DATA: Protocol version = 02, Token = b0b2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 581134835, 'time': '2023-11-27T10:04:57.990317Z', 'tmms': 1385114716990, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAJgUCQpPEQOO4OOG3QG4='}]}
0:29:39.852891	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0526, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e1b7406e)
0:29:39.854394	LOG	Server <---------- DUT
0:29:39.856399	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0273, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 152bdfb4)
0:29:39.858398	LOG	Frame command sent to the DUT
0:29:39.859436	LOG	PULL_RESP: Protocol version = 02, Token = f1b2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 582134835, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAcwLg88gVK9+0'}}
0:29:39.860431	LOG	Server ----------> DUT
0:29:39.863432	LOG	Send Test Command TxFramesCtrlReq process completed
0:29:39.867399	LOG	Send Test Command TxFramesCtrlReq process starts
0:29:44.740680	LOG	First uplink received. Open reception window.
0:29:44.850294	LOG	PUSH_ACK: 02 281e 01
0:29:44.852260	LOG	GPS Time from gateway: 1385114721990
0:29:44.853766	LOG	PUSH_DATA: Protocol version = 02, Token = 281e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 586134584, 'time': '2023-11-27T10:05:02.990064Z', 'tmms': 1385114721990, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAJwUCCoCes6PqowiKqZ4='}]}
0:29:44.854772	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0527, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 088aa99e)
0:29:44.856772	LOG	Server <---------- DUT

0:29:44.858775	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0274, FOpts:), FPort: e0, FRMPayload: 0700), MIC: deadf042)
0:29:44.859771	LOG	Frame command sent to the DUT
0:29:44.861772	LOG	PULL_RESP: Protocol version = 02, Token = 63a6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 587134584, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAdALg21nerfBC'}}
0:29:44.862771	LOG	Server ----------> DUT
0:29:44.865773	LOG	Send Test Command TxFramesCtrlReq process completed
0:29:44.868772	LOG	Send Test Command TxFramesCtrlReq process starts
0:29:49.058377	LOG	GPS Time updated: 1385114726308
0:29:49.060377	LOG	PULL_DATA: 02 3c6c 02 0016c001ff1025bf
0:29:49.061379	LOG	PULL_ACK: 02 3c6c 04
0:29:49.732392	LOG	First uplink received. Open reception window.
0:29:49.845423	LOG	PUSH_ACK: 02 4884 01
0:29:49.847423	LOG	GPS Time from gateway: 1385114726990
0:29:49.848425	LOG	PUSH_DATA: Protocol version = 02, Token = 4884, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 591134326, 'time': '2023-11-27T10:05:07.989807Z', 'tmms': 1385114726990, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3297, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAKAUCO+811+gO+ih+KmA='}]}
0:29:49.849424	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0528, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 287e2a60)
0:29:49.851443	LOG	Server <---------- DUT
0:29:49.852430	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0275, FOpts:), FPort: e0, FRMPayload: 0700), MIC: f515cd75)
0:29:49.854975	LOG	Frame command sent to the DUT
0:29:49.855972	LOG	PULL_RESP: Protocol version = 02, Token = 404d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 592134326, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAdQLg4Lb1Fc11'}}
0:29:49.857972	LOG	Server ----------> DUT
0:29:49.860974	LOG	Send Test Command TxFramesCtrlReq process completed
0:29:49.869974	LOG	Send Test Command TxFramesCtrlReq process starts
0:29:54.739777	LOG	First uplink received. Open reception window.
0:29:54.846019	LOG	PUSH_ACK: 02 3041 01
0:29:54.847986	LOG	GPS Time from gateway: 1385114731989
0:29:54.848999	LOG	PUSH_DATA: Protocol version = 02, Token = 3041, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 596134060, 'time': '2023-11-27T10:05:12.989540Z', 'tmms': 1385114731989, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAKQUCqgUMhbZ+l3RhuNE='}]}
0:29:54.850987	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0529, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7461b8d1)
0:29:54.852020	LOG	Server <---------- DUT
0:29:54.854563	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0276, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 2de6b64a)
0:29:54.856562	LOG	Frame command sent to the DUT
0:29:54.857597	LOG	PULL_RESP: Protocol version = 02, Token = 36cb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 597134060, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'oAAAAAAAdgLg/tgb+ElDLpH7EcxxwznLqIikFx8Dl3y8MjcMIqI/2gCOXkZzsG7JwRDDALz/svWM19EkLea2Sg=='}}

0:29:54.859606	LOG	Server ----------> DUT
0:29:54.861562	LOG	Send Test Command TxFramesCtrlReq process completed
0:29:54.865563	LOG	Check previous uplink data rate process starts
0:29:54.869598	LOG	Uplink received with expected Data Rate
0:29:54.872604	LOG	Check ACK bit in next uplink process starts
0:29:57.338461	LOG	First uplink received. Open reception window.
0:29:57.448790	LOG	PUSH_ACK: 02 91b5 01
0:29:57.450758	LOG	GPS Time from gateway: 1385114734589
0:29:57.451758	LOG	PUSH_DATA: Protocol version = 02, Token = 91b5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 598733324, 'time': '2023-11-27T10:05:15.588803Z', 'tmms': 1385114734589, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3316, 'rssi': -51, 'size': 12, 'data': 'QAAAAACgKgVZzKa+'}]}
0:29:57.453759	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 052a, FOpts:), FPort: , FRMPayload: , MIC: 59cca6be)
0:29:57.454791	LOG	Server <---------- DUT
0:29:57.456759	LOG	ACK bit in FCtrl field is set
0:29:57.458758	LOG	Check ACK bit in next uplink tested successfully
0:29:57.463761	LOG	Send Test Command RxAppCntReq process starts
0:29:59.268210	LOG	GPS Time updated: 1385114736519
0:29:59.270209	LOG	PULL_DATA: 02 963a 02 0016c001ff1025bf
0:29:59.271208	LOG	PULL_ACK: 02 963a 04
0:30:01.372022	LOG	First uplink received. Open reception window.
0:30:01.485152	LOG	PUSH_ACK: 02 b438 01
0:30:01.487119	LOG	GPS Time from gateway: 1385114738627
0:30:01.488151	LOG	PUSH_DATA: Protocol version = 02, Token = b438, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 602771491, 'time': '2023-11-27T10:05:19.626970Z', 'tmms': 1385114738627, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAKwUCjK21kU6POt7iv6w='}]}
0:30:01.490118	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 052b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: dee2bfac)
0:30:01.491116	LOG	Server <---------- DUT
0:30:01.493117	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0277, FOpts:), FPort: e0, FRMPayload: 09), MIC: 60c8f5c9)
0:30:01.494117	LOG	Frame command sent to the DUT
0:30:01.495116	LOG	PULL_RESP: Protocol version = 02, Token = 880d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 604771491, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAdwLgz2DI9ck='}}
0:30:01.497119	LOG	Server ----------> DUT
0:30:01.499120	LOG	TX_ACK: 02 880d 05 0016c001ff1025bf
0:30:04.673279	LOG	First uplink received. Open reception window.
0:30:04.786271	LOG	PUSH_ACK: 02 f4dd 01
0:30:04.788270	LOG	GPS Time from gateway: 1385114741926
0:30:04.789272	LOG	PUSH_DATA: Protocol version = 02, Token = f4dd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 606070947, 'time': '2023-11-27T10:05:22.926425Z', 'tmms': 1385114741926, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3313, 'rssi': -51, 'size': 16, 'data': 'QAAAAACALAXg6RQnACGWpA=='}]}
0:30:04.790273	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 052c, FOpts:), FPort: e0, FRMPayload: 093401, MIC: 002196a4)
0:30:04.792359	LOG	Server <---------- DUT
0:30:04.793358	LOG	Frame Command Payload in the Answer: 093401
0:30:04.798358	LOG	RX Count received by DUT: 308
0:30:04.800357	LOG	Send Test Command RxAppCntReq process completed

0:30:04.807358	LOG	Send MAC command block process starts
0:30:09.478635	LOG	#**********CURRENT BEACON SENT**********#
0:30:09.480601	LOG	PULL_RESP: Protocol version = 02, Token = 2b18, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385114752000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACALI9Sjl8AAAAAAAAAAA='}}
0:30:09.481599	LOG	Server ----------> DUT
0:30:09.483600	LOG	#**********#
0:30:09.493599	LOG	#**********NEXT BEACON QUEUED**********#
0:30:09.494599	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385114880000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAALY9ShrUAAAAAAAAAAA='}}
0:30:09.495603	LOG	Server ----------> DUT
0:30:09.497604	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 002d8f52, CRC1: 86b5, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385114880000
0:30:09.498603	LOG	#**********#
0:30:09.500607	LOG	Next BEACON scheduled at GPS time (ms): 1385115008000
0:30:09.501604	LOG	GPS Time updated: 1385114746754
0:30:09.502603	LOG	PULL_DATA: 02 f9db 02 0016c001ff1025bf
0:30:09.504604	LOG	PULL_ACK: 02 f9db 04
0:30:09.506604	LOG	TX_ACK: 02 2b18 05 0016c001ff1025bf
0:30:11.148683	LOG	First uplink received. Open reception window.
0:30:11.261046	LOG	PUSH_ACK: 02 dda9 01
0:30:11.263014	LOG	GPS Time from gateway: 1385114748403
0:30:11.264013	LOG	PUSH_DATA: Protocol version = 02, Token = dda9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 612547279, 'time': '2023-11-27T10:05:29.402756Z', 'tmms': 1385114748403, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3297, 'rssi': -51, 'size': 20, 'data': 'QAAAAACALQUCU0FKQzIQVJ2BipQ='}]}
0:30:11.266022	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 052d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9d818a94)
0:30:11.267014	LOG	Server <---------- DUT
0:30:11.269014	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0278, FOpts:), FPort: 00, FRMPayload: 03400700010540d2ad84), MIC: ba534ed4)
0:30:11.271014	LOG	PULL_RESP: Protocol version = 02, Token = 372b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 614547279, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAeAIAwtpDuw/AtuzlgrpTTtQ='}}
0:30:11.272013	LOG	Server ----------> DUT
0:30:11.275016	LOG	TX_ACK: 02 372b 05 0016c001ff1025bf
0:30:16.160735	LOG	First uplink received. Open reception window.
0:30:16.275470	LOG	PUSH_ACK: 02 8d50 01
0:30:16.277439	LOG	GPS Time from gateway: 1385114753413
0:30:16.278438	LOG	PUSH_DATA: Protocol version = 02, Token = 8d50, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 617557384, 'time': '2023-11-27T10:05:34.412860Z', 'tmms': 1385114753413, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3309, 'rssi': -51, 'size': 24, 'data': 'QAAAAACELgUDBwUHAtbF0CmzHettgg2l'}]}

0:30:16.280443	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 052e, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 6d820da5)
0:30:16.281442	LOG	Server <---------- DUT
0:30:16.283444	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:30:16.284443	LOG	Command Answer: 03070507
0:30:16.341790	LOG	MAC command communication completed
0:30:16.344789	LOG	Send Test Command RxAppCntReq process starts
0:30:19.678257	LOG	GPS Time updated: 1385114756931
0:30:19.680224	LOG	PULL_DATA: 02 eab5 02 0016c001ff1025bf
0:30:19.681224	LOG	PULL_ACK: 02 eab5 04
0:30:21.153665	LOG	First uplink received. Open reception window.
0:30:21.256082	LOG	PUSH_ACK: 02 dbab 01
0:30:21.258057	LOG	GPS Time from gateway: 1385114758402
0:30:21.259050	LOG	PUSH_DATA: Protocol version = 02, Token = dbab, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 622546902, 'time': '2023-11-27T10:05:39.402376Z', 'tmms': 1385114758402, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3297, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCLwUFBwLIoG75wwbjxTuyFw==\'}]}
0:30:21.260554	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 052f, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: c53bb217)
0:30:21.261560	LOG	Server <---------- DUT
0:30:21.263572	LOG	MAC Command RXParamSetupAns received
0:30:21.266099	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0279, FOpts:), FPort: e0, FRMPayload: 09), MIC: 166cf1f7)
0:30:21.267068	LOG	Frame command sent to the DUT
0:30:21.268068	LOG	PULL_RESP: Protocol version = 02, Token = 1783, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 624546902, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAeQLgHRZs8fc='}}
0:30:21.270069	LOG	Server ----------> DUT
0:30:21.272068	LOG	TX_ACK: 02 1783 05 0016c001ff1025bf
0:30:24.444273	LOG	First uplink received. Open reception window.
0:30:24.558250	LOG	PUSH_ACK: 02 2424 01
0:30:24.560215	LOG	GPS Time from gateway: 1385114761701
0:30:24.561215	LOG	PUSH_DATA: Protocol version = 02, Token = 2424, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 625846185, 'time': '2023-11-27T10:05:42.701660Z', 'tmms': 1385114761701, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3312, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAMAXgGt7kWQfUFg==\'}]}
0:30:24.563216	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0530, FOpts:), FPort: e0, FRMPayload: 093501, MIC: 5907d416)
0:30:24.565221	LOG	Server <---------- DUT
0:30:24.566248	LOG	Frame Command Payload in the Answer: 093501
0:30:24.570723	LOG	RX Count received by DUT: 309
0:30:24.572722	LOG	Send Test Command RxAppCntReq process completed
0:30:24.576230	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:30:29.878675	LOG	GPS Time updated: 1385114767135
0:30:29.879643	LOG	PULL_DATA: 02 2fd8 02 0016c001ff1025bf
0:30:29.881644	LOG	PULL_ACK: 02 2fd8 04
0:30:31.146983	LOG	First uplink received. Open reception window.
0:30:31.251267	LOG	PUSH_ACK: 02 6997 01
0:30:31.253269	LOG	GPS Time from gateway: 1385114768402
0:30:31.254303	LOG	PUSH_DATA: Protocol version = 02, Token = 6997, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 632546306, 'time': '2023-11-27T10:05:49.401780Z',

		'tmms': 1385114768402, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3297, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAMQUCvFwEbH9Cu0u79eA='}]}
0:30:31.255305	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0531, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4bbbf5e0)
0:30:31.257267	LOG	Server <---------- DUT
0:30:31.259268	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 027a, FOpts:), FPort: e0, FRMPayload: 0500), MIC: e8479c5d)
0:30:31.260783	LOG	Frame command sent to the DUT
0:30:31.261787	LOG	PULL_RESP: Protocol version = 02, Token = 7e63, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 634546306, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAegLgG6roR5xd'}}
0:30:31.262787	LOG	Server ----------> DUT
0:30:31.266787	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:30:31.272790	LOG	Send Test Command TxFramesCtrlReq process starts
0:30:36.151787	LOG	First uplink received. Open reception window.
0:30:36.267598	LOG	PUSH_ACK: 02 ed99 01
0:30:36.269566	LOG	GPS Time from gateway: 1385114773401
0:30:36.270565	LOG	PUSH_DATA: Protocol version = 02, Token = ed99, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 637546056, 'time': '2023-11-27T10:05:54.401529Z', 'tmms': 1385114773401, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAMgUCdj5dcqkW12oou8E='}]}
0:30:36.272566	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0532, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6a28bbc1)
0:30:36.273566	LOG	Server <---------- DUT
0:30:36.275566	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 027b, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 1ddedb65)
0:30:36.276565	LOG	Frame command sent to the DUT
0:30:36.278566	LOG	PULL_RESP: Protocol version = 02, Token = 81e8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 638546056, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAewLg9Scd3ttl'}}
0:30:36.279565	LOG	Server ----------> DUT
0:30:36.283077	LOG	Send Test Command TxFramesCtrlReq process completed
0:30:36.286076	LOG	Send Test Command TxFramesCtrlReq process starts
0:30:40.058640	LOG	GPS Time updated: 1385114777308
0:30:40.059639	LOG	PULL_DATA: 02 d89f 02 0016c001ff1025bf
0:30:40.061733	LOG	PULL_ACK: 02 d89f 04
0:30:41.148203	LOG	First uplink received. Open reception window.
0:30:41.262556	LOG	PUSH_ACK: 02 0869 01
0:30:41.264593	LOG	GPS Time from gateway: 1385114778401
0:30:41.265591	LOG	PUSH_DATA: Protocol version = 02, Token = 0869, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 642545796, 'time': '2023-11-27T10:05:59.401268Z', 'tmms': 1385114778401, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAMwUCiQYaf7+se+EKZDQ='}]}
0:30:41.266591	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0533, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e10a6434)
0:30:41.268557	LOG	Server <---------- DUT
0:30:41.270562	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 027c, FOpts:), FPort: e0, FRMPayload: 0700), MIC: cd7a82da)
0:30:41.271561	LOG	Frame command sent to the DUT
0:30:41.273561	LOG	PULL_RESP: Protocol version = 02, Token = 4897, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 643545796, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAfALggcnNeoLa'}}
0:30:41.274560	LOG	Server ----------> DUT
0:30:41.277560	LOG	Send Test Command TxFramesCtrlReq process completed
0:30:41.280561	LOG	Send Test Command TxFramesCtrlReq process starts
0:30:46.144924	LOG	First uplink received. Open reception window.
0:30:46.259279	LOG	PUSH_ACK: 02 a309 01
0:30:46.260747	LOG	GPS Time from gateway: 1385114783401
0:30:46.262753	LOG	PUSH_DATA: Protocol version = 02, Token = a309, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 647545533, 'time': '2023-11-27T10:06:04.401004Z', 'tmms': 1385114783401, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACANAUCOnGT80vOsAv+qns='}]}
0:30:46.264751	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0534, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0bfeaa7b)
0:30:46.265752	LOG	Server <---------- DUT
0:30:46.267754	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 027d, FOpts:), FPort: e0, FRMPayload: 0700), MIC: e716be32)
0:30:46.268786	LOG	Frame command sent to the DUT
0:30:46.270787	LOG	PULL_RESP: Protocol version = 02, Token = 8b20, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 648545533, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAfQLg3dPnFr4y'}}
0:30:46.271785	LOG	Server ----------> DUT
0:30:46.274790	LOG	Send Test Command TxFramesCtrlReq process completed
0:30:46.277827	LOG	Send Test Command TxFramesCtrlReq process starts
0:30:50.258822	LOG	GPS Time updated: 1385114787514
0:30:50.259822	LOG	PULL_DATA: 02 e6d0 02 0016c001ff1025bf
0:30:50.261792	LOG	PULL_ACK: 02 e6d0 04
0:30:51.144640	LOG	First uplink received. Open reception window.
0:30:51.247557	LOG	PUSH_ACK: 02 79ff 01
0:30:51.249558	LOG	GPS Time from gateway: 1385114788401
0:30:51.250525	LOG	PUSH_DATA: Protocol version = 02, Token = 79ff, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 652545270, 'time': '2023-11-27T10:06:09.400739Z', 'tmms': 1385114788401, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACANQUCfU4xAZjs2WEIJvw='}]}
0:30:51.252530	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0535, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 610826fc)
0:30:51.254540	LOG	Server <---------- DUT
0:30:51.256529	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 027e, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 7f0272da)
0:30:51.257528	LOG	Frame command sent to the DUT
0:30:51.258528	LOG	PULL_RESP: Protocol version = 02, Token = 06ba, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 653545270, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAfgLgVK9/AnLa'}}
0:30:51.260031	LOG	Server ----------> DUT
0:30:51.263034	LOG	Send Test Command TxFramesCtrlReq process completed
0:30:51.273036	LOG	Send Test Command TxFramesCtrlReq process starts
0:30:56.149465	LOG	First uplink received. Open reception window.
0:30:56.258994	LOG	PUSH_ACK: 02 b483 01
0:30:56.261505	LOG	GPS Time from gateway: 1385114793400
0:30:56.262506	LOG	PUSH_DATA: Protocol version = 02, Token = b483, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 657545019, 'time': '2023-11-27T10:06:14.400489Z', 'tmms': 1385114793400, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.8, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACANgUCEoxGL5aCugRNekQ='}]}
0:30:56.264504	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0536, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 044d7a44)
0:30:56.265503	LOG	Server <---------- DUT
0:30:56.267504	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 027f, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: a04b6274)
0:30:56.269504	LOG	Frame command sent to the DUT
0:30:56.270503	LOG	PULL_RESP: Protocol version = 02, Token = 5117, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 658545019, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'oAAAAAAAfwLgdAuSXEz23MrO4HpT/w3mzmtT1r65qYp0ZV76m+OFG2apIDDy4D2mDU8uq1JtdPw5GoJzoEtidA=='}}
0:30:56.271504	LOG	Server ----------> DUT
0:30:56.274504	LOG	Send Test Command TxFramesCtrlReq process completed
0:30:56.277570	LOG	Check previous uplink data rate process starts
0:30:56.281515	LOG	Uplink received with expected Data Rate
0:30:56.284511	LOG	Check ACK bit in next uplink process starts
0:31:00.258764	LOG	GPS Time updated: 1385114797509
0:31:00.260269	LOG	PULL_DATA: 02 2e40 02 0016c001ff1025bf
0:31:00.261274	LOG	PULL_ACK: 02 2e40 04
0:31:01.761878	LOG	First uplink received. Open reception window.
0:31:01.870635	LOG	PUSH_ACK: 02 b45e 01
0:31:01.872635	LOG	GPS Time from gateway: 1385114799010
0:31:01.873635	LOG	PUSH_DATA: Protocol version = 02, Token = b45e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 663154562, 'time': '2023-11-27T10:06:20.010030Z', 'tmms': 1385114799010, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3297, 'rssi': -51, 'size': 12, 'data': 'QAAAAACgNwVnuGCL'}]}
0:31:01.875607	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 0537, FOpts:), FPort: , FRMPayload: , MIC: 67b8608b)
0:31:01.876641	LOG	Server <---------- DUT
0:31:01.878616	LOG	ACK bit in FCtrl field is set
0:31:01.880642	LOG	Check ACK bit in next uplink tested successfully
0:31:01.887160	LOG	Send Test Command RxAppCntReq process starts
0:31:06.552779	LOG	First uplink received. Open reception window.
0:31:06.660121	LOG	PUSH_ACK: 02 181d 01
0:31:06.661642	LOG	GPS Time from gateway: 1385114803810
0:31:06.663629	LOG	PUSH_DATA: Protocol version = 02, Token = 181d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 667954634, 'time': '2023-11-27T10:06:24.810102Z', 'tmms': 1385114803810, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAOAUCg/i0/Tu7RxBfHbM='}]}
0:31:06.664637	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0538, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 105f1db3)
0:31:06.666643	LOG	Server <---------- DUT
0:31:06.668702	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0280, FOpts:), FPort: e0, FRMPayload: 09), MIC: 97f83441)
0:31:06.669702	LOG	Frame command sent to the DUT
0:31:06.671702	LOG	PULL_RESP: Protocol version = 02, Token = 00a7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 669954634, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAgALgqJf4NEE='}}

0:31:06.672702	LOG	Server ----------> DUT
0:31:06.674702	LOG	TX_ACK: 02 00a7 05 0016c001ff1025bf
0:31:09.861257	LOG	Multiple frames received. Selecting the correct frame...
0:31:09.862290	LOG	Frame selected: {'jver': 1, 'tmst': 671254007, 'time': '2023-11-27T10:06:28.109473Z', 'tmms': 1385114807109, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3312, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAOQXg8J/rBc8T6A=='}
0:31:09.864523	LOG	First uplink received. Open reception window.
0:31:09.971121	LOG	PUSH_ACK: 02 f506 01
0:31:09.973121	LOG	GPS Time from gateway: 1385114807109
0:31:09.974098	LOG	PUSH_DATA: Protocol version = 02, Token = f506, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 671254007, 'time': '2023-11-27T10:06:28.109473Z', 'tmms': 1385114807109, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3312, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAOQXg8J/rBc8T6A=='}, {'jver': 1, 'tmst': 671254012, 'time': '2023-11-27T10:06:28.109478Z', 'tmms': 1385114807109, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'mid': 10, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -116, 'lsnr': -9.8, 'foff': -27809, 'rssi': -107, 'size': 16, 'data': 'QAAAAACAOQXg8J/rBc8T6A=='}]}
0:31:09.976089	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0539, FOpts:), FPort: e0, FRMPayload: 093c01, MIC: 05cf13e8)
0:31:09.977120	LOG	Server <---------- DUT
0:31:09.978119	LOG	Frame Command Payload in the Answer: 093c01
0:31:09.982242	LOG	RX Count received by DUT: 316
0:31:09.985214	LOG	Send Test Command RxAppCntReq process completed
0:31:09.992209	LOG	Send MAC command block process starts
0:31:10.447980	LOG	GPS Time updated: 1385114807692
0:31:10.449471	LOG	PULL_DATA: 02 b6cd 02 0016c001ff1025bf
0:31:10.451473	LOG	PULL_ACK: 02 b6cd 04
0:31:16.551070	LOG	First uplink received. Open reception window.
0:31:16.658458	LOG	PUSH_ACK: 02 a5be 01
0:31:16.660426	LOG	GPS Time from gateway: 1385114813809
0:31:16.662427	LOG	PUSH_DATA: Protocol version = 02, Token = a5be, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 677954111, 'time': '2023-11-27T10:06:34.809576Z', 'tmms': 1385114813809, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAOgUC2Bgx3xXp5CZjnps='}]}
0:31:16.663435	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 053a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 26639e9b)
0:31:16.665431	LOG	Server <---------- DUT
0:31:16.666948	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0281, FOpts:), FPort: 00, FRMPayload: 03400700010550d2ad84), MIC: 826d972d)
0:31:16.668952	LOG	PULL_RESP: Protocol version = 02, Token = e084, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 679954111, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAgQIAlqzokhsdtEl1aoJtly0='}}
0:31:16.669952	LOG	Server ----------> DUT
0:31:16.672952	LOG	TX_ACK: 02 e084 05 0016c001ff1025bf
0:31:20.658489	LOG	GPS Time updated: 1385114817917
0:31:20.659490	LOG	PULL_DATA: 02 36f9 02 0016c001ff1025bf
0:31:20.661619	LOG	PULL_ACK: 02 36f9 04
0:31:21.562148	LOG	First uplink received. Open reception window.
0:31:21.664239	LOG	PUSH_ACK: 02 0232 01
0:31:21.665239	LOG	GPS Time from gateway: 1385114818819

0:31:21.667749	LOG	PUSH_DATA: Protocol version = 02, Token = 0232, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 682964211, 'time': '2023-11-27T10:06:39.819677Z', 'tmms': 1385114818819, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3309, 'rssi': -51, 'size': 24, 'data': 'QAAAAACEOwUDBwUHAm8fpOSjhbekY5gZ'}]}
0:31:21.668759	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 053b, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: a4639819)
0:31:21.670749	LOG	Server <---------- DUT
0:31:21.671780	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:31:21.673746	LOG	Command Answer: 03070507
0:31:21.730319	LOG	MAC command communication completed
0:31:21.734319	LOG	Send Test Command RxAppCntReq process starts
0:31:26.560484	LOG	First uplink received. Open reception window.
0:31:26.663584	LOG	PUSH_ACK: 02 70e9 01
0:31:26.665619	LOG	GPS Time from gateway: 1385114823809
0:31:26.666619	LOG	PUSH_DATA: Protocol version = 02, Token = 70e9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 687953694, 'time': '2023-11-27T10:06:44.809159Z', 'tmms': 1385114823809, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3297, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCPAUFBwI3uDjqnq1hwxiP4A=='}]}
0:31:26.667903	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 053c, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: c3188fe0)
0:31:26.669902	LOG	Server <---------- DUT
0:31:26.670936	LOG	MAC Command RXParamSetupAns received
0:31:26.672938	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0282, FOpts:), FPort: e0, FRMPayload: 09), MIC: d4b2e6bb)
0:31:26.673935	LOG	Frame command sent to the DUT
0:31:26.675939	LOG	PULL_RESP: Protocol version = 02, Token = 6060, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 689953694, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAggLg1NSy5rs='}}
0:31:26.676936	LOG	Server ----------> DUT
0:31:26.687590	LOG	TX_ACK: 02 6060 05 0016c001ff1025bf
0:31:29.857209	LOG	First uplink received. Open reception window.
0:31:29.962758	LOG	PUSH_ACK: 02 02e2 01
0:31:29.964730	LOG	GPS Time from gateway: 1385114827108
0:31:29.965729	LOG	PUSH_DATA: Protocol version = 02, Token = 02e2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 691252759, 'time': '2023-11-27T10:06:48.108222Z', 'tmms': 1385114827108, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3316, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAPQXgHGqPlBFmTQ=='}]}
0:31:29.967734	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 053d, FOpts:), FPort: e0, FRMPayload: 093d01, MIC: 9411664d)
0:31:29.968734	LOG	Server <---------- DUT
0:31:29.969734	LOG	Frame Command Payload in the Answer: 093d01
0:31:29.973734	LOG	RX Count received by DUT: 317
0:31:29.975767	LOG	Send Test Command RxAppCntReq process completed
0:31:29.979291	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:31:30.667639	LOG	GPS Time updated: 1385114827918
0:31:30.669639	LOG	PULL_DATA: 02 ad7c 02 0016c001ff1025bf
0:31:30.670642	LOG	PULL_ACK: 02 ad7c 04
0:31:36.554228	LOG	First uplink received. Open reception window.
0:31:36.658550	LOG	PUSH_ACK: 02 e1c1 01
0:31:36.660517	LOG	GPS Time from gateway: 1385114833808

0:31:36.661516	LOG	PUSH_DATA: Protocol version = 02, Token = e1c1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 697953073, 'time': '2023-11-27T10:06:54.808536Z', 'tmms': 1385114833808, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3301, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAPgUCA3d46ChRczKg27g='}]}
0:31:36.663517	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 053e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 32a0dbb8)
0:31:36.664521	LOG	Server <---------- DUT
0:31:36.666522	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0283, FOpts:), FPort: e0, FRMPayload: 0500), MIC: c21d1fa4)
0:31:36.668067	LOG	Frame command sent to the DUT
0:31:36.669064	LOG	PULL_RESP: Protocol version = 02, Token = c6be, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 699953073, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAgwLg8ZvCHR+k'}}
0:31:36.671065	LOG	Server ----------> DUT
0:31:36.673033	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:31:36.680032	LOG	Send Test Command TxFramesCtrlReq process starts
0:31:40.867781	LOG	GPS Time updated: 1385114838121
0:31:40.869782	LOG	PULL_DATA: 02 e095 02 0016c001ff1025bf
0:31:40.870813	LOG	PULL_ACK: 02 e095 04
0:31:41.555518	LOG	First uplink received. Open reception window.
0:31:41.664511	LOG	PUSH_ACK: 02 45fc 01
0:31:41.665477	LOG	GPS Time from gateway: 1385114838808
0:31:41.667986	LOG	PUSH_DATA: Protocol version = 02, Token = 45fc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 702952818, 'time': '2023-11-27T10:06:59.808280Z', 'tmms': 1385114838808, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3309, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAPwUCT5STduhi7AHuk0E='}]}
0:31:41.668985	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 053f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 01ee9341)
0:31:41.670986	LOG	Server <---------- DUT
0:31:41.672985	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0284, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 29724e68)
0:31:41.673984	LOG	Frame command sent to the DUT
0:31:41.675984	LOG	PULL_RESP: Protocol version = 02, Token = a522, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 703952818, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAhALgfropck5o'}}
0:31:41.676984	LOG	Server ----------> DUT
0:31:41.679984	LOG	Send Test Command TxFramesCtrlReq process completed
0:31:41.682985	LOG	Send Test Command TxFramesCtrlReq process starts
0:31:46.551613	LOG	First uplink received. Open reception window.
0:31:46.666789	LOG	PUSH_ACK: 02 3cd9 01
0:31:46.668794	LOG	GPS Time from gateway: 1385114843808
0:31:46.669829	LOG	PUSH_DATA: Protocol version = 02, Token = 3cd9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 707952557, 'time': '2023-11-27T10:07:04.808017Z', 'tmms': 1385114843808, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.8, 'foff': -3309, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAQAUCwMeplHvVrIXzNpw='}]}
0:31:46.671793	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0540, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 85f3369c)
0:31:46.672793	LOG	Server <---------- DUT
0:31:46.674793	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0285, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 3968637c)
0:31:46.676795	LOG	Frame command sent to the DUT

0:31:46.677828	LOG	PULL_RESP: Protocol version = 02, Token = e0b9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 708952557, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAhQLgFyA5aGN8'}}
0:31:46.679796	LOG	Server ----------> DUT
0:31:46.681810	LOG	Send Test Command TxFramesCtrlReq process completed
0:31:46.685857	LOG	Send Test Command TxFramesCtrlReq process starts
0:31:46.689865	LOG	TX_ACK: 02 e0b9 05 0016c001ff1025bf
0:31:50.877896	LOG	GPS Time updated: 1385114848135
0:31:50.879896	LOG	PULL_DATA: 02 5bac 02 0016c001ff1025bf
0:31:50.880898	LOG	PULL_ACK: 02 5bac 04
0:31:51.549727	LOG	First uplink received. Open reception window.
0:31:51.652084	LOG	PUSH_ACK: 02 9300 01
0:31:51.654052	LOG	GPS Time from gateway: 1385114848808
0:31:51.655051	LOG	PUSH_DATA: Protocol version = 02, Token = 9300, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 712952310, 'time': '2023-11-27T10:07:09.807771Z', 'tmms': 1385114848808, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3309, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAQQUCTnHfRtoTafvyQXI='}]}
0:31:51.657052	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0541, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fbf24172)
0:31:51.659054	LOG	Server <---------- DUT
0:31:51.660084	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0286, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 4aba9c8c)
0:31:51.662370	LOG	Frame command sent to the DUT
0:31:51.663362	LOG	PULL_RESP: Protocol version = 02, Token = 9792, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 713952310, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAhgLgnOdKupyM'}}
0:31:51.664365	LOG	Server ----------> DUT
0:31:51.667912	LOG	Send Test Command TxFramesCtrlReq process completed
0:31:51.670937	LOG	Send Test Command TxFramesCtrlReq process starts
0:31:56.558694	LOG	First uplink received. Open reception window.
0:31:56.669247	LOG	PUSH_ACK: 02 f9c6 01
0:31:56.671214	LOG	GPS Time from gateway: 1385114853807
0:31:56.672214	LOG	PUSH_DATA: Protocol version = 02, Token = f9c6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 717952041, 'time': '2023-11-27T10:07:14.807501Z', 'tmms': 1385114853807, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3304, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAQgUCJXg3lAtQxoI3FNA='}]}
0:31:56.673213	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0542, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 823714d0)
0:31:56.675215	LOG	Server <---------- DUT
0:31:56.677214	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0287, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 4cd64b97)
0:31:56.678213	LOG	Frame command sent to the DUT
0:31:56.680214	LOG	PULL_RESP: Protocol version = 02, Token = e517, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 718952041, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAhwLg0SNM1kuX'}}
0:31:56.681213	LOG	Server ----------> DUT
0:31:56.684218	LOG	Send Test Command TxFramesCtrlReq process completed
0:31:56.693218	LOG	Send Test Command TxFramesCtrlReq process starts
0:32:01.087966	LOG	GPS Time updated: 1385114858336
0:32:01.088966	LOG	PULL_DATA: 02 a2fc 02 0016c001ff1025bf
0:32:01.091005	LOG	PULL_ACK: 02 a2fc 04

0:32:01.549121	LOG	First uplink received. Open reception window.
0:32:01.652908	LOG	PUSH_ACK: 02 f912 01
0:32:01.654908	LOG	GPS Time from gateway: 1385114858807
0:32:01.655935	LOG	PUSH_DATA: Protocol version = 02, Token = f912, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 722951790, 'time': '2023-11-27T10:07:19.807249Z', 'tmms': 1385114858807, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3304, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAQwUCpwl19nhGfl2zLIo='}]}
0:32:01.657958	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0543, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5db32c8a)
0:32:01.658940	LOG	Server <---------- DUT
0:32:01.660909	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0288, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 36af3777)
0:32:01.661942	LOG	Frame command sent to the DUT
0:32:01.663908	LOG	PULL_RESP: Protocol version = 02, Token = 250e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 723951790, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'oAAAAAAAiALgK3MEOJJcgJ9FANB5QH6G2TFWPz7TD/0eni/JinZvTx9yal48ZrU6vqvKXeU2M9uZhdheNq83dw==''}}
0:32:01.664907	LOG	Server ----------> DUT
0:32:01.668061	LOG	Send Test Command TxFramesCtrlReq process completed
0:32:01.671565	LOG	Check previous uplink data rate process starts
0:32:01.676569	LOG	Uplink received with expected Data Rate
0:32:01.679571	LOG	Check ACK bit in next uplink process starts
0:32:05.484028	LOG	First uplink received. Open reception window.
0:32:05.591816	LOG	PUSH_ACK: 02 e5fb 01
0:32:05.593816	LOG	GPS Time from gateway: 1385114862738
0:32:05.594788	LOG	PUSH_DATA: Protocol version = 02, Token = e5fb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 726882590, 'time': '2023-11-27T10:07:23.738047Z', 'tmms': 1385114862738, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3320, 'rssi': -52, 'size': 12, 'data': 'QAAAAACgRAVGmhyl'}]}
0:32:05.595824	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 0544, FOpts:), FPort: , FRMPayload: , MIC: 469a1ca5)
0:32:05.597818	LOG	Server <---------- DUT
0:32:05.598817	LOG	ACK bit in FCtrl field is set
0:32:05.601783	LOG	Check ACK bit in next uplink tested successfully
0:32:05.606362	LOG	Send Test Command RxAppCntReq process starts
0:32:11.108114	LOG	GPS Time updated: 1385114868362
0:32:11.109114	LOG	PULL_DATA: 02 f492 02 0016c001ff1025bf
0:32:11.111146	LOG	PULL_ACK: 02 f492 04
0:32:11.557376	LOG	First uplink received. Open reception window.
0:32:11.673538	LOG	PUSH_ACK: 02 77d5 01
0:32:11.675507	LOG	GPS Time from gateway: 1385114868806
0:32:11.676541	LOG	PUSH_DATA: Protocol version = 02, Token = 77d5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 732951270, 'time': '2023-11-27T10:07:29.806726Z', 'tmms': 1385114868806, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3301, 'rssi': -51, 'size': 20, 'data': 'QAAAAACARQUC//dqkdlV8e6znvo='}]}
0:32:11.678509	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0545, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: eeb39efa)
0:32:11.679540	LOG	Server <---------- DUT

0:32:11.682046	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0289, FOpts:), FPort: e0, FRMPayload: 09), MIC: 4111d55f)
0:32:11.683082	LOG	Frame command sent to the DUT
0:32:11.684119	LOG	PULL_RESP: Protocol version = 02, Token = 384c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 734951270, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAiQLg/0ER1V8='}}
0:32:11.686089	LOG	Server ----------> DUT
0:32:11.691087	LOG	TX_ACK: 02 384c 05 0016c001ff1025bf
0:32:14.848298	LOG	#**********CURRENT BEACON SENT**********#
0:32:14.849329	LOG	PULL_RESP: Protocol version = 02, Token = 75ba, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385114880000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAALY9ShrUAAAAAAAAAAA='}}
0:32:14.851297	LOG	Server ----------> DUT
0:32:14.852330	LOG	#**********#
0:32:14.861872	LOG	#**********NEXT BEACON QUEUED**********#
0:32:14.863838	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385115008000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACALY9SvmgAAAAAAAAAAA='}}
0:32:14.864844	LOG	Server ----------> DUT
0:32:14.866840	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 802d8f52, CRC1: be68, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385115008000
0:32:14.867872	LOG	#**********#
0:32:14.868840	LOG	Next BEACON scheduled at GPS time (ms): 1385115136000
0:32:14.869870	LOG	First uplink received. Open reception window.
0:32:14.871910	LOG	TX_ACK: 02 75ba 05 0016c001ff1025bf
0:32:14.983595	LOG	PUSH_ACK: 02 5357 01
0:32:14.985597	LOG	GPS Time from gateway: 1385114872106
0:32:14.988111	LOG	PUSH_DATA: Protocol version = 02, Token = 5357, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 736250838, 'time': '2023-11-27T10:07:33.106295Z', 'tmms': 1385114872106, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3320, 'rssi': -52, 'size': 16, 'data': 'QAAAAACARgXgYNnOyc0a/w=='}]}
0:32:14.989111	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0546, FOpts:), FPort: e0, FRMPayload: 094401, MIC: c9cd1aff)
0:32:14.990142	LOG	Server <---------- DUT
0:32:14.992135	LOG	Frame Command Payload in the Answer: 094401
0:32:14.996112	LOG	RX Count received by DUT: 324
0:32:14.998112	LOG	Send Test Command RxAppCntReq process completed
0:32:15.003334	LOG	End Test Step: Test packet error rate for SF8BW125 using RX1 window
0:32:15.007334	LOG	Partial Verdict: PASS
0:32:15.010870	LOG	==========
0:32:15.014875	LOG	==========
0:32:15.017877	LOG	Start Test Step: Test packet error rate for SF7BW125 using RX1 window
0:32:15.029916	LOG	Step 03-09
0:32:15.033949	LOG	Send MAC command block process starts
0:32:21.147773	LOG	GPS Time updated: 1385114878383
0:32:21.149753	LOG	PULL_DATA: 02 5390 02 0016c001ff1025bf
0:32:21.150740	LOG	PULL_ACK: 02 5390 04

0:32:21.553658	LOG	First uplink received. Open reception window.
0:32:21.665750	LOG	PUSH_ACK: 02 0c90 01
0:32:21.667255	LOG	GPS Time from gateway: 1385114878806
0:32:21.669261	LOG	PUSH_DATA: Protocol version = 02, Token = 0c90, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 742950760, 'time': '2023-11-27T10:07:39.806216Z', 'tmms': 1385114878806, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3304, 'rssi': -51, 'size': 20, 'data': 'QAAAAACARwUCJRVdbbBwAAeCrYY='}]}
0:32:21.671261	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0547, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0782ad86)
0:32:21.672293	LOG	Server <---------- DUT
0:32:21.674294	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 028a, FOpts:), FPort: 00, FRMPayload: 03500700010500d2ad84), MIC: a3fb34f7)
0:32:21.675293	LOG	PULL_RESP: Protocol version = 02, Token = 537e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 744950760, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAigIAhbfszDja++ZsCKP7NPc='}}
0:32:21.677292	LOG	Server ----------> DUT
0:32:21.679289	LOG	TX_ACK: 02 537e 05 0016c001ff1025bf
0:32:26.505864	LOG	First uplink received. Open reception window.
0:32:26.615264	LOG	PUSH_ACK: 02 6add 01
0:32:26.617231	LOG	GPS Time from gateway: 1385114883765
0:32:26.618231	LOG	PUSH_DATA: Protocol version = 02, Token = 6add, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 747909406, 'time': '2023-11-27T10:07:44.764861Z', 'tmms': 1385114883765, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3309, 'rssi': -51, 'size': 24, 'data': 'QAAAAACESAUDBwUHAocUqISoZ1qsogdf'}]}
0:32:26.620231	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0548, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: aca2075f)
0:32:26.621236	LOG	Server <---------- DUT
0:32:26.623238	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:32:26.624236	LOG	Command Answer: 03070507
0:32:26.680771	LOG	MAC command communication completed
0:32:26.683778	LOG	Send Test Command RxAppCntReq process starts
0:32:31.337761	LOG	GPS Time updated: 1385114888597
0:32:31.339764	LOG	PULL_DATA: 02 e560 02 0016c001ff1025bf
0:32:31.340765	LOG	PULL_ACK: 02 e560 04
0:32:31.505094	LOG	First uplink received. Open reception window.
0:32:31.614996	LOG	PUSH_ACK: 02 a440 01
0:32:31.616962	LOG	GPS Time from gateway: 1385114888759
0:32:31.617965	LOG	PUSH_DATA: Protocol version = 02, Token = a440, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 752904003, 'time': '2023-11-27T10:07:49.759457Z', 'tmms': 1385114888759, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3313, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCSQUFBwIGTp7EWUyCh30JEg=='}]}
0:32:31.619962	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0549, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 877d0912)
0:32:31.620966	LOG	Server <---------- DUT
0:32:31.623001	LOG	MAC Command RXParamSetupAns received
0:32:31.624000	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 028b, FOpts:), FPort: e0, FRMPayload: 09), MIC: ebb3c2ae)
0:32:31.625000	LOG	Frame command sent to the DUT

0:32:31.626999	LOG	PULL_RESP: Protocol version = 02, Token = 830a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 754904003, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAiwLge+uzwq4='}}
0:32:31.628001	LOG	Server ----------> DUT
0:32:31.638541	LOG	TX_ACK: 02 830a 05 0016c001ff1025bf
0:32:34.760902	LOG	First uplink received. Open reception window.
0:32:34.865809	LOG	PUSH_ACK: 02 0d37 01
0:32:34.867810	LOG	GPS Time from gateway: 1385114892017
0:32:34.868810	LOG	PUSH_DATA: Protocol version = 02, Token = 0d37, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 756161774, 'time': '2023-11-27T10:07:53.017228Z', 'tmms': 1385114892017, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3328, 'rssi': -51, 'size': 16, 'data': 'QAAAAACASgXg6lm/kunkYA=='}]}
0:32:34.869776	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 054a, FOpts:), FPort: e0, FRMPayload: 094501, MIC: 92e9e460)
0:32:34.871781	LOG	Server <---------- DUT
0:32:34.872781	LOG	Frame Command Payload in the Answer: 094501
0:32:34.876814	LOG	RX Count received by DUT: 325
0:32:34.878787	LOG	Send Test Command RxAppCntReq process completed
0:32:34.881822	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:32:41.497712	LOG	GPS Time updated: 1385114898754
0:32:41.499679	LOG	PULL_DATA: 02 4077 02 0016c001ff1025bf
0:32:41.500681	LOG	PULL_ACK: 02 4077 04
0:32:41.502680	LOG	First uplink received. Open reception window.
0:32:41.603740	LOG	PUSH_ACK: 02 0139 01
0:32:41.605244	LOG	GPS Time from gateway: 1385114898759
0:32:41.607278	LOG	PUSH_DATA: Protocol version = 02, Token = 0139, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 762903381, 'time': '2023-11-27T10:07:59.758834Z', 'tmms': 1385114898759, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3308, 'rssi': -51, 'size': 20, 'data': 'QAAAAACASwUCUF0v7OmCaPoQHYw='}]}
0:32:41.609248	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 054b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fa101d8c)
0:32:41.611250	LOG	Server <---------- DUT
0:32:41.612248	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 028c, FOpts:), FPort: e0, FRMPayload: 0500), MIC: a08b2992)
0:32:41.614248	LOG	Frame command sent to the DUT
0:32:41.615757	LOG	PULL_RESP: Protocol version = 02, Token = 69f1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 764903381, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAjALg9pqgiymS'}}
0:32:41.616757	LOG	Server ----------> DUT
0:32:41.620770	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:32:41.626778	LOG	Send Test Command TxFramesCtrlReq process starts
0:32:46.501532	LOG	First uplink received. Open reception window.
0:32:46.616934	LOG	PUSH_ACK: 02 3ea3 01
0:32:46.617938	LOG	GPS Time from gateway: 1385114903758
0:32:46.620359	LOG	PUSH_DATA: Protocol version = 02, Token = 3ea3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 767903126, 'time': '2023-11-27T10:08:04.758578Z', 'tmms': 1385114903758, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.0, 'foff': -3308, 'rssi': -51, 'size': 20, 'data': 'QAAAAACATAUCNwDKi9bSPoxb4cs='}]}
0:32:46.621365	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 054c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8c5be1cb)
0:32:46.623364	LOG	Server <---------- DUT

0:32:46.625363	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 028d, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 843d9f43)
0:32:46.626400	LOG	Frame command sent to the DUT
0:32:46.627397	LOG	PULL_RESP: Protocol version = 02, Token = 92a8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 768903126, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAjQLggWKEPZ9D'}}
0:32:46.629396	LOG	Server ----------> DUT
0:32:46.631364	LOG	Send Test Command TxFramesCtrlReq process completed
0:32:46.634364	LOG	Send Test Command TxFramesCtrlReq process starts
0:32:51.503319	LOG	First uplink received. Open reception window.
0:32:51.617186	LOG	PUSH_ACK: 02 b61a 01
0:32:51.619187	LOG	GPS Time from gateway: 1385114908758
0:32:51.620724	LOG	PUSH_DATA: Protocol version = 02, Token = b61a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 772902869, 'time': '2023-11-27T10:08:09.758320Z', 'tmms': 1385114908758, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3305, 'rssi': -51, 'size': 20, 'data': 'QAAAAACATQUCJY0NFa3WNhUp5UU='}]}
0:32:51.621729	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 054d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1529e545)
0:32:51.622728	LOG	Server <---------- DUT
0:32:51.624733	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 028e, FOpts:), FPort: e0, FRMPayload: 0700), MIC: a66176a9)
0:32:51.626728	LOG	Frame command sent to the DUT
0:32:51.627727	LOG	PULL_RESP: Protocol version = 02, Token = aa11, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 773902869, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAjgLg2WGmYXap'}}
0:32:51.628727	LOG	Server ----------> DUT
0:32:51.631728	LOG	Send Test Command TxFramesCtrlReq process completed
0:32:51.635729	LOG	Send Test Command TxFramesCtrlReq process starts
0:32:56.504381	LOG	First uplink received. Open reception window.
0:32:56.620099	LOG	PUSH_ACK: 02 acaa 01
0:32:56.622066	LOG	GPS Time from gateway: 1385114913758
0:32:56.623096	LOG	PUSH_DATA: Protocol version = 02, Token = acaa, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 777902602, 'time': '2023-11-27T10:08:14.758052Z', 'tmms': 1385114913758, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3308, 'rssi': -51, 'size': 20, 'data': 'QAAAAACATgUCQ0y24uPnht+ybkE='}]}
0:32:56.625102	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 054e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: dfb26e41)
0:32:56.626064	LOG	Server <---------- DUT
0:32:56.628607	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 028f, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 18626203)
0:32:56.629639	LOG	Frame command sent to the DUT
0:32:56.631640	LOG	PULL_RESP: Protocol version = 02, Token = d75c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 778902602, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAjwLgYxUYYmID'}}
0:32:56.632641	LOG	Server ----------> DUT
0:32:56.635607	LOG	Send Test Command TxFramesCtrlReq process completed
0:32:56.638880	LOG	Send Test Command TxFramesCtrlReq process starts
0:33:01.508013	LOG	First uplink received. Open reception window.
0:33:01.609943	LOG	PUSH_ACK: 02 8000 01
0:33:01.611910	LOG	GPS Time from gateway: 1385114918757

0:33:01.612910	LOG	PUSH_DATA: Protocol version = 02, Token = 8000, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 782902347, 'time': '2023-11-27T10:08:19.757796Z', 'tmms': 1385114918757, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3305, 'rssi': -51, 'size': 20, 'data': 'QAAAAACATwUCnRfdMpYLe/XJExE='}]}
0:33:01.614921	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 054f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f5c91311)
0:33:01.615910	LOG	Server <-------------------- DUT
0:33:01.617916	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0290, FOpts:), FPort: e0, FRMPayload: 0700), MIC: f5a14919)
0:33:01.618915	LOG	Frame command sent to the DUT
0:33:01.620915	LOG	PULL_RESP: Protocol version = 02, Token = 3468, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 783902347, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAkALgwKH1oUkZ'}}
0:33:01.621915	LOG	Server --------------------> DUT
0:33:01.623915	LOG	Send Test Command TxFramesCtrlReq process completed
0:33:01.634421	LOG	Send Test Command TxFramesCtrlReq process starts
0:33:01.827746	LOG	GPS Time updated: 1385114919076
0:33:01.829789	LOG	PULL_DATA: 02 01eb 02 0016c001ff1025bf
0:33:01.830789	LOG	PULL_ACK: 02 01eb 04
0:33:06.498803	LOG	First uplink received. Open reception window.
0:33:06.610534	LOG	PUSH_ACK: 02 9855 01
0:33:06.612537	LOG	GPS Time from gateway: 1385114923757
0:33:06.613534	LOG	PUSH_DATA: Protocol version = 02, Token = 9855, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 787902084, 'time': '2023-11-27T10:08:24.757531Z', 'tmms': 1385114923757, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3308, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAUAUCHZDeIqmJW65ckuM='}]}
0:33:06.614538	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0550, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ae5c92e3)
0:33:06.616535	LOG	Server <-------------------- DUT
0:33:06.618536	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0291, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 6635a449)
0:33:06.619537	LOG	Frame command sent to the DUT
0:33:06.621576	LOG	PULL_RESP: Protocol version = 02, Token = edac, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 788902084, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'oAAAAAAAkQLgXcZ57fxEpvXY0hEKnU4M7YOcQIK3S0+IfQ/n6ISD3eaWrLC1mP6bJSiaSA2ZhCzBXBiq0RmYzqPyUkRUw30EHB9QekCYM8lO9mrmQ4nIaCiiaelSSSbuMSCVV05oBqJRFnbfreOkJowUSa96IE/X1TKUu3NsihOi7exm9Ddsy/vFQZFrdKjJXA2zRyEVXOPqUY5hO/cVmyi9sPml4VBXB3j/zVPKrNiCGKUd/NkuTBucKUWbKAEbvBj/XG4BGWeYmtOY4zlVm9cYOSC7ndnMA3obsldNakSuVVQEocTPdQbnsx3aVGe8E2DlbbXZOQLSiJRmNaRJ'}}
0:33:06.622574	LOG	Server --------------------> DUT
0:33:06.625574	LOG	Send Test Command TxFramesCtrlReq process completed
0:33:06.627540	LOG	Check previous uplink data rate process starts
0:33:06.632541	LOG	Uplink received with expected Data Rate

0:33:06.634541	LOG	Check ACK bit in next uplink process starts
0:33:07.975970	LOG	First uplink received. Open reception window.
0:33:08.087147	LOG	PUSH_ACK: 02 7ba4 01
0:33:08.089147	LOG	GPS Time from gateway: 1385114925230
0:33:08.090152	LOG	PUSH_DATA: Protocol version = 02, Token = 7ba4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 789374478, 'time': '2023-11-27T10:08:26.229926Z', 'tmms': 1385114925230, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3309, 'rssi': -52, 'size': 12, 'data': 'QAAAAACgUQVxDRvv'}]}
0:33:08.091192	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 0551, FOpts:), FPort: , FRMPayload: , MIC: 710d1bef)
0:33:08.093188	LOG	Server <---------- DUT
0:33:08.094153	LOG	ACK bit in FCtrl field is set
0:33:08.097153	LOG	Check ACK bit in next uplink tested successfully
0:33:08.102152	LOG	Send Test Command RxAppCntReq process starts
0:33:11.498620	LOG	First uplink received. Open reception window.
0:33:11.602447	LOG	PUSH_ACK: 02 e5e5 01
0:33:11.604417	LOG	GPS Time from gateway: 1385114928757
0:33:11.606569	LOG	PUSH_DATA: Protocol version = 02, Token = e5e5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 792901829, 'time': '2023-11-27T10:08:29.757277Z', 'tmms': 1385114928757, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3293, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAUgUCkZuwyu7GAtyFs0c='}]}
0:33:11.607567	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0552, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: dc85b347)
0:33:11.608566	LOG	Server <---------- DUT
0:33:11.610567	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0292, FOpts:), FPort: e0, FRMPayload: 09), MIC: ab083d20)
0:33:11.611567	LOG	Frame command sent to the DUT
0:33:11.613567	LOG	PULL_RESP: Protocol version = 02, Token = 1ad4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 794901829, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAkgLgB6sIPSA='}}
0:33:11.614567	LOG	Server ----------> DUT
0:33:11.616569	LOG	TX_ACK: 02 1ad4 05 0016c001ff1025bf
0:33:12.028030	LOG	GPS Time updated: 1385114929285
0:33:12.028998	LOG	PULL_DATA: 02 82ca 02 0016c001ff1025bf
0:33:12.030030	LOG	PULL_ACK: 02 82ca 04
0:33:14.761071	LOG	First uplink received. Open reception window.
0:33:14.866813	LOG	PUSH_ACK: 02 4626 01
0:33:14.868815	LOG	GPS Time from gateway: 1385114932015
0:33:14.869817	LOG	PUSH_DATA: Protocol version = 02, Token = 4626, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 796159730, 'time': '2023-11-27T10:08:33.015176Z', 'tmms': 1385114932015, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3313, 'rssi': -52, 'size': 16, 'data': 'QAAAAACAUwXguyeBXYopLg=='}]}
0:33:14.871861	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0553, FOpts:), FPort: e0, FRMPayload: 094c01, MIC: 5d8a292e)
0:33:14.872854	LOG	Server <---------- DUT
0:33:14.873854	LOG	Frame Command Payload in the Answer: 094c01
0:33:14.877820	LOG	RX Count received by DUT: 332
0:33:14.880822	LOG	Send Test Command RxAppCntReq process completed
0:33:14.887329	LOG	Send MAC command block process starts
0:33:21.504003	LOG	First uplink received. Open reception window.
0:33:21.608884	LOG	PUSH_ACK: 02 5d4a 01
0:33:21.610852	LOG	GPS Time from gateway: 1385114938756

0:33:21.612852	LOG	PUSH_DATA: Protocol version = 02, Token = 5d4a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 802901313, 'time': '2023-11-27T10:08:39.756759Z', 'tmms': 1385114938756, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3305, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAVAUChh+SlulTdCArRaU='}]}
0:33:21.613852	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0554, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 202b45a5)
0:33:21.614856	LOG	Server <---------- DUT
0:33:21.616851	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0293, FOpts:), FPort: 00, FRMPayload: 03500700010510d2ad84), MIC: 7498a300)
0:33:21.618852	LOG	PULL_RESP: Protocol version = 02, Token = f030, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 804901313, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAkwIA5HQP8hoDirnkNHSYowA='}}
0:33:21.619852	LOG	Server ----------> DUT
0:33:21.622856	LOG	TX_ACK: 02 f030 05 0016c001ff1025bf
0:33:22.037999	LOG	GPS Time updated: 1385114939289
0:33:22.038999	LOG	PULL_DATA: 02 ca5e 02 0016c001ff1025bf
0:33:22.039999	LOG	PULL_ACK: 02 ca5e 04
0:33:26.510791	LOG	First uplink received. Open reception window.
0:33:26.623699	LOG	PUSH_ACK: 02 8308 01
0:33:26.625666	LOG	GPS Time from gateway: 1385114943761
0:33:26.626666	LOG	PUSH_DATA: Protocol version = 02, Token = 8308, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 807906296, 'time': '2023-11-27T10:08:44.761741Z', 'tmms': 1385114943761, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3308, 'rssi': -52, 'size': 24, 'data': 'QAAAAACEVQUDBwUHAqwoXYApwmQ/zsqq'}]}
0:33:26.628673	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0555, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 3fcecaaa)
0:33:26.629714	LOG	Server <---------- DUT
0:33:26.631708	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:33:26.632700	LOG	Command Answer: 03070507
0:33:26.689165	LOG	MAC command communication completed
0:33:26.692174	LOG	Send Test Command RxAppCntReq process starts
0:33:31.496765	LOG	First uplink received. Open reception window.
0:33:31.602381	LOG	PUSH_ACK: 02 02b9 01
0:33:31.603379	LOG	GPS Time from gateway: 1385114948756
0:33:31.605891	LOG	PUSH_DATA: Protocol version = 02, Token = 02b9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 812900893, 'time': '2023-11-27T10:08:49.756337Z', 'tmms': 1385114948756, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3293, 'rssi': -52, 'size': 22, 'data': 'QAAAAACCVgUFBwIm5bQrSqfxIP3tFA=='}]}
0:33:31.606919	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0556, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 20fded14)
0:33:31.607919	LOG	Server <---------- DUT
0:33:31.609930	LOG	MAC Command RXParamSetupAns received
0:33:31.610887	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0294, FOpts:), FPort: e0, FRMPayload: 09), MIC: 0e46c59e)
0:33:31.612889	LOG	Frame command sent to the DUT
0:33:31.613919	LOG	PULL_RESP: Protocol version = 02, Token = 1afb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 814900893, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAlALg2g5GxZ4='}}

0:33:31.614886	LOG	Server ----------> DUT
0:33:31.617887	LOG	TX_ACK: 02 1afb 05 0016c001ff1025bf
0:33:32.247818	LOG	GPS Time updated: 1385114949507
0:33:32.248817	LOG	PULL_DATA: 02 3fb8 02 0016c001ff1025bf
0:33:32.250818	LOG	PULL_ACK: 02 3fb8 04
0:33:34.764059	LOG	First uplink received. Open reception window.
0:33:34.875512	LOG	PUSH_ACK: 02 d372 01
0:33:34.877513	LOG	GPS Time from gateway: 1385114952014
0:33:34.878513	LOG	PUSH_DATA: Protocol version = 02, Token = d372, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 816159141, 'time': '2023-11-27T10:08:53.014585Z', 'tmms': 1385114952014, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3324, 'rssi': -52, 'size': 16, 'data': 'QAAAAACAVwXgW1PPFBSe2w==\'}]}
0:33:34.880519	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0557, FOpts:), FPort: e0, FRMPayload: 094d01, MIC: 14149edb)
0:33:34.881554	LOG	Server <---------- DUT
0:33:34.883531	LOG	Frame Command Payload in the Answer: 094d01
0:33:34.887033	LOG	RX Count received by DUT: 333
0:33:34.890030	LOG	Send Test Command RxAppCntReq process completed
0:33:34.893062	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:33:41.505767	LOG	First uplink received. Open reception window.
0:33:41.616614	LOG	PUSH_ACK: 02 6280 01
0:33:41.618613	LOG	GPS Time from gateway: 1385114958755
0:33:41.619581	LOG	PUSH_DATA: Protocol version = 02, Token = 6280, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 822900277, 'time': '2023-11-27T10:08:59.755720Z', 'tmms': 1385114958755, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3309, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAWAUCkiF/HKmsqPUa2kE=\'}]}
0:33:41.621623	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0558, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f51ada41)
0:33:41.622628	LOG	Server <---------- DUT
0:33:41.624628	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0295, FOpts:), FPort: e0, FRMPayload: 0500), MIC: aeaf6b03)
0:33:41.625628	LOG	Frame command sent to the DUT
0:33:41.627628	LOG	PULL_RESP: Protocol version = 02, Token = ef7a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 824900277, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAlQLgJcuur2sD'}}
0:33:41.628627	LOG	Server ----------> DUT
0:33:41.631630	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:33:41.637179	LOG	Send Test Command TxFramesCtrlReq process starts
0:33:42.257936	LOG	GPS Time updated: 1385114959506
0:33:42.258936	LOG	PULL_DATA: 02 1ce2 02 0016c001ff1025bf
0:33:42.260937	LOG	PULL_ACK: 02 1ce2 04
0:33:46.502844	LOG	First uplink received. Open reception window.
0:33:46.608152	LOG	PUSH_ACK: 02 801d 01
0:33:46.610152	LOG	GPS Time from gateway: 1385114963755
0:33:46.611155	LOG	PUSH_DATA: Protocol version = 02, Token = 801d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 827900019, 'time': '2023-11-27T10:09:04.755461Z', 'tmms': 1385114963755, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3309, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAWQUC0RLYnjQyHisci3Q=\'}]}
0:33:46.613119	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0559, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2b1c8b74)
0:33:46.614119	LOG	Server <---------- DUT

0:33:46.616121	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0296, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 254c2cc5)
0:33:46.618121	LOG	Frame command sent to the DUT
0:33:46.619153	LOG	PULL_RESP: Protocol version = 02, Token = 879b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 828900019, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAlgLgH1ElTCzF'}}
0:33:46.620152	LOG	Server ----------> DUT
0:33:46.623156	LOG	Send Test Command TxFramesCtrlReq process completed
0:33:46.626191	LOG	Send Test Command TxFramesCtrlReq process starts
0:33:51.504715	LOG	First uplink received. Open reception window.
0:33:51.614188	LOG	PUSH_ACK: 02 7249 01
0:33:51.616188	LOG	GPS Time from gateway: 1385114968755
0:33:51.617190	LOG	PUSH_DATA: Protocol version = 02, Token = 7249, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 832899759, 'time': '2023-11-27T10:09:09.755200Z', 'tmms': 1385114968755, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3305, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAWgUCvAeSEItGNF7TS/s='}]}
0:33:51.618191	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 055a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5ed34bfb)
0:33:51.620156	LOG	Server <---------- DUT
0:33:51.622159	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0297, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 7cd2d1a8)
0:33:51.623159	LOG	Frame command sent to the DUT
0:33:51.625197	LOG	PULL_RESP: Protocol version = 02, Token = 5a64, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 833899759, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAlwLgMT180tGo'}}
0:33:51.626193	LOG	Server ----------> DUT
0:33:51.629160	LOG	Send Test Command TxFramesCtrlReq process completed
0:33:51.632160	LOG	Send Test Command TxFramesCtrlReq process starts
0:33:52.467505	LOG	GPS Time updated: 1385114969719
0:33:52.468468	LOG	PULL_DATA: 02 bd57 02 0016c001ff1025bf
0:33:52.470764	LOG	PULL_ACK: 02 bd57 04
0:33:56.498431	LOG	First uplink received. Open reception window.
0:33:56.613828	LOG	PUSH_ACK: 02 2e3f 01
0:33:56.615829	LOG	GPS Time from gateway: 1385114973755
0:33:56.616829	LOG	PUSH_DATA: Protocol version = 02, Token = 2e3f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 837899502, 'time': '2023-11-27T10:09:14.754942Z', 'tmms': 1385114973755, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3309, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAWwUC30Ffgds68rCynZg='}]}
0:33:56.617830	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 055b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b0b29d98)
0:33:56.619829	LOG	Server <---------- DUT
0:33:56.621835	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0298, FOpts:), FPort: e0, FRMPayload: 0700), MIC: d71b573c)
0:33:56.622835	LOG	Frame command sent to the DUT
0:33:56.624835	LOG	PULL_RESP: Protocol version = 02, Token = e77a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 838899502, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAmALgO/DXG1c8'}}
0:33:56.625835	LOG	Server ----------> DUT
0:33:56.628834	LOG	Send Test Command TxFramesCtrlReq process completed
0:33:56.631836	LOG	Send Test Command TxFramesCtrlReq process starts
0:34:01.498098	LOG	First uplink received. Open reception window.

0:34:01.610899	LOG	PUSH_ACK: 02 2174 01
0:34:01.612867	LOG	GPS Time from gateway: 1385114978754
0:34:01.613867	LOG	PUSH_DATA: Protocol version = 02, Token = 2174, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 842899248, 'time': '2023-11-27T10:09:19.754687Z', 'tmms': 1385114978754, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3309, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAXAUC63aWaNkBrQCptwo='}]}
0:34:01.615868	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 055c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 00a9b70a)
0:34:01.616867	LOG	Server <-------------------- DUT
0:34:01.618867	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0299, FOpts:), FPort: e0, FRMPayload: 0700), MIC: e46ddc31)
0:34:01.619866	LOG	Frame command sent to the DUT
0:34:01.621871	LOG	PULL_RESP: Protocol version = 02, Token = 4a47, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 843899248, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAmQLgDjDkbdwx'}}
0:34:01.622871	LOG	Server --------------------> DUT
0:34:01.625872	LOG	Send Test Command TxFramesCtrlReq process completed
0:34:01.634871	LOG	Send Test Command TxFramesCtrlReq process starts
0:34:02.667562	LOG	GPS Time updated: 1385114979923
0:34:02.668566	LOG	PULL_DATA: 02 652b 02 0016c001ff1025bf
0:34:02.670568	LOG	PULL_ACK: 02 652b 04
0:34:06.496979	LOG	First uplink received. Open reception window.
0:34:06.609436	LOG	PUSH_ACK: 02 c7c2 01
0:34:06.611438	LOG	GPS Time from gateway: 1385114983754
0:34:06.612438	LOG	PUSH_DATA: Protocol version = 02, Token = c7c2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 847898985, 'time': '2023-11-27T10:09:24.754422Z', 'tmms': 1385114983754, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3305, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAXQUCstAfyw21i7F7qr8='}]}
0:34:06.614437	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 055d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b17baabf)
0:34:06.615437	LOG	Server <-------------------- DUT
0:34:06.617475	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 029a, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 7be44f3b)
0:34:06.619474	LOG	Frame command sent to the DUT
0:34:06.620471	LOG	PULL_RESP: Protocol version = 02, Token = 8f44, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 848898985, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'oAAAAAAAmgLgfcq5+JQ+o15vj49j+ZcpEd7s5STuxy/NbKHk4NY1cvQCFQXo4B8VNd7Oen4snWXHLKG5bTWiVjQWoMaP8pNjSSnffpqh7dn4T8MMPWY/ckY/+6qqvsdZ6foVqIkQKsv5Y/m8MO0ml3wxNhSQ0ZI4GGni6TnNHQIRGgdiTyx53nJj5HkDmsx6/924wDaeK9BB9cmjYhY0u+Ps1xQBH4AkqnNvG4ruOSAQuwDEDAXzxaGoFjLhaNH+5GkULxNWQ9zju79LUhXMmWNeLOLe2z0wMZ/o4HJyLK4Y15Wx1UoJQg2pCHW0f8zR+Sa8p+x0rQGwKDh75E87'}}
0:34:06.621510	LOG	Server --------------------> DUT
0:34:06.624478	LOG	Send Test Command TxFramesCtrlReq process completed

0:34:06.627474	LOG	Check previous uplink data rate process starts
0:34:06.631509	LOG	Uplink received with expected Data Rate
0:34:06.634508	LOG	Check ACK bit in next uplink process starts
0:34:08.274518	LOG	First uplink received. Open reception window.
0:34:08.388762	LOG	PUSH_ACK: 02 7592 01
0:34:08.390762	LOG	GPS Time from gateway: 1385114985529
0:34:08.391764	LOG	PUSH_DATA: Protocol version = 02, Token = 7592, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 849673986, 'time': '2023-11-27T10:09:26.529424Z', 'tmms': 1385114985529, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3313, 'rssi': -51, 'size': 12, 'data': 'QAAAAACgXgWS+ljJ'}]}
0:34:08.393730	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 055e, FOpts:), FPort: , FRMPayload: , MIC: 92fa58c9)
0:34:08.394758	LOG	Server <---------- DUT
0:34:08.396758	LOG	ACK bit in FCtrl field is set
0:34:08.399237	LOG	Check ACK bit in next uplink tested successfully
0:34:08.403314	LOG	Send Test Command RxAppCntReq process starts
0:34:11.495211	LOG	First uplink received. Open reception window.
0:34:11.598579	LOG	PUSH_ACK: 02 21f9 01
0:34:11.600544	LOG	GPS Time from gateway: 1385114988754
0:34:11.601543	LOG	PUSH_DATA: Protocol version = 02, Token = 21f9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 852898726, 'time': '2023-11-27T10:09:29.754164Z', 'tmms': 1385114988754, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3309, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAXwUCgCF46GP8OV6AZKo='}]}
0:34:11.603102	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 055f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5e8064aa)
0:34:11.605109	LOG	Server <---------- DUT
0:34:11.607618	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 029b, FOpts:), FPort: e0, FRMPayload: 09), MIC: d710a340)
0:34:11.608619	LOG	Frame command sent to the DUT
0:34:11.609618	LOG	PULL_RESP: Protocol version = 02, Token = 544d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 854898726, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAmwLgp9cQo0A='}}
0:34:11.611619	LOG	Server ----------> DUT
0:34:11.613621	LOG	TX_ACK: 02 544d 05 0016c001ff1025bf
0:34:12.867743	LOG	GPS Time updated: 1385114990126
0:34:12.868737	LOG	PULL_DATA: 02 9a23 02 0016c001ff1025bf
0:34:12.869706	LOG	PULL_ACK: 02 9a23 04
0:34:14.753072	LOG	First uplink received. Open reception window.
0:34:14.868433	LOG	PUSH_ACK: 02 b2da 01
0:34:14.870467	LOG	GPS Time from gateway: 1385114992012
0:34:14.871505	LOG	PUSH_DATA: Protocol version = 02, Token = b2da, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 856156902, 'time': '2023-11-27T10:09:33.012339Z', 'tmms': 1385114992012, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3320, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAYAXg6i0OsQY5Mg=='}]}
0:34:14.872505	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0560, FOpts:), FPort: e0, FRMPayload: 095401, MIC: b1063932)
0:34:14.874473	LOG	Server <---------- DUT
0:34:14.875505	LOG	Frame Command Payload in the Answer: 095401
0:34:14.879567	LOG	RX Count received by DUT: 340
0:34:14.881693	LOG	Send Test Command RxAppCntReq process completed
0:34:14.887315	LOG	Send MAC command block process starts

0:34:21.502071	LOG	#**********CURRENT BEACON SENT**********#
0:34:21.503065	LOG	PULL_RESP: Protocol version = 02, Token = e108, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385115008000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACALY9SvmgAAAAAAAAAAA='}}
0:34:21.505065	LOG	Server ----------> DUT
0:34:21.506070	LOG	#**********#
0:34:21.515574	LOG	#**********NEXT BEACON QUEUED**********#
0:34:21.517576	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385115136000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAALo9S1uwAAAAAAAAAAA='}}
0:34:21.518575	LOG	Server ----------> DUT
0:34:21.520576	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 002e8f52, CRC1: d6ec, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385115136000
0:34:21.521575	LOG	#**********#
0:34:21.523574	LOG	Next BEACON scheduled at GPS time (ms): 1385115264000
0:34:21.524574	LOG	First uplink received. Open reception window.
0:34:21.526577	LOG	TX_ACK: 02 e108 05 0016c001ff1025bf
0:34:21.625178	LOG	PUSH_ACK: 02 4c3d 01
0:34:21.627197	LOG	GPS Time from gateway: 1385114998753
0:34:21.628196	LOG	PUSH_DATA: Protocol version = 02, Token = 4c3d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 862898208, 'time': '2023-11-27T10:09:39.753644Z', 'tmms': 1385114998753, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3308, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAYQUC4oSPe1yCQ3ynN5I='}]}
0:34:21.629196	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0561, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7ca73792)
0:34:21.631197	LOG	Server <---------- DUT
0:34:21.633197	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 029c, FOpts:), FPort: 00, FRMPayload: 03500700010520d2ad84), MIC: c2b0e325)
0:34:21.634197	LOG	PULL_RESP: Protocol version = 02, Token = 07f1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 864898208, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAnAIAZW+ilVb3IjkCZ8Kw4yU='}}
0:34:21.636200	LOG	Server ----------> DUT
0:34:21.640614	LOG	TX_ACK: 02 07f1 05 0016c001ff1025bf
0:34:22.897724	LOG	GPS Time updated: 1385115000123
0:34:22.898727	LOG	PULL_DATA: 02 0568 02 0016c001ff1025bf
0:34:22.899727	LOG	PULL_ACK: 02 0568 04
0:34:26.505361	LOG	First uplink received. Open reception window.
0:34:26.613982	LOG	PUSH_ACK: 02 2085 01
0:34:26.614985	LOG	GPS Time from gateway: 1385115003758
0:34:26.617495	LOG	PUSH_DATA: Protocol version = 02, Token = 2085, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 867903188, 'time': '2023-11-27T10:09:44.758623Z', 'tmms': 1385115003758, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3308, 'rssi': -51, 'size': 24, 'data': 'QAAAAACEYgUDBwUHAnrgD4JsVwT3zPjt'}]}
0:34:26.618494	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0562, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: f7ccf8ed)

0:34:26.620495	LOG	Server <---------- DUT
0:34:26.622514	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:34:26.623500	LOG	Command Answer: 03070507
0:34:26.679377	LOG	MAC command communication completed
0:34:26.683344	LOG	Send Test Command RxAppCntReq process starts
0:34:31.498795	LOG	First uplink received. Open reception window.
0:34:31.600127	LOG	PUSH_ACK: 02 85ed 01
0:34:31.602128	LOG	GPS Time from gateway: 1385115008753
0:34:31.603130	LOG	PUSH_DATA: Protocol version = 02, Token = 85ed, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 872897791, 'time': '2023-11-27T10:09:49.753225Z', 'tmms': 1385115008753, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.8, 'foff': -3305, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCYwUFBwIsWYkF2oJ3Q/TTQA=='}]}
0:34:31.605135	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0563, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 43f4d340)
0:34:31.607165	LOG	Server <---------- DUT
0:34:31.609217	LOG	MAC Command RXParamSetupAns received
0:34:31.610203	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 029d, FOpts:), FPort: e0, FRMPayload: 09), MIC: 0741e005)
0:34:31.612204	LOG	Frame command sent to the DUT
0:34:31.613204	LOG	PULL_RESP: Protocol version = 02, Token = a1e5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 874897791, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAnQLgqgdB4AU='}}
0:34:31.614205	LOG	Server ----------> DUT
0:34:31.617204	LOG	TX_ACK: 02 a1e5 05 0016c001ff1025bf
0:34:33.087662	LOG	GPS Time updated: 1385115010341
0:34:33.088662	LOG	PULL_DATA: 02 9ef8 02 0016c001ff1025bf
0:34:33.090406	LOG	PULL_ACK: 02 9ef8 04
0:34:34.761199	LOG	First uplink received. Open reception window.
0:34:34.875734	LOG	PUSH_ACK: 02 365b 01
0:34:34.877718	LOG	GPS Time from gateway: 1385115012011
0:34:34.878751	LOG	PUSH_DATA: Protocol version = 02, Token = 365b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 876156278, 'time': '2023-11-27T10:09:53.011711Z', 'tmms': 1385115012011, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3313, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAZAXgBkSLHUtNMw=='}]}
0:34:34.880753	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0564, FOpts:), FPort: e0, FRMPayload: 095501, MIC: 1d4b4d33)
0:34:34.881752	LOG	Server <---------- DUT
0:34:34.883753	LOG	Frame Command Payload in the Answer: 095501
0:34:34.887305	LOG	RX Count received by DUT: 341
0:34:34.890296	LOG	Send Test Command RxAppCntReq process completed
0:34:34.893294	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:34:41.501443	LOG	First uplink received. Open reception window.
0:34:41.609762	LOG	PUSH_ACK: 02 4f65 01
0:34:41.611730	LOG	GPS Time from gateway: 1385115018752
0:34:41.612765	LOG	PUSH_DATA: Protocol version = 02, Token = 4f65, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 882897167, 'time': '2023-11-27T10:09:59.752600Z', 'tmms': 1385115018752, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.8, 'foff': -3305, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAZQUCDpwbiD1xCP4+M6s='}]}
0:34:41.613763	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0565, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fe3e33ab)
0:34:41.615732	LOG	Server <---------- DUT

0:34:41.616772	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 029e, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 7ae92d89)
0:34:41.618769	LOG	Frame command sent to the DUT
0:34:41.619768	LOG	PULL_RESP: Protocol version = 02, Token = 967c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 884897167, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAngLglNN66S2J'}}
0:34:41.620769	LOG	Server ----------> DUT
0:34:41.623766	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:34:41.629768	LOG	Send Test Command TxFramesCtrlReq process starts
0:34:43.297656	LOG	GPS Time updated: 1385115020547
0:34:43.298654	LOG	PULL_DATA: 02 9a71 02 0016c001ff1025bf
0:34:43.300658	LOG	PULL_ACK: 02 9a71 04
0:34:46.501014	LOG	First uplink received. Open reception window.
0:34:46.606940	LOG	PUSH_ACK: 02 d9ff 01
0:34:46.608975	LOG	GPS Time from gateway: 1385115023752
0:34:46.609978	LOG	PUSH_DATA: Protocol version = 02, Token = d9ff, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 887896917, 'time': '2023-11-27T10:10:04.752349Z', 'tmms': 1385115023752, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3305, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAZgUC2gaCpiTxWW2LyY0='}]}
0:34:46.611976	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0566, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6d8bc98d)
0:34:46.612982	LOG	Server <---------- DUT
0:34:46.614974	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 029f, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 8a2598e2)
0:34:46.616944	LOG	Frame command sent to the DUT
0:34:46.619551	LOG	PULL_RESP: Protocol version = 02, Token = 31aa, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 888896917, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAnwLgV4+KJZji'}}
0:34:46.621661	LOG	Server ----------> DUT
0:34:46.626355	LOG	Send Test Command TxFramesCtrlReq process completed
0:34:46.630380	LOG	Send Test Command TxFramesCtrlReq process starts
0:34:51.499022	LOG	First uplink received. Open reception window.
0:34:51.604974	LOG	PUSH_ACK: 02 c112 01
0:34:51.607093	LOG	GPS Time from gateway: 1385115028752
0:34:51.608098	LOG	PUSH_DATA: Protocol version = 02, Token = c112, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 892896651, 'time': '2023-11-27T10:10:09.752082Z', 'tmms': 1385115028752, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3308, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAZwUCSUnzPdYOe5HYn/E='}]}
0:34:51.610062	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0567, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 91d89ff1)
0:34:51.611093	LOG	Server <---------- DUT
0:34:51.613093	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02a0, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 5501898b)
0:34:51.614095	LOG	Frame command sent to the DUT
0:34:51.616093	LOG	PULL_RESP: Protocol version = 02, Token = 4b87, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 893896651, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAoALgz0NVAYmL'}}
0:34:51.617092	LOG	Server ----------> DUT
0:34:51.619098	LOG	Send Test Command TxFramesCtrlReq process completed
0:34:51.623099	LOG	Send Test Command TxFramesCtrlReq process starts
0:34:53.296816	LOG	GPS Time updated: 1385115030549

0:34:53.298816	LOG	PULL_DATA: 02 33e2 02 0016c001ff1025bf
0:34:53.299817	LOG	PULL_ACK: 02 33e2 04
0:34:56.497298	LOG	First uplink received. Open reception window.
0:34:56.600182	LOG	PUSH_ACK: 02 0bcd 01
0:34:56.602150	LOG	GPS Time from gateway: 1385115033751
0:34:56.603150	LOG	PUSH_DATA: Protocol version = 02, Token = 0bcd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 897896402, 'time': '2023-11-27T10:10:14.751832Z', 'tmms': 1385115033751, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3305, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAaAUC4VnLDG9eVKNx6S0='}]}
0:34:56.605166	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0568, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a371e92d)
0:34:56.606172	LOG	Server <---------- DUT
0:34:56.608171	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02a1, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 2cba1c8b)
0:34:56.610206	LOG	Frame command sent to the DUT
0:34:56.612217	LOG	PULL_RESP: Protocol version = 02, Token = ae84, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 898896402, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAoQLgsmMsuhyL'}}
0:34:56.613218	LOG	Server ----------> DUT
0:34:56.616256	LOG	Send Test Command TxFramesCtrlReq process completed
0:34:56.619217	LOG	Send Test Command TxFramesCtrlReq process starts
0:35:01.494035	LOG	First uplink received. Open reception window.
0:35:01.595801	LOG	PUSH_ACK: 02 05bd 01
0:35:01.597767	LOG	GPS Time from gateway: 1385115038751
0:35:01.598767	LOG	PUSH_DATA: Protocol version = 02, Token = 05bd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 902896134, 'time': '2023-11-27T10:10:19.751563Z', 'tmms': 1385115038751, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3305, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAaQUCiUOvcnfnBLhDUv4='}]}
0:35:01.600774	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0569, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b84352fe)
0:35:01.601813	LOG	Server <---------- DUT
0:35:01.603780	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02a2, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 1b91d3b2)
0:35:01.606288	LOG	Frame command sent to the DUT
0:35:01.607290	LOG	PULL_RESP: Protocol version = 02, Token = c8d4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 903896134, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAogLghyIbkdOy'}}
0:35:01.608288	LOG	Server ----------> DUT
0:35:01.611289	LOG	Send Test Command TxFramesCtrlReq process completed
0:35:01.621320	LOG	Send Test Command TxFramesCtrlReq process starts
0:35:03.496647	LOG	GPS Time updated: 1385115040754
0:35:03.498615	LOG	PULL_DATA: 02 a7e0 02 0016c001ff1025bf
0:35:03.500615	LOG	PULL_ACK: 02 a7e0 04
0:35:06.501340	LOG	First uplink received. Open reception window.
0:35:06.602249	LOG	PUSH_ACK: 02 42f3 01
0:35:06.604249	LOG	GPS Time from gateway: 1385115043751
0:35:06.605253	LOG	PUSH_DATA: Protocol version = 02, Token = 42f3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 907895882, 'time': '2023-11-27T10:10:24.751309Z', 'tmms': 1385115043751, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAagUCE16qP+/AOTcm9hg='}]}

0:35:06.607323	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 056a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3726f618)
0:35:06.608323	LOG	Server <-------------------- DUT
0:35:06.610321	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02a3, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101), MIC: 1ce3cd8d)
0:35:06.612322	LOG	Frame command sent to the DUT
0:35:06.613322	LOG	PULL_RESP: Protocol version = 02, Token = a46c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 908895882, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'oAAAAAAAowLgmJS0+xKj91Cx7T6riWmkxruBqh3FsUQun99XB4lbSnUu0BjbPv57Ud/dr1nZ+1hOpSg81TaGqAqUw0bqYLixK1PvsxsRqGczyhzfuMGaTy0NUq6ycLnPiDdkqWkloEg1ZonFWYun/d2vP2ONBHll6tXz0BzjzY0='}}
0:35:06.614323	LOG	Server --------------------> DUT
0:35:06.618326	LOG	Send Test Command TxFramesCtrlReq process completed
0:35:06.621325	LOG	Check previous uplink data rate process starts
0:35:06.627333	LOG	Uplink received with expected Data Rate
0:35:06.633298	LOG	Check ACK bit in next uplink process starts
0:35:08.243242	LOG	First uplink received. Open reception window.
0:35:08.352500	LOG	PUSH_ACK: 02 1e48 01
0:35:08.353502	LOG	GPS Time from gateway: 1385115045500
0:35:08.356016	LOG	PUSH_DATA: Protocol version = 02, Token = 1e48, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 909644956, 'time': '2023-11-27T10:10:26.500384Z', 'tmms': 1385115045500, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3313, 'rssi': -51, 'size': 12, 'data': 'QAAAAACgawUD16n+'}]}
0:35:08.357012	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 056b, FOpts:), FPort: , FRMPayload: , MIC: 03d7a9fe)
0:35:08.358516	LOG	Server <-------------------- DUT
0:35:08.360523	LOG	ACK bit in FCtrl field is set
0:35:08.362651	LOG	Check ACK bit in next uplink tested successfully
0:35:08.367731	LOG	Send Test Command RxAppCntReq process starts
0:35:11.497656	LOG	First uplink received. Open reception window.
0:35:11.598744	LOG	PUSH_ACK: 02 5b3e 01
0:35:11.600744	LOG	GPS Time from gateway: 1385115048751
0:35:11.601711	LOG	PUSH_DATA: Protocol version = 02, Token = 5b3e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 912895615, 'time': '2023-11-27T10:10:29.751043Z', 'tmms': 1385115048751, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAbAUC8bDPAQ4X5XYVdUo='}]}
0:35:11.603734	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 056c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7615754a)
0:35:11.605276	LOG	Server <-------------------- DUT
0:35:11.607282	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02a4, FOpts:), FPort: e0, FRMPayload: 09), MIC: 8bd81fef)
0:35:11.609301	LOG	Frame command sent to the DUT
0:35:11.610313	LOG	PULL_RESP: Protocol version = 02, Token = fb92, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 914895615, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAApALgxIvYH+8='}}
0:35:11.611316	LOG	Server --------------------> DUT
0:35:11.614318	LOG	TX_ACK: 02 fb92 05 0016c001ff1025bf

0:35:13.707242	LOG	GPS Time updated: 1385115050962
0:35:13.708242	LOG	PULL_DATA: 02 cde1 02 0016c001ff1025bf
0:35:13.710242	LOG	PULL_ACK: 02 cde1 04
0:35:14.754127	LOG	First uplink received. Open reception window.
0:35:14.864502	LOG	PUSH_ACK: 02 2b6b 01
0:35:14.866473	LOG	GPS Time from gateway: 1385115052009
0:35:14.867749	LOG	PUSH_DATA: Protocol version = 02, Token = 2b6b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 916154181, 'time': '2023-11-27T10:10:33.009608Z', 'tmms': 1385115052009, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3320, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAbQXg2zsy9V2GHQ==''}]}
0:35:14.868783	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 056d, FOpts:), FPort: e0, FRMPayload: 095c01, MIC: f55d861d)
0:35:14.869781	LOG	Server <---------- DUT
0:35:14.871786	LOG	Frame Command Payload in the Answer: 095c01
0:35:14.875787	LOG	RX Count received by DUT: 348
0:35:14.877819	LOG	Send Test Command RxAppCntReq process completed
0:35:14.883817	LOG	Send MAC command block process starts
0:35:21.494350	LOG	First uplink received. Open reception window.
0:35:21.597910	LOG	PUSH_ACK: 02 c628 01
0:35:21.599879	LOG	GPS Time from gateway: 1385115058750
0:35:21.601878	LOG	PUSH_DATA: Protocol version = 02, Token = c628, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 922895111, 'time': '2023-11-27T10:10:39.750537Z', 'tmms': 1385115058750, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3309, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAbgUC6PGJckUJbrtxx+E='}]}
0:35:21.603891	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 056e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: bb71c7e1)
0:35:21.605397	LOG	Server <---------- DUT
0:35:21.607403	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02a5, FOpts:), FPort: 00, FRMPayload: 03500700010530d2ad84), MIC: 45443294)
0:35:21.609457	LOG	PULL_RESP: Protocol version = 02, Token = 9958, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 924895111, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAApQIAaqua3d0QTOOs00VEMpQ='}}
0:35:21.611404	LOG	Server ----------> DUT
0:35:21.613421	LOG	TX_ACK: 02 9958 05 0016c001ff1025bf
0:35:23.916686	LOG	GPS Time updated: 1385115061172
0:35:23.918654	LOG	PULL_DATA: 02 c760 02 0016c001ff1025bf
0:35:23.919654	LOG	PULL_ACK: 02 c760 04
0:35:26.503060	LOG	First uplink received. Open reception window.
0:35:26.610165	LOG	PUSH_ACK: 02 99a0 01
0:35:26.611742	LOG	GPS Time from gateway: 1385115063755
0:35:26.613710	LOG	PUSH_DATA: Protocol version = 02, Token = 99a0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 927900093, 'time': '2023-11-27T10:10:44.755518Z', 'tmms': 1385115063755, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3309, 'rssi': -51, 'size': 24, 'data': 'QAAAAACEbwUDBwUHAolyv+oVis1YxrX4'}]}
0:35:26.614706	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 056f, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 58c6b5f8)
0:35:26.616708	LOG	Server <---------- DUT
0:35:26.617708	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:35:26.619707	LOG	Command Answer: 03070507

0:35:26.679015	LOG	MAC command communication completed
0:35:26.682984	LOG	Send Test Command RxAppCntReq process starts
0:35:31.499010	LOG	First uplink received. Open reception window.
0:35:31.613854	LOG	PUSH_ACK: 02 5f36 01
0:35:31.615821	LOG	GPS Time from gateway: 1385115068750
0:35:31.616821	LOG	PUSH_DATA: Protocol version = 02, Token = 5f36, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 932894683, 'time': '2023-11-27T10:10:49.750107Z', 'tmms': 1385115068750, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3305, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCcAUFBwIVUVc/zH8lyhlQXw==\'}]}
0:35:31.617820	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0570, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: ca19505f)
0:35:31.619820	LOG	Server <---------- DUT
0:35:31.620821	LOG	MAC Command RXParamSetupAns received
0:35:31.623192	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02a6, FOpts:), FPort: e0, FRMPayload: 09), MIC: ecf30494)
0:35:31.624803	LOG	Frame command sent to the DUT
0:35:31.626420	LOG	PULL_RESP: Protocol version = 02, Token = bca4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 934894683, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAApgLge+zzBJQ=\'}}
0:35:31.627584	LOG	Server ----------> DUT
0:35:31.630797	LOG	TX_ACK: 02 bca4 05 0016c001ff1025bf
0:35:33.936875	LOG	GPS Time updated: 1385115071187
0:35:33.937875	LOG	PULL_DATA: 02 4121 02 0016c001ff1025bf
0:35:33.939877	LOG	PULL_ACK: 02 4121 04
0:35:36.373566	LOG	First uplink received. Open reception window.
0:35:36.475946	LOG	PUSH_ACK: 02 4874 01
0:35:36.477944	LOG	GPS Time from gateway: 1385115073630
0:35:36.478943	LOG	PUSH_DATA: Protocol version = 02, Token = 4874, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 937775416, 'time': '2023-11-27T10:10:54.630839Z', 'tmms': 1385115073630, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3309, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAcQXgd2jl6eATXA==\'}]}
0:35:36.480447	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0571, FOpts:), FPort: e0, FRMPayload: 095d01, MIC: e9e0135c)
0:35:36.481452	LOG	Server <---------- DUT
0:35:36.483453	LOG	Frame Command Payload in the Answer: 095d01
0:35:36.487992	LOG	RX Count received by DUT: 349
0:35:36.489997	LOG	Send Test Command RxAppCntReq process completed
0:35:36.492997	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:35:41.497160	LOG	First uplink received. Open reception window.
0:35:41.601949	LOG	PUSH_ACK: 02 0353 01
0:35:41.603949	LOG	GPS Time from gateway: 1385115078749
0:35:41.605484	LOG	PUSH_DATA: Protocol version = 02, Token = 0353, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 942894067, 'time': '2023-11-27T10:10:59.749488Z', 'tmms': 1385115078749, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3305, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAcgUCwxyMEUCvuts2ON4=\'}]}
0:35:41.606489	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0572, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: db3638de)
0:35:41.607488	LOG	Server <---------- DUT
0:35:41.609495	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02a7, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 468c41dc)
0:35:41.611490	LOG	Frame command sent to the DUT

0:35:41.612522	LOG	PULL_RESP: Protocol version = 02, Token = 10d3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 944894067, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAApwLgfJJGjEHc'}}
0:35:41.613521	LOG	Server ----------> DUT
0:35:41.616490	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:35:41.622559	LOG	Send Test Command TxFramesCtrlReq process starts
0:35:44.126883	LOG	GPS Time updated: 1385115081378
0:35:44.127850	LOG	PULL_DATA: 02 4209 02 0016c001ff1025bf
0:35:44.129849	LOG	PULL_ACK: 02 4209 04
0:35:46.497927	LOG	First uplink received. Open reception window.
0:35:46.605222	LOG	PUSH_ACK: 02 10e9 01
0:35:46.607259	LOG	GPS Time from gateway: 1385115083749
0:35:46.608259	LOG	PUSH_DATA: Protocol version = 02, Token = 10e9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 947893815, 'time': '2023-11-27T10:11:04.749237Z', 'tmms': 1385115083749, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3308, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAcwUCk7ibpUkm7KwPNp0='}]}
0:35:46.610261	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0573, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ac0f369d)
0:35:46.611260	LOG	Server <---------- DUT
0:35:46.613233	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02a8, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 63513245)
0:35:46.615230	LOG	Frame command sent to the DUT
0:35:46.616226	LOG	PULL_RESP: Protocol version = 02, Token = e14c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 948893815, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAqALgtb1jUTJF'}}
0:35:46.618237	LOG	Server ----------> DUT
0:35:46.621227	LOG	Send Test Command TxFramesCtrlReq process completed
0:35:46.624234	LOG	Send Test Command TxFramesCtrlReq process starts
0:35:51.494589	LOG	First uplink received. Open reception window.
0:35:51.608137	LOG	PUSH_ACK: 02 dd07 01
0:35:51.610136	LOG	GPS Time from gateway: 1385115088749
0:35:51.611137	LOG	PUSH_DATA: Protocol version = 02, Token = dd07, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 952893556, 'time': '2023-11-27T10:11:09.748977Z', 'tmms': 1385115088749, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3305, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAdAUCYYikMY0XFkYdDY8='}]}
0:35:51.613136	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0574, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 461d0d8f)
0:35:51.614135	LOG	Server <---------- DUT
0:35:51.616105	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02a9, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 43e22fb7)
0:35:51.617137	LOG	Frame command sent to the DUT
0:35:51.619137	LOG	PULL_RESP: Protocol version = 02, Token = 799d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 953893556, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAqQLgDQRD4i+3'}}
0:35:51.620141	LOG	Server ----------> DUT
0:35:51.623147	LOG	Send Test Command TxFramesCtrlReq process completed
0:35:51.626143	LOG	Send Test Command TxFramesCtrlReq process starts
0:35:54.137231	LOG	GPS Time updated: 1385115091391
0:35:54.138231	LOG	PULL_DATA: 02 4568 02 0016c001ff1025bf
0:35:54.140231	LOG	PULL_ACK: 02 4568 04
0:35:56.490310	LOG	First uplink received. Open reception window.

0:35:56.596198	LOG	PUSH_ACK: 02 1971 01
0:35:56.598162	LOG	GPS Time from gateway: 1385115093748
0:35:56.599163	LOG	PUSH_DATA: Protocol version = 02, Token = 1971, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 957893287, 'time': '2023-11-27T10:11:14.748707Z', 'tmms': 1385115093748, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3305, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAdQUCsdt0IsXPE98ZFz4='}]}
0:35:56.601189	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0575, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: df19173e)
0:35:56.602205	LOG	Server <---------- DUT
0:35:56.604171	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02aa, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 49a441c6)
0:35:56.605672	LOG	Frame command sent to the DUT
0:35:56.607677	LOG	PULL_RESP: Protocol version = 02, Token = 1a67, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 958893287, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAqgLg6mBJpEHG'}}
0:35:56.608713	LOG	Server ----------> DUT
0:35:56.611937	LOG	Send Test Command TxFramesCtrlReq process completed
0:35:56.614904	LOG	Send Test Command TxFramesCtrlReq process starts
0:36:01.496516	LOG	First uplink received. Open reception window.
0:36:01.607644	LOG	PUSH_ACK: 02 d39a 01
0:36:01.609612	LOG	GPS Time from gateway: 1385115098748
0:36:01.610613	LOG	PUSH_DATA: Protocol version = 02, Token = d39a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 962893037, 'time': '2023-11-27T10:11:19.748456Z', 'tmms': 1385115098748, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAdgUCyS3Rbj7PZpX7EUE='}]}
0:36:01.611613	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0576, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 95fb1141)
0:36:01.613612	LOG	Server <---------- DUT
0:36:01.614612	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02ab, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 6a339409)
0:36:01.617122	LOG	Frame command sent to the DUT
0:36:01.618121	LOG	PULL_RESP: Protocol version = 02, Token = 9f8a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 963893037, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAqwLg4ChqM5QJ'}}
0:36:01.620122	LOG	Server ----------> DUT
0:36:01.623139	LOG	Send Test Command TxFramesCtrlReq process completed
0:36:01.632128	LOG	Send Test Command TxFramesCtrlReq process starts
0:36:04.346851	LOG	GPS Time updated: 1385115101599
0:36:04.347827	LOG	PULL_DATA: 02 1b9a 02 0016c001ff1025bf
0:36:04.350359	LOG	PULL_ACK: 02 1b9a 04
0:36:06.494707	LOG	First uplink received. Open reception window.
0:36:06.598342	LOG	PUSH_ACK: 02 fab4 01
0:36:06.600309	LOG	GPS Time from gateway: 1385115103748
0:36:06.601311	LOG	PUSH_DATA: Protocol version = 02, Token = fab4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 967892780, 'time': '2023-11-27T10:11:24.748198Z', 'tmms': 1385115103748, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAdwUCme7sloK0gq3//n4='}]}
0:36:06.603310	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0577, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: adfffe7e)
0:36:06.605315	LOG	Server <---------- DUT

0:36:06.606861	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02ac, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: efae6b10)
0:36:06.608862	LOG	Frame command sent to the DUT
0:36:06.609894	LOG	PULL_RESP: Protocol version = 02, Token = 4986, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 968892780, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'oAAAAAAArALgxZRRVyENL95zFX/8oawcZOzWwZ3X6pQlxoSwAlCwO6ognwKTiJ7/HMylJJAxrSk2Hg51765rEA==''}}
0:36:06.610894	LOG	Server ----------> DUT
0:36:06.613863	LOG	Send Test Command TxFramesCtrlReq process completed
0:36:06.616861	LOG	Check previous uplink data rate process starts
0:36:06.621368	LOG	Uplink received with expected Data Rate
0:36:06.624375	LOG	Check ACK bit in next uplink process starts
0:36:08.262716	LOG	First uplink received. Open reception window.
0:36:08.363499	LOG	PUSH_ACK: 02 3a5a 01
0:36:08.365468	LOG	GPS Time from gateway: 1385115105518
0:36:08.366500	LOG	PUSH_DATA: Protocol version = 02, Token = 3a5a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 969663171, 'time': '2023-11-27T10:11:26.518588Z', 'tmms': 1385115105518, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3309, 'rssi': -52, 'size': 12, 'data': 'QAAAAACgeAUF2j+b'}]}
0:36:08.368503	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 0578, FOpts:), FPort: , FRMPayload: , MIC: 05da3f9b)
0:36:08.369502	LOG	Server <---------- DUT
0:36:08.370500	LOG	ACK bit in FCtrl field is set
0:36:08.373473	LOG	Check ACK bit in next uplink tested successfully
0:36:08.378508	LOG	Send Test Command RxAppCntReq process starts
0:36:11.495298	LOG	First uplink received. Open reception window.
0:36:11.598305	LOG	PUSH_ACK: 02 ea7c 01
0:36:11.600306	LOG	GPS Time from gateway: 1385115108747
0:36:11.601307	LOG	PUSH_DATA: Protocol version = 02, Token = ea7c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 972892514, 'time': '2023-11-27T10:11:29.747930Z', 'tmms': 1385115108747, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAeQUCvjobVWKasxl2Vq8='}]}
0:36:11.602273	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0579, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 197656af)
0:36:11.604277	LOG	Server <---------- DUT
0:36:11.605781	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02ad, FOpts:), FPort: e0, FRMPayload: 09), MIC: 9f0b8265)
0:36:11.607785	LOG	Frame command sent to the DUT
0:36:11.608784	LOG	PULL_RESP: Protocol version = 02, Token = 443b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 974892514, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAArQLg7p8LgmU='}}
0:36:11.609786	LOG	Server ----------> DUT
0:36:11.613823	LOG	TX_ACK: 02 443b 05 0016c001ff1025bf
0:36:14.546789	LOG	GPS Time updated: 1385115111798
0:36:14.547799	LOG	PULL_DATA: 02 7b32 02 0016c001ff1025bf
0:36:14.549756	LOG	PULL_ACK: 02 7b32 04
0:36:14.747354	LOG	First uplink received. Open reception window.
0:36:14.852056	LOG	PUSH_ACK: 02 f07e 01
0:36:14.854025	LOG	GPS Time from gateway: 1385115112006

0:36:14.854025	LOG	PUSH_DATA: Protocol version = 02, Token = f07e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 976151111, 'time': '2023-11-27T10:11:33.006528Z', 'tmms': 1385115112006, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3316, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAegXgl4ZQXuK6nw==\'}]}
0:36:14.856537	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 057a, FOpts:), FPort: e0, FRMPayload: 096401, MIC: 5ee2ba9f)
0:36:14.857536	LOG	Server <---------- DUT
0:36:14.859537	LOG	Frame Command Payload in the Answer: 096401
0:36:14.863537	LOG	RX Count received by DUT: 356
0:36:14.865572	LOG	Send Test Command RxAppCntReq process completed
0:36:14.871536	LOG	Send MAC command block process starts
0:36:21.487700	LOG	First uplink received. Open reception window.
0:36:21.597393	LOG	PUSH_ACK: 02 8795 01
0:36:21.599410	LOG	GPS Time from gateway: 1385115118747
0:36:21.601363	LOG	PUSH_DATA: Protocol version = 02, Token = 8795, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 982891998, 'time': '2023-11-27T10:11:39.747414Z', 'tmms': 1385115118747, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3297, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAewUC3Gp+ek+7BpiA1pU=\'}]}
0:36:21.602363	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 057b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9880d695)
0:36:21.604393	LOG	Server <---------- DUT
0:36:21.605937	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02ae, FOpts:), FPort: 00, FRMPayload: 03500700010540d2ad84), MIC: 6939b936)
0:36:21.607976	LOG	PULL_RESP: Protocol version = 02, Token = 8f8b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 984891998, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAArgIAJfUETMvRfANiTGk5uTY='}}
0:36:21.608964	LOG	Server ----------> DUT
0:36:21.611944	LOG	TX_ACK: 02 8f8b 05 0016c001ff1025bf
0:36:24.757082	LOG	GPS Time updated: 1385115122016
0:36:24.758082	LOG	PULL_DATA: 02 1c71 02 0016c001ff1025bf
0:36:24.760084	LOG	PULL_ACK: 02 1c71 04
0:36:26.499980	LOG	First uplink received. Open reception window.
0:36:26.601853	LOG	PUSH_ACK: 02 e8f9 01
0:36:26.603853	LOG	GPS Time from gateway: 1385115123752
0:36:26.605392	LOG	PUSH_DATA: Protocol version = 02, Token = e8f9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 987896983, 'time': '2023-11-27T10:11:44.752398Z', 'tmms': 1385115123752, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3293, 'rssi': -51, 'size': 24, 'data': 'QAAAAACEfAUDBwUHAi/LMAThch6cegw+'}]}
0:36:26.606397	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 057c, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 9c7a0c3e)
0:36:26.608397	LOG	Server <---------- DUT
0:36:26.610398	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:36:26.611434	LOG	Command Answer: 03070507
0:36:26.669417	LOG	MAC command communication completed
0:36:26.674408	LOG	Send Test Command RxAppCntReq process starts
0:36:31.490985	LOG	#**********CURRENT BEACON SENT**********#
0:36:31.492985	LOG	PULL_RESP: Protocol version = 02, Token = 2b56, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385115136000, 'rfch': 0, 'powe': 14, 'ipol': False,

		'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAALo9S1uwAAAAAAAAAAAA='}}
0:36:31.493986	LOG	Server --------------------> DUT
0:36:31.495988	LOG	#**#
0:36:31.505025	LOG	#****************************NEXT BEACON QUEUED****************************#
0:36:31.506026	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385115264000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACALo9S7jEAAAAAAAAAAAA='}}
0:36:31.508026	LOG	Server --------------------> DUT
0:36:31.509029	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 802e8f52, CRC1: ee31, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385115264000
0:36:31.510026	LOG	#**#
0:36:31.511026	LOG	Next BEACON scheduled at GPS time (ms): 1385115392000
0:36:31.512570	LOG	First uplink received. Open reception window.
0:36:31.514578	LOG	TX_ACK: 02 2b56 05 0016c001ff1025bf
0:36:31.621199	LOG	PUSH_ACK: 02 7882 01
0:36:31.623205	LOG	GPS Time from gateway: 1385115128747
0:36:31.624240	LOG	PUSH_DATA: Protocol version = 02, Token = 7882, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 992891579, 'time': '2023-11-27T10:11:49.746993Z', 'tmms': 1385115128747, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3286, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCfQUFBwLeDhBjXTd5tp9wgA=='}]}
0:36:31.625236	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 057d, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: b69f7080)
0:36:31.626236	LOG	Server <-------------------- DUT
0:36:31.628205	LOG	MAC Command RXParamSetupAns received
0:36:31.629236	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02af, FOpts:), FPort: e0, FRMPayload: 09), MIC: b1dd3456)
0:36:31.631205	LOG	Frame command sent to the DUT
0:36:31.632245	LOG	PULL_RESP: Protocol version = 02, Token = c31f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 994891579, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAArwLg8rHdNFY='}}
0:36:31.633204	LOG	Server --------------------> DUT
0:36:31.635238	LOG	TX_ACK: 02 c31f 05 0016c001ff1025bf
0:36:34.745760	LOG	First uplink received. Open reception window.
0:36:34.776295	LOG	PULL_DATA: 02 ea4b 02 0016c001ff1025bf
0:36:34.778297	LOG	PULL_ACK: 02 ea4b 04
0:36:34.857260	LOG	PUSH_ACK: 02 31be 01
0:36:34.859261	LOG	GPS Time from gateway: 1385115132005
0:36:34.861316	LOG	PUSH_DATA: Protocol version = 02, Token = 31be, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 996150040, 'time': '2023-11-27T10:11:53.005454Z', 'tmms': 1385115132005, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3308, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAfgXgxhDtabsfZQ=='}]}
0:36:34.863263	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 057e, FOpts:), FPort: e0, FRMPayload: 096501, MIC: 69bb1f65)
0:36:34.864298	LOG	Server <-------------------- DUT
0:36:34.866294	LOG	Frame Command Payload in the Answer: 096501
0:36:34.870191	LOG	RX Count received by DUT: 357

0:36:34.872240	LOG	Send Test Command RxAppCntReq process completed
0:36:34.875270	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:36:41.494817	LOG	First uplink received. Open reception window.
0:36:41.601482	LOG	PUSH_ACK: 02 2fbe 01
0:36:41.603451	LOG	GPS Time from gateway: 1385115138746
0:36:41.604450	LOG	PUSH_DATA: Protocol version = 02, Token = 2fbe, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1002890956, 'time': '2023-11-27T10:11:59.746367Z', 'tmms': 1385115138746, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3285, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAfwUCe4nlmy68Ri9HOW8='}]}
0:36:41.605955	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 057f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2f47396f)
0:36:41.607961	LOG	Server <---------- DUT
0:36:41.609960	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02b0, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 1830b6ee)
0:36:41.610960	LOG	Frame command sent to the DUT
0:36:41.613002	LOG	PULL_RESP: Protocol version = 02, Token = 7010, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1004890956, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAsALgD8IYMLbu'}}
0:36:41.613992	LOG	Server ----------> DUT
0:36:41.615992	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:36:41.621959	LOG	Send Test Command TxFramesCtrlReq process starts
0:36:44.967053	LOG	GPS Time updated: 1385115142218
0:36:44.968053	LOG	PULL_DATA: 02 3d02 02 0016c001ff1025bf
0:36:44.970054	LOG	PULL_ACK: 02 3d02 04
0:36:46.493759	LOG	First uplink received. Open reception window.
0:36:46.597714	LOG	PUSH_ACK: 02 5858 01
0:36:46.599714	LOG	GPS Time from gateway: 1385115143746
0:36:46.601698	LOG	PUSH_DATA: Protocol version = 02, Token = 5858, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1007890704, 'time': '2023-11-27T10:12:04.746116Z', 'tmms': 1385115143746, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAgAUCGhJppyJfCHrI8cU='}]}
0:36:46.602729	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0580, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7ac8f1c5)
0:36:46.604715	LOG	Server <---------- DUT
0:36:46.605719	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02b1, FOpts:), FPort: e0, FRMPayload: 0700), MIC: e38fc18a)
0:36:46.608072	LOG	Frame command sent to the DUT
0:36:46.609108	LOG	PULL_RESP: Protocol version = 02, Token = 4c4c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1008890704, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAsQLglFzjj8GK'}}
0:36:46.610103	LOG	Server ----------> DUT
0:36:46.613071	LOG	Send Test Command TxFramesCtrlReq process completed
0:36:46.617072	LOG	Send Test Command TxFramesCtrlReq process starts
0:36:51.486499	LOG	First uplink received. Open reception window.
0:36:51.588545	LOG	PUSH_ACK: 02 0dd6 01
0:36:51.590551	LOG	GPS Time from gateway: 1385115148745
0:36:51.591588	LOG	PUSH_DATA: Protocol version = 02, Token = 0dd6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1012890442, 'time': '2023-11-27T10:12:09.745853Z', 'tmms': 1385115148745, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3286, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAgQUC0B21nUba7VuAxGU='}]}

0:36:51.593595	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0581, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5b80c465)
0:36:51.594595	LOG	Server <---------- DUT
0:36:51.596559	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02b2, FOpts:), FPort: e0, FRMPayload: 0700), MIC: edc875e0)
0:36:51.598559	LOG	Frame command sent to the DUT
0:36:51.599559	LOG	PULL_RESP: Protocol version = 02, Token = dd18, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1013890442, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAsgLgTlPtyHXg'}}
0:36:51.600593	LOG	Server ----------> DUT
0:36:51.603560	LOG	Send Test Command TxFramesCtrlReq process completed
0:36:51.608070	LOG	Send Test Command TxFramesCtrlReq process starts
0:36:55.166089	LOG	GPS Time updated: 1385115152425
0:36:55.168092	LOG	PULL_DATA: 02 5227 02 0016c001ff1025bf
0:36:55.169776	LOG	PULL_ACK: 02 5227 04
0:36:56.495825	LOG	First uplink received. Open reception window.
0:36:56.605550	LOG	PUSH_ACK: 02 2a43 01
0:36:56.607556	LOG	GPS Time from gateway: 1385115153745
0:36:56.608555	LOG	PUSH_DATA: Protocol version = 02, Token = 2a43, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1017890195, 'time': '2023-11-27T10:12:14.745605Z', 'tmms': 1385115153745, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3286, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAggUCACTqSSF7RcM4wmQ='}]}
0:36:56.610555	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0582, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c338c264)
0:36:56.611555	LOG	Server <---------- DUT
0:36:56.613556	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02b3, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 6d6faf3b)
0:36:56.614554	LOG	Frame command sent to the DUT
0:36:56.616556	LOG	PULL_RESP: Protocol version = 02, Token = 3f6c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1018890195, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAswLg2P1tb687'}}
0:36:56.617555	LOG	Server ----------> DUT
0:36:56.620559	LOG	Send Test Command TxFramesCtrlReq process completed
0:36:56.623560	LOG	Send Test Command TxFramesCtrlReq process starts
0:37:01.488471	LOG	First uplink received. Open reception window.
0:37:01.602488	LOG	PUSH_ACK: 02 752d 01
0:37:01.604457	LOG	GPS Time from gateway: 1385115158745
0:37:01.605964	LOG	PUSH_DATA: Protocol version = 02, Token = 752d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1022889926, 'time': '2023-11-27T10:12:19.745335Z', 'tmms': 1385115158745, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3297, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAgwUC1uPPbJUggAEPLrI='}]}
0:37:01.606969	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0583, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 010f2eb2)
0:37:01.608970	LOG	Server <---------- DUT
0:37:01.609969	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02b4, FOpts:), FPort: e0, FRMPayload: 0700), MIC: d4fe80e8)
0:37:01.611969	LOG	Frame command sent to the DUT
0:37:01.612969	LOG	PULL_RESP: Protocol version = 02, Token = 5962, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1023889926, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAtALgtiLU/oDo'}}
0:37:01.614969	LOG	Server ----------> DUT

0:37:01.616969	LOG	Send Test Command TxFramesCtrlReq process completed
0:37:01.626984	LOG	Send Test Command TxFramesCtrlReq process starts
0:37:05.186339	LOG	GPS Time updated: 1385115162443
0:37:05.188350	LOG	PULL_DATA: 02 9e2d 02 0016c001ff1025bf
0:37:05.189356	LOG	PULL_ACK: 02 9e2d 04
0:37:06.494644	LOG	First uplink received. Open reception window.
0:37:06.606553	LOG	PUSH_ACK: 02 8a17 01
0:37:06.608520	LOG	GPS Time from gateway: 1385115163745
0:37:06.610516	LOG	PUSH_DATA: Protocol version = 02, Token = 8a17, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1027889670, 'time': '2023-11-27T10:12:24.745078Z', 'tmms': 1385115163745, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3297, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAhAUC35luNCs6ryAxyv4='}]}
0:37:06.611548	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0584, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2031cafe)
0:37:06.612516	LOG	Server <---------- DUT
0:37:06.614515	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02b5, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 728aaedb)
0:37:06.616513	LOG	Frame command sent to the DUT
0:37:06.617513	LOG	PULL_RESP: Protocol version = 02, Token = 6d86, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1028889670, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'oAAAAAAAtQLgDohLtnt7DFb7fyDDdil7H9WcL+c/09Cl8MdApI0KAxH9jmuHlTgOAE7M9ha0VYed76/Ncoqu2w=='}}
0:37:06.619514	LOG	Server ----------> DUT
0:37:06.622517	LOG	Send Test Command TxFramesCtrlReq process completed
0:37:06.624518	LOG	Check previous uplink data rate process starts
0:37:06.629525	LOG	Uplink received with expected Data Rate
0:37:06.632518	LOG	Check ACK bit in next uplink process starts
0:37:09.052420	LOG	First uplink received. Open reception window.
0:37:09.160964	LOG	PUSH_ACK: 02 d59a 01
0:37:09.162931	LOG	GPS Time from gateway: 1385115166303
0:37:09.163934	LOG	PUSH_DATA: Protocol version = 02, Token = d59a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1030447785, 'time': '2023-11-27T10:12:27.303193Z', 'tmms': 1385115166303, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3308, 'rssi': -52, 'size': 12, 'data': 'QAAAAACghQV+Nror'}]}
0:37:09.165940	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 0585, FOpts:), FPort: , FRMPayload: , MIC: 7e36ba2b)
0:37:09.166974	LOG	Server <---------- DUT
0:37:09.169148	LOG	ACK bit in FCtrl field is set
0:37:09.171179	LOG	Check ACK bit in next uplink tested successfully
0:37:09.176145	LOG	Send Test Command RxAppCntReq process starts
0:37:11.484875	LOG	First uplink received. Open reception window.
0:37:11.595958	LOG	PUSH_ACK: 02 0704 01
0:37:11.597924	LOG	GPS Time from gateway: 1385115168744
0:37:11.598925	LOG	PUSH_DATA: Protocol version = 02, Token = 0704, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1032889417, 'time': '2023-11-27T10:12:29.744825Z', 'tmms': 1385115168744, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3297, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAhgUCn0PpSP0EDIDgCFc='}]}
0:37:11.599923	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0586, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 80e00857)

0:37:11.601927	LOG	Server <---------- DUT
0:37:11.603928	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02b6, FOpts:), FPort: e0, FRMPayload: 09), MIC: 0ae3ef85)
0:37:11.604928	LOG	Frame command sent to the DUT
0:37:11.606432	LOG	PULL_RESP: Protocol version = 02, Token = 7c97, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1034889417, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAtgLgLQrj74U='}}
0:37:11.607437	LOG	Server ----------> DUT
0:37:11.610439	LOG	TX_ACK: 02 7c97 05 0016c001ff1025bf
0:37:14.746567	LOG	First uplink received. Open reception window.
0:37:14.862084	LOG	PUSH_ACK: 02 5844 01
0:37:14.864118	LOG	GPS Time from gateway: 1385115172003
0:37:14.865122	LOG	PUSH_DATA: Protocol version = 02, Token = 5844, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1036147630, 'time': '2023-11-27T10:12:33.003036Z', 'tmms': 1385115172003, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3309, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAhwXgKyuBpM+OIA=='}]}
0:37:14.866086	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0587, FOpts:), FPort: e0, FRMPayload: 096c01, MIC: a4cf8e20)
0:37:14.868085	LOG	Server <---------- DUT
0:37:14.870086	LOG	Frame Command Payload in the Answer: 096c01
0:37:14.873089	LOG	RX Count received by DUT: 364
0:37:14.876090	LOG	Send Test Command RxAppCntReq process completed
0:37:14.882089	LOG	Send MAC command block process starts
0:37:15.386897	LOG	GPS Time updated: 1385115172642
0:37:15.387899	LOG	PULL_DATA: 02 06b0 02 0016c001ff1025bf
0:37:15.389903	LOG	PULL_ACK: 02 06b0 04
0:37:21.493549	LOG	First uplink received. Open reception window.
0:37:21.594487	LOG	PUSH_ACK: 02 02aa 01
0:37:21.596489	LOG	GPS Time from gateway: 1385115178744
0:37:21.597493	LOG	PUSH_DATA: Protocol version = 02, Token = 02aa, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1042888896, 'time': '2023-11-27T10:12:39.744302Z', 'tmms': 1385115178744, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3282, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAiAUCnh1tRiHCkQ8eidM='}]}
0:37:21.599495	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0588, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0f1e89d3)
0:37:21.600499	LOG	Server <---------- DUT
0:37:21.602499	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02b7, FOpts:), FPort: 00, FRMPayload: 03500700010550d2ad84), MIC: f11f6458)
0:37:21.604498	LOG	PULL_RESP: Protocol version = 02, Token = 0cc5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1044888896, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAtwIA87sC+EQ5MgYHJvEfZFg='}}
0:37:21.606001	LOG	Server ----------> DUT
0:37:21.608007	LOG	TX_ACK: 02 0cc5 05 0016c001ff1025bf
0:37:25.596194	LOG	GPS Time updated: 1385115182847
0:37:25.598199	LOG	PULL_DATA: 02 78af 02 0016c001ff1025bf
0:37:25.599225	LOG	PULL_ACK: 02 78af 04
0:37:26.779070	LOG	First uplink received. Open reception window.
0:37:26.886879	LOG	PUSH_ACK: 02 a1cb 01
0:37:26.888387	LOG	GPS Time from gateway: 1385115184029
0:37:26.890388	LOG	PUSH_DATA: Protocol version = 02, Token = a1cb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1048174472, 'time': '2023-11-27T10:12:45.029876Z',

		'tmms': 1385115184029, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.8, 'foff': -3297, 'rssi': -51, 'size': 24, 'data': 'QAAAAACEiQUDBwUHApezyrega99uqp7x'}]}
0:37:26.891388	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0589, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 6eaa9ef1)
0:37:26.892387	LOG	Server <---------- DUT
0:37:26.894388	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:37:26.896390	LOG	Command Answer: 03070507
0:37:26.953762	LOG	MAC command communication completed
0:37:26.955762	LOG	Send Test Command RxAppCntReq process starts
0:37:31.548534	LOG	First uplink received. Open reception window.
0:37:31.659252	LOG	PUSH_ACK: 02 d6cb 01
0:37:31.661286	LOG	GPS Time from gateway: 1385115188806
0:37:31.662286	LOG	PUSH_DATA: Protocol version = 02, Token = d6cb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1052950978, 'time': '2023-11-27T10:12:49.806382Z', 'tmms': 1385115188806, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3286, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCigUFBwLr6kK3nNrwCcGG0A=='}]}
0:37:31.663287	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 058a, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 09c186d0)
0:37:31.665256	LOG	Server <---------- DUT
0:37:31.666287	LOG	MAC Command RXParamSetupAns received
0:37:31.668255	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02b8, FOpts:), FPort: e0, FRMPayload: 09), MIC: 33dc8177)
0:37:31.669342	LOG	Frame command sent to the DUT
0:37:31.670341	LOG	PULL_RESP: Protocol version = 02, Token = 133f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1054950978, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAuALgETPcgXc='}}
0:37:31.672342	LOG	Server ----------> DUT
0:37:31.675347	LOG	TX_ACK: 02 133f 05 0016c001ff1025bf
0:37:34.813243	LOG	First uplink received. Open reception window.
0:37:34.927704	LOG	PUSH_ACK: 02 0e7c 01
0:37:34.929666	LOG	GPS Time from gateway: 1385115192064
0:37:34.931669	LOG	PUSH_DATA: Protocol version = 02, Token = 0e7c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1056208936, 'time': '2023-11-27T10:12:53.064340Z', 'tmms': 1385115192064, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3305, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAiwXgb0EBELQl/A=='}]}
0:37:34.933679	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 058b, FOpts:), FPort: e0, FRMPayload: 096d01, MIC: 10b425fc)
0:37:34.934716	LOG	Server <---------- DUT
0:37:34.935755	LOG	Frame Command Payload in the Answer: 096d01
0:37:34.940040	LOG	RX Count received by DUT: 365
0:37:34.942051	LOG	Send Test Command RxAppCntReq process completed
0:37:34.944049	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:37:35.656929	LOG	GPS Time updated: 1385115192907
0:37:35.658118	LOG	PULL_DATA: 02 7b83 02 0016c001ff1025bf
0:37:35.659838	LOG	PULL_ACK: 02 7b83 04
0:37:41.551514	LOG	First uplink received. Open reception window.
0:37:41.659985	LOG	PUSH_ACK: 02 aac0 01
0:37:41.661986	LOG	GPS Time from gateway: 1385115198805
0:37:41.662988	LOG	PUSH_DATA: Protocol version = 02, Token = aac0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1062950353, 'time': '2023-11-27T10:12:59.805756Z',

		'tmms': 1385115198805, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAjAUCc9S3LzMeZupNPlk='}]}
0:37:41.664996	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 058c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ea4d3e59)
0:37:41.666027	LOG	Server <---------- DUT
0:37:41.667026	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02b9, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 09e795c4)
0:37:41.669572	LOG	Frame command sent to the DUT
0:37:41.670603	LOG	PULL_RESP: Protocol version = 02, Token = 972d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1064950353, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAuQLg6JIJ55XE'}}
0:37:41.672571	LOG	Server ----------> DUT
0:37:41.674569	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:37:41.680602	LOG	Send Test Command TxFramesCtrlReq process starts
0:37:45.866725	LOG	GPS Time updated: 1385115203119
0:37:45.867724	LOG	PULL_DATA: 02 1548 02 0016c001ff1025bf
0:37:45.869726	LOG	PULL_ACK: 02 1548 04
0:37:46.548903	LOG	First uplink received. Open reception window.
0:37:46.653174	LOG	PUSH_ACK: 02 ed9f 01
0:37:46.655214	LOG	GPS Time from gateway: 1385115203805
0:37:46.656212	LOG	PUSH_DATA: Protocol version = 02, Token = ed9f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1067950097, 'time': '2023-11-27T10:13:04.805499Z', 'tmms': 1385115203805, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAjQUCFJbmadc1s7+IZRM='}]}
0:37:46.658185	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 058d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: bf886513)
0:37:46.659185	LOG	Server <---------- DUT
0:37:46.661185	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02ba, FOpts:), FPort: e0, FRMPayload: 0700), MIC: d9878dff)
0:37:46.663185	LOG	Frame command sent to the DUT
0:37:46.665185	LOG	PULL_RESP: Protocol version = 02, Token = cd27, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1068950097, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAugLgJLLZh43/'}}
0:37:46.666185	LOG	Server ----------> DUT
0:37:46.668689	LOG	Send Test Command TxFramesCtrlReq process completed
0:37:46.672695	LOG	Send Test Command TxFramesCtrlReq process starts
0:37:51.546895	LOG	First uplink received. Open reception window.
0:37:51.662951	LOG	PUSH_ACK: 02 3662 01
0:37:51.664985	LOG	GPS Time from gateway: 1385115208805
0:37:51.665990	LOG	PUSH_DATA: Protocol version = 02, Token = 3662, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1072949839, 'time': '2023-11-27T10:13:09.805240Z', 'tmms': 1385115208805, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAjgUCuvL2zbZPWn43fL0='}]}
0:37:51.666955	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 058e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7e377cbd)
0:37:51.669504	LOG	Server <---------- DUT
0:37:51.671465	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02bb, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 979bd1c0)
0:37:51.672465	LOG	Frame command sent to the DUT
0:37:51.674465	LOG	PULL_RESP: Protocol version = 02, Token = eb33, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1073949839, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAuwLgCPKXm9HA'}}
0:37:51.675464	LOG	Server ----------> DUT
0:37:51.678464	LOG	Send Test Command TxFramesCtrlReq process completed
0:37:51.681498	LOG	Send Test Command TxFramesCtrlReq process starts
0:37:55.876707	LOG	GPS Time updated: 1385115213134
0:37:55.877699	LOG	PULL_DATA: 02 388e 02 0016c001ff1025bf
0:37:55.879670	LOG	PULL_ACK: 02 388e 04
0:37:56.551174	LOG	First uplink received. Open reception window.
0:37:56.653405	LOG	PUSH_ACK: 02 a73e 01
0:37:56.655408	LOG	GPS Time from gateway: 1385115213804
0:37:56.656408	LOG	PUSH_DATA: Protocol version = 02, Token = a73e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1077949581, 'time': '2023-11-27T10:13:14.804981Z', 'tmms': 1385115213804, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAjwUCOCoUhXjLSdAbFAA='}]}
0:37:56.658414	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 058f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d01b1400)
0:37:56.659418	LOG	Server <---------- DUT
0:37:56.661420	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02bc, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 499dab99)
0:37:56.663420	LOG	Frame command sent to the DUT
0:37:56.664458	LOG	PULL_RESP: Protocol version = 02, Token = 7cd5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1078949581, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAvALgYDFJnauZ'}}
0:37:56.665457	LOG	Server ----------> DUT
0:37:56.668957	LOG	Send Test Command TxFramesCtrlReq process completed
0:37:56.671999	LOG	Send Test Command TxFramesCtrlReq process starts
0:38:01.552054	LOG	First uplink received. Open reception window.
0:38:01.666525	LOG	PUSH_ACK: 02 3e44 01
0:38:01.668492	LOG	GPS Time from gateway: 1385115218804
0:38:01.670038	LOG	PUSH_DATA: Protocol version = 02, Token = 3e44, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1082949327, 'time': '2023-11-27T10:13:19.804726Z', 'tmms': 1385115218804, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3297, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAkAUCYagMlGVkdnzxhFo='}]}
0:38:01.672001	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0590, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7cf1845a)
0:38:01.672999	LOG	Server <---------- DUT
0:38:01.675039	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02bd, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 705dd5d3)
0:38:01.676033	LOG	Frame command sent to the DUT
0:38:01.678032	LOG	PULL_RESP: Protocol version = 02, Token = 085d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1083949327, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAvQLgAShwXdXT'}}
0:38:01.679034	LOG	Server ----------> DUT
0:38:01.682018	LOG	Send Test Command TxFramesCtrlReq process completed
0:38:01.691036	LOG	Send Test Command TxFramesCtrlReq process starts
0:38:06.085969	LOG	GPS Time updated: 1385115223337
0:38:06.087944	LOG	PULL_DATA: 02 ee59 02 0016c001ff1025bf
0:38:06.088938	LOG	PULL_ACK: 02 ee59 04
0:38:06.552524	LOG	First uplink received. Open reception window.
0:38:06.667531	LOG	PUSH_ACK: 02 f08f 01
0:38:06.669003	LOG	GPS Time from gateway: 1385115223804

0:38:06.671010	LOG	PUSH_DATA: Protocol version = 02, Token = f08f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1087949060, 'time': '2023-11-27T10:13:24.804457Z', 'tmms': 1385115223804, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -53, 'lsnr': 13.5, 'foff': -3286, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAkQUC6fRL+DHf3XzsCxw='}]}
0:38:06.672011	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0591, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7cec0b1c)
0:38:06.674010	LOG	Server <---------- DUT
0:38:06.675009	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02be, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: b42ba54b)
0:38:06.677009	LOG	Frame command sent to the DUT
0:38:06.678008	LOG	PULL_RESP: Protocol version = 02, Token = 707a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1088949060, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'oAAAAAAAvgLg3FTN3dZJ6jM5bPTTvYpGq1iKDzdLJOJN+LdEp5VbjypJHwjvmgOm6ZuM16m+9y+x+aCntCulSw==''}}
0:38:06.680009	LOG	Server ----------> DUT
0:38:06.682009	LOG	Send Test Command TxFramesCtrlReq process completed
0:38:06.685012	LOG	Check previous uplink data rate process starts
0:38:06.689014	LOG	Uplink received with expected Data Rate
0:38:06.692012	LOG	Check ACK bit in next uplink process starts
0:38:10.434704	LOG	First uplink received. Open reception window.
0:38:10.541372	LOG	PUSH_ACK: 02 5b32 01
0:38:10.543326	LOG	GPS Time from gateway: 1385115227693
0:38:10.544331	LOG	PUSH_DATA: Protocol version = 02, Token = 5b32, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1091837810, 'time': '2023-11-27T10:13:28.693208Z', 'tmms': 1385115227693, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3313, 'rssi': -52, 'size': 12, 'data': 'QAAAAACgkgX0HB5f'}]}
0:38:10.545339	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 0592, FOpts:), FPort: , FRMPayload: , MIC: f41c1e5f)
0:38:10.547331	LOG	Server <---------- DUT
0:38:10.548331	LOG	ACK bit in FCtrl field is set
0:38:10.551139	LOG	Check ACK bit in next uplink tested successfully
0:38:10.555703	LOG	Send Test Command RxAppCntReq process starts
0:38:16.126322	LOG	GPS Time updated: 1385115233385
0:38:16.127325	LOG	PULL_DATA: 02 43d6 02 0016c001ff1025bf
0:38:16.129324	LOG	PULL_ACK: 02 43d6 04
0:38:16.550360	LOG	First uplink received. Open reception window.
0:38:16.656468	LOG	PUSH_ACK: 02 b5ed 01
0:38:16.658468	LOG	GPS Time from gateway: 1385115233803
0:38:16.659471	LOG	PUSH_DATA: Protocol version = 02, Token = b5ed, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1097948537, 'time': '2023-11-27T10:13:34.803934Z', 'tmms': 1385115233803, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -53, 'lsnr': 13.8, 'foff': -3293, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAkwUCv04SgvTif5VKC0k='}]}
0:38:16.660436	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0593, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 954a0b49)
0:38:16.662435	LOG	Server <---------- DUT
0:38:16.664471	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02bf, FOpts:), FPort: e0, FRMPayload: 09), MIC: 19c744d3)
0:38:16.665468	LOG	Frame command sent to the DUT

0:38:16.666469	LOG	PULL_RESP: Protocol version = 02, Token = 3b78, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1099948537, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAvwLgoxnHRNM='}}
0:38:16.668459	LOG	Server ----------> DUT
0:38:16.670577	LOG	TX_ACK: 02 3b78 05 0016c001ff1025bf
0:38:19.807850	LOG	First uplink received. Open reception window.
0:38:19.914499	LOG	PUSH_ACK: 02 96ca 01
0:38:19.916535	LOG	GPS Time from gateway: 1385115237062
0:38:19.917535	LOG	PUSH_DATA: Protocol version = 02, Token = 96ca, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1101207019, 'time': '2023-11-27T10:13:38.062413Z', 'tmms': 1385115237062, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -53, 'lsnr': 14.2, 'foff': -3308, 'rssi': -52, 'size': 16, 'data': 'QAAAAACAlAXgbihUkP077Q=='}]}
0:38:19.919809	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0594, FOpts:), FPort: e0, FRMPayload: 097401, MIC: 90fd3bed)
0:38:19.920805	LOG	Server <---------- DUT
0:38:19.922806	LOG	Frame Command Payload in the Answer: 097401
0:38:19.926586	LOG	RX Count received by DUT: 372
0:38:19.928596	LOG	Send Test Command RxAppCntReq process completed
0:38:19.933628	LOG	End Test Step: Test packet error rate for SF7BW125 using RX1 window
0:38:19.936631	LOG	Partial Verdict: PASS
0:38:19.940627	LOG	==========
0:38:19.945633	LOG	==========
0:38:19.947855	LOG	Start Test Step: Test packet error rate for SF7BW250 using RX1 window
0:38:19.960378	LOG	Step 03-09
0:38:19.965411	LOG	Send NewChannelReq process starts
0:38:26.326253	LOG	GPS Time updated: 1385115243581
0:38:26.327219	LOG	PULL_DATA: 02 6a95 02 0016c001ff1025bf
0:38:26.329220	LOG	PULL_ACK: 02 6a95 04
0:38:26.545497	LOG	First uplink received. Open reception window.
0:38:26.646652	LOG	PUSH_ACK: 02 1fc5 01
0:38:26.648620	LOG	GPS Time from gateway: 1385115243803
0:38:26.649619	LOG	PUSH_DATA: Protocol version = 02, Token = 1fc5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1107948039, 'time': '2023-11-27T10:13:44.803434Z', 'tmms': 1385115243803, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -53, 'lsnr': 13.2, 'foff': -3286, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAlQUCaZiplQUW09pl9oo='}]}
0:38:26.651620	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0595, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: da65f68a)
0:38:26.652652	LOG	Server <---------- DUT
0:38:26.654619	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02c0, FOpts:), FPort: 00, FRMPayload: 070328768466), MIC: aeddbf04)
0:38:26.656652	LOG	PULL_RESP: Protocol version = 02, Token = b96a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1109948039, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YAAAAAAAwAIAXL+vXUvbrt2/BA=='}}
0:38:26.658189	LOG	Server ----------> DUT
0:38:26.660264	LOG	TX_ACK: 02 b96a 05 0016c001ff1025bf
0:38:31.723954	LOG	First uplink received. Open reception window.
0:38:31.825076	LOG	PUSH_ACK: 02 c956 01
0:38:31.827081	LOG	GPS Time from gateway: 1385115248979
0:38:31.829085	LOG	PUSH_DATA: Protocol version = 02, Token = c956, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1113123773, 'time': '2023-11-27T10:13:49.979166Z', 'tmms': 1385115248979, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -53, 'lsnr': 14.2, 'foff': -3293, 'rssi': -52, 'size': 22, 'data': 'QAAAAACClgUHAwI02jeCttEZQWPDtw==’}]}
0:38:31.831080	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0596, FOpts: 0703), FPort: 02, FRMPayload: 00000001020000, MIC: 4163c3b7)
0:38:31.832081	LOG	Server <---------- DUT
0:38:31.834082	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:38:31.835114	LOG	Command Answer: 0703
0:38:31.840224	LOG	MAC command communication completed
0:38:31.845232	LOG	Send MAC command block process starts
0:38:36.526402	LOG	GPS Time updated: 1385115253781
0:38:36.527401	LOG	PULL_DATA: 02 2802 02 0016c001ff1025bf
0:38:36.529462	LOG	PULL_ACK: 02 2802 04
0:38:36.560480	LOG	First uplink received. Open reception window.
0:38:36.665386	LOG	PUSH_ACK: 02 e4cf 01
0:38:36.667387	LOG	GPS Time from gateway: 1385115253802
0:38:36.668418	LOG	PUSH_DATA: Protocol version = 02, Token = e4cf, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1117947519, 'time': '2023-11-27T10:13:54.802913Z', 'tmms': 1385115253802, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -53, 'lsnr': 14.0, 'foff': -3293, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAlwUClIz6Ih/iUzVjtNI='}]}
0:38:36.670524	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0597, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3563b4d2)
0:38:36.671522	LOG	Server <---------- DUT
0:38:36.673569	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02c1, FOpts:), FPort: 00, FRMPayload: 03600f00010500d2ad84), MIC: 3b805795)
0:38:36.675531	LOG	PULL_RESP: Protocol version = 02, Token = 122f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1119947519, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAwQIAG9TBxM6BatuAFzuAV5U='}}
0:38:36.677523	LOG	Server ----------> DUT
0:38:36.680527	LOG	TX_ACK: 02 122f 05 0016c001ff1025bf
0:38:41.518373	LOG	#**********CURRENT BEACON SENT**********#
0:38:41.519404	LOG	PULL_RESP: Protocol version = 02, Token = 2c7e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385115264000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACALo9S7jEAAAAAAAAAAA='}}
0:38:41.521420	LOG	Server ----------> DUT
0:38:41.522373	LOG	#**********#
0:38:41.532381	LOG	#**********NEXT BEACON QUEUED**********#
0:38:41.534412	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385115392000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAL49S5tsAAAAAAAAAAA='}}
0:38:41.535412	LOG	Server ----------> DUT
0:38:41.536413	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 002f8f52, CRC1: e6db, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385115392000
0:38:41.537417	LOG	#**********#
0:38:41.539417	LOG	Next BEACON scheduled at GPS time (ms): 1385115520000
0:38:41.540418	LOG	First uplink received. Open reception window.

0:38:41.542030	LOG	TX_ACK: 02 2c7e 05 0016c001ff1025bf
0:38:41.647794	LOG	PUSH_ACK: 02 4023 01
0:38:41.649536	LOG	GPS Time from gateway: 1385115258777
0:38:41.651535	LOG	PUSH_DATA: Protocol version = 02, Token = 4023, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1122921643, 'time': '2023-11-27T10:13:59.777036Z', 'tmms': 1385115258777, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -53, 'lsnr': 14.2, 'foff': -3293, 'rssi': -52, 'size': 24, 'data': 'QAAAAACEmAUDBwUHAnerIWjf+yIM0sKE'}]}
0:38:41.652532	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0598, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 0cd2c284)
0:38:41.653533	LOG	Server <---------- DUT
0:38:41.655573	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:38:41.656539	LOG	Command Answer: 03070507
0:38:41.712355	LOG	MAC command communication completed
0:38:41.715412	LOG	Send Test Command RxAppCntReq process starts
0:38:46.517690	LOG	First uplink received. Open reception window.
0:38:46.556094	LOG	PULL_DATA: 02 6401 02 0016c001ff1025bf
0:38:46.557092	LOG	PULL_ACK: 02 6401 04
0:38:46.627860	LOG	PUSH_ACK: 02 1321 01
0:38:46.629878	LOG	GPS Time from gateway: 1385115263774
0:38:46.630908	LOG	PUSH_DATA: Protocol version = 02, Token = 1321, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1127918808, 'time': '2023-11-27T10:14:04.774200Z', 'tmms': 1385115263774, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -53, 'lsnr': 14.5, 'foff': -3293, 'rssi': -52, 'size': 22, 'data': 'QAAAAACCmQUFBwKRVO/lkv4eUB5Juw=='}]}
0:38:46.631910	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0599, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 501e49bb)
0:38:46.633911	LOG	Server <---------- DUT
0:38:46.634912	LOG	MAC Command RXParamSetupAns received
0:38:46.635910	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02c2, FOpts:), FPort: e0, FRMPayload: 09), MIC: 2c8d0ad7)
0:38:46.638454	LOG	Frame command sent to the DUT
0:38:46.639485	LOG	PULL_RESP: Protocol version = 02, Token = 7ee3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1129918808, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAwgLgvCyNCtc='}}
0:38:46.640482	LOG	Server ----------> DUT
0:38:46.643455	LOG	TX_ACK: 02 7ee3 05 0016c001ff1025bf
0:38:49.755023	LOG	First uplink received. Open reception window.
0:38:49.867098	LOG	PUSH_ACK: 02 7a54 01
0:38:49.869100	LOG	GPS Time from gateway: 1385115267006
0:38:49.870100	LOG	PUSH_DATA: Protocol version = 02, Token = 7a54, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1131151577, 'time': '2023-11-27T10:14:08.006966Z', 'tmms': 1385115267006, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -53, 'lsnr': 14.2, 'foff': -3308, 'rssi': -52, 'size': 16, 'data': 'QAAAAACAmgXg8RbFoy3tpA=='}]}
0:38:49.872109	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 059a, FOpts:), FPort: e0, FRMPayload: 097501, MIC: a32deda4)
0:38:49.873104	LOG	Server <---------- DUT
0:38:49.875104	LOG	Frame Command Payload in the Answer: 097501
0:38:49.878836	LOG	RX Count received by DUT: 373
0:38:49.880886	LOG	Send Test Command RxAppCntReq process completed
0:38:49.883844	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:38:56.518556	LOG	First uplink received. Open reception window.

0:38:56.627125	LOG	PUSH_ACK: 02 1aeb 01
0:38:56.629093	LOG	GPS Time from gateway: 1385115273773
0:38:56.630093	LOG	PUSH_DATA: Protocol version = 02, Token = 1aeb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1137918186, 'time': '2023-11-27T10:14:14.773576Z', 'tmms': 1385115273773, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -53, 'lsnr': 14.2, 'foff': -3293, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAmwUCKDBQIjf4g6fLH8U='}]}
0:38:56.632149	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 059b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a7cb1fc5)
0:38:56.633099	LOG	Server <---------- DUT
0:38:56.635134	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02c3, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 535482d2)
0:38:56.636131	LOG	Frame command sent to the DUT
0:38:56.638676	LOG	PULL_RESP: Protocol version = 02, Token = 0642, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1139918186, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAwwLgluxTVILS'}}
0:38:56.639708	LOG	Server ----------> DUT
0:38:56.642675	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:38:56.648710	LOG	Send Test Command TxFramesCtrlReq process starts
0:39:01.519601	LOG	First uplink received. Open reception window.
0:39:01.626297	LOG	PUSH_ACK: 02 c185 01
0:39:01.628332	LOG	GPS Time from gateway: 1385115278773
0:39:01.629331	LOG	PUSH_DATA: Protocol version = 02, Token = c185, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1142917922, 'time': '2023-11-27T10:14:19.773310Z', 'tmms': 1385115278773, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -53, 'lsnr': 14.5, 'foff': -3293, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAnAUCtBv7sllgYem9kBw='}]}
0:39:01.631308	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 059c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e9bd901c)
0:39:01.632315	LOG	Server <---------- DUT
0:39:01.634352	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02c4, FOpts:), FPort: e0, FRMPayload: 0700), MIC: bc8d2377)
0:39:01.636355	LOG	Frame command sent to the DUT
0:39:01.637348	LOG	PULL_RESP: Protocol version = 02, Token = d122, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1143917922, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAxALgQYC8jSN3'}}
0:39:01.638485	LOG	Server ----------> DUT
0:39:01.641453	LOG	Send Test Command TxFramesCtrlReq process completed
0:39:01.644483	LOG	Send Test Command TxFramesCtrlReq process starts
0:39:06.518668	LOG	First uplink received. Open reception window.
0:39:06.632362	LOG	PUSH_ACK: 02 4a57 01
0:39:06.634362	LOG	GPS Time from gateway: 1385115283773
0:39:06.635365	LOG	PUSH_DATA: Protocol version = 02, Token = 4a57, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1147917665, 'time': '2023-11-27T10:14:24.773054Z', 'tmms': 1385115283773, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -53, 'lsnr': 14.0, 'foff': -3293, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAnQUCCiREO2iVFiIFT00='}]}
0:39:06.637338	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 059d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 22054f4d)
0:39:06.639344	LOG	Server <---------- DUT
0:39:06.640343	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02c5, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 9c94e035)
0:39:06.642376	LOG	Frame command sent to the DUT

0:39:06.643375	LOG	PULL_RESP: Protocol version = 02, Token = d913, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1148917665, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAxQLgIJ2clOA1'}}
0:39:06.645369	LOG	Server ----------> DUT
0:39:06.647345	LOG	Send Test Command TxFramesCtrlReq process completed
0:39:06.651377	LOG	Send Test Command TxFramesCtrlReq process starts
0:39:11.518479	LOG	First uplink received. Open reception window.
0:39:11.633033	LOG	PUSH_ACK: 02 daba 01
0:39:11.635001	LOG	GPS Time from gateway: 1385115288772
0:39:11.636001	LOG	PUSH_DATA: Protocol version = 02, Token = daba, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1152917413, 'time': '2023-11-27T10:14:29.772801Z', 'tmms': 1385115288772, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -53, 'lsnr': 14.2, 'foff': -3293, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAngUCuIHgZ2ONS44A54A='}]}
0:39:11.637506	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 059e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8e00e780)
0:39:11.639512	LOG	Server <---------- DUT
0:39:11.641513	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02c6, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 4a29d218)
0:39:11.643513	LOG	Frame command sent to the DUT
0:39:11.644544	LOG	PULL_RESP: Protocol version = 02, Token = 5fa4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1153917413, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAxgLgZxVKKdIY'}}
0:39:11.645544	LOG	Server ----------> DUT
0:39:11.648512	LOG	Send Test Command TxFramesCtrlReq process completed
0:39:11.652512	LOG	Send Test Command TxFramesCtrlReq process starts
0:39:16.515682	LOG	First uplink received. Open reception window.
0:39:16.621852	LOG	PUSH_ACK: 02 15fa 01
0:39:16.623889	LOG	GPS Time from gateway: 1385115293772
0:39:16.624893	LOG	PUSH_DATA: Protocol version = 02, Token = 15fa, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1157917151, 'time': '2023-11-27T10:14:34.772538Z', 'tmms': 1385115293772, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -53, 'lsnr': 14.2, 'foff': -3293, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAnwUCJjXdwre5a+vCp84='}]}
0:39:16.626910	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 059f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ebc2a7ce)
0:39:16.627896	LOG	Server <---------- DUT
0:39:16.629862	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02c7, FOpts:), FPort: e0, FRMPayload: 0700), MIC: fd796794)
0:39:16.631900	LOG	Frame command sent to the DUT
0:39:16.632895	LOG	PULL_RESP: Protocol version = 02, Token = 2a1c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1158917151, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAxwLg/cT9eWeU'}}
0:39:16.634880	LOG	Server ----------> DUT
0:39:16.637401	LOG	Send Test Command TxFramesCtrlReq process completed
0:39:16.646407	LOG	Send Test Command TxFramesCtrlReq process starts
0:39:16.845816	LOG	GPS Time updated: 1385115294102
0:39:16.846863	LOG	PULL_DATA: 02 7fde 02 0016c001ff1025bf
0:39:16.848860	LOG	PULL_ACK: 02 7fde 04
0:39:21.511291	LOG	First uplink received. Open reception window.
0:39:21.616824	LOG	PUSH_ACK: 02 e034 01
0:39:21.618830	LOG	GPS Time from gateway: 1385115298772

0:39:21.619829	LOG	PUSH_DATA: Protocol version = 02, Token = e034, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1162916900, 'time': '2023-11-27T10:14:39.772286Z', 'tmms': 1385115298772, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -53, 'lsnr': 14.2, 'foff': -3293, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAoAUCnLk8iKO76/vYwSM='}]}
0:39:21.621832	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05a0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fbd8c123)
0:39:21.622837	LOG	Server <-------------------- DUT
0:39:21.624839	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02c8, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 4878a772)
0:39:21.626837	LOG	Frame command sent to the DUT
0:39:21.627837	LOG	PULL_RESP: Protocol version = 02, Token = 4809, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1163916900, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'oAAAAAAAyALg+Tm/fbkZpmfBHmO2+grYEkrSyRO9CGU3cJZSZW+doz8dybkwbNG7yLxEnHFICp1iYlxa0PFZCYNYI8cX9Tvba28OFeHCl+W8ftgHRIu++2kDnZpmm5LEVxBYkUKW2BcD9FfvsQ6gIMtXuU2oVyVaWI7EAIeh3p6hhSZmL+APqC1/6oevNKzs0kWxktSfFEdWEdDWHnaE7cblHRFUHl3LcbyN7CuLnS3QXtXV8jOtHfaB7dGlYC0dnWjdcfPEp+HpGS8UUBP7AE+OY/KcyG6AmHvbEowXtujSmXHg8E7e07zhVE7Cv0ikNVuy99kHcI3nCSFIeKdy'}}
0:39:21.629838	LOG	Server --------------------> DUT
0:39:21.632880	LOG	Send Test Command TxFramesCtrlReq process completed
0:39:21.635866	LOG	Check previous uplink data rate process starts
0:39:21.640410	LOG	Uplink received with expected Data Rate
0:39:21.643409	LOG	Check ACK bit in next uplink process starts
0:39:22.765642	LOG	First uplink received. Open reception window.
0:39:22.869432	LOG	PUSH_ACK: 02 7621 01
0:39:22.871399	LOG	GPS Time from gateway: 1385115300025
0:39:22.872399	LOG	PUSH_DATA: Protocol version = 02, Token = 7621, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1164170432, 'time': '2023-11-27T10:14:41.025817Z', 'tmms': 1385115300025, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -53, 'lsnr': 14.2, 'foff': -3293, 'rssi': -52, 'size': 12, 'data': 'QAAAAACgoQVwU/LY'}]}
0:39:22.874406	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 05a1, FOpts:), FPort: , FRMPayload: , MIC: 7053f2d8)
0:39:22.875411	LOG	Server <-------------------- DUT
0:39:22.877413	LOG	ACK bit in FCtrl field is set
0:39:22.879446	LOG	Check ACK bit in next uplink tested successfully
0:39:22.884412	LOG	Send Test Command RxAppCntReq process starts
0:39:26.735532	LOG	First uplink received. Open reception window.
0:39:26.851951	LOG	PUSH_ACK: 02 5789 01
0:39:26.853918	LOG	GPS Time from gateway: 1385115303988
0:39:26.854918	LOG	PUSH_DATA: Protocol version = 02, Token = 5789, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1168133368, 'time': '2023-11-27T10:14:44.988753Z', 'tmms': 1385115303988, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -53, 'lsnr': 13.8, 'foff': -3293, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAogUC/nnITi+wvO/U8Ww='}]}

0:39:26.856423	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05a2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: efd4f16c)
0:39:26.858428	LOG	Server <---------- DUT
0:39:26.860428	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02c9, FOpts:), FPort: e0, FRMPayload: 09), MIC: 69613503)
0:39:26.861430	LOG	Frame command sent to the DUT
0:39:26.862464	LOG	PULL_RESP: Protocol version = 02, Token = 8d07, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1170133368, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAyQLgsGlhNQM='}}
0:39:26.864430	LOG	Server ----------> DUT
0:39:26.866514	LOG	TX_ACK: 02 8d07 05 0016c001ff1025bf
0:39:26.868428	LOG	GPS Time updated: 1385115304121
0:39:26.869467	LOG	PULL_DATA: 02 42bb 02 0016c001ff1025bf
0:39:26.871462	LOG	PULL_ACK: 02 42bb 04
0:39:29.969349	LOG	First uplink received. Open reception window.
0:39:30.071775	LOG	PUSH_ACK: 02 8abc 01
0:39:30.073744	LOG	GPS Time from gateway: 1385115307221
0:39:30.075249	LOG	PUSH_DATA: Protocol version = 02, Token = 8abc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1171365707, 'time': '2023-11-27T10:14:48.221092Z', 'tmms': 1385115307221, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -53, 'lsnr': 14.2, 'foff': -3308, 'rssi': -52, 'size': 16, 'data': 'QAAAAACAowXgReqj5FnGgg=='}]}
0:39:30.076254	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05a3, FOpts:), FPort: e0, FRMPayload: 097c01, MIC: e459c682)
0:39:30.077254	LOG	Server <---------- DUT
0:39:30.079254	LOG	Frame Command Payload in the Answer: 097c01
0:39:30.082936	LOG	RX Count received by DUT: 380
0:39:30.084847	LOG	Send Test Command RxAppCntReq process completed
0:39:30.091858	LOG	Send MAC command block process starts
0:39:36.517878	LOG	First uplink received. Open reception window.
0:39:36.629591	LOG	PUSH_ACK: 02 0f1b 01
0:39:36.631591	LOG	GPS Time from gateway: 1385115313771
0:39:36.632592	LOG	PUSH_DATA: Protocol version = 02, Token = 0f1b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1177916111, 'time': '2023-11-27T10:14:54.771495Z', 'tmms': 1385115313771, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -53, 'lsnr': 14.5, 'foff': -3293, 'rssi': -52, 'size': 20, 'data': 'QAAAAACApAUC7U+gEU8oSMtzOWo='}]}
0:39:36.635103	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05a4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: cb73396a)
0:39:36.636102	LOG	Server <---------- DUT
0:39:36.638611	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02ca, FOpts:), FPort: 00, FRMPayload: 03600f00010510d2ad84), MIC: 6f824e58)
0:39:36.640611	LOG	PULL_RESP: Protocol version = 02, Token = bc90, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1179916111, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAygIAq5pA4SOh/NeMy2+CTlg='}}
0:39:36.641610	LOG	Server ----------> DUT
0:39:36.644615	LOG	TX_ACK: 02 bc90 05 0016c001ff1025bf
0:39:37.056099	LOG	GPS Time updated: 1385115314310
0:39:37.057138	LOG	PULL_DATA: 02 5a2a 02 0016c001ff1025bf
0:39:37.059155	LOG	PULL_ACK: 02 5a2a 04
0:39:41.520154	LOG	First uplink received. Open reception window.
0:39:41.633741	LOG	PUSH_ACK: 02 062a 01
0:39:41.635709	LOG	GPS Time from gateway: 1385115318773

0:39:41.636707	LOG	PUSH_DATA: Protocol version = 02, Token = 062a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1182918538, 'time': '2023-11-27T10:14:59.773921Z', 'tmms': 1385115318773, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -53, 'lsnr': 14.5, 'foff': -3293, 'rssi': -52, 'size': 24, 'data': 'QAAAAACEpQUDBwUHAqXCLQxPy3O2L40a'}]}
0:39:41.638212	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 05a5, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: b62f8d1a)
0:39:41.640223	LOG	Server <---------- DUT
0:39:41.641223	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:39:41.643223	LOG	Command Answer: 03070507
0:39:41.697143	LOG	MAC command communication completed
0:39:41.700145	LOG	Send Test Command RxAppCntReq process starts
0:39:46.512544	LOG	First uplink received. Open reception window.
0:39:46.615880	LOG	PUSH_ACK: 02 87c8 01
0:39:46.617848	LOG	GPS Time from gateway: 1385115323771
0:39:46.618848	LOG	PUSH_DATA: Protocol version = 02, Token = 87c8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1187915703, 'time': '2023-11-27T10:15:04.771085Z', 'tmms': 1385115323771, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -53, 'lsnr': 14.0, 'foff': -3293, 'rssi': -52, 'size': 22, 'data': 'QAAAAACCpgUFBwLNzdOnFLF6MHduBw=='}]}
0:39:46.619848	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 05a6, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 30776e07)
0:39:46.621848	LOG	Server <---------- DUT
0:39:46.622853	LOG	MAC Command RXParamSetupAns received
0:39:46.624853	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02cb, FOpts:), FPort: e0, FRMPayload: 09), MIC: 38c6554c)
0:39:46.625852	LOG	Frame command sent to the DUT
0:39:46.627853	LOG	PULL_RESP: Protocol version = 02, Token = a948, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1189915703, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAywLgCTjGVUw='}}
0:39:46.628853	LOG	Server ----------> DUT
0:39:46.630916	LOG	TX_ACK: 02 a948 05 0016c001ff1025bf
0:39:47.255907	LOG	GPS Time updated: 1385115324514
0:39:47.256907	LOG	PULL_DATA: 02 afd2 02 0016c001ff1025bf
0:39:47.258908	LOG	PULL_ACK: 02 afd2 04
0:39:49.745454	LOG	First uplink received. Open reception window.
0:39:49.853922	LOG	PUSH_ACK: 02 1fff 01
0:39:49.854956	LOG	GPS Time from gateway: 1385115327003
0:39:49.857467	LOG	PUSH_DATA: Protocol version = 02, Token = 1fff, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1191148613, 'time': '2023-11-27T10:15:08.003992Z', 'tmms': 1385115327003, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -53, 'lsnr': 14.2, 'foff': -3308, 'rssi': -52, 'size': 16, 'data': 'QAAAAACApwXgaBGYuEFgkw=='}]}
0:39:49.858468	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05a7, FOpts:), FPort: e0, FRMPayload: 097d01, MIC: b8416093)
0:39:49.860466	LOG	Server <---------- DUT
0:39:49.861467	LOG	Frame Command Payload in the Answer: 097d01
0:39:49.865685	LOG	RX Count received by DUT: 381
0:39:49.867695	LOG	Send Test Command RxAppCntReq process completed
0:39:49.870694	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:39:56.509677	LOG	First uplink received. Open reception window.
0:39:56.622752	LOG	PUSH_ACK: 02 b967 01
0:39:56.624790	LOG	GPS Time from gateway: 1385115333770

0:39:56.625758	LOG	PUSH_DATA: Protocol version = 02, Token = b967, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1197915079, 'time': '2023-11-27T10:15:14.770459Z', 'tmms': 1385115333770, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -53, 'lsnr': 14.8, 'foff': -3293, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAqAUC4xXnJPIkCdkuH/I='}]}
0:39:56.627763	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05a8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d92e1ff2)
0:39:56.628797	LOG	Server <---------- DUT
0:39:56.630764	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02cc, FOpts:), FPort: e0, FRMPayload: 0500), MIC: cb2c6aa8)
0:39:56.632792	LOG	Frame command sent to the DUT
0:39:56.633797	LOG	PULL_RESP: Protocol version = 02, Token = 141c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1199915079, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAzALg7CzLLGqo'}}
0:39:56.634798	LOG	Server ----------> DUT
0:39:56.637765	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:39:56.644277	LOG	Send Test Command TxFramesCtrlReq process starts
0:39:57.265937	LOG	GPS Time updated: 1385115334527
0:39:57.266936	LOG	PULL_DATA: 02 f439 02 0016c001ff1025bf
0:39:57.268937	LOG	PULL_ACK: 02 f439 04
0:40:01.510369	LOG	First uplink received. Open reception window.
0:40:01.622711	LOG	PUSH_ACK: 02 4544 01
0:40:01.624748	LOG	GPS Time from gateway: 1385115338770
0:40:01.625717	LOG	PUSH_DATA: Protocol version = 02, Token = 4544, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1202914817, 'time': '2023-11-27T10:15:19.770195Z', 'tmms': 1385115338770, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -53, 'lsnr': 14.2, 'foff': -3293, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAqQUCRygVEv73QvgN6GU='}]}
0:40:01.627757	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05a9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f80de865)
0:40:01.628755	LOG	Server <---------- DUT
0:40:01.630756	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02cd, FOpts:), FPort: e0, FRMPayload: 0700), MIC: e356cacf)
0:40:01.632731	LOG	Frame command sent to the DUT
0:40:01.633754	LOG	PULL_RESP: Protocol version = 02, Token = 2895, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1203914817, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAzQLgTunjVsrP'}}
0:40:01.634755	LOG	Server ----------> DUT
0:40:01.637755	LOG	Send Test Command TxFramesCtrlReq process completed
0:40:01.641302	LOG	Send Test Command TxFramesCtrlReq process starts
0:40:06.512638	LOG	First uplink received. Open reception window.
0:40:06.623890	LOG	PUSH_ACK: 02 e026 01
0:40:06.625854	LOG	GPS Time from gateway: 1385115343769
0:40:06.626854	LOG	PUSH_DATA: Protocol version = 02, Token = e026, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1207914558, 'time': '2023-11-27T10:15:24.769937Z', 'tmms': 1385115343769, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -53, 'lsnr': 14.2, 'foff': -3293, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAqgUCbX1Z4O6MzruYqcU='}]}
0:40:06.628873	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05aa, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: bb98a9c5)
0:40:06.629878	LOG	Server <---------- DUT
0:40:06.631878	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02ce, FOpts:), FPort: e0, FRMPayload: 0700), MIC: bdb20fdf)
0:40:06.633878	LOG	Frame command sent to the DUT

0:40:06.634877	LOG	PULL_RESP: Protocol version = 02, Token = dd30, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1208914558, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAzgLg1ey9sg/f'}}
0:40:06.636877	LOG	Server ----------> DUT
0:40:06.639387	LOG	Send Test Command TxFramesCtrlReq process completed
0:40:06.642386	LOG	Send Test Command TxFramesCtrlReq process starts
0:40:07.475963	LOG	GPS Time updated: 1385115344732
0:40:07.476930	LOG	PULL_DATA: 02 7857 02 0016c001ff1025bf
0:40:07.478932	LOG	PULL_ACK: 02 7857 04
0:40:11.517747	LOG	First uplink received. Open reception window.
0:40:11.629876	LOG	PUSH_ACK: 02 47d0 01
0:40:11.631876	LOG	GPS Time from gateway: 1385115348769
0:40:11.632880	LOG	PUSH_DATA: Protocol version = 02, Token = 47d0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1212914304, 'time': '2023-11-27T10:15:29.769682Z', 'tmms': 1385115348769, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -53, 'lsnr': 14.8, 'foff': -3293, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAqwUC6vHiH9L6KURrnSU='}]}
0:40:11.634843	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05ab, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 446b9d25)
0:40:11.635842	LOG	Server <---------- DUT
0:40:11.637866	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02cf, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 1259a1e5)
0:40:11.638977	LOG	Frame command sent to the DUT
0:40:11.640975	LOG	PULL_RESP: Protocol version = 02, Token = e851, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1213914304, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAzwLg7aoSWaHl'}}
0:40:11.641977	LOG	Server ----------> DUT
0:40:11.644978	LOG	Send Test Command TxFramesCtrlReq process completed
0:40:11.648977	LOG	Send Test Command TxFramesCtrlReq process starts
0:40:16.512583	LOG	First uplink received. Open reception window.
0:40:16.614845	LOG	PUSH_ACK: 02 e089 01
0:40:16.616814	LOG	GPS Time from gateway: 1385115353769
0:40:16.618817	LOG	PUSH_DATA: Protocol version = 02, Token = e089, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1217914039, 'time': '2023-11-27T10:15:34.769416Z', 'tmms': 1385115353769, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -53, 'lsnr': 14.5, 'foff': -3293, 'rssi': -52, 'size': 20, 'data': 'QAAAAACArAUCerxERGKwzjfhUJo='}]}
0:40:16.619851	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05ac, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 37e1509a)
0:40:16.621814	LOG	Server <---------- DUT
0:40:16.622849	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02d0, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 30c82f26)
0:40:16.624853	LOG	Frame command sent to the DUT
0:40:16.625887	LOG	PULL_RESP: Protocol version = 02, Token = 77e5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1218914039, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA0ALgYAQwyC8m'}}
0:40:16.627855	LOG	Server ----------> DUT
0:40:16.629887	LOG	Send Test Command TxFramesCtrlReq process completed
0:40:16.639363	LOG	Send Test Command TxFramesCtrlReq process starts
0:40:17.675461	LOG	GPS Time updated: 1385115354932
0:40:17.676700	LOG	PULL_DATA: 02 8b6b 02 0016c001ff1025bf
0:40:17.678702	LOG	PULL_ACK: 02 8b6b 04
0:40:21.514019	LOG	First uplink received. Open reception window.

0:40:21.617639	LOG	PUSH_ACK: 02 869f 01
0:40:21.619640	LOG	GPS Time from gateway: 1385115358769
0:40:21.620675	LOG	PUSH_DATA: Protocol version = 02, Token = 869f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1222913791, 'time': '2023-11-27T10:15:39.769167Z', 'tmms': 1385115358769, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -53, 'lsnr': 14.2, 'foff': -3293, 'rssi': -52, 'size': 20, 'data': 'QAAAAACArQUCnU85J26Beza/vOQ='}]}
0:40:21.622640	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05ad, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 36bfbce4)
0:40:21.623644	LOG	Server <-------------------- DUT
0:40:21.625679	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02d1, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: b3d58d11)
0:40:21.627678	LOG	Frame command sent to the DUT
0:40:21.628681	LOG	PULL_RESP: Protocol version = 02, Token = 47b4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1223913791, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'oAAAAAAA0QLg6BMvo+ebUa42EUC5PHYAlKK2upSPwp5KxB/BKBzg584Ybc/tn1Io/8eIPZlgWIUWiGr+7kbheD5lt+43WbglyN4Reqx32pmCJZ01WF+ap81MweptxKmqbJ54qEEixZYEacl8gvDyOBt3JKDPCvL2SVAgArsQlpo4ui2yuM530AOnnn2JRZKAXtdbsmOIMPauj4ZMtpKEwRZu6FJPFR7VfSiWyyVE0leYIGTLI1vF3EBtE4vNgXk2kef/HVqDVb5yTUIvMgrGUJogRWkO0mvtWyrwxr9V9gv9yezdPMtwL48iEb/LfMlaScWLdYMYnB7Y54yz1Y0R'}}
0:40:21.629678	LOG	Server --------------------> DUT
0:40:21.632646	LOG	Send Test Command TxFramesCtrlReq process completed
0:40:21.635645	LOG	Check previous uplink data rate process starts
0:40:21.640161	LOG	Uplink received with expected Data Rate
0:40:21.643158	LOG	Check ACK bit in next uplink process starts
0:40:24.644614	LOG	First uplink received. Open reception window.
0:40:24.752485	LOG	PUSH_ACK: 02 c58c 01
0:40:24.754453	LOG	GPS Time from gateway: 1385115361899
0:40:24.755453	LOG	PUSH_DATA: Protocol version = 02, Token = c58c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1226044148, 'time': '2023-11-27T10:15:42.899524Z', 'tmms': 1385115361899, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -53, 'lsnr': 14.2, 'foff': -3308, 'rssi': -52, 'size': 12, 'data': 'QAAAAACgrgVXxY3Z'}]}
0:40:24.757459	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 05ae, FOpts:), FPort: , FRMPayload: , MIC: 57c58dd9)
0:40:24.758463	LOG	Server <-------------------- DUT
0:40:24.760464	LOG	ACK bit in FCtrl field is set
0:40:24.762967	LOG	Check ACK bit in next uplink tested successfully
0:40:24.767416	LOG	Send Test Command RxAppCntReq process starts
0:40:27.715011	LOG	GPS Time updated: 1385115364971
0:40:27.717011	LOG	PULL_DATA: 02 c94c 02 0016c001ff1025bf
0:40:27.718013	LOG	PULL_ACK: 02 c94c 04
0:40:31.507232	LOG	First uplink received. Open reception window.
0:40:31.617019	LOG	PUSH_ACK: 02 5478 01
0:40:31.618986	LOG	GPS Time from gateway: 1385115368768

0:40:31.619991	LOG	PUSH_DATA: Protocol version = 02, Token = 5478, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1232913277, 'time': '2023-11-27T10:15:49.768650Z', 'tmms': 1385115368768, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3293, 'rssi': -52, 'size': 20, 'data': 'QAAAAACArwUC2F+PS94qJEruZvw='}]}
0:40:31.621987	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05af, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4aee66fc)
0:40:31.623020	LOG	Server <---------- DUT
0:40:31.625026	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02d2, FOpts:), FPort: e0, FRMPayload: 09), MIC: b7661c34)
0:40:31.626028	LOG	Frame command sent to the DUT
0:40:31.628058	LOG	PULL_RESP: Protocol version = 02, Token = 3ffd, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1234913277, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAA0gLg17dmHDQ='}}
0:40:31.629058	LOG	Server ----------> DUT
0:40:31.631036	LOG	TX_ACK: 02 3ffd 05 0016c001ff1025bf
0:40:34.748531	LOG	First uplink received. Open reception window.
0:40:34.850912	LOG	PUSH_ACK: 02 1e74 01
0:40:34.852912	LOG	GPS Time from gateway: 1385115372001
0:40:34.853913	LOG	PUSH_DATA: Protocol version = 02, Token = 1e74, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1236146106, 'time': '2023-11-27T10:15:53.001479Z', 'tmms': 1385115372001, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3308, 'rssi': -52, 'size': 16, 'data': 'QAAAAACAsAXgRLh1yMbtxw=='}]}
0:40:34.855893	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05b0, FOpts:), FPort: e0, FRMPayload: 098401, MIC: c8c6edc7)
0:40:34.857405	LOG	Server <---------- DUT
0:40:34.858402	LOG	Frame Command Payload in the Answer: 098401
0:40:34.862838	LOG	RX Count received by DUT: 388
0:40:34.864849	LOG	Send Test Command RxAppCntReq process completed
0:40:34.871854	LOG	Send MAC command block process starts
0:40:37.925525	LOG	GPS Time updated: 1385115375178
0:40:37.926489	LOG	PULL_DATA: 02 7870 02 0016c001ff1025bf
0:40:37.928490	LOG	PULL_ACK: 02 7870 04
0:40:41.515778	LOG	First uplink received. Open reception window.
0:40:41.624776	LOG	PUSH_ACK: 02 6e31 01
0:40:41.626777	LOG	GPS Time from gateway: 1385115378768
0:40:41.627778	LOG	PUSH_DATA: Protocol version = 02, Token = 6e31, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1242912755, 'time': '2023-11-27T10:15:59.768128Z', 'tmms': 1385115378768, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAsQUCk7NTfNX7j2EFP7Y='}]}
0:40:41.629820	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05b1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 61053fb6)
0:40:41.630818	LOG	Server <---------- DUT
0:40:41.632816	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02d3, FOpts:), FPort: 00, FRMPayload: 03600f00010520d2ad84), MIC: 4f244c10)
0:40:41.634816	LOG	PULL_RESP: Protocol version = 02, Token = 5070, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1244912755, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAA0wIAOBs5HA2A0EmEPk8kTBA='}}
0:40:41.635816	LOG	Server ----------> DUT
0:40:41.639344	LOG	TX_ACK: 02 5070 05 0016c001ff1025bf

0:40:46.514550	LOG	#**********CURRENT BEACON SENT**********#
0:40:46.515551	LOG	PULL_RESP: Protocol version = 02, Token = 4980, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385115392000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAL49S5tsAAAAAAAAAAAA='}}
0:40:46.517552	LOG	Server ----------> DUT
0:40:46.519593	LOG	#**********#
0:40:46.528584	LOG	#**********NEXT BEACON QUEUED**********#
0:40:46.530620	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385115520000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAL49S3gYAAAAAAAAAAA='}}
0:40:46.531620	LOG	Server ----------> DUT
0:40:46.532620	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 802f8f52, CRC1: de06, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385115520000
0:40:46.533620	LOG	#**********#
0:40:46.535621	LOG	Next BEACON scheduled at GPS time (ms): 1385115648000
0:40:46.536589	LOG	First uplink received. Open reception window.
0:40:46.538587	LOG	TX_ACK: 02 4980 05 0016c001ff1025bf
0:40:46.641916	LOG	PUSH_ACK: 02 d762 01
0:40:46.644915	LOG	GPS Time from gateway: 1385115383770
0:40:46.645914	LOG	PUSH_DATA: Protocol version = 02, Token = d762, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1247915177, 'time': '2023-11-27T10:16:04.770549Z', 'tmms': 1385115383770, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3308, 'rssi': -52, 'size': 24, 'data': 'QAAAAACEsgUDBwUHAifJVMnb2PSxdYSt'}]}
0:40:46.647916	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 05b2, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: b17584ad)
0:40:46.648914	LOG	Server <---------- DUT
0:40:46.649913	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:40:46.651916	LOG	Command Answer: 03070507
0:40:46.708235	LOG	MAC command communication completed
0:40:46.711248	LOG	Send Test Command RxAppCntReq process starts
0:40:47.985849	LOG	GPS Time updated: 1385115385216
0:40:47.986848	LOG	PULL_DATA: 02 6a1d 02 0016c001ff1025bf
0:40:47.987848	LOG	PULL_ACK: 02 6a1d 04
0:40:51.509734	LOG	First uplink received. Open reception window.
0:40:51.612462	LOG	PUSH_ACK: 02 431e 01
0:40:51.614473	LOG	GPS Time from gateway: 1385115388767
0:40:51.615469	LOG	PUSH_DATA: Protocol version = 02, Token = 431e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1252912337, 'time': '2023-11-27T10:16:09.767708Z', 'tmms': 1385115388767, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.8, 'foff': -3293, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCswUFBwIiWJqxSMRw5lxHyA=='}]}
0:40:51.617475	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 05b3, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: e65c47c8)
0:40:51.619468	LOG	Server <---------- DUT
0:40:51.620468	LOG	MAC Command RXParamSetupAns received

0:40:51.622471	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02d4, FOpts:), FPort: e0, FRMPayload: 09), MIC: 5993b0bc)
0:40:51.623478	LOG	Frame command sent to the DUT
0:40:51.625509	LOG	PULL_RESP: Protocol version = 02, Token = 477b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1254912337, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAA1ALgxlmTsLw='}}
0:40:51.626509	LOG	Server ----------> DUT
0:40:51.634476	LOG	TX_ACK: 02 477b 05 0016c001ff1025bf
0:40:54.744756	LOG	First uplink received. Open reception window.
0:40:54.849288	LOG	PUSH_ACK: 02 a28a 01
0:40:54.851253	LOG	GPS Time from gateway: 1385115392000
0:40:54.852254	LOG	PUSH_DATA: Protocol version = 02, Token = a28a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1256145184, 'time': '2023-11-27T10:16:13.000555Z', 'tmms': 1385115392000, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -60, 'lsnr': 7.2, 'foff': -3308, 'rssi': -56, 'size': 16, 'data': 'QAAAAACAtAXgF1Zwb5z4jw=='}]}
0:40:54.854259	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05b4, FOpts:), FPort: e0, FRMPayload: 098501, MIC: 6f9cf88f)
0:40:54.855299	LOG	Server <---------- DUT
0:40:54.856838	LOG	Frame Command Payload in the Answer: 098501
0:40:54.861292	LOG	RX Count received by DUT: 389
0:40:54.863303	LOG	Send Test Command RxAppCntReq process completed
0:40:54.866316	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:40:58.135741	LOG	GPS Time updated: 1385115395390
0:40:58.136741	LOG	PULL_DATA: 02 ee82 02 0016c001ff1025bf
0:40:58.137742	LOG	PULL_ACK: 02 ee82 04
0:41:01.505876	LOG	First uplink received. Open reception window.
0:41:01.614812	LOG	PUSH_ACK: 02 137a 01
0:41:01.616813	LOG	GPS Time from gateway: 1385115398766
0:41:01.617813	LOG	PUSH_DATA: Protocol version = 02, Token = 137a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1262911726, 'time': '2023-11-27T10:16:19.767094Z', 'tmms': 1385115398766, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAtQUCW/KfyqpPsO2OlPE='}]}
0:41:01.619783	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05b5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ed8e94f1)
0:41:01.621782	LOG	Server <---------- DUT
0:41:01.623294	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02d5, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 63eb04d0)
0:41:01.624299	LOG	Frame command sent to the DUT
0:41:01.626299	LOG	PULL_RESP: Protocol version = 02, Token = 05e8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1264911726, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA1QLgzchj6wTQ'}}
0:41:01.627299	LOG	Server ----------> DUT
0:41:01.630319	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:41:01.636300	LOG	Send Test Command TxFramesCtrlReq process starts
0:41:06.514909	LOG	First uplink received. Open reception window.
0:41:06.626115	LOG	PUSH_ACK: 02 ed58 01
0:41:06.627623	LOG	GPS Time from gateway: 1385115403766
0:41:06.629624	LOG	PUSH_DATA: Protocol version = 02, Token = ed58, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1267911462, 'time': '2023-11-27T10:16:24.766831Z', 'tmms': 1385115403766, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3293, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAtgUCsLsnodPp3EHUBiA='}]}

0:41:06.630624	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05b6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 41d40620)
0:41:06.632635	LOG	Server <---------- DUT
0:41:06.634636	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02d6, FOpts:), FPort: e0, FRMPayload: 0700), MIC: ad12425b)
0:41:06.635667	LOG	Frame command sent to the DUT
0:41:06.636667	LOG	PULL_RESP: Protocol version = 02, Token = 8248, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1268911462, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA1gLgRtCtEkJb'}}
0:41:06.638204	LOG	Server ----------> DUT
0:41:06.641211	LOG	Send Test Command TxFramesCtrlReq process completed
0:41:06.644208	LOG	Send Test Command TxFramesCtrlReq process starts
0:41:08.314974	LOG	GPS Time updated: 1385115405566
0:41:08.316978	LOG	PULL_DATA: 02 1573 02 0016c001ff1025bf
0:41:08.317977	LOG	PULL_ACK: 02 1573 04
0:41:11.508942	LOG	First uplink received. Open reception window.
0:41:11.610033	LOG	PUSH_ACK: 02 f7da 01
0:41:11.611998	LOG	GPS Time from gateway: 1385115408766
0:41:11.613997	LOG	PUSH_DATA: Protocol version = 02, Token = f7da, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1272911195, 'time': '2023-11-27T10:16:29.766563Z', 'tmms': 1385115408766, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3293, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAtwUC9ANlzHLdXjIn0ys='}]}
0:41:11.614997	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05b7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3227d32b)
0:41:11.616995	LOG	Server <---------- DUT
0:41:11.618036	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02d7, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 4c175bc7)
0:41:11.620033	LOG	Frame command sent to the DUT
0:41:11.621033	LOG	PULL_RESP: Protocol version = 02, Token = b1d8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1273911195, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA1wLgWz9MF1vH'}}
0:41:11.623034	LOG	Server ----------> DUT
0:41:11.626000	LOG	Send Test Command TxFramesCtrlReq process completed
0:41:11.629002	LOG	Send Test Command TxFramesCtrlReq process starts
0:41:16.511707	LOG	First uplink received. Open reception window.
0:41:16.613091	LOG	PUSH_ACK: 02 00c0 01
0:41:16.615059	LOG	GPS Time from gateway: 1385115413766
0:41:16.616058	LOG	PUSH_DATA: Protocol version = 02, Token = 00c0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1277910936, 'time': '2023-11-27T10:16:34.766303Z', 'tmms': 1385115413766, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3293, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAuAUC1z/airwdRsgq/GM='}]}
0:41:16.618061	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05b8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c82afc63)
0:41:16.620076	LOG	Server <---------- DUT
0:41:16.622115	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02d8, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 51b4eb72)
0:41:16.623113	LOG	Frame command sent to the DUT
0:41:16.624112	LOG	PULL_RESP: Protocol version = 02, Token = 6d50, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1278910936, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA2ALg9dNRtOty'}}
0:41:16.626087	LOG	Server ----------> DUT

0:41:16.628112	LOG	Send Test Command TxFramesCtrlReq process completed
0:41:16.632078	LOG	Send Test Command TxFramesCtrlReq process starts
0:41:18.515043	LOG	GPS Time updated: 1385115415770
0:41:18.517043	LOG	PULL_DATA: 02 2654 02 0016c001ff1025bf
0:41:18.518043	LOG	PULL_ACK: 02 2654 04
0:41:21.505273	LOG	First uplink received. Open reception window.
0:41:21.608204	LOG	PUSH_ACK: 02 c8b0 01
0:41:21.610168	LOG	GPS Time from gateway: 1385115418765
0:41:21.611167	LOG	PUSH_DATA: Protocol version = 02, Token = c8b0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1282910678, 'time': '2023-11-27T10:16:39.766044Z', 'tmms': 1385115418765, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3293, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAuQUCaxRz5ln5DzTq8X4='}]}
0:41:21.613181	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05b9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 34eaf17e)
0:41:21.614168	LOG	Server <-------------------- DUT
0:41:21.616168	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02d9, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 960561c3)
0:41:21.617168	LOG	Frame command sent to the DUT
0:41:21.619168	LOG	PULL_RESP: Protocol version = 02, Token = 6845, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1283910678, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA2QLgYJ6WBWHD'}}
0:41:21.620168	LOG	Server --------------------> DUT
0:41:21.623175	LOG	Send Test Command TxFramesCtrlReq process completed
0:41:21.633172	LOG	Send Test Command TxFramesCtrlReq process starts
0:41:26.507689	LOG	First uplink received. Open reception window.
0:41:26.622927	LOG	PUSH_ACK: 02 b536 01
0:41:26.624932	LOG	GPS Time from gateway: 1385115423765
0:41:26.625932	LOG	PUSH_DATA: Protocol version = 02, Token = b536, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1287910429, 'time': '2023-11-27T10:16:44.765794Z', 'tmms': 1385115423765, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3293, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAugUCfmAgtUTA1iYtk8o='}]}
0:41:26.627941	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05ba, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 262d93ca)
0:41:26.629946	LOG	Server <-------------------- DUT
0:41:26.631978	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02da, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 2023b204)
0:41:26.632980	LOG	Frame command sent to the DUT
0:41:26.634948	LOG	PULL_RESP: Protocol version = 02, Token = a185, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1288910429, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'oAAAAAAA2gLgk3E8TA5XjMnrrTgh2lqfHOrC/qybLoxCuqkR/7bxjm5qNwWlM3YwmYFDfjsnEn93UFDZOPy6fMsGi3z56wAK1EjGb8gAWQdZ4vPqn+jnv+wQJKitjGCNK49aXq/pibSDDFPMYHpvl+nfcZe58oLplBTPLjhC93TN0BOgCVoa94B/e27tL6W3c1KPMhOjbmHulakQwZ6k7erd5ypEg4wQ6Wgdve+qLaVu0sic7q17

		5ZYzESGQQW3B6Lu2Lx7iQed6tVsUskMsYv/ZKflODdvQcQN1KzBkgsSDOiQv8EPfSoMgFHBeaYAipnJYm7/0biPCZ5sgI7IE'}}
0:41:26.635978	LOG	Server ----------> DUT
0:41:26.638482	LOG	Send Test Command TxFramesCtrlReq process completed
0:41:26.641485	LOG	Check previous uplink data rate process starts
0:41:26.646119	LOG	Uplink received with expected Data Rate
0:41:26.649119	LOG	Check ACK bit in next uplink process starts
0:41:28.266419	LOG	First uplink received. Open reception window.
0:41:28.373110	LOG	PUSH_ACK: 02 e28d 01
0:41:28.374661	LOG	GPS Time from gateway: 1385115425520
0:41:28.375663	LOG	PUSH_DATA: Protocol version = 02, Token = e28d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1289665299, 'time': '2023-11-27T10:16:46.520664Z', 'tmms': 1385115425520, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3308, 'rssi': -52, 'size': 12, 'data': 'QAAAAACguwUsmXal'}]}
0:41:28.377663	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 05bb, FOpts:), FPort: , FRMPayload: , MIC: 2c9976a5)
0:41:28.378668	LOG	Server <---------- DUT
0:41:28.380669	LOG	ACK bit in FCtrl field is set
0:41:28.382668	LOG	Check ACK bit in next uplink tested successfully
0:41:28.388202	LOG	Send Test Command RxAppCntReq process starts
0:41:28.525453	LOG	GPS Time updated: 1385115425779
0:41:28.526455	LOG	PULL_DATA: 02 984c 02 0016c001ff1025bf
0:41:28.528453	LOG	PULL_ACK: 02 984c 04
0:41:31.503931	LOG	First uplink received. Open reception window.
0:41:31.611537	LOG	PUSH_ACK: 02 aa3e 01
0:41:31.613539	LOG	GPS Time from gateway: 1385115428765
0:41:31.614539	LOG	PUSH_DATA: Protocol version = 02, Token = aa3e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1292910163, 'time': '2023-11-27T10:16:49.765527Z', 'tmms': 1385115428765, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 15.0, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAvAUC8T4fF/pg/lZJt4g='}]}
0:41:31.615540	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05bc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5649b788)
0:41:31.617538	LOG	Server <---------- DUT
0:41:31.618573	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02db, FOpts:), FPort: e0, FRMPayload: 09), MIC: a2adc6fb)
0:41:31.620571	LOG	Frame command sent to the DUT
0:41:31.621574	LOG	PULL_RESP: Protocol version = 02, Token = a0c9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1294910163, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAA2wLgqqKtxvs='}}
0:41:31.623547	LOG	Server ----------> DUT
0:41:31.625546	LOG	TX_ACK: 02 a0c9 05 0016c001ff1025bf
0:41:34.742945	LOG	First uplink received. Open reception window.
0:41:34.845612	LOG	PUSH_ACK: 02 97ed 01
0:41:34.847579	LOG	GPS Time from gateway: 1385115431997
0:41:34.848579	LOG	PUSH_DATA: Protocol version = 02, Token = 97ed, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1296142744, 'time': '2023-11-27T10:16:52.998108Z', 'tmms': 1385115431997, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3308, 'rssi': -52, 'size': 16, 'data': 'QAAAAACAvQXgCkSiWPkpXw=='}]}
0:41:34.850579	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05bd, FOpts:), FPort: e0, FRMPayload: 098c01, MIC: 58f9295f)
0:41:34.852151	LOG	Server <---------- DUT
0:41:34.853189	LOG	Frame Command Payload in the Answer: 098c01

0:41:34.857775	LOG	RX Count received by DUT: 396
0:41:34.859785	LOG	Send Test Command RxAppCntReq process completed
0:41:34.866822	LOG	Send MAC command block process starts
0:41:38.555582	LOG	GPS Time updated: 1385115435809
0:41:38.557088	LOG	PULL_DATA: 02 5d39 02 0016c001ff1025bf
0:41:38.558097	LOG	PULL_ACK: 02 5d39 04
0:41:41.505213	LOG	First uplink received. Open reception window.
0:41:41.613498	LOG	PUSH_ACK: 02 774b 01
0:41:41.615498	LOG	GPS Time from gateway: 1385115438764
0:41:41.616499	LOG	PUSH_DATA: Protocol version = 02, Token = 774b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1302909646, 'time': '2023-11-27T10:16:59.765009Z', 'tmms': 1385115438764, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAvgUCyGtQcgn/OcaS6wM='}]}
0:41:41.618502	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05be, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c692eb03)
0:41:41.619500	LOG	Server <---------- DUT
0:41:41.621502	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02dc, FOpts:), FPort: 00, FRMPayload: 03600f00010530d2ad84), MIC: 0351e12e)
0:41:41.623538	LOG	PULL_RESP: Protocol version = 02, Token = 2c6e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1304909646, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAA3AIAoJZlT8rDSqZS9ANR4S4='}}
0:41:41.624571	LOG	Server ----------> DUT
0:41:41.627164	LOG	TX_ACK: 02 2c6e 05 0016c001ff1025bf
0:41:46.509858	LOG	First uplink received. Open reception window.
0:41:46.615589	LOG	PUSH_ACK: 02 bc8a 01
0:41:46.617556	LOG	GPS Time from gateway: 1385115443767
0:41:46.619560	LOG	PUSH_DATA: Protocol version = 02, Token = bc8a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1307912074, 'time': '2023-11-27T10:17:04.767436Z', 'tmms': 1385115443767, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3308, 'rssi': -52, 'size': 24, 'data': 'QAAAAACEvwUDBwUHAkykB2YSUFIq1ERX'}]}
0:41:46.621559	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 05bf, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 2ad44457)
0:41:46.622557	LOG	Server <---------- DUT
0:41:46.624562	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:41:46.625562	LOG	Command Answer: 03070507
0:41:46.680298	LOG	MAC command communication completed
0:41:46.683297	LOG	Send Test Command RxAppCntReq process starts
0:41:48.765331	LOG	GPS Time updated: 1385115446024
0:41:48.766330	LOG	PULL_DATA: 02 c5a9 02 0016c001ff1025bf
0:41:48.768844	LOG	PULL_ACK: 02 c5a9 04
0:41:51.504811	LOG	First uplink received. Open reception window.
0:41:51.613088	LOG	PUSH_ACK: 02 1dd9 01
0:41:51.615057	LOG	GPS Time from gateway: 1385115448764
0:41:51.616058	LOG	PUSH_DATA: Protocol version = 02, Token = 1dd9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1312909232, 'time': '2023-11-27T10:17:09.764593Z', 'tmms': 1385115448764, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.8, 'foff': -3293, 'rssi': -52, 'size': 22, 'data': 'QAAAAACCwAUFBwIi3Zc0XnuKcrsHdQ=='}]}
0:41:51.617057	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 05c0, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 72bb0775)

0:41:51.619057	LOG	Server <---------- DUT
0:41:51.620058	LOG	MAC Command RXParamSetupAns received
0:41:51.622057	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02dd, FOpts:), FPort: e0, FRMPayload: 09), MIC: ea9d8aec)
0:41:51.623056	LOG	Frame command sent to the DUT
0:41:51.625060	LOG	PULL_RESP: Protocol version = 02, Token = 18d7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1314909232, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAA3QLgHeqdiuw='}}
0:41:51.626061	LOG	Server ----------> DUT
0:41:51.628061	LOG	TX_ACK: 02 18d7 05 0016c001ff1025bf
0:41:54.742040	LOG	First uplink received. Open reception window.
0:41:54.848473	LOG	PUSH_ACK: 02 b41d 01
0:41:54.850507	LOG	GPS Time from gateway: 1385115451997
0:41:54.851512	LOG	PUSH_DATA: Protocol version = 02, Token = b41d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1316141919, 'time': '2023-11-27T10:17:12.997278Z', 'tmms': 1385115451997, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3324, 'rssi': -52, 'size': 16, 'data': 'QAAAAACAwQXg6GZVHzNn9g=='}]}
0:41:54.852519	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05c1, FOpts:), FPort: e0, FRMPayload: 098d01, MIC: 1f3367f6)
0:41:54.854508	LOG	Server <---------- DUT
0:41:54.855507	LOG	Frame Command Payload in the Answer: 098d01
0:41:54.860081	LOG	RX Count received by DUT: 397
0:41:54.862093	LOG	Send Test Command RxAppCntReq process completed
0:41:54.865056	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:41:58.975224	LOG	GPS Time updated: 1385115456230
0:41:58.976190	LOG	PULL_DATA: 02 99db 02 0016c001ff1025bf
0:41:58.977694	LOG	PULL_ACK: 02 99db 04
0:42:01.504036	LOG	First uplink received. Open reception window.
0:42:01.610935	LOG	PUSH_ACK: 02 71d1 01
0:42:01.612900	LOG	GPS Time from gateway: 1385115458763
0:42:01.613900	LOG	PUSH_DATA: Protocol version = 02, Token = 71d1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1322908612, 'time': '2023-11-27T10:17:19.763971Z', 'tmms': 1385115458763, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3293, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAwgUC/uThTtaR03FbaaY='}]}
0:42:01.614899	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05c2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 715b69a6)
0:42:01.616899	LOG	Server <---------- DUT
0:42:01.618900	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02de, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 25c42156)
0:42:01.619899	LOG	Frame command sent to the DUT
0:42:01.620899	LOG	PULL_RESP: Protocol version = 02, Token = 0cbe, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1324908612, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA3gLgezolxCFW'}}
0:42:01.622900	LOG	Server ----------> DUT
0:42:01.624904	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:42:01.630904	LOG	Send Test Command TxFramesCtrlReq process starts
0:42:06.506940	LOG	First uplink received. Open reception window.
0:42:06.617583	LOG	PUSH_ACK: 02 203a 01
0:42:06.619549	LOG	GPS Time from gateway: 1385115463763
0:42:06.620549	LOG	PUSH_DATA: Protocol version = 02, Token = 203a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1327908350, 'time': '2023-11-27T10:17:24.763707Z', 'tmms': 1385115463763, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3308, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAwwUCNXSSoBIImT/D5ew='}]}
0:42:06.622551	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05c3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3fc3e5ec)
0:42:06.624557	LOG	Server <---------- DUT
0:42:06.625556	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02df, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 73412a7a)
0:42:06.627555	LOG	Frame command sent to the DUT
0:42:06.628589	LOG	PULL_RESP: Protocol version = 02, Token = a19e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1328908350, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA3wLgMq1zQSp6'}}
0:42:06.630593	LOG	Server ----------> DUT
0:42:06.632576	LOG	Send Test Command TxFramesCtrlReq process completed
0:42:06.636593	LOG	Send Test Command TxFramesCtrlReq process starts
0:42:09.145124	LOG	GPS Time updated: 1385115466403
0:42:09.146124	LOG	PULL_DATA: 02 82d5 02 0016c001ff1025bf
0:42:09.148093	LOG	PULL_ACK: 02 82d5 04
0:42:11.509710	LOG	First uplink received. Open reception window.
0:42:11.610913	LOG	PUSH_ACK: 02 6209 01
0:42:11.612881	LOG	GPS Time from gateway: 1385115468763
0:42:11.614883	LOG	PUSH_DATA: Protocol version = 02, Token = 6209, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1332908089, 'time': '2023-11-27T10:17:29.763447Z', 'tmms': 1385115468763, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAxAUCd5Y5yRxEA9zYRNA='}]}
0:42:11.615883	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05c4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: dcd844d0)
0:42:11.617921	LOG	Server <---------- DUT
0:42:11.619883	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02e0, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 16f01c27)
0:42:11.620913	LOG	Frame command sent to the DUT
0:42:11.621914	LOG	PULL_RESP: Protocol version = 02, Token = 9673, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1333908089, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA4ALg/NEW8Bwn'}}
0:42:11.623952	LOG	Server ----------> DUT
0:42:11.626970	LOG	Send Test Command TxFramesCtrlReq process completed
0:42:11.629918	LOG	Send Test Command TxFramesCtrlReq process starts
0:42:16.505583	LOG	First uplink received. Open reception window.
0:42:16.621888	LOG	PUSH_ACK: 02 b00c 01
0:42:16.623897	LOG	GPS Time from gateway: 1385115473763
0:42:16.624897	LOG	PUSH_DATA: Protocol version = 02, Token = b00c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1337907836, 'time': '2023-11-27T10:17:34.763193Z', 'tmms': 1385115473763, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3308, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAxQUCR/H81toQET110kQ='}]}
0:42:16.626912	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05c5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3d75d244)
0:42:16.628871	LOG	Server <---------- DUT
0:42:16.630871	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02e1, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 8ee9d568)
0:42:16.631870	LOG	Frame command sent to the DUT
0:42:16.633870	LOG	PULL_RESP: Protocol version = 02, Token = 67b8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1338907836, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA4QLgO3SO6dVo'}}
0:42:16.634870	LOG	Server --------------------> DUT
0:42:16.636871	LOG	Send Test Command TxFramesCtrlReq process completed
0:42:16.641383	LOG	Send Test Command TxFramesCtrlReq process starts
0:42:19.154468	LOG	GPS Time updated: 1385115476412
0:42:19.156471	LOG	PULL_DATA: 02 4748 02 0016c001ff1025bf
0:42:19.158473	LOG	PULL_ACK: 02 4748 04
0:42:21.504498	LOG	First uplink received. Open reception window.
0:42:21.606962	LOG	PUSH_ACK: 02 8170 01
0:42:21.608968	LOG	GPS Time from gateway: 1385115478762
0:42:21.609967	LOG	PUSH_DATA: Protocol version = 02, Token = 8170, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1342907578, 'time': '2023-11-27T10:17:39.762934Z', 'tmms': 1385115478762, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3308, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAxgUCE46ssK46AUGJy4k='}]}
0:42:21.610968	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05c6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4189cb89)
0:42:21.612968	LOG	Server <-------------------- DUT
0:42:21.614968	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02e2, FOpts:), FPort: e0, FRMPayload: 0700), MIC: abc6587e)
0:42:21.615966	LOG	Frame command sent to the DUT
0:42:21.617967	LOG	PULL_RESP: Protocol version = 02, Token = 3f09, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1343907578, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA4gLgGTCrxlh+'}}
0:42:21.618967	LOG	Server --------------------> DUT
0:42:21.621968	LOG	Send Test Command TxFramesCtrlReq process completed
0:42:21.631115	LOG	Send Test Command TxFramesCtrlReq process starts
0:42:26.501314	LOG	First uplink received. Open reception window.
0:42:26.607368	LOG	PUSH_ACK: 02 f03d 01
0:42:26.608755	LOG	GPS Time from gateway: 1385115483762
0:42:26.610756	LOG	PUSH_DATA: Protocol version = 02, Token = f03d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1347907321, 'time': '2023-11-27T10:17:44.762676Z', 'tmms': 1385115483762, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3308, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAxwUC13CSpdSW8QfUS3g='}]}
0:42:26.611757	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05c7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 07d44b78)
0:42:26.613788	LOG	Server <-------------------- DUT
0:42:26.615792	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02e3, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 3d118068)
0:42:26.616787	LOG	Frame command sent to the DUT
0:42:26.618756	LOG	PULL_RESP: Protocol version = 02, Token = 07bb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1348907321, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'oAAAAAAA4wLgRIZtfxFliQ8J+foGXtNvg/KBCacA7J+T2OxxJDKAnkwPn+T/lgGJyBPctC+zy6z5LKCiOhMfJioNREzT1XlUK0P4nBbR8J+pf4XSKDdqKmsdz7wuMSXCLvwqDL7665Ymt8yyyMv2OfZeDN/GqSf5lnKczT0RgGg='}}
0:42:26.619791	LOG	Server --------------------> DUT
0:42:26.622757	LOG	Send Test Command TxFramesCtrlReq process completed

0:42:26.624761	LOG	Check previous uplink data rate process starts
0:42:26.629760	LOG	Uplink received with expected Data Rate
0:42:26.631762	LOG	Check ACK bit in next uplink process starts
0:42:28.238280	LOG	First uplink received. Open reception window.
0:42:28.343817	LOG	PUSH_ACK: 02 fab5 01
0:42:28.345785	LOG	GPS Time from gateway: 1385115485490
0:42:28.346786	LOG	PUSH_DATA: Protocol version = 02, Token = fab5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1349635211, 'time': '2023-11-27T10:17:46.490566Z', 'tmms': 1385115485490, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3308, 'rssi': -52, 'size': 12, 'data': 'QAAAAACgyAU9Rcgr'}]}
0:42:28.348791	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 05c8, FOpts:), FPort: , FRMPayload: , MIC: 3d45c82b)
0:42:28.349798	LOG	Server <---------- DUT
0:42:28.351799	LOG	ACK bit in FCtrl field is set
0:42:28.353828	LOG	Check ACK bit in next uplink tested successfully
0:42:28.359338	LOG	Send Test Command RxAppCntReq process starts
0:42:29.345039	LOG	GPS Time updated: 1385115486597
0:42:29.346038	LOG	PULL_DATA: 02 e7dc 02 0016c001ff1025bf
0:42:29.348039	LOG	PULL_ACK: 02 e7dc 04
0:42:31.502210	LOG	First uplink received. Open reception window.
0:42:31.604140	LOG	PUSH_ACK: 02 9004 01
0:42:31.606101	LOG	GPS Time from gateway: 1385115488762
0:42:31.607102	LOG	PUSH_DATA: Protocol version = 02, Token = 9004, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1352907056, 'time': '2023-11-27T10:17:49.762410Z', 'tmms': 1385115488762, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3308, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAyQUCgVfC+BrPsFBYJPg='}]}
0:42:31.608205	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05c9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 505824f8)
0:42:31.610204	LOG	Server <---------- DUT
0:42:31.611709	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02e4, FOpts:), FPort: e0, FRMPayload: 09), MIC: bedacfca)
0:42:31.612746	LOG	Frame command sent to the DUT
0:42:31.614716	LOG	PULL_RESP: Protocol version = 02, Token = 807b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1354907056, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAA5ALgKb7az8o='}}
0:42:31.615747	LOG	Server ----------> DUT
0:42:31.618861	LOG	TX_ACK: 02 807b 05 0016c001ff1025bf
0:42:34.742012	LOG	First uplink received. Open reception window.
0:42:34.845116	LOG	PUSH_ACK: 02 b544 01
0:42:34.847118	LOG	GPS Time from gateway: 1385115491994
0:42:34.848118	LOG	PUSH_DATA: Protocol version = 02, Token = b544, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1356139519, 'time': '2023-11-27T10:17:52.994873Z', 'tmms': 1385115491994, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.8, 'foff': -3324, 'rssi': -52, 'size': 16, 'data': 'QAAAAACAygXgQFxY3zh08A=='}]}
0:42:34.850119	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05ca, FOpts:), FPort: e0, FRMPayload: 099401, MIC: df3874f0)
0:42:34.851123	LOG	Server <---------- DUT
0:42:34.853157	LOG	Frame Command Payload in the Answer: 099401
0:42:34.857125	LOG	RX Count received by DUT: 404
0:42:34.859196	LOG	Send Test Command RxAppCntReq process completed
0:42:34.866228	LOG	Send MAC command block process starts
0:42:39.385040	LOG	GPS Time updated: 1385115496637

0:42:39.386039	LOG	PULL_DATA: 02 214e 02 0016c001ff1025bf
0:42:39.387039	LOG	PULL_ACK: 02 214e 04
0:42:41.506118	LOG	First uplink received. Open reception window.
0:42:41.620943	LOG	PUSH_ACK: 02 1f92 01
0:42:41.622948	LOG	GPS Time from gateway: 1385115498761
0:42:41.623953	LOG	PUSH_DATA: Protocol version = 02, Token = 1f92, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1362906533, 'time': '2023-11-27T10:17:59.761884Z', 'tmms': 1385115498761, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3308, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAywUCvIdDPtkCIx0seBY='}]}
0:42:41.625998	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05cb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1d2c7816)
0:42:41.627958	LOG	Server <---------- DUT
0:42:41.629958	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02e5, FOpts:), FPort: 00, FRMPayload: 03600f00010540d2ad84), MIC: 7be40119)
0:42:41.631958	LOG	PULL_RESP: Protocol version = 02, Token = 7b59, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1364906533, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAA5QIAxtXAQYiqnLqe3HvkARk='}}
0:42:41.632957	LOG	Server ----------> DUT
0:42:41.635957	LOG	TX_ACK: 02 7b59 05 0016c001ff1025bf
0:42:46.506278	LOG	First uplink received. Open reception window.
0:42:46.608697	LOG	PUSH_ACK: 02 203f 01
0:42:46.610666	LOG	GPS Time from gateway: 1385115503764
0:42:46.611671	LOG	PUSH_DATA: Protocol version = 02, Token = 203f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1367908962, 'time': '2023-11-27T10:18:04.764314Z', 'tmms': 1385115503764, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3308, 'rssi': -52, 'size': 24, 'data': 'QAAAAACEzAUDBwUHAphn9xPBA1LwsBJV'}]}
0:42:46.613670	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 05cc, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: f0b01255)
0:42:46.614669	LOG	Server <---------- DUT
0:42:46.616721	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:42:46.617704	LOG	Command Answer: 03070507
0:42:46.675555	LOG	MAC command communication completed
0:42:46.678791	LOG	Send Test Command RxAppCntReq process starts
0:42:49.404699	LOG	GPS Time updated: 1385115506662
0:42:49.405666	LOG	PULL_DATA: 02 cca2 02 0016c001ff1025bf
0:42:49.407666	LOG	PULL_ACK: 02 cca2 04
0:42:51.508417	LOG	First uplink received. Open reception window.
0:42:51.621660	LOG	PUSH_ACK: 02 0677 01
0:42:51.623663	LOG	GPS Time from gateway: 1385115508761
0:42:51.624660	LOG	PUSH_DATA: Protocol version = 02, Token = 0677, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1372906128, 'time': '2023-11-27T10:18:09.761479Z', 'tmms': 1385115508761, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3308, 'rssi': -52, 'size': 22, 'data': 'QAAAAACCzQUFBwIAsYskhNhCjsmowA=='}]}
0:42:51.626631	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 05cd, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 8ec9a8c0)
0:42:51.628627	LOG	Server <---------- DUT
0:42:51.629628	LOG	MAC Command RXParamSetupAns received
0:42:51.630627	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02e6, FOpts:), FPort: e0, FRMPayload: 09), MIC: 2b776d7e)

0:42:51.632164	LOG	Frame command sent to the DUT
0:42:51.634202	LOG	PULL_RESP: Protocol version = 02, Token = 4bcf, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1374906128, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAA5gLgmyt3bX4='}}
0:42:51.635203	LOG	Server ----------> DUT
0:42:51.643747	LOG	TX_ACK: 02 4bcf 05 0016c001ff1025bf
0:42:54.739835	LOG	#**********CURRENT BEACON SENT**********#
0:42:54.741828	LOG	PULL_RESP: Protocol version = 02, Token = 4164, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385115520000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAL49S3gYAAAAAAAAAAA='}}
0:42:54.742862	LOG	Server ----------> DUT
0:42:54.744859	LOG	#**********#
0:42:54.753897	LOG	#**********NEXT BEACON QUEUED**********#
0:42:54.754898	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385115648000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAMI9StLQAAAAAAAAAAA='}}
0:42:54.756866	LOG	Server ----------> DUT
0:42:54.757908	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 00308f52, CRC1: b4b4, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385115648000
0:42:54.758897	LOG	#**********#
0:42:54.759898	LOG	Next BEACON scheduled at GPS time (ms): 1385115776000
0:42:54.760897	LOG	First uplink received. Open reception window.
0:42:54.761901	LOG	TX_ACK: 02 4164 05 0016c001ff1025bf
0:42:54.870205	LOG	PUSH_ACK: 02 46b6 01
0:42:54.872223	LOG	GPS Time from gateway: 1385115511994
0:42:54.873221	LOG	PUSH_DATA: Protocol version = 02, Token = 46b6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1376138878, 'time': '2023-11-27T10:18:12.994228Z', 'tmms': 1385115511994, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3324, 'rssi': -52, 'size': 16, 'data': 'QAAAAACAzgXgIHFzjORl7w=='}]}
0:42:54.875225	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05ce, FOpts:), FPort: e0, FRMPayload: 099501, MIC: 8ce465ef)
0:42:54.876226	LOG	Server <---------- DUT
0:42:54.877226	LOG	Frame Command Payload in the Answer: 099501
0:42:54.881259	LOG	RX Count received by DUT: 405
0:42:54.884228	LOG	Send Test Command RxAppCntReq process completed
0:42:54.886226	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:42:59.574512	LOG	GPS Time updated: 1385115516807
0:42:59.576017	LOG	PULL_DATA: 02 848d 02 0016c001ff1025bf
0:42:59.578023	LOG	PULL_ACK: 02 848d 04
0:43:01.507447	LOG	First uplink received. Open reception window.
0:43:01.615088	LOG	PUSH_ACK: 02 fe7d 01
0:43:01.617056	LOG	GPS Time from gateway: 1385115518760
0:43:01.618060	LOG	PUSH_DATA: Protocol version = 02, Token = fe7d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1382905500, 'time': '2023-11-27T10:18:19.760849Z', 'tmms': 1385115518760, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3308, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAzwUC2EhF3lEc7PKew/E='}]}
0:43:01.619058	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05cf, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f29ec3f1)
0:43:01.621055	LOG	Server <---------- DUT
0:43:01.622055	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02e7, FOpts:), FPort: e0, FRMPayload: 0500), MIC: f8414ded)
0:43:01.624060	LOG	Frame command sent to the DUT
0:43:01.625062	LOG	PULL_RESP: Protocol version = 02, Token = 2d84, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1384905500, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA5wLgRfb4QU3t'}}
0:43:01.626059	LOG	Server ----------> DUT
0:43:01.629074	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:43:01.635096	LOG	Send Test Command TxFramesCtrlReq process starts
0:43:06.504405	LOG	First uplink received. Open reception window.
0:43:06.605720	LOG	PUSH_ACK: 02 3280 01
0:43:06.607224	LOG	GPS Time from gateway: 1385115523760
0:43:06.609239	LOG	PUSH_DATA: Protocol version = 02, Token = 3280, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1387905240, 'time': '2023-11-27T10:18:24.760588Z', 'tmms': 1385115523760, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3308, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA0AUCNuA5CfEWTQb4wQ8='}]}
0:43:06.611230	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05d0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 06f8c10f)
0:43:06.612263	LOG	Server <---------- DUT
0:43:06.614232	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02e8, FOpts:), FPort: e0, FRMPayload: 0700), MIC: d4131092)
0:43:06.616263	LOG	Frame command sent to the DUT
0:43:06.617267	LOG	PULL_RESP: Protocol version = 02, Token = 0ff0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1388905240, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA6ALg4gzUExCS'}}
0:43:06.618266	LOG	Server ----------> DUT
0:43:06.621230	LOG	Send Test Command TxFramesCtrlReq process completed
0:43:06.624303	LOG	Send Test Command TxFramesCtrlReq process starts
0:43:09.764264	LOG	GPS Time updated: 1385115527020
0:43:09.766298	LOG	PULL_DATA: 02 ee22 02 0016c001ff1025bf
0:43:09.767271	LOG	PULL_ACK: 02 ee22 04
0:43:11.507391	LOG	First uplink received. Open reception window.
0:43:11.611208	LOG	PUSH_ACK: 02 bde8 01
0:43:11.613177	LOG	GPS Time from gateway: 1385115528760
0:43:11.614176	LOG	PUSH_DATA: Protocol version = 02, Token = bde8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1392904981, 'time': '2023-11-27T10:18:29.760327Z', 'tmms': 1385115528760, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3308, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA0QUCidLClSOiJ5IKNWI='}]}
0:43:11.616182	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05d1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 920a3562)
0:43:11.617176	LOG	Server <---------- DUT
0:43:11.619176	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02e9, FOpts:), FPort: e0, FRMPayload: 0700), MIC: b65bc0e1)
0:43:11.620176	LOG	Frame command sent to the DUT
0:43:11.622176	LOG	PULL_RESP: Protocol version = 02, Token = c66b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1393904981, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA6QLgXHK2W8Dh'}}
0:43:11.623176	LOG	Server ----------> DUT
0:43:11.626182	LOG	Send Test Command TxFramesCtrlReq process completed
0:43:11.630182	LOG	Send Test Command TxFramesCtrlReq process starts
0:43:16.506549	LOG	First uplink received. Open reception window.
0:43:16.619751	LOG	PUSH_ACK: 02 d7a4 01
0:43:16.621719	LOG	GPS Time from gateway: 1385115533759
0:43:16.622722	LOG	PUSH_DATA: Protocol version = 02, Token = d7a4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1397904738, 'time': '2023-11-27T10:18:34.760085Z', 'tmms': 1385115533759, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3308, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA0gUCE6xBMYpeo7KEce8='}]}
0:43:16.624736	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05d2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b28471ef)
0:43:16.626742	LOG	Server <---------- DUT
0:43:16.628743	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02ea, FOpts:), FPort: e0, FRMPayload: 0700), MIC: a69b3a7e)
0:43:16.629742	LOG	Frame command sent to the DUT
0:43:16.631742	LOG	PULL_RESP: Protocol version = 02, Token = 673d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1398904738, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA6gLgrUKmmzp+'}}
0:43:16.632742	LOG	Server ----------> DUT
0:43:16.635742	LOG	Send Test Command TxFramesCtrlReq process completed
0:43:16.638741	LOG	Send Test Command TxFramesCtrlReq process starts
0:43:19.784369	LOG	GPS Time updated: 1385115537037
0:43:19.786345	LOG	PULL_DATA: 02 c567 02 0016c001ff1025bf
0:43:19.787337	LOG	PULL_ACK: 02 c567 04
0:43:21.506196	LOG	First uplink received. Open reception window.
0:43:21.607298	LOG	PUSH_ACK: 02 acc9 01
0:43:21.608806	LOG	GPS Time from gateway: 1385115538759
0:43:21.610807	LOG	PUSH_DATA: Protocol version = 02, Token = acc9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1402904474, 'time': '2023-11-27T10:18:39.759820Z', 'tmms': 1385115538759, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.8, 'foff': -3308, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA0wUCxv6ZbZmsQw5e+ww='}]}
0:43:21.611806	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05d3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0e5efb0c)
0:43:21.613807	LOG	Server <---------- DUT
0:43:21.615806	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02eb, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 8602f219)
0:43:21.616806	LOG	Frame command sent to the DUT
0:43:21.617806	LOG	PULL_RESP: Protocol version = 02, Token = 65bf, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1403904474, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA6wLgSS6GAvIZ'}}
0:43:21.619806	LOG	Server ----------> DUT
0:43:21.621806	LOG	Send Test Command TxFramesCtrlReq process completed
0:43:21.631826	LOG	Send Test Command TxFramesCtrlReq process starts
0:43:26.505897	LOG	First uplink received. Open reception window.
0:43:26.620006	LOG	PUSH_ACK: 02 c9cb 01
0:43:26.621973	LOG	GPS Time from gateway: 1385115543759
0:43:26.622973	LOG	PUSH_DATA: Protocol version = 02, Token = c9cb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1407904207, 'time': '2023-11-27T10:18:44.759552Z', 'tmms': 1385115543759, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3308, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA1AUCAY8ywMygL06QD/k='}]}
0:43:26.624986	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05d4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4e900ff9)
0:43:26.627026	LOG	Server <---------- DUT
0:43:26.628993	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02ec, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 52467f85)
0:43:26.630024	LOG	Frame command sent to the DUT
0:43:26.632023	LOG	PULL_RESP: Protocol version = 02, Token = 3fb4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1408904207, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'oAAAAAAA7ALg1QfFH4Jdk5UZpnQgH+F6S5djk/teRIxpc1pD4/f6RUufhSk8WA9mscEI0s1HTsr3vXUBUkZ/hQ==''}}
0:43:26.633028	LOG	Server ----------> DUT
0:43:26.635996	LOG	Send Test Command TxFramesCtrlReq process completed
0:43:26.638496	LOG	Check previous uplink data rate process starts
0:43:26.643501	LOG	Uplink received with expected Data Rate
0:43:26.646499	LOG	Check ACK bit in next uplink process starts
0:43:28.253877	LOG	First uplink received. Open reception window.
0:43:28.355062	LOG	PUSH_ACK: 02 5ce9 01
0:43:28.357063	LOG	GPS Time from gateway: 1385115545509
0:43:28.358253	LOG	PUSH_DATA: Protocol version = 02, Token = 5ce9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1409654046, 'time': '2023-11-27T10:18:46.509391Z', 'tmms': 1385115545509, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3324, 'rssi': -52, 'size': 12, 'data': 'QAAAAACg1QUtggWR'}]}
0:43:28.360259	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 05d5, FOpts:), FPort: , FRMPayload: , MIC: 2d820591)
0:43:28.361291	LOG	Server <---------- DUT
0:43:28.363260	LOG	ACK bit in FCtrl field is set
0:43:28.365287	LOG	Check ACK bit in next uplink tested successfully
0:43:28.369837	LOG	Send Test Command RxAppCntReq process starts
0:43:29.993948	LOG	GPS Time updated: 1385115547249
0:43:29.995948	LOG	PULL_DATA: 02 0b28 02 0016c001ff1025bf
0:43:29.997950	LOG	PULL_ACK: 02 0b28 04
0:43:31.504248	LOG	First uplink received. Open reception window.
0:43:31.608652	LOG	PUSH_ACK: 02 8b20 01
0:43:31.610617	LOG	GPS Time from gateway: 1385115548759
0:43:31.611617	LOG	PUSH_DATA: Protocol version = 02, Token = 8b20, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1412903951, 'time': '2023-11-27T10:18:49.759295Z', 'tmms': 1385115548759, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3308, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA1gUCppchqoQeqk9n8dc='}]}
0:43:31.613629	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05d6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4f67f1d7)
0:43:31.614618	LOG	Server <---------- DUT
0:43:31.616618	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02ed, FOpts:), FPort: e0, FRMPayload: 09), MIC: 5e94b764)
0:43:31.617617	LOG	Frame command sent to the DUT
0:43:31.619617	LOG	PULL_RESP: Protocol version = 02, Token = 3b41, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1414903951, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAA7QLgm16Ut2Q='}}

0:43:31.620617	LOG	Server ----------> DUT
0:43:31.622895	LOG	TX_ACK: 02 3b41 05 0016c001ff1025bf
0:43:34.733370	LOG	First uplink received. Open reception window.
0:43:34.843175	LOG	PUSH_ACK: 02 6591 01
0:43:34.845181	LOG	GPS Time from gateway: 1385115551991
0:43:34.846179	LOG	PUSH_DATA: Protocol version = 02, Token = 6591, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1416136614, 'time': '2023-11-27T10:18:52.991958Z', 'tmms': 1385115551991, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3324, 'rssi': -52, 'size': 16, 'data': 'QAAAAACA1wXg29oKnyT2aw==\'}]}
0:43:34.847181	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05d7, FOpts:), FPort: e0, FRMPayload: 099c01, MIC: 9f24f66b)
0:43:34.849148	LOG	Server <---------- DUT
0:43:34.850176	LOG	Frame Command Payload in the Answer: 099c01
0:43:34.854416	LOG	RX Count received by DUT: 412
0:43:34.856427	LOG	Send Test Command RxAppCntReq process completed
0:43:34.863558	LOG	Send MAC command block process starts
0:43:40.014518	LOG	GPS Time updated: 1385115557273
0:43:40.015485	LOG	PULL_DATA: 02 97ab 02 0016c001ff1025bf
0:43:40.017486	LOG	PULL_ACK: 02 97ab 04
0:43:41.497894	LOG	First uplink received. Open reception window.
0:43:41.609214	LOG	PUSH_ACK: 02 471b 01
0:43:41.611178	LOG	GPS Time from gateway: 1385115558758
0:43:41.612179	LOG	PUSH_DATA: Protocol version = 02, Token = 471b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1422903436, 'time': '2023-11-27T10:18:59.758777Z', 'tmms': 1385115558758, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3308, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA2AUCE5SZuXqa0DRdah0='}]}
0:43:41.614219	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05d8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 345d6a1d)
0:43:41.615211	LOG	Server <---------- DUT
0:43:41.617180	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02ee, FOpts:), FPort: 00, FRMPayload: 03600f00010550d2ad84), MIC: 5c89b94f)
0:43:41.619211	LOG	PULL_RESP: Protocol version = 02, Token = 1b72, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1424903436, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAA7gIACU6fQuRq4ZdxplyJuU8='}}
0:43:41.620212	LOG	Server ----------> DUT
0:43:41.622382	LOG	TX_ACK: 02 1b72 05 0016c001ff1025bf
0:43:46.498511	LOG	First uplink received. Open reception window.
0:43:46.601424	LOG	PUSH_ACK: 02 3946 01
0:43:46.603392	LOG	GPS Time from gateway: 1385115563760
0:43:46.604391	LOG	PUSH_DATA: Protocol version = 02, Token = 3946, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1427905848, 'time': '2023-11-27T10:19:04.761190Z', 'tmms': 1385115563760, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3324, 'rssi': -52, 'size': 24, 'data': 'QAAAAACE2QUDBwUHAh6l04zT+uVeYo+6'}]}
0:43:46.606399	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 05d9, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 5e628fba)
0:43:46.608445	LOG	Server <---------- DUT
0:43:46.610476	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:43:46.611476	LOG	Command Answer: 03070507
0:43:46.666688	LOG	MAC command communication completed

0:43:46.669689	LOG	Send Test Command RxAppCntReq process starts
0:43:50.224773	LOG	GPS Time updated: 1385115567486
0:43:50.225775	LOG	PULL_DATA: 02 996b 02 0016c001ff1025bf
0:43:50.226773	LOG	PULL_ACK: 02 996b 04
0:43:51.509447	LOG	First uplink received. Open reception window.
0:43:51.617313	LOG	PUSH_ACK: 02 8d83 01
0:43:51.619317	LOG	GPS Time from gateway: 1385115568758
0:43:51.620321	LOG	PUSH_DATA: Protocol version = 02, Token = 8d83, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1432903021, 'time': '2023-11-27T10:19:09.758362Z', 'tmms': 1385115568758, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.8, 'foff': -3308, 'rssi': -51, 'size': 22, 'data': 'QAAAAACC2gUFBwJBMZMJNAkHYPPSGw=='}]}
0:43:51.622289	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 05da, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 60f3d21b)
0:43:51.624288	LOG	Server <---------- DUT
0:43:51.625286	LOG	MAC Command RXParamSetupAns received
0:43:51.627285	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02ef, FOpts:), FPort: e0, FRMPayload: 09), MIC: 5a197e76)
0:43:51.629288	LOG	Frame command sent to the DUT
0:43:51.630286	LOG	PULL_RESP: Protocol version = 02, Token = f8ba, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1434903021, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAA7wLg/VoZfnY='}}
0:43:51.632288	LOG	Server ----------> DUT
0:43:51.635288	LOG	TX_ACK: 02 f8ba 05 0016c001ff1025bf
0:43:54.733355	LOG	First uplink received. Open reception window.
0:43:54.837376	LOG	PUSH_ACK: 02 6f64 01
0:43:54.839371	LOG	GPS Time from gateway: 1385115571990
0:43:54.840376	LOG	PUSH_DATA: Protocol version = 02, Token = 6f64, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1436135561, 'time': '2023-11-27T10:19:12.990901Z', 'tmms': 1385115571990, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3324, 'rssi': -52, 'size': 16, 'data': 'QAAAAACA2wXgSUuNbmI/+Q=='}]}
0:43:54.842338	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05db, FOpts:), FPort: e0, FRMPayload: 099d01, MIC: 6e623ff9)
0:43:54.843377	LOG	Server <---------- DUT
0:43:54.845345	LOG	Frame Command Payload in the Answer: 099d01
0:43:54.849271	LOG	RX Count received by DUT: 413
0:43:54.851282	LOG	Send Test Command RxAppCntReq process completed
0:43:54.854279	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:44:00.244059	LOG	GPS Time updated: 1385115577502
0:44:00.246040	LOG	PULL_DATA: 02 2834 02 0016c001ff1025bf
0:44:00.247062	LOG	PULL_ACK: 02 2834 04
0:44:01.497357	LOG	First uplink received. Open reception window.
0:44:01.606362	LOG	PUSH_ACK: 02 ccd0 01
0:44:01.607356	LOG	GPS Time from gateway: 1385115578757
0:44:01.608758	LOG	PUSH_DATA: Protocol version = 02, Token = ccd0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1442902400, 'time': '2023-11-27T10:19:19.757739Z', 'tmms': 1385115578757, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3308, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA3AUC139l929+dT65+WQ='}]}
0:44:01.610266	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05dc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3eb9f964)
0:44:01.612270	LOG	Server <---------- DUT
0:44:01.613271	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02f0, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 2696535c)

0:44:01.615306	LOG	Frame command sent to the DUT
0:44:01.616307	LOG	PULL_RESP: Protocol version = 02, Token = 8733, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1444902400, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA8ALgCvomllNc'}}
0:44:01.617305	LOG	Server ----------> DUT
0:44:01.620271	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:44:01.626310	LOG	Send Test Command TxFramesCtrlReq process starts
0:44:06.495869	LOG	First uplink received. Open reception window.
0:44:06.612419	LOG	PUSH_ACK: 02 af78 01
0:44:06.614420	LOG	GPS Time from gateway: 1385115583757
0:44:06.615421	LOG	PUSH_DATA: Protocol version = 02, Token = af78, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1447902139, 'time': '2023-11-27T10:19:24.757477Z', 'tmms': 1385115583757, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3308, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA3QUCdAOjTM0vxu3VxOY='}]}
0:44:06.617932	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05dd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: edd5c4e6)
0:44:06.618938	LOG	Server <---------- DUT
0:44:06.620938	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02f1, FOpts:), FPort: e0, FRMPayload: 0700), MIC: d3269e6e)
0:44:06.622938	LOG	Frame command sent to the DUT
0:44:06.623942	LOG	PULL_RESP: Protocol version = 02, Token = c66e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1448902139, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA8QLg++zTJp5u'}}
0:44:06.624942	LOG	Server ----------> DUT
0:44:06.627961	LOG	Send Test Command TxFramesCtrlReq process completed
0:44:06.630942	LOG	Send Test Command TxFramesCtrlReq process starts
0:44:10.403904	LOG	GPS Time updated: 1385115587665
0:44:10.405877	LOG	PULL_DATA: 02 9a78 02 0016c001ff1025bf
0:44:10.406876	LOG	PULL_ACK: 02 9a78 04
0:44:11.494435	LOG	First uplink received. Open reception window.
0:44:11.605639	LOG	PUSH_ACK: 02 43f6 01
0:44:11.607608	LOG	GPS Time from gateway: 1385115588756
0:44:11.609119	LOG	PUSH_DATA: Protocol version = 02, Token = 43f6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1452901885, 'time': '2023-11-27T10:19:29.757221Z', 'tmms': 1385115588756, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3324, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA3gUCF/butui3eKAzKos='}]}
0:44:11.610125	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05de, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a0332a8b)
0:44:11.612123	LOG	Server <---------- DUT
0:44:11.614156	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02f2, FOpts:), FPort: e0, FRMPayload: 0700), MIC: d1b84f0d)
0:44:11.615123	LOG	Frame command sent to the DUT
0:44:11.617122	LOG	PULL_RESP: Protocol version = 02, Token = 7e0c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1453901885, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA8gLgIq3RuE8N'}}
0:44:11.618123	LOG	Server ----------> DUT
0:44:11.621129	LOG	Send Test Command TxFramesCtrlReq process completed
0:44:11.624155	LOG	Send Test Command TxFramesCtrlReq process starts
0:44:16.503488	LOG	First uplink received. Open reception window.
0:44:16.607524	LOG	PUSH_ACK: 02 614e 01
0:44:16.609031	LOG	GPS Time from gateway: 1385115593756

0:44:16.611040	LOG	PUSH_DATA: Protocol version = 02, Token = 614e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1457901623, 'time': '2023-11-27T10:19:34.756960Z', 'tmms': 1385115593756, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3324, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA3wUCjt6xMIrWhU7rYJ8='}]}
0:44:16.612034	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05df, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4eeb609f)
0:44:16.614036	LOG	Server <---------- DUT
0:44:16.615035	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02f3, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 22c330af)
0:44:16.617035	LOG	Frame command sent to the DUT
0:44:16.618035	LOG	PULL_RESP: Protocol version = 02, Token = f95c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1458901623, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA8wLgYFEiwzCv'}}
0:44:16.620035	LOG	Server ----------> DUT
0:44:16.622035	LOG	Send Test Command TxFramesCtrlReq process completed
0:44:16.626035	LOG	Send Test Command TxFramesCtrlReq process starts
0:44:20.603606	LOG	GPS Time updated: 1385115597856
0:44:20.605606	LOG	PULL_DATA: 02 1eec 02 0016c001ff1025bf
0:44:20.606607	LOG	PULL_ACK: 02 1eec 04
0:44:21.504379	LOG	First uplink received. Open reception window.
0:44:21.612602	LOG	PUSH_ACK: 02 7d06 01
0:44:21.614603	LOG	GPS Time from gateway: 1385115598756
0:44:21.615605	LOG	PUSH_DATA: Protocol version = 02, Token = 7d06, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1462901365, 'time': '2023-11-27T10:19:39.756701Z', 'tmms': 1385115598756, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3324, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA4AUCjHBqTqQZkUd9NYQ='}]}
0:44:21.617572	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05e0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 477d3584)
0:44:21.618605	LOG	Server <---------- DUT
0:44:21.620616	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02f4, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 9984a960)
0:44:21.621643	LOG	Frame command sent to the DUT
0:44:21.623643	LOG	PULL_RESP: Protocol version = 02, Token = 9257, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1463901365, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA9ALgpWqZhKlg'}}
0:44:21.624611	LOG	Server ----------> DUT
0:44:21.627649	LOG	Send Test Command TxFramesCtrlReq process completed
0:44:21.636871	LOG	Send Test Command TxFramesCtrlReq process starts
0:44:26.500681	LOG	First uplink received. Open reception window.
0:44:26.610643	LOG	PUSH_ACK: 02 2fc4 01
0:44:26.612676	LOG	GPS Time from gateway: 1385115603756
0:44:26.613684	LOG	PUSH_DATA: Protocol version = 02, Token = 2fc4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1467901099, 'time': '2023-11-27T10:19:44.756434Z', 'tmms': 1385115603756, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3324, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA4QUCb2AdoNJpSjWbxW8='}]}
0:44:26.615647	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05e1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 359bc56f)
0:44:26.616678	LOG	Server <---------- DUT
0:44:26.618644	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02f5, FOpts:), FPort: e0, FRMPayload:

		07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 52f6639a)
0:44:26.619677	LOG	Frame command sent to the DUT
0:44:26.621677	LOG	PULL_RESP: Protocol version = 02, Token = 3813, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1468901099, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'oAAAAAAA9QLgE+cXugRt1KgDF5wRJsRxuTVGxrIMPwlotwDQoyhG57ZoOwVmSWpnCpT2/b9jhQiLx7ABUvZjmg==''}}
0:44:26.622716	LOG	Server ----------> DUT
0:44:26.625682	LOG	Send Test Command TxFramesCtrlReq process completed
0:44:26.627714	LOG	Check previous uplink data rate process starts
0:44:26.632713	LOG	Uplink received with expected Data Rate
0:44:26.634711	LOG	Check ACK bit in next uplink process starts
0:44:29.036083	LOG	First uplink received. Open reception window.
0:44:29.137639	LOG	PUSH_ACK: 02 2168 01
0:44:29.139685	LOG	GPS Time from gateway: 1385115606293
0:44:29.140690	LOG	PUSH_DATA: Protocol version = 02, Token = 2168, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1470438078, 'time': '2023-11-27T10:19:47.293411Z', 'tmms': 1385115606293, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3354, 'rssi': -52, 'size': 12, 'data': 'QAAAAACg4gXuj1AR'}]}
0:44:29.142723	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 05e2, FOpts:), FPort: , FRMPayload: , MIC: ee8f5011)
0:44:29.143724	LOG	Server <---------- DUT
0:44:29.144692	LOG	ACK bit in FCtrl field is set
0:44:29.147719	LOG	Check ACK bit in next uplink tested successfully
0:44:29.152254	LOG	Send Test Command RxAppCntReq process starts
0:44:30.614090	LOG	GPS Time updated: 1385115607871
0:44:30.615083	LOG	PULL_DATA: 02 0aba 02 0016c001ff1025bf
0:44:30.617055	LOG	PULL_ACK: 02 0aba 04
0:44:31.502059	LOG	First uplink received. Open reception window.
0:44:31.618617	LOG	PUSH_ACK: 02 4160 01
0:44:31.623622	LOG	GPS Time from gateway: 1385115608755
0:44:31.624624	LOG	PUSH_DATA: Protocol version = 02, Token = 4160, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1472900838, 'time': '2023-11-27T10:19:49.756172Z', 'tmms': 1385115608755, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.8, 'foff': -3308, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA4wUCcz797iby1NWvCUE='}]}
0:44:31.626629	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05e3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d5af0941)
0:44:31.627629	LOG	Server <---------- DUT
0:44:31.628630	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02f6, FOpts:), FPort: e0, FRMPayload: 09), MIC: 5f3beaf6)
0:44:31.630631	LOG	Frame command sent to the DUT
0:44:31.631629	LOG	PULL_RESP: Protocol version = 02, Token = d3bf, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1474900838, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAA9gLgQF876vY='}}
0:44:31.632629	LOG	Server ----------> DUT
0:44:31.635630	LOG	TX_ACK: 02 d3bf 05 0016c001ff1025bf
0:44:34.729238	LOG	First uplink received. Open reception window.
0:44:34.841382	LOG	PUSH_ACK: 02 54b1 01
0:44:34.843350	LOG	GPS Time from gateway: 1385115611988
0:44:34.844855	LOG	PUSH_DATA: Protocol version = 02, Token = 54b1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1476133925, 'time': '2023-11-27T10:19:52.989259Z',

		'tmms': 1385115611988, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3354, 'rssi': -52, 'size': 16, 'data': 'QAAAAACA5AXgKvKOYQquBw==’}]}
0:44:34.845861	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05e4, FOpts:), FPort: e0, FRMPayload: 09a401, MIC: 610aae07)
0:44:34.846866	LOG	Server <---------- DUT
0:44:34.848866	LOG	Frame Command Payload in the Answer: 09a401
0:44:34.852868	LOG	RX Count received by DUT: 420
0:44:34.854922	LOG	Send Test Command RxAppCntReq process completed
0:44:34.861378	LOG	Step 18-19
0:44:34.865377	LOG	Send LinkADRReq process starts
0:44:40.663897	LOG	GPS Time updated: 1385115617922
0:44:40.665865	LOG	PULL_DATA: 02 c57c 02 0016c001ff1025bf
0:44:40.666866	LOG	PULL_ACK: 02 c57c 04
0:44:41.496697	LOG	First uplink received. Open reception window.
0:44:41.606166	LOG	PUSH_ACK: 02 e591 01
0:44:41.607669	LOG	GPS Time from gateway: 1385115618755
0:44:41.609674	LOG	PUSH_DATA: Protocol version = 02, Token = e591, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1482900321, 'time': '2023-11-27T10:19:59.755652Z', 'tmms': 1385115618755, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.8, 'foff': -3308, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA5QUCNoYzJ3csQbZwlhw=’}]}
0:44:41.611676	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05e5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b670961c)
0:44:41.612673	LOG	Server <---------- DUT
0:44:41.614675	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02f7, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: 1f358336)
0:44:41.616674	LOG	PULL_RESP: Protocol version = 02, Token = 96e0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1484900321, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAA9wIAJWTU+bkfNYM2'}}
0:44:41.617674	LOG	Server ----------> DUT
0:44:41.620678	LOG	TX_ACK: 02 96e0 05 0016c001ff1025bf
0:44:46.527857	LOG	First uplink received. Open reception window.
0:44:46.639702	LOG	PUSH_ACK: 02 4c94 01
0:44:46.641739	LOG	GPS Time from gateway: 1385115623783
0:44:46.643739	LOG	PUSH_DATA: Protocol version = 02, Token = 4c94, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1487928461, 'time': '2023-11-27T10:20:04.783793Z', 'tmms': 1385115623783, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3332, 'rssi': -52, 'size': 22, 'data': 'QAAAAACC5gUDBwKh8TWTH86h7uv5UA==’}]}
0:44:46.644707	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 05e6, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: eeebf950)
0:44:46.646706	LOG	Server <---------- DUT
0:44:46.648708	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:44:46.649741	LOG	Command Answer: 0307
0:44:46.656239	LOG	MAC command communication completed
0:44:46.659277	LOG	Send NewChannelReq process starts
0:44:50.853582	LOG	GPS Time updated: 1385115628109
0:44:50.855582	LOG	PULL_DATA: 02 0c4c 02 0016c001ff1025bf
0:44:50.856583	LOG	PULL_ACK: 02 0c4c 04
0:44:51.527035	LOG	First uplink received. Open reception window.
0:44:51.630773	LOG	PUSH_ACK: 02 dc6d 01
0:44:51.632791	LOG	GPS Time from gateway: 1385115628783

0:44:51.634781	LOG	PUSH_DATA: Protocol version = 02, Token = dc6d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1492928094, 'time': '2023-11-27T10:20:09.783425Z', 'tmms': 1385115628783, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3328, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA5wUCxExIRxkFN4rInRI='}]}
0:44:51.635832	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05e7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8ac89d12)
0:44:51.637798	LOG	Server <---------- DUT
0:44:51.638786	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02f8, FOpts:), FPort: 00, FRMPayload: 070300000050), MIC: 42edbe2a)
0:44:51.641202	LOG	PULL_RESP: Protocol version = 02, Token = cee5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1494928094, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YAAAAAAA+AIAh4Jh9EupQu2+Kg=='}}
0:44:51.643201	LOG	Server ----------> DUT
0:44:51.645377	LOG	TX_ACK: 02 cee5 05 0016c001ff1025bf
0:44:56.710211	LOG	First uplink received. Open reception window.
0:44:56.824094	LOG	PUSH_ACK: 02 9bfb 01
0:44:56.825062	LOG	GPS Time from gateway: 1385115633969
0:44:56.827574	LOG	PUSH_DATA: Protocol version = 02, Token = 9bfb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1498114506, 'time': '2023-11-27T10:20:14.969836Z', 'tmms': 1385115633969, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.0, 'foff': -3331, 'rssi': -52, 'size': 22, 'data': 'QAAAAACC6AUHAwIbgCHSe2AZ7zvM0w=='}]}
0:44:56.829575	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 05e8, FOpts: 0703), FPort: 02, FRMPayload: 00000001020000, MIC: ef3bccd3)
0:44:56.830573	LOG	Server <---------- DUT
0:44:56.832572	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:44:56.833605	LOG	Command Answer: 0703
0:44:56.838573	LOG	MAC command communication completed
0:44:56.841573	LOG	End Test Step: Test packet error rate for SF7BW250 using RX1 window
0:44:56.845580	LOG	Partial Verdict: PASS
0:44:56.849580	LOG	==========
0:44:56.853580	LOG	==========
0:44:56.855581	LOG	Start Test Step: Test packet error rate for FSK50 using RX1 window
0:44:56.867673	LOG	Step 03-09
0:44:56.872674	LOG	Send NewChannelReq process starts
0:45:00.894058	LOG	#**********CURRENT BEACON SENT**********#
0:45:00.895058	LOG	PULL_RESP: Protocol version = 02, Token = df94, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385115648000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAMI9StLQAAAAAAAAAAA='}}
0:45:00.897059	LOG	Server ----------> DUT
0:45:00.899059	LOG	#**********#
0:45:00.908130	LOG	#**********NEXT BEACON QUEUED**********#
0:45:00.910097	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385115776000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAMI9SjGkAAAAAAAAAAA='}}
0:45:00.911127	LOG	Server ----------> DUT

0:45:00.912128	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 80308f52, CRC1: 8c69, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385115776000
0:45:00.914096	LOG	#***#
0:45:00.915129	LOG	Next BEACON scheduled at GPS time (ms): 1385115904000
0:45:00.916131	LOG	GPS Time updated: 1385115638175
0:45:00.918098	LOG	PULL_DATA: 02 5909 02 0016c001ff1025bf
0:45:00.919131	LOG	PULL_ACK: 02 5909 04
0:45:00.921217	LOG	TX_ACK: 02 df94 05 0016c001ff1025bf
0:45:01.520322	LOG	First uplink received. Open reception window.
0:45:01.633503	LOG	PUSH_ACK: 02 7fd6 01
0:45:01.635470	LOG	GPS Time from gateway: 1385115638782
0:45:01.636474	LOG	PUSH_DATA: Protocol version = 02, Token = 7fd6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1502927589, 'time': '2023-11-27T10:20:19.782918Z', 'tmms': 1385115638782, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3332, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA6QUCYqOCVJ/g9l1vDiA='}]}
0:45:01.638980	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05e9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5d6f0e20)
0:45:01.639987	LOG	Server <-------------------- DUT
0:45:01.641987	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02f9, FOpts:), FPort: 00, FRMPayload: 070428768477), MIC: 4b674f6e)
0:45:01.643986	LOG	PULL_RESP: Protocol version = 02, Token = e792, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1504927589, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YAAAAAAA+QIAk9jluBkWS2dPbg=='}}
0:45:01.645020	LOG	Server --------------------> DUT
0:45:01.647622	LOG	TX_ACK: 02 e792 05 0016c001ff1025bf
0:45:06.520917	LOG	First uplink received. Open reception window.
0:45:06.635106	LOG	PUSH_ACK: 02 0fae 01
0:45:06.637073	LOG	GPS Time from gateway: 1385115643782
0:45:06.638073	LOG	PUSH_DATA: Protocol version = 02, Token = 0fae, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1507927423, 'time': '2023-11-27T10:20:24.782751Z', 'tmms': 1385115643782, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3335, 'rssi': -52, 'size': 22, 'data': 'QAAAAACC6gUHAwLtiAkRocfOsi4fHw=='}]}
0:45:06.640080	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 05ea, FOpts: 0703), FPort: 02, FRMPayload: 00000001020000, MIC: b22e1f1f)
0:45:06.641078	LOG	Server <-------------------- DUT
0:45:06.643079	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:45:06.644078	LOG	Command Answer: 0703
0:45:06.649566	LOG	MAC command communication completed
0:45:06.653563	LOG	Send MAC command block process starts
0:45:11.093978	LOG	GPS Time updated: 1385115648356
0:45:11.094949	LOG	PULL_DATA: 02 9b31 02 0016c001ff1025bf
0:45:11.096951	LOG	PULL_ACK: 02 9b31 04
0:45:11.519757	LOG	First uplink received. Open reception window.
0:45:11.634595	LOG	PUSH_ACK: 02 17a5 01
0:45:11.636563	LOG	GPS Time from gateway: 1385115648782
0:45:11.637563	LOG	PUSH_DATA: Protocol version = 02, Token = 17a5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1512927057, 'time': '2023-11-27T10:20:29.782383Z', 'tmms': 1385115648782, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3332, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA6wUCnB93+msuYw1VsIs='}]}

0:45:11.640075	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05eb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0d55b08b)
0:45:11.641073	LOG	Server <---------- DUT
0:45:11.643074	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02fa, FOpts:), FPort: 00, FRMPayload: 03701700010500d2ad84), MIC: b34efa97)
0:45:11.645073	LOG	PULL_RESP: Protocol version = 02, Token = 170e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1514927057, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAA+gIAvuqbr9k3VQxK8rNO+pc='}}
0:45:11.646073	LOG	Server ----------> DUT
0:45:11.649324	LOG	TX_ACK: 02 170e 05 0016c001ff1025bf
0:45:16.470636	LOG	First uplink received. Open reception window.
0:45:16.582625	LOG	PUSH_ACK: 02 ebea 01
0:45:16.584841	LOG	GPS Time from gateway: 1385115653731
0:45:16.587041	LOG	PUSH_DATA: Protocol version = 02, Token = ebea, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1517876700, 'time': '2023-11-27T10:20:34.732027Z', 'tmms': 1385115653731, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -59, 'size': 24, 'data': 'QAAAAACE7AUDBwUHAgYJeFIwE1aktmgC'}]}
0:45:16.588790	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 05ec, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: a4b66802)
0:45:16.590698	LOG	Server <---------- DUT
0:45:16.592260	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:45:16.593873	LOG	Command Answer: 03070507
0:45:16.649976	LOG	MAC command communication completed
0:45:16.652979	LOG	Send Test Command RxAppCntReq process starts
0:45:21.093723	LOG	GPS Time updated: 1385115658355
0:45:21.094693	LOG	PULL_DATA: 02 4bca 02 0016c001ff1025bf
0:45:21.096695	LOG	PULL_ACK: 02 4bca 04
0:45:21.468765	LOG	First uplink received. Open reception window.
0:45:21.571627	LOG	PUSH_ACK: 02 de10 01
0:45:21.573627	LOG	GPS Time from gateway: 1385115658731
0:45:21.574627	LOG	PUSH_DATA: Protocol version = 02, Token = de10, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1522876102, 'time': '2023-11-27T10:20:39.731428Z', 'tmms': 1385115658731, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -58, 'size': 22, 'data': 'QAAAAACC7QUFBwJaRo23tUKRgjBkxA=='}]}
0:45:21.576597	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 05ed, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 823064c4)
0:45:21.577763	LOG	Server <---------- DUT
0:45:21.579760	LOG	MAC Command RXParamSetupAns received
0:45:21.580794	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02fb, FOpts:), FPort: e0, FRMPayload: 09), MIC: c97c7956)
0:45:21.582762	LOG	Frame command sent to the DUT
0:45:21.583793	LOG	PULL_RESP: Protocol version = 02, Token = 0b60, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1524876102, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAA+wLgecl8eVY='}}
0:45:21.584794	LOG	Server ----------> DUT
0:45:21.587806	LOG	TX_ACK: 02 0b60 05 0016c001ff1025bf
0:45:24.683031	LOG	First uplink received. Open reception window.
0:45:24.790880	LOG	PUSH_ACK: 02 46c3 01
0:45:24.792881	LOG	GPS Time from gateway: 1385115661943

0:45:24.794110	LOG	PUSH_DATA: Protocol version = 02, Token = 46c3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1526088149, 'time': '2023-11-27T10:20:42.943474Z', 'tmms': 1385115661943, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -67, 'size': 16, 'data': 'QAAAAACA7gXgYdfP5MubAg==\'}]}
0:45:24.796592	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05ee, FOpts:), FPort: e0, FRMPayload: 09a501, MIC: e4cb9b02)
0:45:24.797587	LOG	Server <---------- DUT
0:45:24.799588	LOG	Frame Command Payload in the Answer: 09a501
0:45:24.803313	LOG	RX Count received by DUT: 421
0:45:24.805356	LOG	Send Test Command RxAppCntReq process completed
0:45:24.808358	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:45:31.254047	LOG	GPS Time updated: 1385115668513
0:45:31.255048	LOG	PULL_DATA: 02 a192 02 0016c001ff1025bf
0:45:31.257048	LOG	PULL_ACK: 02 a192 04
0:45:31.477139	LOG	First uplink received. Open reception window.
0:45:31.592462	LOG	PUSH_ACK: 02 58aa 01
0:45:31.594432	LOG	GPS Time from gateway: 1385115668730
0:45:31.595430	LOG	PUSH_DATA: Protocol version = 02, Token = 58aa, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1532875165, 'time': '2023-11-27T10:20:49.730489Z', 'tmms': 1385115668730, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -61, 'size': 20, 'data': 'QAAAAACA7wUCXZDTfRydCJpJppI=\'}]}
0:45:31.596464	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05ef, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9a49a692)
0:45:31.598002	LOG	Server <---------- DUT
0:45:31.600040	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02fc, FOpts:), FPort: e0, FRMPayload: 0500), MIC: c817bdd7)
0:45:31.601040	LOG	Frame command sent to the DUT
0:45:31.603045	LOG	PULL_RESP: Protocol version = 02, Token = cef8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1534875165, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA/ALgLsTIF73X'}}
0:45:31.604039	LOG	Server ----------> DUT
0:45:31.606039	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:45:31.614566	LOG	Send Test Command TxFramesCtrlReq process starts
0:45:36.470798	LOG	First uplink received. Open reception window.
0:45:36.573312	LOG	PUSH_ACK: 02 7964 01
0:45:36.575279	LOG	GPS Time from gateway: 1385115673729
0:45:36.576823	LOG	PUSH_DATA: Protocol version = 02, Token = 7964, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1537874906, 'time': '2023-11-27T10:20:54.730229Z', 'tmms': 1385115673729, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -61, 'size': 20, 'data': 'QAAAAACA8AUCcEHJlkd5UcUMiJY=\'}]}
0:45:36.577828	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05f0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c50c8896)
0:45:36.578828	LOG	Server <---------- DUT
0:45:36.580828	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02fd, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 341ea146)
0:45:36.582865	LOG	Frame command sent to the DUT
0:45:36.583861	LOG	PULL_RESP: Protocol version = 02, Token = 76e3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1538874906, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 15, 'data': 'YAAAAAAA/QLgWao0HqFG'}}
0:45:36.584861	LOG	Server ----------> DUT
0:45:36.587866	LOG	Send Test Command TxFramesCtrlReq process completed

0:45:36.591865	LOG	Send Test Command TxFramesCtrlReq process starts
0:45:37.478885	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:45:37.480903	LOG	Previous uplink Frame type (FType): 011
0:45:37.482884	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:45:37.484399	LOG	Previous uplink Frame type (FType): 011
0:45:41.413469	LOG	GPS Time updated: 1385115678672
0:45:41.415435	LOG	PULL_DATA: 02 d291 02 0016c001ff1025bf
0:45:41.416475	LOG	PULL_ACK: 02 d291 04
0:45:41.472893	LOG	First uplink received. Open reception window.
0:45:41.579713	LOG	PUSH_ACK: 02 502b 01
0:45:41.581679	LOG	GPS Time from gateway: 1385115678729
0:45:41.583684	LOG	PUSH_DATA: Protocol version = 02, Token = 502b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1542874588, 'time': '2023-11-27T10:20:59.729909Z', 'tmms': 1385115678729, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -61, 'size': 20, 'data': 'QAAAAACA8QUCpxrNWsdYdoK1zjQ='}]}
0:45:41.585678	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05f1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 82b5ce34)
0:45:41.586678	LOG	Server <---------- DUT
0:45:41.588706	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02fe, FOpts:), FPort: e0, FRMPayload: 0700), MIC: cc1e049b)
0:45:41.589712	LOG	Frame command sent to the DUT
0:45:41.591713	LOG	PULL_RESP: Protocol version = 02, Token = a066, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1543874588, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 15, 'data': 'YAAAAAAA/gLgEnPMHgSb'}}
0:45:41.592750	LOG	Server ----------> DUT
0:45:41.595769	LOG	Send Test Command TxFramesCtrlReq process completed
0:45:41.599719	LOG	Send Test Command TxFramesCtrlReq process starts
0:45:42.477953	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:45:42.479951	LOG	Previous uplink Frame type (FType): 011
0:45:42.481956	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:45:42.482955	LOG	Previous uplink Frame type (FType): 011
0:45:46.469910	LOG	First uplink received. Open reception window.
0:45:46.575716	LOG	PUSH_ACK: 02 02aa 01
0:45:46.577831	LOG	GPS Time from gateway: 1385115683729
0:45:46.578834	LOG	PUSH_DATA: Protocol version = 02, Token = 02aa, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1547874322, 'time': '2023-11-27T10:21:04.729644Z', 'tmms': 1385115683729, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -61, 'size': 20, 'data': 'QAAAAACA8gUC0Q0Q0ngBhlIBA7U='}]}
0:45:46.580800	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05f2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 520103b5)
0:45:46.581800	LOG	Server <---------- DUT
0:45:46.583831	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 02ff, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 46bc002d)
0:45:46.584832	LOG	Frame command sent to the DUT
0:45:46.586832	LOG	PULL_RESP: Protocol version = 02, Token = 950b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1548874322, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 15, 'data': 'YAAAAAAA/wLgve9GvAAt'}}
0:45:46.587831	LOG	Server ----------> DUT
0:45:46.590814	LOG	Send Test Command TxFramesCtrlReq process completed
0:45:46.594811	LOG	Send Test Command TxFramesCtrlReq process starts
0:45:47.479199	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:45:47.481203	LOG	Previous uplink Frame type (FType): 011

0:45:47.482709	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:45:47.483721	LOG	Previous uplink Frame type (FType): 011
0:45:51.467245	LOG	First uplink received. Open reception window.
0:45:51.573531	LOG	PUSH_ACK: 02 42c7 01
0:45:51.575531	LOG	GPS Time from gateway: 1385115688729
0:45:51.577035	LOG	PUSH_DATA: Protocol version = 02, Token = 42c7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1552874070, 'time': '2023-11-27T10:21:09.729391Z', 'tmms': 1385115688729, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -61, 'size': 20, 'data': 'QAAAAACA8wUCUBIcbyAEgy8gSo0='}]}
0:45:51.578042	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05f3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2f204a8d)
0:45:51.580045	LOG	Server <-------------------- DUT
0:45:51.581075	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0300, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 047a556f)
0:45:51.583075	LOG	Frame command sent to the DUT
0:45:51.584042	LOG	PULL_RESP: Protocol version = 02, Token = 8f16, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1553874070, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 15, 'data': 'YAAAAAAAAAPgvlwEelVv'}}
0:45:51.586075	LOG	Server --------------------> DUT
0:45:51.588077	LOG	Send Test Command TxFramesCtrlReq process completed
0:45:51.598078	LOG	Send Test Command TxFramesCtrlReq process starts
0:45:52.473419	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:45:52.476437	LOG	Previous uplink Frame type (FType): 011
0:45:52.478423	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:45:52.480458	LOG	Previous uplink Frame type (FType): 011
0:45:56.473659	LOG	First uplink received. Open reception window.
0:45:56.587264	LOG	PUSH_ACK: 02 82d2 01
0:45:56.589232	LOG	GPS Time from gateway: 1385115693728
0:45:56.590231	LOG	PUSH_DATA: Protocol version = 02, Token = 82d2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1557873816, 'time': '2023-11-27T10:21:14.729136Z', 'tmms': 1385115693728, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -61, 'size': 20, 'data': 'QAAAAACA9AUCfvfC+W/yffJk7K8='}]}
0:45:56.592232	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05f4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f264ecaf)
0:45:56.593237	LOG	Server <-------------------- DUT
0:45:56.595238	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0301, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 0af52d7f)
0:45:56.597238	LOG	Frame command sent to the DUT
0:45:56.598237	LOG	PULL_RESP: Protocol version = 02, Token = c4bb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1558873816, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'oAAAAAAAAQPg2OWSl7qjLu390pECMeSSEI5LWfWwYvNzYJoonLQQeSv2HQcEyPfeeaZ6nv4Yd4CklXOSYyWqB1uCjN7Km3+U5mNIXc5+hpf4Bd7Cdr+D+HKoPBVE9jpX1KO8Mz46TSTOb7mXQ0bOoP/WbhS7iyOOs2Y0PlDuD/YUhJu2weQl1+8vN447gFFj93bE10koA/N+1Sr02rl8WHmQHGRE2Imof+lwNLmd86S

		N1ygoIXKMecG9YkaG7jf0gHC/cG2DW1kUY6Zr8l8zNfqv9cbenotNc1QqEI8rXWVDb97SPUwld9JF8NjT+jN1TRQA7X08SjjX3kMK9S1/'}}
0:45:56.600237	LOG	Server ----------> DUT
0:45:56.602238	LOG	Send Test Command TxFramesCtrlReq process completed
0:45:56.605237	LOG	Check previous uplink data rate process starts
0:45:56.609811	LOG	Uplink received with expected Data Rate
0:45:56.613811	LOG	Check ACK bit in next uplink process starts
0:45:57.515077	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:45:57.517077	LOG	Previous uplink Frame type (FType): 101
0:45:57.519080	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:45:57.521079	LOG	Previous uplink Frame type (FType): 101
0:45:57.635654	LOG	First uplink received. Open reception window.
0:45:57.745800	LOG	PUSH_ACK: 02 957b 01
0:45:57.748225	LOG	GPS Time from gateway: 1385115694813
0:45:57.749868	LOG	PUSH_DATA: Protocol version = 02, Token = 957b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1558958757, 'time': '2023-11-27T10:21:15.814077Z', 'tmms': 1385115694813, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -74, 'size': 12, 'data': 'QAAAAACg9QX4Q4De'}]}
0:45:57.751539	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 05f5, FOpts:), FPort: , FRMPayload: , MIC: f84380de)
0:45:57.753315	LOG	Server <---------- DUT
0:45:57.754975	LOG	ACK bit in FCtrl field is set
0:45:57.757006	LOG	Check ACK bit in next uplink tested successfully
0:45:57.761603	LOG	Send Test Command RxAppCntReq process starts
0:46:01.474824	LOG	First uplink received. Open reception window.
0:46:01.577628	LOG	PUSH_ACK: 02 5bed 01
0:46:01.579596	LOG	GPS Time from gateway: 1385115698728
0:46:01.580596	LOG	PUSH_DATA: Protocol version = 02, Token = 5bed, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1562873605, 'time': '2023-11-27T10:21:19.728924Z', 'tmms': 1385115698728, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACA9gUCl808yCbAJoiXJjc='}]}
0:46:01.581597	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05f6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 88972637)
0:46:01.583597	LOG	Server <---------- DUT
0:46:01.584597	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0302, FOpts:), FPort: e0, FRMPayload: 09), MIC: 62842573)
0:46:01.586609	LOG	Frame command sent to the DUT
0:46:01.587596	LOG	PULL_RESP: Protocol version = 02, Token = ce61, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1564873605, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAAgPgPmKEJXM='}}
0:46:01.589597	LOG	Server ----------> DUT
0:46:01.591603	LOG	TX_ACK: 02 ce61 05 0016c001ff1025bf
0:46:01.593602	LOG	GPS Time updated: 1385115698848
0:46:01.595626	LOG	PULL_DATA: 02 25d4 02 0016c001ff1025bf
0:46:01.596633	LOG	PULL_ACK: 02 25d4 04
0:46:04.682433	LOG	First uplink received. Open reception window.
0:46:04.784830	LOG	PUSH_ACK: 02 521c 01
0:46:04.786830	LOG	GPS Time from gateway: 1385115701941
0:46:04.787831	LOG	PUSH_DATA: Protocol version = 02, Token = 521c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1566086281, 'time': '2023-11-27T10:21:22.941598Z', 'tmms': 1385115701941, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -66, 'size': 16, 'data': 'QAAAAACA9wXgWBK8vB3Dhg=='}]}

0:46:04.789865	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05f7, FOpts:), FPort: e0, FRMPayload: 09ac01, MIC: bc1dc386)
0:46:04.790817	LOG	Server <---------- DUT
0:46:04.792818	LOG	Frame Command Payload in the Answer: 09ac01
0:46:04.796329	LOG	RX Count received by DUT: 428
0:46:04.799343	LOG	Send Test Command RxAppCntReq process completed
0:46:04.806326	LOG	Send MAC command block process starts
0:46:11.465150	LOG	First uplink received. Open reception window.
0:46:11.576475	LOG	PUSH_ACK: 02 2924 01
0:46:11.578480	LOG	GPS Time from gateway: 1385115708728
0:46:11.579480	LOG	PUSH_DATA: Protocol version = 02, Token = 2924, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1572873083, 'time': '2023-11-27T10:21:29.728400Z', 'tmms': 1385115708728, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -61, 'size': 20, 'data': 'QAAAAACA+AUCM9j709jdkvEZf94='}]}
0:46:11.581513	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05f8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f1197fde)
0:46:11.582512	LOG	Server <---------- DUT
0:46:11.584501	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0303, FOpts:), FPort: 00, FRMPayload: 03701700010510d2ad84), MIC: d7687f5e)
0:46:11.586481	LOG	PULL_RESP: Protocol version = 02, Token = 144b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1574873083, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAAwMAcha6YTWw5hB82tdof14='}}
0:46:11.587514	LOG	Server ----------> DUT
0:46:11.590480	LOG	TX_ACK: 02 144b 05 0016c001ff1025bf
0:46:11.793754	LOG	GPS Time updated: 1385115709056
0:46:11.795298	LOG	PULL_DATA: 02 ad7a 02 0016c001ff1025bf
0:46:11.796304	LOG	PULL_ACK: 02 ad7a 04
0:46:16.466886	LOG	First uplink received. Open reception window.
0:46:16.576415	LOG	PUSH_ACK: 02 4f48 01
0:46:16.578421	LOG	GPS Time from gateway: 1385115713728
0:46:16.579421	LOG	PUSH_DATA: Protocol version = 02, Token = 4f48, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1577873586, 'time': '2023-11-27T10:21:34.728901Z', 'tmms': 1385115713728, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -56, 'size': 24, 'data': 'QAAAAACE+QUDBwUHAu3iF4BwOQENUtOd'}]}
0:46:16.581421	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 05f9, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 0d52d39d)
0:46:16.582420	LOG	Server <---------- DUT
0:46:16.584420	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:46:16.585420	LOG	Command Answer: 03070507
0:46:16.643182	LOG	MAC command communication completed
0:46:16.646772	LOG	Send Test Command RxAppCntReq process starts
0:46:21.464575	LOG	First uplink received. Open reception window.
0:46:21.567180	LOG	PUSH_ACK: 02 f3c7 01
0:46:21.569150	LOG	GPS Time from gateway: 1385115718727
0:46:21.571188	LOG	PUSH_DATA: Protocol version = 02, Token = f3c7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1582872995, 'time': '2023-11-27T10:21:39.728311Z', 'tmms': 1385115718727, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -59, 'size': 22, 'data': 'QAAAAACC+gUFBwLTVft5jsbT7q/qqg=='}]}

0:46:21.572155	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 05fa, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: eeafeaaa)
0:46:21.573153	LOG	Server <---------- DUT
0:46:21.575153	LOG	MAC Command RXParamSetupAns received
0:46:21.576700	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0304, FOpts:), FPort: e0, FRMPayload: 09), MIC: 99dba80d)
0:46:21.577705	LOG	Frame command sent to the DUT
0:46:21.579704	LOG	PULL_RESP: Protocol version = 02, Token = 6f23, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1584872995, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAABAPgJpnbqA0='}}
0:46:21.580706	LOG	Server ----------> DUT
0:46:21.583707	LOG	TX_ACK: 02 6f23 05 0016c001ff1025bf
0:46:22.003780	LOG	GPS Time updated: 1385115719266
0:46:22.006781	LOG	PULL_DATA: 02 eece 02 0016c001ff1025bf
0:46:22.009779	LOG	PULL_ACK: 02 eece 04
0:46:24.684653	LOG	First uplink received. Open reception window.
0:46:24.788494	LOG	PUSH_ACK: 02 5c31 01
0:46:24.790495	LOG	GPS Time from gateway: 1385115721940
0:46:24.791497	LOG	PUSH_DATA: Protocol version = 02, Token = 5c31, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1586085169, 'time': '2023-11-27T10:21:42.940484Z', 'tmms': 1385115721940, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -68, 'size': 16, 'data': 'QAAAAACA+wXgXWgF+k2oEQ==''}]}
0:46:24.793515	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05fb, FOpts:), FPort: e0, FRMPayload: 09ad01, MIC: fa4da811)
0:46:24.795509	LOG	Server <---------- DUT
0:46:24.797590	LOG	Frame Command Payload in the Answer: 09ad01
0:46:24.801217	LOG	RX Count received by DUT: 429
0:46:24.803227	LOG	Send Test Command RxAppCntReq process completed
0:46:24.806226	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:46:31.464662	LOG	First uplink received. Open reception window.
0:46:31.572438	LOG	PUSH_ACK: 02 95dc 01
0:46:31.574405	LOG	GPS Time from gateway: 1385115728727
0:46:31.575406	LOG	PUSH_DATA: Protocol version = 02, Token = 95dc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1592872045, 'time': '2023-11-27T10:21:49.727359Z', 'tmms': 1385115728727, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -61, 'size': 20, 'data': 'QAAAAACA/AUCUA1U41qQLQDY3Ig='}]}
0:46:31.576910	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05fc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 00d8dc88)
0:46:31.578916	LOG	Server <---------- DUT
0:46:31.580951	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0305, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 04a89fcf)
0:46:31.581948	LOG	Frame command sent to the DUT
0:46:31.582949	LOG	PULL_RESP: Protocol version = 02, Token = 7c8f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1594872045, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAABQPgvu8EqJ/P'}}
0:46:31.584940	LOG	Server ----------> DUT
0:46:31.586948	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:46:31.593920	LOG	Send Test Command TxFramesCtrlReq process starts
0:46:32.213056	LOG	GPS Time updated: 1385115729477
0:46:32.215021	LOG	PULL_DATA: 02 e989 02 0016c001ff1025bf
0:46:32.216021	LOG	PULL_ACK: 02 e989 04
0:46:36.466144	LOG	First uplink received. Open reception window.

0:46:36.574218	LOG	PUSH_ACK: 02 a66c 01
0:46:36.575217	LOG	GPS Time from gateway: 1385115733726
0:46:36.577726	LOG	PUSH_DATA: Protocol version = 02, Token = a66c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1597871796, 'time': '2023-11-27T10:21:54.727109Z', 'tmms': 1385115733726, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACA/QUCJd9+Zq+FoZZgCjY='}]}
0:46:36.578726	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05fd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 96600a36)
0:46:36.579726	LOG	Server <---------- DUT
0:46:36.581729	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0306, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 073091f8)
0:46:36.583727	LOG	Frame command sent to the DUT
0:46:36.584727	LOG	PULL_RESP: Protocol version = 02, Token = 833c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1598871796, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAABgPg1IoHMJH4'}}
0:46:36.586732	LOG	Server ----------> DUT
0:46:36.589727	LOG	Send Test Command TxFramesCtrlReq process completed
0:46:36.592726	LOG	Send Test Command TxFramesCtrlReq process starts
0:46:41.472471	LOG	First uplink received. Open reception window.
0:46:41.574295	LOG	PUSH_ACK: 02 5b81 01
0:46:41.575259	LOG	GPS Time from gateway: 1385115738726
0:46:41.577770	LOG	PUSH_DATA: Protocol version = 02, Token = 5b81, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1602871531, 'time': '2023-11-27T10:21:59.726843Z', 'tmms': 1385115738726, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACA/gUC/Uhl3JD8gSv4FWU='}]}
0:46:41.578770	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05fe, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2bf81565)
0:46:41.579769	LOG	Server <---------- DUT
0:46:41.581769	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0307, FOpts:), FPort: e0, FRMPayload: 0700), MIC: fbe571b4)
0:46:41.583768	LOG	Frame command sent to the DUT
0:46:41.584768	LOG	PULL_RESP: Protocol version = 02, Token = dba0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1603871531, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAABwPgh3D75XG0'}}
0:46:41.585769	LOG	Server ----------> DUT
0:46:41.588768	LOG	Send Test Command TxFramesCtrlReq process completed
0:46:41.591801	LOG	Send Test Command TxFramesCtrlReq process starts
0:46:42.213282	LOG	GPS Time updated: 1385115739467
0:46:42.214311	LOG	PULL_DATA: 02 34f1 02 0016c001ff1025bf
0:46:42.216278	LOG	PULL_ACK: 02 34f1 04
0:46:46.467602	LOG	First uplink received. Open reception window.
0:46:46.572724	LOG	PUSH_ACK: 02 fc8f 01
0:46:46.574261	LOG	GPS Time from gateway: 1385115743726
0:46:46.575302	LOG	PUSH_DATA: Protocol version = 02, Token = fc8f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1607871269, 'time': '2023-11-27T10:22:04.726579Z', 'tmms': 1385115743726, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACA/wUCN81hiA0TzGJDntQ='}]}
0:46:46.577819	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 05ff, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 62439ed4)
0:46:46.579820	LOG	Server <---------- DUT

0:46:46.581851	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0308, FOpts:), FPort: e0, FRMPayload: 0700), MIC: f5f7594e)
0:46:46.582853	LOG	Frame command sent to the DUT
0:46:46.583851	LOG	PULL_RESP: Protocol version = 02, Token = fd1a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1608871269, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAACAPgFxL191lO'}}
0:46:46.585852	LOG	Server --------------------> DUT
0:46:46.588823	LOG	Send Test Command TxFramesCtrlReq process completed
0:46:46.591816	LOG	Send Test Command TxFramesCtrlReq process starts
0:46:51.465132	LOG	First uplink received. Open reception window.
0:46:51.574558	LOG	PUSH_ACK: 02 6330 01
0:46:51.576520	LOG	GPS Time from gateway: 1385115748725
0:46:51.579035	LOG	PUSH_DATA: Protocol version = 02, Token = 6330, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1612871012, 'time': '2023-11-27T10:22:09.726321Z', 'tmms': 1385115748725, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAAYCRrGWeABkcuH/r14='}]}
0:46:51.580541	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0600, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e1ffaf5e)
0:46:51.581582	LOG	Server <-------------------- DUT
0:46:51.583549	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0309, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 43c00667)
0:46:51.585546	LOG	Frame command sent to the DUT
0:46:51.586546	LOG	PULL_RESP: Protocol version = 02, Token = e8eb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1613871012, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAACQPg195DwAZn'}}
0:46:51.587551	LOG	Server --------------------> DUT
0:46:51.590546	LOG	Send Test Command TxFramesCtrlReq process completed
0:46:51.599585	LOG	Send Test Command TxFramesCtrlReq process starts
0:46:52.423312	LOG	GPS Time updated: 1385115749683
0:46:52.424279	LOG	PULL_DATA: 02 3e8d 02 0016c001ff1025bf
0:46:52.426279	LOG	PULL_ACK: 02 3e8d 04
0:46:56.467443	LOG	First uplink received. Open reception window.
0:46:56.571732	LOG	PUSH_ACK: 02 54eb 01
0:46:56.573700	LOG	GPS Time from gateway: 1385115753725
0:46:56.574699	LOG	PUSH_DATA: Protocol version = 02, Token = 54eb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1617870756, 'time': '2023-11-27T10:22:14.726066Z', 'tmms': 1385115753725, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAAQYCmVWkGC5rT/rNNVw='}]}
0:46:56.576701	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0601, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: facd355c)
0:46:56.577705	LOG	Server <-------------------- DUT
0:46:56.579706	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 030a, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 3a0bd7ed)
0:46:56.581706	LOG	Frame command sent to the DUT

0:46:56.583706	LOG	PULL_RESP: Protocol version = 02, Token = 5384, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1618870756, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'oAAAAAAACgPgxb7UQPK/StFXiUKkEHchUUuqkVGTsYrqxs5AWPQDyCkSNGq6dMz8eTbi3jRqp/zSo+IxX1G0K2wSBHnUw5sXfvgaP22UMZl7YIeN3u+YLZPN1y8t52V0kuOBq3oaw3uy7Ko/C7dVL7n2DArSTJv1Lyf+KzhNUplFS3LrQA11ApvF6OSUp/zBxIiifomQu5x1yUzqKRvVRS8tWDe07Kiro5mHZfUmE29LDCkrLwucBdcqvOajc6Oez0mAgYFkkaYLPpZW0aWIA3/0/fLuOlASJMdqh5Z40Azv5jKLLu5uI6+EfRtAbSf34QUdIg4Y1EaMOQw6C9ft'}}
0:46:56.584705	LOG	Server ----------> DUT
0:46:56.587215	LOG	Send Test Command TxFramesCtrlReq process completed
0:46:56.591214	LOG	Check previous uplink data rate process starts
0:46:56.595250	LOG	Uplink received with expected Data Rate
0:46:56.598300	LOG	Check ACK bit in next uplink process starts
0:46:57.701936	LOG	First uplink received. Open reception window.
0:46:57.805354	LOG	PUSH_ACK: 02 07a4 01
0:46:57.807322	LOG	GPS Time from gateway: 1385115754964
0:46:57.808357	LOG	PUSH_DATA: Protocol version = 02, Token = 07a4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1619109182, 'time': '2023-11-27T10:22:15.964490Z', 'tmms': 1385115754964, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -74, 'size': 12, 'data': 'QAAAAACgAgaoccR+'}]}
0:46:57.810322	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 0602, FOpts:), FPort: , FRMPayload: , MIC: a871c47e)
0:46:57.811360	LOG	Server <---------- DUT
0:46:57.813402	LOG	ACK bit in FCtrl field is set
0:46:57.815397	LOG	Check ACK bit in next uplink tested successfully
0:46:57.819952	LOG	Send Test Command RxAppCntReq process starts
0:47:01.468324	LOG	First uplink received. Open reception window.
0:47:01.572815	LOG	PUSH_ACK: 02 3450 01
0:47:01.574787	LOG	GPS Time from gateway: 1385115758725
0:47:01.575780	LOG	PUSH_DATA: Protocol version = 02, Token = 3450, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1622870495, 'time': '2023-11-27T10:22:19.725804Z', 'tmms': 1385115758725, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -61, 'size': 20, 'data': 'QAAAAACAAwYCWtDf0ZnmO42vkXA='}]}
0:47:01.577782	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0603, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8daf9170)
0:47:01.578821	LOG	Server <---------- DUT
0:47:01.580782	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 030b, FOpts:), FPort: e0, FRMPayload: 09), MIC: a3d800af)
0:47:01.581813	LOG	Frame command sent to the DUT
0:47:01.582813	LOG	PULL_RESP: Protocol version = 02, Token = 749a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1624870495, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAACwPg0KPYAK8='}}
0:47:01.584781	LOG	Server ----------> DUT
0:47:01.586534	LOG	TX_ACK: 02 749a 05 0016c001ff1025bf
0:47:02.633063	LOG	GPS Time updated: 1385115759890
0:47:02.634100	LOG	PULL_DATA: 02 f527 02 0016c001ff1025bf
0:47:02.636065	LOG	PULL_ACK: 02 f527 04
0:47:04.676302	LOG	First uplink received. Open reception window.
0:47:04.780221	LOG	PUSH_ACK: 02 18e4 01
0:47:04.782223	LOG	GPS Time from gateway: 1385115761937
0:47:04.783223	LOG	PUSH_DATA: Protocol version = 02, Token = 18e4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1626082911, 'time': '2023-11-27T10:22:22.938219Z',

		'tmms': 1385115761937, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -67, 'size': 16, 'data': 'QAAAAACABAbgK2z/y74PjA==‘}]}
0:47:04.784223	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0604, FOpts:), FPort: e0, FRMPayload: 09b401, MIC: cbbe0f8c)
0:47:04.786223	LOG	Server <---------- DUT
0:47:04.788196	LOG	Frame Command Payload in the Answer: 09b401
0:47:04.792191	LOG	RX Count received by DUT: 436
0:47:04.793223	LOG	Send Test Command RxAppCntReq process completed
0:47:04.801756	LOG	Send MAC command block process starts
0:47:11.468786	LOG	#**********CURRENT BEACON SENT**********#
0:47:11.469784	LOG	PULL_RESP: Protocol version = 02, Token = deb8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385115776000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAMI9SjGkAAAAAAAAAAA='}}
0:47:11.471780	LOG	Server ----------> DUT
0:47:11.473787	LOG	#**********#
0:47:11.482786	LOG	#**********NEXT BEACON QUEUED**********#
0:47:11.483910	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385115904000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAMY9ShIMAAAAAAAAAAA='}}
0:47:11.485907	LOG	Server ----------> DUT
0:47:11.487918	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 00318f52, CRC1: 8483, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385115904000
0:47:11.489918	LOG	#**********#
0:47:11.491912	LOG	Next BEACON scheduled at GPS time (ms): 1385116032000
0:47:11.492912	LOG	First uplink received. Open reception window.
0:47:11.494913	LOG	TX_ACK: 02 deb8 05 0016c001ff1025bf
0:47:11.608122	LOG	PUSH_ACK: 02 f574 01
0:47:11.610138	LOG	GPS Time from gateway: 1385115768724
0:47:11.612138	LOG	PUSH_DATA: Protocol version = 02, Token = f574, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1632869979, 'time': '2023-11-27T10:22:29.725286Z', 'tmms': 1385115768724, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACABQYCOsfXkCHHydCHiyk='}]}
0:47:11.613137	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0605, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d0878b29)
0:47:11.615137	LOG	Server <---------- DUT
0:47:11.616138	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 030c, FOpts:), FPort: 00, FRMPayload: 03701700010520d2ad84), MIC: 11cf3527)
0:47:11.618136	LOG	PULL_RESP: Protocol version = 02, Token = f748, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1634869979, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAADAMAL55/I5uN6/43uhHPNSc='}}
0:47:11.619136	LOG	Server ----------> DUT
0:47:11.623171	LOG	TX_ACK: 02 f748 05 0016c001ff1025bf
0:47:12.663435	LOG	GPS Time updated: 1385115769892
0:47:12.664433	LOG	PULL_DATA: 02 158b 02 0016c001ff1025bf
0:47:12.666436	LOG	PULL_ACK: 02 158b 04

0:47:16.465554	LOG	First uplink received. Open reception window.
0:47:16.572440	LOG	PUSH_ACK: 02 50fe 01
0:47:16.574440	LOG	GPS Time from gateway: 1385115773725
0:47:16.575443	LOG	PUSH_DATA: Protocol version = 02, Token = 50fe, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1637870474, 'time': '2023-11-27T10:22:34.725780Z', 'tmms': 1385115773725, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -56, 'size': 24, 'data': 'QAAAAACEBgYDBwUHAr8e6OvAKdt389dE'}]}
0:47:16.577953	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0606, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 77f3d744)
0:47:16.578988	LOG	Server <---------- DUT
0:47:16.580952	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:47:16.581955	LOG	Command Answer: 03070507
0:47:16.637005	LOG	MAC command communication completed
0:47:16.640513	LOG	Send Test Command RxAppCntReq process starts
0:47:21.460647	LOG	First uplink received. Open reception window.
0:47:21.571557	LOG	PUSH_ACK: 02 6a70 01
0:47:21.573525	LOG	GPS Time from gateway: 1385115778724
0:47:21.574526	LOG	PUSH_DATA: Protocol version = 02, Token = 6a70, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1642869874, 'time': '2023-11-27T10:22:39.725178Z', 'tmms': 1385115778724, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -58, 'size': 22, 'data': 'QAAAAACCBwYFBwLeT8eZpmylWshhDQ=='}]}
0:47:21.575526	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0607, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 5ac8610d)
0:47:21.577032	LOG	Server <---------- DUT
0:47:21.579037	LOG	MAC Command RXParamSetupAns received
0:47:21.580037	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 030d, FOpts:), FPort: e0, FRMPayload: 09), MIC: f7b17bcb)
0:47:21.582072	LOG	Frame command sent to the DUT
0:47:21.583070	LOG	PULL_RESP: Protocol version = 02, Token = ae30, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1644869874, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAADQPgrfexe8s='}}
0:47:21.585038	LOG	Server ----------> DUT
0:47:21.590036	LOG	TX_ACK: 02 ae30 05 0016c001ff1025bf
0:47:22.843183	LOG	GPS Time updated: 1385115780107
0:47:22.844184	LOG	PULL_DATA: 02 789f 02 0016c001ff1025bf
0:47:22.846185	LOG	PULL_ACK: 02 789f 04
0:47:24.681558	LOG	First uplink received. Open reception window.
0:47:24.794260	LOG	PUSH_ACK: 02 6174 01
0:47:24.795765	LOG	GPS Time from gateway: 1385115781937
0:47:24.797771	LOG	PUSH_DATA: Protocol version = 02, Token = 6174, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1646082446, 'time': '2023-11-27T10:22:42.937751Z', 'tmms': 1385115781937, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -66, 'size': 16, 'data': 'QAAAAACACAbgCitoOEZD4A=='}]}
0:47:24.798777	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0608, FOpts:), FPort: e0, FRMPayload: 09b501, MIC: 384643e0)
0:47:24.799776	LOG	Server <---------- DUT
0:47:24.801776	LOG	Frame Command Payload in the Answer: 09b501
0:47:24.805777	LOG	RX Count received by DUT: 437
0:47:24.807808	LOG	Send Test Command RxAppCntReq process completed
0:47:24.810808	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts

0:47:31.465807	LOG	First uplink received. Open reception window.
0:47:31.568319	LOG	PUSH_ACK: 02 2e3f 01
0:47:31.570289	LOG	GPS Time from gateway: 1385115788723
0:47:31.571322	LOG	PUSH_DATA: Protocol version = 02, Token = 2e3f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1652868947, 'time': '2023-11-27T10:22:49.724251Z', 'tmms': 1385115788723, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -61, 'size': 20, 'data': 'QAAAAACACQYCKqBL3yjdEFouemQ='}]}
0:47:31.573290	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0609, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5a2e7a64)
0:47:31.574335	LOG	Server <---------- DUT
0:47:31.575330	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 030e, FOpts:), FPort: e0, FRMPayload: 0500), MIC: e4fc3d41)
0:47:31.577875	LOG	Frame command sent to the DUT
0:47:31.579872	LOG	PULL_RESP: Protocol version = 02, Token = 9b21, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1654868947, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAADgPgPzrk/D1B'}}
0:47:31.580910	LOG	Server ----------> DUT
0:47:31.583873	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:47:31.589875	LOG	Send Test Command TxFramesCtrlReq process starts
0:47:33.052618	LOG	GPS Time updated: 1385115790310
0:47:33.054644	LOG	PULL_DATA: 02 9692 02 0016c001ff1025bf
0:47:33.055586	LOG	PULL_ACK: 02 9692 04
0:47:36.461396	LOG	First uplink received. Open reception window.
0:47:36.571370	LOG	PUSH_ACK: 02 70d4 01
0:47:36.573368	LOG	GPS Time from gateway: 1385115793723
0:47:36.574370	LOG	PUSH_DATA: Protocol version = 02, Token = 70d4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1657868680, 'time': '2023-11-27T10:22:54.723983Z', 'tmms': 1385115793723, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -64, 'size': 20, 'data': 'QAAAAACACgYCV6W+UhnKxZdJ8ig='}]}
0:47:36.575373	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 060a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9749f228)
0:47:36.577892	LOG	Server <---------- DUT
0:47:36.579889	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 030f, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 4a42e0a9)
0:47:36.580887	LOG	Frame command sent to the DUT
0:47:36.582889	LOG	PULL_RESP: Protocol version = 02, Token = 544b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1658868680, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAADwPgZXxKQuCp'}}
0:47:36.583888	LOG	Server ----------> DUT
0:47:36.587888	LOG	Send Test Command TxFramesCtrlReq process completed
0:47:36.590888	LOG	Send Test Command TxFramesCtrlReq process starts
0:47:41.467768	LOG	First uplink received. Open reception window.
0:47:41.572866	LOG	PUSH_ACK: 02 1fc4 01
0:47:41.574831	LOG	GPS Time from gateway: 1385115798723
0:47:41.575830	LOG	PUSH_DATA: Protocol version = 02, Token = 1fc4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1662868421, 'time': '2023-11-27T10:22:59.723723Z', 'tmms': 1385115798723, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -61, 'size': 20, 'data': 'QAAAAACACwYC3O8Q8Kusl0PNkT8='}]}
0:47:41.577837	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 060b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 43cd913f)
0:47:41.578836	LOG	Server <---------- DUT

0:47:41.580837	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0310, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 08a42cce)
0:47:41.582836	LOG	Frame command sent to the DUT
0:47:41.583836	LOG	PULL_RESP: Protocol version = 02, Token = 6521, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1663868421, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAEAPgswsIpCzO'}}
0:47:41.584836	LOG	Server ----------> DUT
0:47:41.587836	LOG	Send Test Command TxFramesCtrlReq process completed
0:47:41.591845	LOG	Send Test Command TxFramesCtrlReq process starts
0:47:43.262853	LOG	GPS Time updated: 1385115800518
0:47:43.263869	LOG	PULL_DATA: 02 c026 02 0016c001ff1025bf
0:47:43.265865	LOG	PULL_ACK: 02 c026 04
0:47:46.464355	LOG	First uplink received. Open reception window.
0:47:46.574276	LOG	PUSH_ACK: 02 68f4 01
0:47:46.575243	LOG	GPS Time from gateway: 1385115803723
0:47:46.577753	LOG	PUSH_DATA: Protocol version = 02, Token = 68f4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1667868163, 'time': '2023-11-27T10:23:04.723464Z', 'tmms': 1385115803723, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -61, 'size': 20, 'data': 'QAAAAACADAYCeHTKFRMyI5Ho7MY='}]}
0:47:46.578753	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 060c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 91e8ecc6)
0:47:46.579753	LOG	Server <---------- DUT
0:47:46.581753	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0311, FOpts:), FPort: e0, FRMPayload: 0700), MIC: e5572a1a)
0:47:46.583753	LOG	Frame command sent to the DUT
0:47:46.584752	LOG	PULL_RESP: Protocol version = 02, Token = 053d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1668868163, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAEQPg6SvlVyoa'}}
0:47:46.585753	LOG	Server ----------> DUT
0:47:46.588753	LOG	Send Test Command TxFramesCtrlReq process completed
0:47:46.592786	LOG	Send Test Command TxFramesCtrlReq process starts
0:47:51.468130	LOG	First uplink received. Open reception window.
0:47:51.583250	LOG	PUSH_ACK: 02 1b8e 01
0:47:51.585218	LOG	GPS Time from gateway: 1385115808722
0:47:51.586217	LOG	PUSH_DATA: Protocol version = 02, Token = 1b8e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1672867914, 'time': '2023-11-27T10:23:09.723213Z', 'tmms': 1385115808722, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACADQYCpuRUPRKLIsIbaRc='}]}
0:47:51.588219	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 060d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c21b6917)
0:47:51.589217	LOG	Server <---------- DUT
0:47:51.591250	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0312, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 9b396cf6)
0:47:51.593252	LOG	Frame command sent to the DUT
0:47:51.595255	LOG	PULL_RESP: Protocol version = 02, Token = 4cdd, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1673867914, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAEgPgVEObOWz2'}}
0:47:51.596255	LOG	Server ----------> DUT
0:47:51.599256	LOG	Send Test Command TxFramesCtrlReq process completed
0:47:51.608255	LOG	Send Test Command TxFramesCtrlReq process starts
0:47:53.272929	LOG	GPS Time updated: 1385115810526

0:47:53.273917	LOG	PULL_DATA: 02 4210 02 0016c001ff1025bf
0:47:53.275918	LOG	PULL_ACK: 02 4210 04
0:47:56.466477	LOG	First uplink received. Open reception window.
0:47:56.578691	LOG	PUSH_ACK: 02 0357 01
0:47:56.580692	LOG	GPS Time from gateway: 1385115813722
0:47:56.581693	LOG	PUSH_DATA: Protocol version = 02, Token = 0357, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1677867647, 'time': '2023-11-27T10:23:14.722945Z', 'tmms': 1385115813722, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACADgYC753izlxrgLEXQ2U='}]}
0:47:56.583711	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 060e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b1174365)
0:47:56.584693	LOG	Server <-------------------- DUT
0:47:56.586693	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0313, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 93aa15ef)
0:47:56.588694	LOG	Frame command sent to the DUT
0:47:56.589693	LOG	PULL_RESP: Protocol version = 02, Token = 2b6a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1678867647, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'oAAAAAAAEwPgro3YM55h/D/3xuOuqhUlcRte2zOyHeLObI6Mm9c/NImniYcx1HVnSxsstrnReEynUxPoeg80q9xumW6IVqTR/xTGRQpC/m6pQod3I+5Zg0m0ZefMxzCQP2RPnyEKZQDwLWMzzV84XOvU5f6HGhxTswpvHEOwPTCnlnQrt44k9pSVrbkvi+bO8lFBMU5hwNFLgpmTmYpPNgpeilQU1ce1IkxcKRZOcWwARIWAYojgZMMT1yyr2ylyQxeOYzw5Zmeqs56mMFxsc09owNsBmoaU63nR52GqkOUMdMPLuDNWxR+WdJ4xG5gCKLztDngj07MS+v2TqhXv'}}
0:47:56.591692	LOG	Server --------------------> DUT
0:47:56.594695	LOG	Send Test Command TxFramesCtrlReq process completed
0:47:56.597696	LOG	Check previous uplink data rate process starts
0:47:56.601696	LOG	Uplink received with expected Data Rate
0:47:56.604697	LOG	Check ACK bit in next uplink process starts
0:47:57.902983	LOG	First uplink received. Open reception window.
0:47:58.014315	LOG	PUSH_ACK: 02 9b53 01
0:47:58.015892	LOG	GPS Time from gateway: 1385115815158
0:47:58.017859	LOG	PUSH_DATA: Protocol version = 02, Token = 9b53, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1679303616, 'time': '2023-11-27T10:23:16.158915Z', 'tmms': 1385115815158, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -76, 'size': 12, 'data': 'QAAAAACgDwaEL6yf'}]}
0:47:58.018890	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 060f, FOpts:), FPort: , FRMPayload: , MIC: 842fac9f)
0:47:58.019890	LOG	Server <-------------------- DUT
0:47:58.021858	LOG	ACK bit in FCtrl field is set
0:47:58.023889	LOG	Check ACK bit in next uplink tested successfully
0:47:58.028857	LOG	Send Test Command RxAppCntReq process starts
0:48:01.458770	LOG	First uplink received. Open reception window.
0:48:01.565051	LOG	PUSH_ACK: 02 55b0 01
0:48:01.567051	LOG	GPS Time from gateway: 1385115818722
0:48:01.568051	LOG	PUSH_DATA: Protocol version = 02, Token = 55b0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1682867396, 'time': '2023-11-27T10:23:19.722695Z',

		'tmms': 1385115818722, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -61, 'size': 20, 'data': 'QAAAAACAEAYCrGMvQXYxP+I8cwE='}]}
0:48:01.569051	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0610, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e23c7301)
0:48:01.571020	LOG	Server <---------- DUT
0:48:01.573055	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0314, FOpts:), FPort: e0, FRMPayload: 09), MIC: c18f7c0a)
0:48:01.574050	LOG	Frame command sent to the DUT
0:48:01.575051	LOG	PULL_RESP: Protocol version = 02, Token = 2bd1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1684867396, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAFAPgIcGPfAo='}}
0:48:01.577053	LOG	Server ----------> DUT
0:48:01.579134	LOG	TX_ACK: 02 2bd1 05 0016c001ff1025bf
0:48:03.462979	LOG	GPS Time updated: 1385115820726
0:48:03.464009	LOG	PULL_DATA: 02 4ac0 02 0016c001ff1025bf
0:48:03.465010	LOG	PULL_ACK: 02 4ac0 04
0:48:04.674746	LOG	First uplink received. Open reception window.
0:48:04.780206	LOG	PUSH_ACK: 02 20c2 01
0:48:04.782211	LOG	GPS Time from gateway: 1385115821934
0:48:04.783211	LOG	PUSH_DATA: Protocol version = 02, Token = 20c2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1686079859, 'time': '2023-11-27T10:23:22.935157Z', 'tmms': 1385115821934, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -66, 'size': 16, 'data': 'QAAAAACAEQbgnLLQpgSpXg==}]}
0:48:04.785210	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0611, FOpts:), FPort: e0, FRMPayload: 09bc01, MIC: a604a95e)
0:48:04.786251	LOG	Server <---------- DUT
0:48:04.788216	LOG	Frame Command Payload in the Answer: 09bc01
0:48:04.792216	LOG	RX Count received by DUT: 444
0:48:04.794214	LOG	Send Test Command RxAppCntReq process completed
0:48:04.801756	LOG	Send MAC command block process starts
0:48:11.467639	LOG	First uplink received. Open reception window.
0:48:11.582404	LOG	PUSH_ACK: 02 5f81 01
0:48:11.584371	LOG	GPS Time from gateway: 1385115828721
0:48:11.585371	LOG	PUSH_DATA: Protocol version = 02, Token = 5f81, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1692866878, 'time': '2023-11-27T10:23:29.722175Z', 'tmms': 1385115828721, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -61, 'size': 20, 'data': 'QAAAAACAEgYCrvnIqLRWqrHYEDw='}]}
0:48:11.587373	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0612, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b1d8103c)
0:48:11.589371	LOG	Server <---------- DUT
0:48:11.590370	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0315, FOpts:), FPort: 00, FRMPayload: 03701700010530d2ad84), MIC: eab2a7c0)
0:48:11.592413	LOG	PULL_RESP: Protocol version = 02, Token = cf52, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1694866878, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAFQMAdl5RQxGK3nGRe+qyp8A='}}
0:48:11.593452	LOG	Server ----------> DUT
0:48:11.596215	LOG	TX_ACK: 02 cf52 05 0016c001ff1025bf
0:48:13.482168	LOG	GPS Time updated: 1385115830736
0:48:13.484134	LOG	PULL_DATA: 02 378d 02 0016c001ff1025bf
0:48:13.486136	LOG	PULL_ACK: 02 378d 04

0:48:16.461790	LOG	First uplink received. Open reception window.
0:48:16.563894	LOG	PUSH_ACK: 02 c0cd 01
0:48:16.565862	LOG	GPS Time from gateway: 1385115833722
0:48:16.566862	LOG	PUSH_DATA: Protocol version = 02, Token = c0cd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1697867365, 'time': '2023-11-27T10:23:34.722661Z', 'tmms': 1385115833722, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -56, 'size': 24, 'data': 'QAAAAACEEwYDBwUHAvLhC8pC2TZESscR'}]}
0:48:16.568862	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0613, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 444ac711)
0:48:16.569896	LOG	Server <---------- DUT
0:48:16.572107	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:48:16.574076	LOG	Command Answer: 03070507
0:48:16.628937	LOG	MAC command communication completed
0:48:16.631938	LOG	Send Test Command RxAppCntReq process starts
0:48:21.461854	LOG	First uplink received. Open reception window.
0:48:21.566617	LOG	PUSH_ACK: 02 a23e 01
0:48:21.568585	LOG	GPS Time from gateway: 1385115838721
0:48:21.569620	LOG	PUSH_DATA: Protocol version = 02, Token = a23e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1702866775, 'time': '2023-11-27T10:23:39.722070Z', 'tmms': 1385115838721, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -58, 'size': 22, 'data': 'QAAAAACCFAYFBwLSzDVJAKKAV98yfA=='}]}
0:48:21.571586	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0614, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 57df327c)
0:48:21.572585	LOG	Server <---------- DUT
0:48:21.574156	LOG	MAC Command RXParamSetupAns received
0:48:21.576163	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0316, FOpts:), FPort: e0, FRMPayload: 09), MIC: 87aef975)
0:48:21.577665	LOG	Frame command sent to the DUT
0:48:21.578715	LOG	PULL_RESP: Protocol version = 02, Token = 7048, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1704866775, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAFgPgUoeu+XU='}}
0:48:21.580704	LOG	Server ----------> DUT
0:48:21.588705	LOG	TX_ACK: 02 7048 05 0016c001ff1025bf
0:48:23.682684	LOG	GPS Time updated: 1385115840943
0:48:23.683684	LOG	PULL_DATA: 02 f562 02 0016c001ff1025bf
0:48:23.685686	LOG	PULL_ACK: 02 f562 04
0:48:24.669061	LOG	First uplink received. Open reception window.
0:48:24.771600	LOG	PUSH_ACK: 02 645d 01
0:48:24.773615	LOG	GPS Time from gateway: 1385115841933
0:48:24.774569	LOG	PUSH_DATA: Protocol version = 02, Token = 645d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1706078945, 'time': '2023-11-27T10:23:42.934240Z', 'tmms': 1385115841933, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -66, 'size': 16, 'data': 'QAAAAACAFQbgsrFwpeZJEg=='}]}
0:48:24.775570	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0615, FOpts:), FPort: e0, FRMPayload: 09bd01, MIC: a5e64912)
0:48:24.777815	LOG	Server <---------- DUT
0:48:24.779781	LOG	Frame Command Payload in the Answer: 09bd01
0:48:24.783309	LOG	RX Count received by DUT: 445
0:48:24.785308	LOG	Send Test Command RxAppCntReq process completed
0:48:24.788319	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts

0:48:31.462903	LOG	First uplink received. Open reception window.
0:48:31.564505	LOG	PUSH_ACK: 02 56db 01
0:48:31.566509	LOG	GPS Time from gateway: 1385115848720
0:48:31.567507	LOG	PUSH_DATA: Protocol version = 02, Token = 56db, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1712865841, 'time': '2023-11-27T10:23:49.721135Z', 'tmms': 1385115848720, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -61, 'size': 20, 'data': 'QAAAAACAFgYCMC/u9JLfGaGeWPM='}]}
0:48:31.569515	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0616, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a19e58f3)
0:48:31.570506	LOG	Server <---------- DUT
0:48:31.572473	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0317, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 02a277b2)
0:48:31.573504	LOG	Frame command sent to the DUT
0:48:31.575509	LOG	PULL_RESP: Protocol version = 02, Token = 344e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1714865841, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAFwPg4OEConey'}}
0:48:31.575509	LOG	Server ----------> DUT
0:48:31.579089	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:48:31.585623	LOG	Send Test Command TxFramesCtrlReq process starts
0:48:33.892007	LOG	GPS Time updated: 1385115851150
0:48:33.894007	LOG	PULL_DATA: 02 bb71 02 0016c001ff1025bf
0:48:33.895010	LOG	PULL_ACK: 02 bb71 04
0:48:36.460457	LOG	First uplink received. Open reception window.
0:48:36.572996	LOG	PUSH_ACK: 02 69fd 01
0:48:36.575048	LOG	GPS Time from gateway: 1385115853720
0:48:36.575995	LOG	PUSH_DATA: Protocol version = 02, Token = 69fd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1717865574, 'time': '2023-11-27T10:23:54.720867Z', 'tmms': 1385115853720, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -61, 'size': 20, 'data': 'QAAAAACAFwYClQwAqWW31YyXxmo='}]}
0:48:36.578253	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0617, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8c97c66a)
0:48:36.579282	LOG	Server <---------- DUT
0:48:36.581282	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0318, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 4864907f)
0:48:36.582285	LOG	Frame command sent to the DUT
0:48:36.584282	LOG	PULL_RESP: Protocol version = 02, Token = 6233, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1718865574, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAGAPg3S1IZJB/'}}
0:48:36.585249	LOG	Server ----------> DUT
0:48:36.588756	LOG	Send Test Command TxFramesCtrlReq process completed
0:48:36.591756	LOG	Send Test Command TxFramesCtrlReq process starts
0:48:41.464492	LOG	First uplink received. Open reception window.
0:48:41.570910	LOG	PUSH_ACK: 02 816c 01
0:48:41.572907	LOG	GPS Time from gateway: 1385115858720
0:48:41.573875	LOG	PUSH_DATA: Protocol version = 02, Token = 816c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1722865314, 'time': '2023-11-27T10:23:59.720606Z', 'tmms': 1385115858720, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -61, 'size': 20, 'data': 'QAAAAACAGAYCJS6pcZs2LO6PxDY='}]}
0:48:41.575874	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0618, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ee8fc436)
0:48:41.577380	LOG	Server <---------- DUT

0:48:41.579386	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0319, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 63ac0136)
0:48:41.580419	LOG	Frame command sent to the DUT
0:48:41.582386	LOG	PULL_RESP: Protocol version = 02, Token = 40a1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1723865314, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAGQPgd35jrAE2'}}
0:48:41.583418	LOG	Server ----------> DUT
0:48:41.585422	LOG	Send Test Command TxFramesCtrlReq process completed
0:48:41.589421	LOG	Send Test Command TxFramesCtrlReq process starts
0:48:43.893007	LOG	GPS Time updated: 1385115861148
0:48:43.894007	LOG	PULL_DATA: 02 541d 02 0016c001ff1025bf
0:48:43.895269	LOG	PULL_ACK: 02 541d 04
0:48:46.459750	LOG	First uplink received. Open reception window.
0:48:46.573868	LOG	PUSH_ACK: 02 c0aa 01
0:48:46.575871	LOG	GPS Time from gateway: 1385115863719
0:48:46.578035	LOG	PUSH_DATA: Protocol version = 02, Token = c0aa, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1727865054, 'time': '2023-11-27T10:24:04.720345Z', 'tmms': 1385115863719, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -61, 'size': 20, 'data': 'QAAAAACAGQYCry4P14V6RSlMf+w='}]}
0:48:46.579032	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0619, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 294c7fec)
0:48:46.581032	LOG	Server <---------- DUT
0:48:46.582036	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 031a, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 4d506fb1)
0:48:46.584072	LOG	Frame command sent to the DUT
0:48:46.585069	LOG	PULL_RESP: Protocol version = 02, Token = 7960, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1728865054, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAGgPgvMJNUG+x'}}
0:48:46.587069	LOG	Server ----------> DUT
0:48:46.590037	LOG	Send Test Command TxFramesCtrlReq process completed
0:48:46.593039	LOG	Send Test Command TxFramesCtrlReq process starts
0:48:51.459363	LOG	First uplink received. Open reception window.
0:48:51.563415	LOG	PUSH_ACK: 02 6aed 01
0:48:51.565451	LOG	GPS Time from gateway: 1385115868719
0:48:51.566417	LOG	PUSH_DATA: Protocol version = 02, Token = 6aed, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1732864792, 'time': '2023-11-27T10:24:09.720082Z', 'tmms': 1385115868719, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -61, 'size': 20, 'data': 'QAAAAACAGgYCL6ZPbEpoTRsNnbc='}]}
0:48:51.568421	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 061a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1b0d9db7)
0:48:51.569417	LOG	Server <---------- DUT
0:48:51.571437	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 031b, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 409c7353)
0:48:51.573419	LOG	Frame command sent to the DUT
0:48:51.574456	LOG	PULL_RESP: Protocol version = 02, Token = b3d1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1733864792, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAGwPgVFRAnHNT'}}
0:48:51.575451	LOG	Server ----------> DUT
0:48:51.579027	LOG	Send Test Command TxFramesCtrlReq process completed
0:48:51.588621	LOG	Send Test Command TxFramesCtrlReq process starts
0:48:54.092539	LOG	GPS Time updated: 1385115871352

0:48:54.093539	LOG	PULL_DATA: 02 cdc9 02 0016c001ff1025bf
0:48:54.095547	LOG	PULL_ACK: 02 cdc9 04
0:48:56.457703	LOG	First uplink received. Open reception window.
0:48:56.562463	LOG	PUSH_ACK: 02 6e04 01
0:48:56.564466	LOG	GPS Time from gateway: 1385115873719
0:48:56.565466	LOG	PUSH_DATA: Protocol version = 02, Token = 6e04, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1737864540, 'time': '2023-11-27T10:24:14.719829Z', 'tmms': 1385115873719, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAGwYCgG4ROlB6Vjh4oGA='}]}
0:48:56.567473	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 061b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3878a060)
0:48:56.568431	LOG	Server <-------------------- DUT
0:48:56.570468	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 031c, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 4f45ba40)
0:48:56.572430	LOG	Frame command sent to the DUT
0:48:56.573429	LOG	PULL_RESP: Protocol version = 02, Token = 837f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1738864540, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'oAAAAAAAHAPgqPF/dQ82f3pPd9UjqN+hyCxEklEmG+BMTDga8uyY1ogRmaFaJqqaKmbLHcGhd/+Di908wSHQGlOgfQbgxj70CTmpwUKZYzfKJ7+BqP6S9Qm5mo8ZfnwiJOIO4MOI4aiKBzMCpCT8/gWButNEBmH6bqHdZA4f4p3DkvOFXMOvIPllr2ddhjdKlJt3VKiGajbFf/khw2CojLq8YOsN4bGnu3gi/4vcVy/v271hNoSH//jJl6uZysk8OYNGSmCNKhS6k5nPJxN3xfjFw5aAxVpAPym3dhIt2cwnkPKygB5FdqBYl2xxfnF12tQ5lFIhz+0N3ExPRbpA'}}
0:48:56.575429	LOG	Server --------------------> DUT
0:48:56.577979	LOG	Send Test Command TxFramesCtrlReq process completed
0:48:56.581011	LOG	Check previous uplink data rate process starts
0:48:56.584978	LOG	Uplink received with expected Data Rate
0:48:56.587977	LOG	Check ACK bit in next uplink process starts
0:48:58.200631	LOG	First uplink received. Open reception window.
0:48:58.309394	LOG	PUSH_ACK: 02 562e 01
0:48:58.311391	LOG	GPS Time from gateway: 1385115875458
0:48:58.312397	LOG	PUSH_DATA: Protocol version = 02, Token = 562e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1739604076, 'time': '2023-11-27T10:24:16.459365Z', 'tmms': 1385115875458, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -74, 'size': 12, 'data': 'QAAAAACgHAYs1IgF'}]}
0:48:58.313395	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 061c, FOpts:), FPort: , FRMPayload: , MIC: 2cd48805)
0:48:58.315400	LOG	Server <-------------------- DUT
0:48:58.316404	LOG	ACK bit in FCtrl field is set
0:48:58.319326	LOG	Check ACK bit in next uplink tested successfully
0:48:58.323652	LOG	Send Test Command RxAppCntReq process starts
0:49:01.454685	LOG	First uplink received. Open reception window.
0:49:01.564650	LOG	PUSH_ACK: 02 d176 01
0:49:01.566618	LOG	GPS Time from gateway: 1385115878719
0:49:01.567617	LOG	PUSH_DATA: Protocol version = 02, Token = d176, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1742864283, 'time': '2023-11-27T10:24:19.719570Z',

		'tmms': 1385115878719, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAHQYCsf92jfSYv1p51RU='}]}
0:49:01.568618	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 061d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5a79d515)
0:49:01.570617	LOG	Server <---------- DUT
0:49:01.572625	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 031d, FOpts:), FPort: e0, FRMPayload: 09), MIC: dbfc52fd)
0:49:01.573657	LOG	Frame command sent to the DUT
0:49:01.575623	LOG	PULL_RESP: Protocol version = 02, Token = 7069, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1744864283, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAHQPgN9v8Uv0='}}
0:49:01.575623	LOG	Server ----------> DUT
0:49:01.579165	LOG	TX_ACK: 02 7069 05 0016c001ff1025bf
0:49:04.302119	LOG	GPS Time updated: 1385115881567
0:49:04.304088	LOG	PULL_DATA: 02 5f73 02 0016c001ff1025bf
0:49:04.305088	LOG	PULL_ACK: 02 5f73 04
0:49:04.674935	LOG	First uplink received. Open reception window.
0:49:04.790026	LOG	PUSH_ACK: 02 b454 01
0:49:04.791994	LOG	GPS Time from gateway: 1385115881931
0:49:04.792994	LOG	PUSH_DATA: Protocol version = 02, Token = b454, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1746076206, 'time': '2023-11-27T10:24:22.931494Z', 'tmms': 1385115881931, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -66, 'size': 16, 'data': 'QAAAAACAHgbg5huoBti8cw==']}
0:49:04.794996	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 061e, FOpts:), FPort: e0, FRMPayload: 09c401, MIC: 06d8bc73)
0:49:04.795994	LOG	Server <---------- DUT
0:49:04.798160	LOG	Frame Command Payload in the Answer: 09c401
0:49:04.802128	LOG	RX Count received by DUT: 452
0:49:04.804128	LOG	Send Test Command RxAppCntReq process completed
0:49:04.811126	LOG	Send MAC command block process starts
0:49:11.463518	LOG	First uplink received. Open reception window.
0:49:11.574878	LOG	PUSH_ACK: 02 d519 01
0:49:11.575878	LOG	GPS Time from gateway: 1385115888718
0:49:11.578432	LOG	PUSH_DATA: Protocol version = 02, Token = d519, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1752863759, 'time': '2023-11-27T10:24:29.719046Z', 'tmms': 1385115888718, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -61, 'size': 20, 'data': 'QAAAAACAHwYCWgFCFt2o97PLu3c='}]}
0:49:11.579434	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 061f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b3cbbb77)
0:49:11.581468	LOG	Server <---------- DUT
0:49:11.583433	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 031e, FOpts:), FPort: 00, FRMPayload: 03701700010540d2ad84), MIC: 1c271145)
0:49:11.584465	LOG	PULL_RESP: Protocol version = 02, Token = b3a0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1754863759, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAHgMAPpnnuODf4df+cxwnEUU='}}
0:49:11.585464	LOG	Server ----------> DUT
0:49:11.588609	LOG	TX_ACK: 02 b3a0 05 0016c001ff1025bf
0:49:14.311822	LOG	GPS Time updated: 1385115891567
0:49:14.313823	LOG	PULL_DATA: 02 b12b 02 0016c001ff1025bf
0:49:14.314824	LOG	PULL_ACK: 02 b12b 04

0:49:16.666045	LOG	First uplink received. Open reception window.
0:49:16.774020	LOG	PUSH_ACK: 02 f46d 01
0:49:16.775988	LOG	GPS Time from gateway: 1385115893927
0:49:16.776988	LOG	PUSH_DATA: Protocol version = 02, Token = f46d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1758072652, 'time': '2023-11-27T10:24:34.927938Z', 'tmms': 1385115893927, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -56, 'size': 24, 'data': 'QAAAAACEIAYDBwUHAlqCg5eGhrLa3AHk'}]}
0:49:16.778989	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0620, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: dadc01e4)
0:49:16.779988	LOG	Server <---------- DUT
0:49:16.781993	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:49:16.782994	LOG	Command Answer: 03070507
0:49:16.841062	LOG	MAC command communication completed
0:49:16.844501	LOG	Send Test Command RxAppCntReq process starts
0:49:20.815955	LOG	#**********CURRENT BEACON SENT**********#
0:49:20.817923	LOG	PULL_RESP: Protocol version = 02, Token = 2e96, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385115904000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAMY9ShIMAAAAAAAAAAAA='}}
0:49:20.818921	LOG	Server ----------> DUT
0:49:20.820924	LOG	#**********#
0:49:20.830477	LOG	#**********NEXT BEACON QUEUED**********#
0:49:20.831988	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385116032000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAMY9SvF4AAAAAAAAAAAA='}}
0:49:20.833019	LOG	Server ----------> DUT
0:49:20.834020	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 80318f52, CRC1: bc5e, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385116032000
0:49:20.836022	LOG	#**********#
0:49:20.837018	LOG	Next BEACON scheduled at GPS time (ms): 1385116160000
0:49:20.838018	LOG	TX_ACK: 02 2e96 05 0016c001ff1025bf
0:49:21.462094	LOG	First uplink received. Open reception window.
0:49:21.574678	LOG	PUSH_ACK: 02 6a1e 01
0:49:21.575646	LOG	GPS Time from gateway: 1385115898718
0:49:21.578157	LOG	PUSH_DATA: Protocol version = 02, Token = 6a1e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1762863667, 'time': '2023-11-27T10:24:39.718952Z', 'tmms': 1385115898718, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -58, 'size': 22, 'data': 'QAAAAACCIQYFBwLaP9B4XwNVReawkQ=='}]}
0:49:21.579156	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0621, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 45e6b091)
0:49:21.580155	LOG	Server <---------- DUT
0:49:21.582156	LOG	MAC Command RXParamSetupAns received
0:49:21.583155	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 031f, FOpts:), FPort: e0, FRMPayload: 09), MIC: ea5d47fe)
0:49:21.585156	LOG	Frame command sent to the DUT

0:49:21.586156	LOG	PULL_RESP: Protocol version = 02, Token = 408a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1764863667, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAHwPgF+pdR/4='}}
0:49:21.588163	LOG	Server ----------> DUT
0:49:21.590159	LOG	TX_ACK: 02 408a 05 0016c001ff1025bf
0:49:24.522160	LOG	GPS Time updated: 1385115901779
0:49:24.523160	LOG	PULL_DATA: 02 cabf 02 0016c001ff1025bf
0:49:24.525199	LOG	PULL_ACK: 02 cabf 04
0:49:24.677140	LOG	First uplink received. Open reception window.
0:49:24.780415	LOG	PUSH_ACK: 02 3b8a 01
0:49:24.782449	LOG	GPS Time from gateway: 1385115901931
0:49:24.783428	LOG	PUSH_DATA: Protocol version = 02, Token = 3b8a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1766076423, 'time': '2023-11-27T10:24:42.931708Z', 'tmms': 1385115901931, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -66, 'size': 16, 'data': 'QAAAAACAIgbgvFcf7td5FQ==']}
0:49:24.785419	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0622, FOpts:), FPort: e0, FRMPayload: 09c501, MIC: eed77915)
0:49:24.786425	LOG	Server <---------- DUT
0:49:24.788425	LOG	Frame Command Payload in the Answer: 09c501
0:49:24.792460	LOG	RX Count received by DUT: 453
0:49:24.794425	LOG	Send Test Command RxAppCntReq process completed
0:49:24.797934	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:49:31.458596	LOG	First uplink received. Open reception window.
0:49:31.565897	LOG	PUSH_ACK: 02 6908 01
0:49:31.567863	LOG	GPS Time from gateway: 1385115908717
0:49:31.568864	LOG	PUSH_DATA: Protocol version = 02, Token = 6908, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1772862729, 'time': '2023-11-27T10:24:49.718011Z', 'tmms': 1385115908717, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -61, 'size': 20, 'data': 'QAAAAACAIwYCgNjSBUiLNph/kvw='}]}
0:49:31.570864	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0623, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 987f92fc)
0:49:31.571869	LOG	Server <---------- DUT
0:49:31.573904	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0320, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 123702f8)
0:49:31.575906	LOG	Frame command sent to the DUT
0:49:31.577450	LOG	PULL_RESP: Protocol version = 02, Token = b9d6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1774862729, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAIAPg8isSNwL4'}}
0:49:31.578457	LOG	Server ----------> DUT
0:49:31.581489	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:49:31.587490	LOG	Send Test Command TxFramesCtrlReq process starts
0:49:34.722225	LOG	GPS Time updated: 1385115911981
0:49:34.723225	LOG	PULL_DATA: 02 94d3 02 0016c001ff1025bf
0:49:34.725226	LOG	PULL_ACK: 02 94d3 04
0:49:36.453066	LOG	First uplink received. Open reception window.
0:49:36.564598	LOG	PUSH_ACK: 02 f561 01
0:49:36.566599	LOG	GPS Time from gateway: 1385115913717
0:49:36.567601	LOG	PUSH_DATA: Protocol version = 02, Token = f561, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1777862471, 'time': '2023-11-27T10:24:54.717754Z', 'tmms': 1385115913717, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAJAYC2YYdb96/07H1Ygw='}]}

0:49:36.569603	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0624, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b1f5620c)
0:49:36.570633	LOG	Server <---------- DUT
0:49:36.572634	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0321, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 61aa2d4d)
0:49:36.573634	LOG	Frame command sent to the DUT
0:49:36.575635	LOG	PULL_RESP: Protocol version = 02, Token = d5af, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1778862471, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAIQPgky5hqi1N'}}
0:49:36.575635	LOG	Server ----------> DUT
0:49:36.580144	LOG	Send Test Command TxFramesCtrlReq process completed
0:49:36.583144	LOG	Send Test Command TxFramesCtrlReq process starts
0:49:41.458093	LOG	First uplink received. Open reception window.
0:49:41.566297	LOG	PUSH_ACK: 02 9c63 01
0:49:41.568297	LOG	GPS Time from gateway: 1385115918717
0:49:41.569300	LOG	PUSH_DATA: Protocol version = 02, Token = 9c63, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1782862203, 'time': '2023-11-27T10:24:59.717485Z', 'tmms': 1385115918717, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -61, 'size': 20, 'data': 'QAAAAACAJQYCan4HdW+3jEQtujQ='}]}
0:49:41.571266	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0625, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 442dba34)
0:49:41.572292	LOG	Server <---------- DUT
0:49:41.574298	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0322, FOpts:), FPort: e0, FRMPayload: 0700), MIC: acd5c3bc)
0:49:41.576310	LOG	Frame command sent to the DUT
0:49:41.577300	LOG	PULL_RESP: Protocol version = 02, Token = 0dd7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1783862203, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAIgPgEEys1cO8'}}
0:49:41.579390	LOG	Server ----------> DUT
0:49:41.582392	LOG	Send Test Command TxFramesCtrlReq process completed
0:49:41.585427	LOG	Send Test Command TxFramesCtrlReq process starts
0:49:44.932275	LOG	GPS Time updated: 1385115922192
0:49:44.933275	LOG	PULL_DATA: 02 65f2 02 0016c001ff1025bf
0:49:44.935276	LOG	PULL_ACK: 02 65f2 04
0:49:46.454450	LOG	First uplink received. Open reception window.
0:49:46.563652	LOG	PUSH_ACK: 02 9137 01
0:49:46.565652	LOG	GPS Time from gateway: 1385115923716
0:49:46.566653	LOG	PUSH_DATA: Protocol version = 02, Token = 9137, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1787861941, 'time': '2023-11-27T10:25:04.717222Z', 'tmms': 1385115923716, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAJgYCp5b2xmUqwq4IrP8='}]}
0:49:46.568656	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0626, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ae08acff)
0:49:46.569653	LOG	Server <---------- DUT
0:49:46.571686	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0323, FOpts:), FPort: e0, FRMPayload: 0700), MIC: a4537ae3)
0:49:46.573686	LOG	Frame command sent to the DUT
0:49:46.574685	LOG	PULL_RESP: Protocol version = 02, Token = 1963, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1788861941, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAIwPgWyykU3rj'}}
0:49:46.575686	LOG	Server ----------> DUT

0:49:46.579229	LOG	Send Test Command TxFramesCtrlReq process completed
0:49:46.582227	LOG	Send Test Command TxFramesCtrlReq process starts
0:49:51.455395	LOG	First uplink received. Open reception window.
0:49:51.562503	LOG	PUSH_ACK: 02 aa1d 01
0:49:51.564466	LOG	GPS Time from gateway: 1385115928716
0:49:51.565465	LOG	PUSH_DATA: Protocol version = 02, Token = aa1d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1792861685, 'time': '2023-11-27T10:25:09.716965Z', 'tmms': 1385115928716, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -61, 'size': 20, 'data': 'QAAAAACAJwYCuB2VXZHrO2g7nzU='}]}
0:49:51.567467	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0627, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 683b9f35)
0:49:51.569471	LOG	Server <-------------------- DUT
0:49:51.571507	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0324, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 312c479f)
0:49:51.572503	LOG	Frame command sent to the DUT
0:49:51.574472	LOG	PULL_RESP: Protocol version = 02, Token = 5896, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1793861685, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAJAPgdHUxLEef'}}
0:49:51.575470	LOG	Server --------------------> DUT
0:49:51.578981	LOG	Send Test Command TxFramesCtrlReq process completed
0:49:51.587982	LOG	Send Test Command TxFramesCtrlReq process starts
0:49:55.142156	LOG	GPS Time updated: 1385115932403
0:49:55.143153	LOG	PULL_DATA: 02 4480 02 0016c001ff1025bf
0:49:55.145154	LOG	PULL_ACK: 02 4480 04
0:49:56.459373	LOG	First uplink received. Open reception window.
0:49:56.568143	LOG	PUSH_ACK: 02 36f6 01
0:49:56.570178	LOG	GPS Time from gateway: 1385115933716
0:49:56.571144	LOG	PUSH_DATA: Protocol version = 02, Token = 36f6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1797861435, 'time': '2023-11-27T10:25:14.716714Z', 'tmms': 1385115933716, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -61, 'size': 20, 'data': 'QAAAAACAKAYCVHg4XwhGccVCSHI='}]}
0:49:56.573144	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0628, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c5424872)
0:49:56.574148	LOG	Server <-------------------- DUT
0:49:56.576149	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0325, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 37a730f6)
0:49:56.577183	LOG	Frame command sent to the DUT
0:49:56.579287	LOG	PULL_RESP: Protocol version = 02, Token = ed1e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1798861435, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'oAAAAAAAJQPg2uRtKCxChq5zM45ASLIj72fn1jTXILmvjjK5CKeDjwWa8fgYnwqlWclekl9KV5pQMwUNkSTca9KusmQCbAVsW3PR+6qjX8Ko5QrP/gq54ZotoxYh8nWg+sTFMNseA2WdZWpdTv2DJBwnzBbBmfvw+pehnDenMPY='}}
0:49:56.580287	LOG	Server --------------------> DUT
0:49:56.583294	LOG	Send Test Command TxFramesCtrlReq process completed
0:49:56.586287	LOG	Check previous uplink data rate process starts
0:49:56.591287	LOG	Uplink received with expected Data Rate
0:49:56.593287	LOG	Check ACK bit in next uplink process starts

0:49:58.170056	LOG	First uplink received. Open reception window.
0:49:58.274471	LOG	PUSH_ACK: 02 ab2a 01
0:49:58.276441	LOG	GPS Time from gateway: 1385115935428
0:49:58.277439	LOG	PUSH_DATA: Protocol version = 02, Token = ab2a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1799574051, 'time': '2023-11-27T10:25:16.429330Z', 'tmms': 1385115935428, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -74, 'size': 12, 'data': 'QAAAAACgKQYqI14G'}]}
0:49:58.279447	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 0629, FOpts:), FPort: , FRMPayload: , MIC: 2a235e06)
0:49:58.280478	LOG	Server <---------- DUT
0:49:58.282481	LOG	ACK bit in FCtrl field is set
0:49:58.286197	LOG	Check ACK bit in next uplink tested successfully
0:49:58.295052	LOG	Send Test Command RxAppCntReq process starts
0:50:01.457473	LOG	First uplink received. Open reception window.
0:50:01.568074	LOG	PUSH_ACK: 02 6348 01
0:50:01.569040	LOG	GPS Time from gateway: 1385115938715
0:50:01.571551	LOG	PUSH_DATA: Protocol version = 02, Token = 6348, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1802861169, 'time': '2023-11-27T10:25:19.716447Z', 'tmms': 1385115938715, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -61, 'size': 20, 'data': 'QAAAAACAKgYCiP9xM8cGt/6gr+M='}]}
0:50:01.572552	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 062a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fea0afe3)
0:50:01.573597	LOG	Server <---------- DUT
0:50:01.575592	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0326, FOpts:), FPort: e0, FRMPayload: 09), MIC: 3e710855)
0:50:01.577131	LOG	Frame command sent to the DUT
0:50:01.579138	LOG	PULL_RESP: Protocol version = 02, Token = 8d54, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1804861169, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAJgPguz5xCFU='}}
0:50:01.580172	LOG	Server ----------> DUT
0:50:01.583169	LOG	TX_ACK: 02 8d54 05 0016c001ff1025bf
0:50:04.667037	LOG	First uplink received. Open reception window.
0:50:04.775661	LOG	PUSH_ACK: 02 87cd 01
0:50:04.777661	LOG	GPS Time from gateway: 1385115941927
0:50:04.778662	LOG	PUSH_DATA: Protocol version = 02, Token = 87cd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1806072998, 'time': '2023-11-27T10:25:22.928276Z', 'tmms': 1385115941927, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -68, 'size': 16, 'data': 'QAAAAACAKwbgHS0ITAk7Jg=='}]}
0:50:04.779662	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 062b, FOpts:), FPort: e0, FRMPayload: 09cc01, MIC: 4c093b26)
0:50:04.781666	LOG	Server <---------- DUT
0:50:04.782702	LOG	Frame Command Payload in the Answer: 09cc01
0:50:04.786728	LOG	RX Count received by DUT: 460
0:50:04.789669	LOG	Send Test Command RxAppCntReq process completed
0:50:04.796239	LOG	Send MAC command block process starts
0:50:05.151712	LOG	GPS Time updated: 1385115942412
0:50:05.153711	LOG	PULL_DATA: 02 6651 02 0016c001ff1025bf
0:50:05.154712	LOG	PULL_ACK: 02 6651 04
0:50:11.456495	LOG	First uplink received. Open reception window.
0:50:11.568614	LOG	PUSH_ACK: 02 8ca1 01
0:50:11.570613	LOG	GPS Time from gateway: 1385115948715
0:50:11.571612	LOG	PUSH_DATA: Protocol version = 02, Token = 8ca1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1812860659, 'time': '2023-11-27T10:25:29.715936Z',

		'tmms': 1385115948715, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -61, 'size': 20, 'data': 'QAAAAACALAYCgCCmUErgDW0WUY4='}]}
0:50:11.573613	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 062c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6d16518e)
0:50:11.575652	LOG	Server <---------- DUT
0:50:11.577190	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0327, FOpts:), FPort: 00, FRMPayload: 03701700010550d2ad84), MIC: 5753143f)
0:50:11.579236	LOG	PULL_RESP: Protocol version = 02, Token = 1d4b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1814860659, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAJwMAgALPSnp+5jU091dTFD8='}}
0:50:11.579775	LOG	Server ----------> DUT
0:50:11.583818	LOG	TX_ACK: 02 1d4b 05 0016c001ff1025bf
0:50:15.361626	LOG	GPS Time updated: 1385115952620
0:50:15.363625	LOG	PULL_DATA: 02 dbf5 02 0016c001ff1025bf
0:50:15.364621	LOG	PULL_ACK: 02 dbf5 04
0:50:16.707433	LOG	First uplink received. Open reception window.
0:50:16.814020	LOG	PUSH_ACK: 02 a970 01
0:50:16.816020	LOG	GPS Time from gateway: 1385115953970
0:50:16.817022	LOG	PUSH_DATA: Protocol version = 02, Token = a970, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1818115812, 'time': '2023-11-27T10:25:34.971088Z', 'tmms': 1385115953970, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -57, 'size': 24, 'data': 'QAAAAACELQYDBwUHAv4lEA2cO1kvhMlc'}]}
0:50:16.819022	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 062d, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 2f84c95c)
0:50:16.821027	LOG	Server <---------- DUT
0:50:16.822026	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:50:16.824027	LOG	Command Answer: 03070507
0:50:16.879519	LOG	MAC command communication completed
0:50:16.882519	LOG	Send Test Command RxAppCntReq process starts
0:50:21.489545	LOG	First uplink received. Open reception window.
0:50:21.602411	LOG	PUSH_ACK: 02 d164 01
0:50:21.604375	LOG	GPS Time from gateway: 1385115958752
0:50:21.605375	LOG	PUSH_DATA: Protocol version = 02, Token = d164, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1822897657, 'time': '2023-11-27T10:25:39.752932Z', 'tmms': 1385115958752, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -59, 'size': 22, 'data': 'QAAAAACCLgYFBwIutExtqjcH9vKE8w=='}]}
0:50:21.606375	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 062e, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: f6f284f3)
0:50:21.608380	LOG	Server <---------- DUT
0:50:21.610386	LOG	MAC Command RXParamSetupAns received
0:50:21.611385	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0328, FOpts:), FPort: e0, FRMPayload: 09), MIC: 7eefa2bd)
0:50:21.613386	LOG	Frame command sent to the DUT
0:50:21.614385	LOG	PULL_RESP: Protocol version = 02, Token = d258, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1824897657, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAKAPgZ37vor0='}}
0:50:21.615386	LOG	Server ----------> DUT
0:50:21.618385	LOG	TX_ACK: 02 d258 05 0016c001ff1025bf

0:50:24.708632	LOG	First uplink received. Open reception window.
0:50:24.822688	LOG	PUSH_ACK: 02 0137 01
0:50:24.824689	LOG	GPS Time from gateway: 1385115961964
0:50:24.825656	LOG	PUSH_DATA: Protocol version = 02, Token = 0137, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1826110021, 'time': '2023-11-27T10:25:42.965294Z', 'tmms': 1385115961964, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -69, 'size': 16, 'data': 'QAAAAACALwbgqtEEHMlQEg==\'}]}
0:50:24.827161	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 062f, FOpts:), FPort: e0, FRMPayload: 09cd01, MIC: 1cc95012)
0:50:24.828166	LOG	Server <---------- DUT
0:50:24.830201	LOG	Frame Command Payload in the Answer: 09cd01
0:50:24.834184	LOG	RX Count received by DUT: 461
0:50:24.836184	LOG	Send Test Command RxAppCntReq process completed
0:50:24.839218	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:50:25.391976	LOG	GPS Time updated: 1385115962648
0:50:25.393481	LOG	PULL_DATA: 02 5792 02 0016c001ff1025bf
0:50:25.394483	LOG	PULL_ACK: 02 5792 04
0:50:31.487395	LOG	First uplink received. Open reception window.
0:50:31.603202	LOG	PUSH_ACK: 02 6ebf 01
0:50:31.605170	LOG	GPS Time from gateway: 1385115968751
0:50:31.606170	LOG	PUSH_DATA: Protocol version = 02, Token = 6ebf, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1832896718, 'time': '2023-11-27T10:25:49.751991Z', 'tmms': 1385115968751, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACAMAYCn4agguWZkEoWtyM=\'}]}
0:50:31.607169	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0630, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4a16b723)
0:50:31.609685	LOG	Server <---------- DUT
0:50:31.611718	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0329, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 22769f9e)
0:50:31.613715	LOG	Frame command sent to the DUT
0:50:31.614715	LOG	PULL_RESP: Protocol version = 02, Token = 1854, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1834896718, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAKQPg7oUidp+e'}}
0:50:31.615716	LOG	Server ----------> DUT
0:50:31.618684	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:50:31.624682	LOG	Send Test Command TxFramesCtrlReq process starts
0:50:35.601997	LOG	GPS Time updated: 1385115972865
0:50:35.603507	LOG	PULL_DATA: 02 8318 02 0016c001ff1025bf
0:50:35.604512	LOG	PULL_ACK: 02 8318 04
0:50:36.489498	LOG	First uplink received. Open reception window.
0:50:36.594417	LOG	PUSH_ACK: 02 dcc7 01
0:50:36.596384	LOG	GPS Time from gateway: 1385115973751
0:50:36.597383	LOG	PUSH_DATA: Protocol version = 02, Token = dcc7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1837896462, 'time': '2023-11-27T10:25:54.751733Z', 'tmms': 1385115973751, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAMQYCRqnAzB0qdfBB6fY=\'}]}
0:50:36.599384	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0631, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f041e9f6)
0:50:36.601384	LOG	Server <---------- DUT
0:50:36.602384	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 032a, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 060c0876)
0:50:36.603887	LOG	Frame command sent to the DUT

0:50:36.605892	LOG	PULL_RESP: Protocol version = 02, Token = 4c0e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1838896462, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAKgPgmjsGDAh2'}}
0:50:36.606892	LOG	Server ----------> DUT
0:50:36.610069	LOG	Send Test Command TxFramesCtrlReq process completed
0:50:36.614067	LOG	Send Test Command TxFramesCtrlReq process starts
0:50:41.492509	LOG	First uplink received. Open reception window.
0:50:41.603854	LOG	PUSH_ACK: 02 9812 01
0:50:41.605819	LOG	GPS Time from gateway: 1385115978750
0:50:41.606820	LOG	PUSH_DATA: Protocol version = 02, Token = 9812, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1842896205, 'time': '2023-11-27T10:25:59.751477Z', 'tmms': 1385115978750, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAMgYCWbsHajTZMSFyx9M='}]}
0:50:41.608820	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0632, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2172c7d3)
0:50:41.610362	LOG	Server <---------- DUT
0:50:41.612407	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 032b, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 00fd4a76)
0:50:41.613400	LOG	Frame command sent to the DUT
0:50:41.615398	LOG	PULL_RESP: Protocol version = 02, Token = 376f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1843896205, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAKwPg4wkA/Up2'}}
0:50:41.616396	LOG	Server ----------> DUT
0:50:41.619362	LOG	Send Test Command TxFramesCtrlReq process completed
0:50:41.622363	LOG	Send Test Command TxFramesCtrlReq process starts
0:50:45.811341	LOG	GPS Time updated: 1385115983069
0:50:45.813309	LOG	PULL_DATA: 02 bd44 02 0016c001ff1025bf
0:50:45.814817	LOG	PULL_ACK: 02 bd44 04
0:50:46.487553	LOG	First uplink received. Open reception window.
0:50:46.602401	LOG	PUSH_ACK: 02 3c20 01
0:50:46.604364	LOG	GPS Time from gateway: 1385115983750
0:50:46.605366	LOG	PUSH_DATA: Protocol version = 02, Token = 3c20, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1847895952, 'time': '2023-11-27T10:26:04.751223Z', 'tmms': 1385115983750, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAMwYCLow8mTNBP/ctHcE='}]}
0:50:46.607369	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0633, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f72d1dc1)
0:50:46.608875	LOG	Server <---------- DUT
0:50:46.610885	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 032c, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 129fd479)
0:50:46.611915	LOG	Frame command sent to the DUT
0:50:46.613455	LOG	PULL_RESP: Protocol version = 02, Token = beb4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1848895952, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAALAPgqWMSn9R5'}}
0:50:46.615496	LOG	Server ----------> DUT
0:50:46.617489	LOG	Send Test Command TxFramesCtrlReq process completed
0:50:46.621461	LOG	Send Test Command TxFramesCtrlReq process starts
0:50:51.494658	LOG	First uplink received. Open reception window.
0:50:51.609888	LOG	PUSH_ACK: 02 eef2 01
0:50:51.611922	LOG	GPS Time from gateway: 1385115988751

0:50:51.612924	LOG	PUSH_DATA: Protocol version = 02, Token = eef2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1852895689, 'time': '2023-11-27T10:26:09.750959Z', 'tmms': 1385115988751, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -61, 'size': 20, 'data': 'QAAAAACANAYCAVNTzafhJp6w1UE='}]}
0:50:51.614891	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0634, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9eb0d541)
0:50:51.615887	LOG	Server <---------- DUT
0:50:51.617887	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 032d, FOpts:), FPort: e0, FRMPayload: 0700), MIC: f7573dc0)
0:50:51.619391	LOG	Frame command sent to the DUT
0:50:51.621394	LOG	PULL_RESP: Protocol version = 02, Token = ebf6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1853895689, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAALQPgRW33Vz3A'}}
0:50:51.622394	LOG	Server ----------> DUT
0:50:51.624394	LOG	Send Test Command TxFramesCtrlReq process completed
0:50:51.634399	LOG	Send Test Command TxFramesCtrlReq process starts
0:50:55.821564	LOG	GPS Time updated: 1385115993078
0:50:55.822533	LOG	PULL_DATA: 02 157a 02 0016c001ff1025bf
0:50:55.825076	LOG	PULL_ACK: 02 157a 04
0:50:56.490592	LOG	First uplink received. Open reception window.
0:50:56.593828	LOG	PUSH_ACK: 02 93f1 01
0:50:56.595869	LOG	GPS Time from gateway: 1385115993751
0:50:56.596866	LOG	PUSH_DATA: Protocol version = 02, Token = 93f1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1857895424, 'time': '2023-11-27T10:26:14.750693Z', 'tmms': 1385115993751, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -61, 'size': 20, 'data': 'QAAAAACANQYCqhCtTVPBvopEbKU='}]}
0:50:56.598833	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0635, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8a446ca5)
0:50:56.599840	LOG	Server <---------- DUT
0:50:56.601840	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 032e, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: d93ebe41)
0:50:56.603840	LOG	Frame command sent to the DUT
0:50:56.604871	LOG	PULL_RESP: Protocol version = 02, Token = 1ee4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1858895424, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'oAAAAAAALgPgBWLwOusnO/sxpErVDz4lWrLUftFY6bOQNaFTXOrF6Q25+wXSP7AIo4JVhB+rMnhXmADW2T6+QQ=='}}
0:50:56.606840	LOG	Server ----------> DUT
0:50:56.609345	LOG	Send Test Command TxFramesCtrlReq process completed
0:50:56.612351	LOG	Check previous uplink data rate process starts
0:50:56.616350	LOG	Uplink received with expected Data Rate
0:50:56.619394	LOG	Check ACK bit in next uplink process starts
0:50:58.223500	LOG	First uplink received. Open reception window.
0:50:58.337630	LOG	PUSH_ACK: 02 703c 01
0:50:58.339298	LOG	GPS Time from gateway: 1385115995485
0:50:58.340923	LOG	PUSH_DATA: Protocol version = 02, Token = 703c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1859629294, 'time': '2023-11-27T10:26:16.484563Z', 'tmms': 1385115995485, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -76, 'size': 12, 'data': 'QAAAAACgNgZphor7'}]}

0:50:58.342570	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: a0, FCnt: 0636, FOpts:), FPort: , FRMPayload: , MIC: 69868afb)
0:50:58.343578	LOG	Server <---------- DUT
0:50:58.345585	LOG	ACK bit in FCtrl field is set
0:50:58.347616	LOG	Check ACK bit in next uplink tested successfully
0:50:58.352324	LOG	Send Test Command RxAppCntReq process starts
0:51:01.494696	LOG	First uplink received. Open reception window.
0:51:01.608728	LOG	PUSH_ACK: 02 6138 01
0:51:01.610237	LOG	GPS Time from gateway: 1385115998750
0:51:01.612238	LOG	PUSH_DATA: Protocol version = 02, Token = 6138, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1862895167, 'time': '2023-11-27T10:26:19.750435Z', 'tmms': 1385115998750, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACANwYCtUKBxAhKAcDWJto='}]}
0:51:01.613244	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0637, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c0d626da)
0:51:01.614243	LOG	Server <---------- DUT
0:51:01.616243	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 032f, FOpts:), FPort: e0, FRMPayload: 09), MIC: 07edcb34)
0:51:01.618243	LOG	Frame command sent to the DUT
0:51:01.619242	LOG	PULL_RESP: Protocol version = 02, Token = 436d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1864895167, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAALwPg2AftyzQ='}}
0:51:01.620243	LOG	Server ----------> DUT
0:51:01.623243	LOG	TX_ACK: 02 436d 05 0016c001ff1025bf
0:51:04.703440	LOG	First uplink received. Open reception window.
0:51:04.817710	LOG	PUSH_ACK: 02 da32 01
0:51:04.819713	LOG	GPS Time from gateway: 1385116001962
0:51:04.820711	LOG	PUSH_DATA: Protocol version = 02, Token = da32, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1866107011, 'time': '2023-11-27T10:26:22.962279Z', 'tmms': 1385116001962, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -68, 'size': 16, 'data': 'QAAAAACAOAbg1t+flxvbUQ=='}]}
0:51:04.822714	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0638, FOpts:), FPort: e0, FRMPayload: 09d401, MIC: 971bdb51)
0:51:04.823719	LOG	Server <---------- DUT
0:51:04.825719	LOG	Frame Command Payload in the Answer: 09d401
0:51:04.829678	LOG	RX Count received by DUT: 468
0:51:04.831190	LOG	Send Test Command RxAppCntReq process completed
0:51:04.837196	LOG	Step 18-19
0:51:04.841196	LOG	Send LinkADRReq process starts
0:51:06.031095	LOG	GPS Time updated: 1385116003290
0:51:06.032094	LOG	PULL_DATA: 02 9ddb 02 0016c001ff1025bf
0:51:06.034604	LOG	PULL_ACK: 02 9ddb 04
0:51:11.494028	LOG	First uplink received. Open reception window.
0:51:11.607503	LOG	PUSH_ACK: 02 69f4 01
0:51:11.609039	LOG	GPS Time from gateway: 1385116008750
0:51:11.611074	LOG	PUSH_DATA: Protocol version = 02, Token = 69f4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1872894646, 'time': '2023-11-27T10:26:29.749911Z', 'tmms': 1385116008750, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAOQYClcvru2dpXQZLmZ0='}]}
0:51:11.612044	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0639, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 064b999d)
0:51:11.614044	LOG	Server <---------- DUT

0:51:11.616044	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0330, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: 287630cc)
0:51:11.617046	LOG	PULL_RESP: Protocol version = 02, Token = cf93, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1874894646, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAMAMA4lj5BuIodjDM'}}
0:51:11.619078	LOG	Server ----------> DUT
0:51:11.621339	LOG	TX_ACK: 02 cf93 05 0016c001ff1025bf
0:51:16.231869	LOG	GPS Time updated: 1385116013488
0:51:16.233501	LOG	PULL_DATA: 02 6dd7 02 0016c001ff1025bf
0:51:16.235151	LOG	PULL_ACK: 02 6dd7 04
0:51:16.674206	LOG	First uplink received. Open reception window.
0:51:16.777895	LOG	PUSH_ACK: 02 b3f0 01
0:51:16.779891	LOG	GPS Time from gateway: 1385116013931
0:51:16.780892	LOG	PUSH_DATA: Protocol version = 02, Token = b3f0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1878076148, 'time': '2023-11-27T10:26:34.931414Z', 'tmms': 1385116013931, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3354, 'rssi': -52, 'size': 22, 'data': 'QAAAAACCOgYDBwLbjSpZvT7gNWrh+w=='}]}
0:51:16.782910	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 063a, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 356ae1fb)
0:51:16.784936	LOG	Server <---------- DUT
0:51:16.785899	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:51:16.787896	LOG	Command Answer: 0307
0:51:16.794430	LOG	MAC command communication completed
0:51:16.797973	LOG	Send NewChannelReq process starts
0:51:21.536951	LOG	First uplink received. Open reception window.
0:51:21.643578	LOG	PUSH_ACK: 02 b888 01
0:51:21.645535	LOG	GPS Time from gateway: 1385116018800
0:51:21.646566	LOG	PUSH_DATA: Protocol version = 02, Token = b888, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1882945008, 'time': '2023-11-27T10:26:39.800273Z', 'tmms': 1385116018800, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.0, 'foff': -3346, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAOwYC9QFkxQ0NrMiDWEA='}]}
0:51:21.648538	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 063b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c8835840)
0:51:21.650566	LOG	Server <---------- DUT
0:51:21.652533	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0331, FOpts:), FPort: 00, FRMPayload: 070400000050), MIC: 6ac6f46c)
0:51:21.654106	LOG	PULL_RESP: Protocol version = 02, Token = 9386, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1884945008, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YAAAAAAAMQMA9RFHs6bpasb0bA=='}}
0:51:21.655144	LOG	Server ----------> DUT
0:51:21.658152	LOG	TX_ACK: 02 9386 05 0016c001ff1025bf
0:51:26.282562	LOG	#**********CURRENT BEACON SENT**********#
0:51:26.284134	LOG	PULL_RESP: Protocol version = 02, Token = 3c29, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385116032000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAMY9SvF4AAAAAAAAAAA='}}
0:51:26.285810	LOG	Server ----------> DUT
0:51:26.288013	LOG	#**********#

0:51:26.297674	LOG	#**********NEXT BEACON QUEUED**********#
0:51:26.299256	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385116160000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAMo9S1NoAAAAAAAAAAA='}}
0:51:26.300334	LOG	Server ----------> DUT
0:51:26.301983	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 00328f52, CRC1: d4da, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385116160000
0:51:26.303033	LOG	#**********#
0:51:26.304666	LOG	Next BEACON scheduled at GPS time (ms): 1385116288000
0:51:26.305771	LOG	GPS Time updated: 1385116023569
0:51:26.307435	LOG	PULL_DATA: 02 a275 02 0016c001ff1025bf
0:51:26.309057	LOG	PULL_ACK: 02 a275 04
0:51:26.310701	LOG	TX_ACK: 02 3c29 05 0016c001ff1025bf
0:51:26.540373	LOG	First uplink received. Open reception window.
0:51:26.650302	LOG	PUSH_ACK: 02 ccdf 01
0:51:26.652358	LOG	GPS Time from gateway: 1385116023800
0:51:26.654360	LOG	PUSH_DATA: Protocol version = 02, Token = ccdf, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1887944844, 'time': '2023-11-27T10:26:44.800108Z', 'tmms': 1385116023800, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3347, 'rssi': -52, 'size': 22, 'data': 'QAAAAACCPAYHAwLn3uh8zwcCI0IC6g=='}]}
0:51:26.655356	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 063c, FOpts: 0703), FPort: 02, FRMPayload: 00000001020000, MIC: 234202ea)
0:51:26.656354	LOG	Server <---------- DUT
0:51:26.658354	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:51:26.659895	LOG	Command Answer: 0703
0:51:26.664900	LOG	MAC command communication completed
0:51:26.666899	LOG	End Test Step: Test packet error rate for FSK50 using RX1 window
0:51:26.671404	LOG	Partial Verdict: PASS
0:51:26.675409	LOG	==========
0:51:26.679409	LOG	==========
0:51:26.682411	LOG	Start Test Step: Test packet error rate for LR_FHSSCR1_3BW137 using RX1 window
0:51:26.697449	LOG	End Test Step: Test packet error rate for LR_FHSSCR1_3BW137 using RX1 window
0:51:26.700450	LOG	TEST STEP NOT APPLICABLE
0:51:26.704583	LOG	==========
0:51:26.710581	LOG	==========
0:51:26.712550	LOG	Start Test Step: Test packet error rate for LR_FHSSCR2_3BW137 using RX1 window
0:51:26.728362	LOG	End Test Step: Test packet error rate for LR_FHSSCR2_3BW137 using RX1 window
0:51:26.731359	LOG	TEST STEP NOT APPLICABLE
0:51:26.734902	LOG	==========
0:51:26.739938	LOG	==========
0:51:26.742913	LOG	Start Test Step: Test packet error rate for LR_FHSSCR1_3BW336 using RX1 window
0:51:26.756555	LOG	End Test Step: Test packet error rate for LR_FHSSCR1_3BW336 using RX1 window
0:51:26.759556	LOG	TEST STEP NOT APPLICABLE
0:51:26.762132	LOG	==========

0:51:26.767608	LOG	==========
0:51:26.769606	LOG	Start Test Step: Test packet error rate for LR_FHSSCR2_3BW336 using RX1 window
0:51:26.784550	LOG	End Test Step: Test packet error rate for LR_FHSSCR2_3BW336 using RX1 window
0:51:26.787550	LOG	TEST STEP NOT APPLICABLE
0:51:26.791550	LOG	==========
0:51:26.796549	LOG	==========
0:51:26.798129	LOG	Start Test Step: Restore default settings
0:51:26.809648	LOG	Step 16-17
0:51:26.815023	LOG	Send MAC command block process starts
0:51:31.534843	LOG	First uplink received. Open reception window.
0:51:31.638184	LOG	PUSH_ACK: 02 9658 01
0:51:31.640153	LOG	GPS Time from gateway: 1385116028800
0:51:31.641662	LOG	PUSH_DATA: Protocol version = 02, Token = 9658, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1892944493, 'time': '2023-11-27T10:26:49.799756Z', 'tmms': 1385116028800, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3347, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAPQYCQQlD69qik9+hBBk='}]}
0:51:31.642662	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 063d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: dfa10419)
0:51:31.644661	LOG	Server <---------- DUT
0:51:31.645662	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0332, FOpts:), FPort: 00, FRMPayload: 03500700010500d2ad84), MIC: b98428f6)
0:51:31.647662	LOG	PULL_RESP: Protocol version = 02, Token = c0ce, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1894944493, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAMgMAZAxbElwfejBcLLmEKPY='}}
0:51:31.648661	LOG	Server ----------> DUT
0:51:31.651630	LOG	GW Message b'{"txpk_ack":{"error":"COLLISION_PACKET"}}'
0:51:31.653672	LOG	Waiting a new Uplink to send the frame again
0:51:36.481379	LOG	GPS Time updated: 1385116033747
0:51:36.482378	LOG	PULL_DATA: 02 a384 02 0016c001ff1025bf
0:51:36.484893	LOG	PULL_ACK: 02 a384 04
0:51:36.543766	LOG	First uplink received. Open reception window.
0:51:36.646096	LOG	PUSH_ACK: 02 4ab8 01
0:51:36.648096	LOG	GPS Time from gateway: 1385116033799
0:51:36.649126	LOG	PUSH_DATA: Protocol version = 02, Token = 4ab8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1897944227, 'time': '2023-11-27T10:26:54.799489Z', 'tmms': 1385116033799, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3347, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAPgYCFnwzpiULWmfaefs='}]}
0:51:36.651096	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 063e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 67da79fb)
0:51:36.652127	LOG	Server <---------- DUT
0:51:36.653127	LOG	PULL_RESP: Protocol version = 02, Token = 42ba, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1899944227, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAMgMAZAxbElwfejBcLLmEKPY='}}
0:51:36.655175	LOG	Server ----------> DUT
0:51:36.657137	LOG	TX_ACK: 02 42ba 05 0016c001ff1025bf
0:51:41.542755	LOG	First uplink received. Open reception window.
0:51:41.650323	LOG	PUSH_ACK: 02 fedd 01
0:51:41.652324	LOG	GPS Time from gateway: 1385116038804

0:51:41.654325	LOG	PUSH_DATA: Protocol version = 02, Token = fedd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1902949207, 'time': '2023-11-27T10:26:59.804467Z', 'tmms': 1385116038804, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3343, 'rssi': -52, 'size': 24, 'data': 'QAAAAACEPwYDBwUHAoPaUoa+6qE/Hnwu'}]}
0:51:41.655324	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 063f, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 3f1e7c2e)
0:51:41.656323	LOG	Server <---------- DUT
0:51:41.658329	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:51:41.659327	LOG	Command Answer: 03070507
0:51:41.714900	LOG	MAC command communication completed
0:51:41.719215	LOG	Step 17
0:51:41.721246	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:51:46.534908	LOG	First uplink received. Open reception window.
0:51:46.540942	LOG	PULL_DATA: 02 190a 02 0016c001ff1025bf
0:51:46.542908	LOG	PULL_ACK: 02 190a 04
0:51:46.645050	LOG	PUSH_ACK: 02 a96e 01
0:51:46.647016	LOG	GPS Time from gateway: 1385116043799
0:51:46.648017	LOG	PUSH_DATA: Protocol version = 02, Token = a96e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1907943813, 'time': '2023-11-27T10:27:04.799074Z', 'tmms': 1385116043799, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3346, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCQAYFBwIi+26vDxBn4+6jPA=='}]}
0:51:46.650046	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0640, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: e3eea33c)
0:51:46.651050	LOG	Server <---------- DUT
0:51:46.653018	LOG	MAC Command RXParamSetupAns received
0:51:46.654048	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0333, FOpts:), FPort: e0, FRMPayload: 0501), MIC: 3052b483)
0:51:46.656018	LOG	Frame command sent to the DUT
0:51:46.657055	LOG	PULL_RESP: Protocol version = 02, Token = 9b82, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1909943813, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAMwPgEOkwUrSD'}}
0:51:46.658055	LOG	Server ----------> DUT
0:51:46.661056	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:51:46.664057	LOG	End Test Step: Restore default settings
0:51:46.668054	LOG	Partial Verdict: PASS
0:51:46.671593	LOG	==========
0:51:46.675598	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_015_A
0:51:46.677634	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_015_B	
Verdict	PASS	
Date	2023-11-27 11:27:08	
Description		
Technology Version	LCTT v3.11.0_R1 | GUI v2.6.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.3	
Test Specs Version	USv1.5.1/EUv1.6.2/KRv1.2.1/ASv1.1.1/INv1.1.1/ALL_Av1.6/ALL_Cv1.0/ALL_Bv1.0/SCHCv1.1/ALPv1.0	
Project	ref-stack	
Project Creation Date	2023-10-04 09:10:20	
Sample Parameters		
	SF7BW250 Frequency	868.100

	FSK Frequency	868.100
	Data Rates to be measured	ALL
	Conformance	TRUE
	LR-FHSSCR1/3BW137 Frequency	868.000
	LR-FHSSCR2/3BW137 Frequency	868.000
	LR-FHSSCR1/3BW336 Frequency	868.600
	LR-FHSSCR2/3BW336 Frequency	868.600

Time Stamp (ms)	Event	Summary
0:00:00.009906	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_015_B
0:00:00.069987	LOG	==========
0:00:00.071990	LOG	Start Test Step: Device activation
0:00:00.158116	LOG	Activation process has finished successfully
0:00:00.160628	LOG	Data stored in the DUT after Activation:
0:00:00.163634	LOG	DevAddr: 00000000
0:00:00.166637	LOG	AppEUI: 0000000000000000
0:00:00.169635	LOG	NwkSKey: 6bfb58c6a233389e6e66450a9e520a70
0:00:00.172635	LOG	AppSKey: ded4e508ab9cede444c3765e0533fcac
0:00:00.175705	LOG	End Test Step: Device activation
0:00:00.179707	LOG	Partial Verdict: PASS
0:00:00.183704	LOG	==========
0:00:00.187704	LOG	==========
0:00:00.190248	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.200279	LOG	DUT Pre-condition activation process starts
0:00:00.203279	LOG	DUT Pre-condition activation completed
0:00:00.206318	LOG	End Test Step: DUT Pre-condition settings
0:00:00.210318	LOG	Partial Verdict: PASS
0:00:00.214317	LOG	==========
0:00:00.218325	LOG	==========
0:00:00.220286	LOG	Start Test Step: Initial settings for the test
0:00:00.231304	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:00:05.212953	LOG	PUSH_DATA received while waiting first PULL_DATA
0:00:05.414872	LOG	GPS Time updated: 1385116044001
0:00:05.416871	LOG	PULL_DATA: 02 383c 02 0016c001ff1025bf
0:00:05.417872	LOG	PULL_ACK: 02 383c 04
0:00:10.208148	LOG	First uplink received. Open reception window.
0:00:10.321754	LOG	PUSH_ACK: 02 7eeb 01
0:00:10.323721	LOG	GPS Time from gateway: 1385116058798
0:00:10.324721	LOG	PUSH_DATA: Protocol version = 02, Token = 7eeb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1922942930, 'time': '2023-11-27T10:27:19.798188Z', 'tmms': 1385116058798, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3347, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAQwYCtO2nLHUxDbUp0Y0='}]}
0:00:10.326724	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0643, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b529d18d)
0:00:10.327721	LOG	Server <---------- DUT
0:00:10.329722	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0334, FOpts:), FPort: e0, FRMPayload: 0500), MIC: eb72baea)
0:00:10.331729	LOG	Frame command sent to the DUT
0:00:10.333740	LOG	PULL_RESP: Protocol version = 02, Token = 2ba2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1924942930, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAANAPgDgjrcrrq'}}
0:00:10.334727	LOG	Server ----------> DUT
0:00:10.337727	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed

0:00:10.340727	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:15.213828	LOG	First uplink received. Open reception window.
0:00:15.328922	LOG	PUSH_ACK: 02 2c6e 01
0:00:15.330895	LOG	GPS Time from gateway: 1385116063798
0:00:15.331894	LOG	PUSH_DATA: Protocol version = 02, Token = 2c6e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1927942666, 'time': '2023-11-27T10:27:24.797923Z', 'tmms': 1385116063798, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3347, 'rssi': -52, 'size': 20, 'data': 'QAAAAACARAYCrVEcBuOGdVLfG6c='}]}
0:00:15.333900	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0644, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 52df1ba7)
0:00:15.334899	LOG	Server <---------- DUT
0:00:15.336899	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0335, FOpts:), FPort: e0, FRMPayload: 0701), MIC: 9d9d9595)
0:00:15.337898	LOG	Frame command sent to the DUT
0:00:15.339899	LOG	PULL_RESP: Protocol version = 02, Token = 9259, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1929942666, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAANQPgXDKdnZWV'}}
0:00:15.340898	LOG	Server ----------> DUT
0:00:15.343903	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:15.346413	LOG	End Test Step: Initial settings for the test
0:00:15.350413	LOG	Partial Verdict: PASS
0:00:15.354413	LOG	==========
0:00:15.358412	LOG	==========
0:00:15.361489	LOG	Start Test Step: Test packet error rate for SF7BW125 using RX1 window
0:00:15.373499	LOG	Step 10-11
0:00:15.378510	LOG	Send LinkADRReq process starts
0:00:15.545144	LOG	GPS Time updated: 1385116064130
0:00:15.547112	LOG	PULL_DATA: 02 7be4 02 0016c001ff1025bf
0:00:15.548112	LOG	PULL_ACK: 02 7be4 04
0:00:20.210320	LOG	First uplink received. Open reception window.
0:00:20.312858	LOG	PUSH_ACK: 02 f61e 01
0:00:20.314394	LOG	GPS Time from gateway: 1385116068798
0:00:20.316435	LOG	PUSH_DATA: Protocol version = 02, Token = f61e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1932942412, 'time': '2023-11-27T10:27:29.797667Z', 'tmms': 1385116068798, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3347, 'rssi': -52, 'size': 20, 'data': 'QAAAAACARQYCNhFSlou+93UklN4='}]}
0:00:20.317433	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0645, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 752494de)
0:00:20.319417	LOG	Server <---------- DUT
0:00:20.321435	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0336, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: 6716e508)
0:00:20.322401	LOG	PULL_RESP: Protocol version = 02, Token = 985e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1934942412, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAANgMAQ0Zl451nFuUI'}}
0:00:20.324434	LOG	Server ----------> DUT
0:00:20.326401	LOG	TX_ACK: 02 985e 05 0016c001ff1025bf
0:00:25.214211	LOG	First uplink received. Open reception window.
0:00:25.323788	LOG	PUSH_ACK: 02 5ac3 01
0:00:25.325361	LOG	GPS Time from gateway: 1385116073797
0:00:25.327394	LOG	PUSH_DATA: Protocol version = 02, Token = 5ac3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1937942246, 'time': '2023-11-27T10:27:34.797502Z', 'tmms': 1385116073797, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3346, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCRgYDBwLTkCxtSZ6aRXJaPQ=='}]}
0:00:25.328329	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0646, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 45725a3d)
0:00:25.330329	LOG	Server <---------- DUT
0:00:25.331335	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:25.333335	LOG	Command Answer: 0307
0:00:25.339922	LOG	MAC command communication completed
0:00:25.343954	LOG	Send RXParamSetupReq process starts
0:00:25.574585	LOG	GPS Time updated: 1385116074157
0:00:25.576585	LOG	PULL_DATA: 02 fdf0 02 0016c001ff1025bf
0:00:25.578592	LOG	PULL_ACK: 02 fdf0 04
0:00:30.215316	LOG	First uplink received. Open reception window.
0:00:30.325486	LOG	PUSH_ACK: 02 7466 01
0:00:30.327453	LOG	GPS Time from gateway: 1385116078797
0:00:30.328453	LOG	PUSH_DATA: Protocol version = 02, Token = 7466, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1942941895, 'time': '2023-11-27T10:27:39.797150Z', 'tmms': 1385116078797, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3347, 'rssi': -52, 'size': 20, 'data': 'QAAAAACARwYCo4g013cQHEzpmiw='}]}
0:00:30.330486	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0647, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4ce99a2c)
0:00:30.331525	LOG	Server <---------- DUT
0:00:30.333520	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0337, FOpts:), FPort: 00, FRMPayload: 0500d2ad84), MIC: dbac89c3)
0:00:30.335491	LOG	PULL_RESP: Protocol version = 02, Token = 92f1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1944941895, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAANwMApLSctBDbrInD'}}
0:00:30.336490	LOG	Server ----------> DUT
0:00:30.340525	LOG	TX_ACK: 02 92f1 05 0016c001ff1025bf
0:00:35.213008	LOG	First uplink received. Open reception window.
0:00:35.319499	LOG	PUSH_ACK: 02 5872 01
0:00:35.321043	LOG	GPS Time from gateway: 1385116083797
0:00:35.323059	LOG	PUSH_DATA: Protocol version = 02, Token = 5872, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1947941730, 'time': '2023-11-27T10:27:44.796984Z', 'tmms': 1385116083797, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3347, 'rssi': -52, 'size': 22, 'data': 'QAAAAACCSAYFBwLDWlh7iOnogOf5DA=='}]}
0:00:35.324009	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0648, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 80e7f90c)
0:00:35.326010	LOG	Server <---------- DUT
0:00:35.327009	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:35.329010	LOG	Command Answer: 0507
0:00:35.342287	LOG	MAC command communication completed
0:00:35.346581	LOG	Step 11-12
0:00:35.358718	LOG	Send Test Command RxAppCntReq process starts
0:00:35.584715	LOG	GPS Time updated: 1385116084168
0:00:35.586683	LOG	PULL_DATA: 02 4302 02 0016c001ff1025bf
0:00:35.587683	LOG	PULL_ACK: 02 4302 04
0:00:40.208256	LOG	First uplink received. Open reception window.
0:00:40.321560	LOG	PUSH_ACK: 02 e15d 01
0:00:40.323527	LOG	GPS Time from gateway: 1385116088797

0:00:40.324528	LOG	PUSH_DATA: Protocol version = 02, Token = e15d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1952941477, 'time': '2023-11-27T10:27:49.796730Z', 'tmms': 1385116088797, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3347, 'rssi': -52, 'size': 22, 'data': 'QAAAAACCSQYFBwJ8mhMoybVclbmagw=='}]}
0:00:40.325528	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0649, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 95b99a83)
0:00:40.327529	LOG	Server <-------------------- DUT
0:00:40.328526	LOG	MAC Command RXParamSetupAns received
0:00:40.330572	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0338, FOpts:), FPort: e0, FRMPayload: 09), MIC: 9601b73b)
0:00:40.331613	LOG	Frame command sent to the DUT
0:00:40.333603	LOG	PULL_RESP: Protocol version = 02, Token = ba1b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1953941477, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAOAPgYJYBtzs='}}
0:00:40.334611	LOG	Server --------------------> DUT
0:00:40.337610	LOG	TX_ACK: 02 ba1b 05 0016c001ff1025bf
0:00:42.984494	LOG	First uplink received. Open reception window.
0:00:43.093340	LOG	PUSH_ACK: 02 0c88 01
0:00:43.095308	LOG	GPS Time from gateway: 1385116091570
0:00:43.095812	LOG	PUSH_DATA: Protocol version = 02, Token = 0c88, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1955714903, 'time': '2023-11-27T10:27:52.570154Z', 'tmms': 1385116091570, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3347, 'rssi': -51, 'size': 16, 'data': 'QAAAAACASgbgc6MRUhBzQA=='}]}
0:00:43.097817	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 064a, FOpts:), FPort: e0, FRMPayload: 09d801, MIC: 52107340)
0:00:43.099322	LOG	Server <-------------------- DUT
0:00:43.100328	LOG	Frame Command Payload in the Answer: 09d801
0:00:43.104327	LOG	RX Count received by DUT: 472
0:00:43.106328	LOG	Send Test Command RxAppCntReq process completed
0:00:43.110339	LOG	Step 13
0:00:43.114334	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:45.795188	LOG	GPS Time updated: 1385116094381
0:00:45.796188	LOG	PULL_DATA: 02 5049 02 0016c001ff1025bf
0:00:45.798158	LOG	PULL_ACK: 02 5049 04
0:00:50.206380	LOG	First uplink received. Open reception window.
0:00:50.317635	LOG	PUSH_ACK: 02 cc1f 01
0:00:50.319636	LOG	GPS Time from gateway: 1385116098796
0:00:50.320637	LOG	PUSH_DATA: Protocol version = 02, Token = cc1f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1962940848, 'time': '2023-11-27T10:27:59.796099Z', 'tmms': 1385116098796, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3343, 'rssi': -51, 'size': 20, 'data': 'QAAAAACASwYCRExzpk2eGVKKgyo='}]}
0:00:50.322653	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 064b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 528a832a)
0:00:50.323636	LOG	Server <-------------------- DUT
0:00:50.325638	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0339, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101010101

		010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 073ab198)
0:00:50.327639	LOG	Frame command sent to the DUT
0:00:50.329638	LOG	PULL_RESP: Protocol version = 02, Token = 5f6c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1963940848, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAOQPgOSFERKevzzqsXBfjaPEXqspNaTdGNC9GQjUHqhlXRSk8rYhwYaF0WMYtzmgnneEtFj6kxVMCDOiANW1E+XWZQvAU2ym/eX4Hl33JbVdA6Kj0hG5Jnbca7ttHLp+l5qroMCfpl1krOWZWQg+dHUyUPDhpp4oVtPQ0wB3GUCDnqrgRkUE69FUZYdsP28dzhWb//55sm8W0slFJA7vnsR3sVIDIbq0ttOAhhkONN8wl5BJp2MA73h63XSQrwpusNl169JgXzersQqRZbVqrq4iwFSTXQANq/TGT9oTMBQEg+HH8fZIWowrfOrxOPgcmu2xhIbQHOrGY'}}
0:00:50.330639	LOG	Server --------------------> DUT
0:00:50.333647	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:50.336643	LOG	Check previous uplink data rate process starts
0:00:50.341291	LOG	Uplink received with expected Data Rate
0:00:50.344299	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:55.204385	LOG	First uplink received. Open reception window.
0:00:55.316195	LOG	PUSH_ACK: 02 f004 01
0:00:55.317775	LOG	GPS Time from gateway: 1385116103796
0:00:55.319729	LOG	PUSH_DATA: Protocol version = 02, Token = f004, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1967940601, 'time': '2023-11-27T10:28:04.795850Z', 'tmms': 1385116103796, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3343, 'rssi': -51, 'size': 20, 'data': 'QAAAAACATAYC1ooAuN0HOSWtwPU='}]}
0:00:55.320762	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 064c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 25adc0f5)
0:00:55.321761	LOG	Server <-------------------- DUT
0:00:55.323762	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 033a, FOpts:), FPort: e0, FRMPayload: 070001), MIC: a1f8136e)
0:00:55.325760	LOG	Frame command sent to the DUT
0:00:55.326760	LOG	PULL_RESP: Protocol version = 02, Token = 1a90, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1968940601, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAOgPgCFb2xmySoltpB6KcFVv798OTZk60mtERDnbEpP3PHH0ZknqSV8x8ASaIzwUO9Xoi0Y6L62J2xLDXKcmwa8VmoePj3NEGa3cR05/Wr7P1K/zIXKKsX+o6CwolP3KwW/fG67eTiSLjkn60piJwVrDZrh1S6H07UfPF3f+bFwX1sX8hGK7IcTNOQk315HGWHnBn+bnyVkn7Ne9MYeK8DDatlN2x3jTIuuXHBEWopJ5Tg/7LigxcMgVInelHyytVSGNybk7nGviI9Oh+anqB5Fomz0Dx1AefZD1dRSoA2XO8sIKQk/q+C/IaBYJwqC4Yvc6P7cKh+BNu'}}
0:00:55.328760	LOG	Server --------------------> DUT
0:00:55.331873	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:55.334392	LOG	Check previous uplink data rate process starts
0:00:55.339393	LOG	Uplink received with expected Data Rate
0:00:55.342430	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:55.954796	LOG	GPS Time updated: 1385116104546
0:00:55.955833	LOG	PULL_DATA: 02 5b6e 02 0016c001ff1025bf

0:00:55.957834	LOG	PULL_ACK: 02 5b6e 04
0:01:00.212848	LOG	First uplink received. Open reception window.
0:01:00.326886	LOG	PUSH_ACK: 02 dc6b 01
0:01:00.328855	LOG	GPS Time from gateway: 1385116108796
0:01:00.329854	LOG	PUSH_DATA: Protocol version = 02, Token = dc6b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1972940340, 'time': '2023-11-27T10:28:09.795590Z', 'tmms': 1385116108796, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3346, 'rssi': -51, 'size': 20, 'data': 'QAAAAACATQYCbNKgaTjlxaRXoRM='}]}
0:01:00.331858	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 064d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a457a113)
0:01:00.332859	LOG	Server <-------------------- DUT
0:01:00.334860	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 033b, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: bf9f123c)
0:01:00.336859	LOG	Frame command sent to the DUT
0:01:00.337859	LOG	PULL_RESP: Protocol version = 02, Token = dffc, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1973940340, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAOwPgcvQQHvbv3k9YGLQGHHeIsxmfqan4yyleKeCVGiwPfoz/dLI QeYeGzWXo28Zr/fJEVDGqn5W8LYGKNcQomqnbNeGSS2EV+ASnSy5f6gFEU xHzTQQOwoPszxoidveRe99yojvMcV19C+Ubjdr6neshlLJGstykNJV1Db+LSHSh 6Ng/9mbferMcnnMaCO2iSgWr4dtRleFJx6Unm4ciXkFOM24uwKHRn9ol241vTD RfPNwRtG3F8JMVJAyVUoXJOrruUXG3EW2KyRqSkAv0DybNT+8Kn4uzXj9s 3x5vfZvPSkDwEMSeefuJg45GZT/wrbZ1vYi/nxI8'}}
0:01:00.339860	LOG	Server --------------------> DUT
0:01:00.342860	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:00.345364	LOG	Check previous uplink data rate process starts
0:01:00.351372	LOG	Uplink received with expected Data Rate
0:01:00.355372	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:05.213249	LOG	First uplink received. Open reception window.
0:01:05.323614	LOG	PUSH_ACK: 02 6cd2 01
0:01:05.325157	LOG	GPS Time from gateway: 1385116113795
0:01:05.327153	LOG	PUSH_DATA: Protocol version = 02, Token = 6cd2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1977940081, 'time': '2023-11-27T10:28:14.795330Z', 'tmms': 1385116113795, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3346, 'rssi': -51, 'size': 20, 'data': 'QAAAAACATgYCR07R8y24THCJSio='}]}
0:01:05.328155	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 064e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 70894a2a)
0:01:05.330155	LOG	Server <-------------------- DUT
0:01:05.332161	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 033c, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101

		0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 1ac23401)
0:01:05.333160	LOG	Frame command sent to the DUT
0:01:05.335160	LOG	PULL_RESP: Protocol version = 02, Token = 4678, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1978940081, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAPAPgDXzJGibos2+gzGXSzgCTuUcprRL1O4aVe+V0Y4sZAPyW7FMTTHkTxPkmojd72gvI/SmJ/8Ar7PwOD94ZFkx98SzIgyc8+ibH/SR8mNf07HeiGlbRzQj9j3zJeNeO2GRHgWPtovtvTVhvLvqXmOi6zbQtm894hEkVySuiSHxHsKXejBkgArvDVGPQlr8leD2OZDEhrx2ZH8XWdv8NfNMjS2+/JNXM5Uik2rBbk4DNyydD+4fRjOa9Bip4jsIJYtc/buGhWOSZDVhQpBuD3yQ9ur6oEMuq6mVyNVCH3JruIdHKs/27yGqUP+K51fdUZri7FnQawjQB'}}
0:01:05.336159	LOG	Server --------------------> DUT
0:01:05.339857	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:05.342436	LOG	Check previous uplink data rate process starts
0:01:05.346526	LOG	Uplink received with expected Data Rate
0:01:05.349967	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:05.964896	LOG	GPS Time updated: 1385116114546
0:01:05.965928	LOG	PULL_DATA: 02 89c6 02 0016c001ff1025bf
0:01:05.967896	LOG	PULL_ACK: 02 89c6 04
0:01:10.205221	LOG	First uplink received. Open reception window.
0:01:10.309445	LOG	PUSH_ACK: 02 9586 01
0:01:10.311445	LOG	GPS Time from gateway: 1385116118795
0:01:10.312449	LOG	PUSH_DATA: Protocol version = 02, Token = 9586, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1982939828, 'time': '2023-11-27T10:28:19.795076Z', 'tmms': 1385116118795, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3347, 'rssi': -52, 'size': 20, 'data': 'QAAAAACATwYCbufS/yAQwqxxvvc='}]}
0:01:10.313448	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 064f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ac71bef7)
0:01:10.315498	LOG	Server <-------------------- DUT
0:01:10.317506	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 033d, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: d27d6b0f)
0:01:10.320539	LOG	Frame command sent to the DUT
0:01:10.322499	LOG	PULL_RESP: Protocol version = 02, Token = dfde, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1983939828, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAPQPg+MvReIC/MR66kMU3N0eHAhy3Mc3FbzJU0vV03reqb6PZlkCtOEoWWppemN/CFDdotqYLuEbuV6T+TUE7fHdyLiAfywT5k/o1QqsvaQGO5TovwfDXkP0T771uFmz+q4ksEaPYc5tZj5rd4/biuPnLs03fTyGg4tDNAw8T0la57wS+WmIJ9zLotpy459vx5tkyjCleHEh2Lf20aCtfMUWFEIXnfD219wweV2aGrPXB+FDyKvQmqhQtBduToYBJOY07FZxZtj7hKCDogA4hhgYbqa5Ys6A8zgfRfnABTMLG0Ann6ahcIqTEj9jMwgJ0KpT7Y2vSfWsP'}}
0:01:10.324004	LOG	Server --------------------> DUT
0:01:10.327013	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:10.330010	LOG	Check previous uplink data rate process starts
0:01:10.335016	LOG	Uplink received with expected Data Rate

0:01:10.338049	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:15.210668	LOG	First uplink received. Open reception window.
0:01:15.311729	LOG	PUSH_ACK: 02 b6b1 01
0:01:15.313272	LOG	GPS Time from gateway: 1385116123795
0:01:15.314303	LOG	PUSH_DATA: Protocol version = 02, Token = b6b1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1987939568, 'time': '2023-11-27T10:28:24.794815Z', 'tmms': 1385116123795, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.0, 'foff': -3332, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAUAYCoNLCLu97H6JYtBs='}]}
0:01:15.316385	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0650, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a258b41b)
0:01:15.317384	LOG	Server <-------------------- DUT
0:01:15.320403	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 033e, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 106325ba)
0:01:15.322385	LOG	Frame command sent to the DUT
0:01:15.324385	LOG	PULL_RESP: Protocol version = 02, Token = 18bc, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1988939568, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAPgPgh7x3LSTrlFECXq9swaKJlSbTtMgFOKWE9GCaWyWuBP/q WQiWAbEP3MJqH6I67uw51gRKBMYuxDmnJHBx3j0+GLnTBv68A1Fuhbz94Y GVCTwprW4JoCxG15/X43zIUnZ6q0Owi+yV9DxhrxhyzMc59UnCszBBstGSItK R2Jd0XKyBQUAPwKsaeUnloAPzs0HqG6Y8zBNFDJ85iqNmNdzpWfXv9Bff38j uus5ZDQLHMLyvWbAZpm49AnEZx9EnkKhQMaOwn5khZdcwQchjd0Mj6s35IP AoCXQqLr3xV3xooS12ty5Md/CUoM2N93fNZQFSzQQQYyW6'}}
0:01:15.325385	LOG	Server --------------------> DUT
0:01:15.328507	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:15.330865	LOG	Check previous uplink data rate process starts
0:01:15.334866	LOG	Uplink received with expected Data Rate
0:01:15.337891	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:16.164435	LOG	GPS Time updated: 1385116124749
0:01:16.166435	LOG	PULL_DATA: 02 262a 02 0016c001ff1025bf
0:01:16.167437	LOG	PULL_ACK: 02 262a 04
0:01:20.210976	LOG	First uplink received. Open reception window.
0:01:20.316437	LOG	PUSH_ACK: 02 177e 01
0:01:20.318442	LOG	GPS Time from gateway: 1385116128794
0:01:20.319441	LOG	PUSH_DATA: Protocol version = 02, Token = 177e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1992939302, 'time': '2023-11-27T10:28:29.794548Z', 'tmms': 1385116128794, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3347, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAUQYCOYTAesMUYopkoLw='}]}
0:01:20.320446	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0651, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8a64a0bc)
0:01:20.322443	LOG	Server <-------------------- DUT
0:01:20.324442	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 033f, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010

		10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: d0d2e9b7)
0:01:20.326442	LOG	Frame command sent to the DUT
0:01:20.327442	LOG	PULL_RESP: Protocol version = 02, Token = 38a0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1993939302, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAPwPgTzC6l8QmpwnEoyXH2Af9hqCVcHZXIGw9+5Jq02elDn5YFOi98cIW3l6tGRqihp2O6JSXeSVpc+k/gji6dQBrE7enS34FmjMwBmy7AKxe8Twf7JgYJPr04JQOiWRL5vJfh2/9vBVUrQNlpnZMrsexENjS6dBmDnfkVOMUxTn9y3KO2fEj0XdMKoKc4N+yBx+ZEusv6Vy/C/EVE0l9Z+YtyUKxOVYgBAtQU/ijzaCibsh57L8yBBZmMDX1YoB2269BxneNz6L4FIl3/+RNnjGENCMV5LNpDiYwvIVVl+zQevLT3jHvptiMFEE8s+kvKSI/YajQ0um3'}}
0:01:20.328442	LOG	Server --------------------> DUT
0:01:20.330442	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:20.333988	LOG	Check previous uplink data rate process starts
0:01:20.338869	LOG	Uplink received with expected Data Rate
0:01:20.342879	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:25.208661	LOG	First uplink received. Open reception window.
0:01:25.317160	LOG	PUSH_ACK: 02 9c5a 01
0:01:25.318734	LOG	GPS Time from gateway: 1385116133794
0:01:25.320732	LOG	PUSH_DATA: Protocol version = 02, Token = 9c5a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1997939042, 'time': '2023-11-27T10:28:34.794286Z', 'tmms': 1385116133794, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3347, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAUgYCGfukxZ2Ue+CZKFU='}]}
0:01:25.321737	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0652, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e0992855)
0:01:25.323775	LOG	Server <-------------------- DUT
0:01:25.325772	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0340, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 60b47b32)
0:01:25.326741	LOG	Frame command sent to the DUT
0:01:25.328740	LOG	PULL_RESP: Protocol version = 02, Token = b170, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1998939042, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAQAPgrtUkuK1u+Y9cyqTRWkWp/ob/ASIu8PIT0nFqvDmsA04jg2Fy69ChbQV7r9Svy1ezlZrwdXgNkJ7/jq1XnpUzWwTR9Z29NsCkbbehJruw9pYxFkloQFzQQ6bzKu6p5wbC5Q7qwx+NZSAEvmie1XNf7mG7jDwyiRL34rFMUiznXJ/Py2xKFm7BsZG/txlHPzynsvLM6qYRD0SnP4feEtEe1IF/IR2do1CriiW8GV5VnE0CmdL13gNTZMSIZE8VLgYRY8WmC+w1xKralVsD7SRQmti/GOV7f76Zb7JW3qCPiWkdbdRXkgwu2ZP4q1DilqyW4wxgtHsy'}}
0:01:25.329773	LOG	Server --------------------> DUT
0:01:25.332740	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:25.335391	LOG	Check previous uplink data rate process starts
0:01:25.339868	LOG	Uplink received with expected Data Rate

0:01:25.342876	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:26.374692	LOG	GPS Time updated: 1385116134960
0:01:26.375659	LOG	PULL_DATA: 02 807d 02 0016c001ff1025bf
0:01:26.378209	LOG	PULL_ACK: 02 807d 04
0:01:30.203881	LOG	First uplink received. Open reception window.
0:01:30.305481	LOG	PUSH_ACK: 02 0508 01
0:01:30.307517	LOG	GPS Time from gateway: 1385116138794
0:01:30.308518	LOG	PUSH_DATA: Protocol version = 02, Token = 0508, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2002938792, 'time': '2023-11-27T10:28:39.794035Z', 'tmms': 1385116138794, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3347, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAUwYCOCvH9IJ9KjCUX/c='}]}
0:01:30.309518	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0653, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 30945ff7)
0:01:30.311518	LOG	Server <-------------------- DUT
0:01:30.313485	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0341, FOpts:), FPort: e0, FRMPayload: 070001), MIC: c0b9b3fe)
0:01:30.315030	LOG	Frame command sent to the DUT
0:01:30.317093	LOG	PULL_RESP: Protocol version = 02, Token = a446, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2003938792, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAQQPgM+UFWs0FV6rvqIiF+/38v1FbZwjuP2hI91djBGoHt3+sQcUlsvz2sue/Ld+mIxzKjBFgXg4H5p9Vd5s8eKHSh9GHQrW2Af25Giy5WYVd08zKk8c7bi+/pbogSkNb10VkUUC9xwwHaBNzf8NDC+wVeUWJcZv62oP4TCHvFNOftpFroG90tSOUXsX6Lu3PTp8cAiwTfVbJT7qu42jsiqfoAuqsNvKnwBbF6TKhFOZ+qIjdBEJYTLfk7oFpfzVM9hfxgHZojbejL5xn/0bWcwkUoOopdP8G5adrtel45TUPahvoHsLv998blWbGjWXQoMFSgPLAubP+'}}
0:01:30.318054	LOG	Server --------------------> DUT
0:01:30.323053	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:30.326052	LOG	Check previous uplink data rate process starts
0:01:30.331076	LOG	Uplink received with expected Data Rate
0:01:30.334094	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:35.203834	LOG	First uplink received. Open reception window.
0:01:35.315390	LOG	PUSH_ACK: 02 d6d1 01
0:01:35.316983	LOG	GPS Time from gateway: 1385116143794
0:01:35.317963	LOG	PUSH_DATA: Protocol version = 02, Token = d6d1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2007938528, 'time': '2023-11-27T10:28:44.793772Z', 'tmms': 1385116143794, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3335, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAVAYCcxSso8b+m28c+Oc='}]}
0:01:35.319965	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0654, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6f1cf8e7)
0:01:35.320932	LOG	Server <-------------------- DUT
0:01:35.322963	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0342, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010

		1010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: e774dd37)
0:01:35.324953	LOG	Frame command sent to the DUT
0:01:35.325964	LOG	PULL_RESP: Protocol version = 02, Token = 8202, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2008938528, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAQgPgHrdyhn03fUbRnrxwM6cKETYgATkm9qcdYpZddyyhMwcvi3 o8Zdgdkhl32IMFoJZUREIIn+98bcEWTG1hmFSSHT/87lHVDuEN3Z3CSrURrel QldZ+FXvXuBZxOn2xs+y6/Kb4/tFqBKOP8aiGT6bYJGVtvr9XA58qSz2/Ly02n6 RZqVx9zvoqH/U1Yl52eiBpDJfd6HkPcQBDCeU174bzKMbWTAMbezynpQDW M9wxunSTbKEQkSUiB/UbfKhMJbAA+1msbYoQcgG2Iav2Lnot0jnStwafnpy8O WfiaRpogBRZ4oMXiH7huYEUzE8X+k5R/KDndN03'}}
0:01:35.326963	LOG	Server --------------------> DUT
0:01:35.329931	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:35.332629	LOG	Check previous uplink data rate process starts
0:01:35.337629	LOG	Uplink received with expected Data Rate
0:01:35.340629	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:36.585111	LOG	GPS Time updated: 1385116145176
0:01:36.586112	LOG	PULL_DATA: 02 27c6 02 0016c001ff1025bf
0:01:36.588118	LOG	PULL_ACK: 02 27c6 04
0:01:40.210829	LOG	First uplink received. Open reception window.
0:01:40.315986	LOG	PUSH_ACK: 02 d582 01
0:01:40.317953	LOG	GPS Time from gateway: 1385116148793
0:01:40.318953	LOG	PUSH_DATA: Protocol version = 02, Token = d582, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2012938270, 'time': '2023-11-27T10:28:49.793513Z', 'tmms': 1385116148793, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3346, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAVQYC6PC4/RKPUYDXYCw='}]}
0:01:40.319952	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0655, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 80d7602c)
0:01:40.321953	LOG	Server <-------------------- DUT
0:01:40.323953	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0343, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 3e075968)
0:01:40.324952	LOG	Frame command sent to the DUT
0:01:40.326953	LOG	PULL_RESP: Protocol version = 02, Token = cf10, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2013938270, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAQwPgUsYHvTc3+WCZN8iYcdRcOvcJkM38mogz+Kr3UMFG8N8 2cqk60ZVHAlErWWZcSCD8dgGI3sZwXZDTr9xX/7epI+DbWSPPiwCeT2zVfW +GeAaaM9Qtarqd9ZVKmpumNgFuhYxoLkP11oFGvRX56biXT4pnykXenB5IblV C2Tp4yKVrc+wNQ1oHEm6woP5ho2+s22PBRsFEb0l2CoUfFThtcOkylQya8+T9 AB0dyUBFpRTtKQVEtIsCnDKnQ48fjWKlBxaNV0ndx35S91AeAlXK7pnafLhW oTQO9LbQAdkTpqQtEtLDJGu1HwIOvAGl31rw2RY+B1lo'}}
0:01:40.327954	LOG	Server --------------------> DUT

0:01:40.331960	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:40.334986	LOG	Check previous uplink data rate process starts
0:01:40.338959	LOG	Uplink received with expected Data Rate
0:01:40.343003	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:45.209006	LOG	#***************************CURRENT BEACON SENT***************************#
0:01:45.210973	LOG	PULL_RESP: Protocol version = 02, Token = 85b8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385116160000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAMo9S1NoAAAAAAAAAAAA='}}
0:01:45.211973	LOG	Server --------------------> DUT
0:01:45.214015	LOG	#**#
0:01:45.223552	LOG	#***************************NEXT BEACON QUEUED***************************#
0:01:45.225556	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385116288000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAMo9S7AcAAAAAAAAAAAA='}}
0:01:45.227649	LOG	Server --------------------> DUT
0:01:45.229165	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 80328f52, CRC1: ec07, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385116288000
0:01:45.230159	LOG	#**#
0:01:45.232159	LOG	Next BEACON scheduled at GPS time (ms): 1385116416000
0:01:45.233158	LOG	First uplink received. Open reception window.
0:01:45.234157	LOG	TX_ACK: 02 85b8 05 0016c001ff1025bf
0:01:45.347864	LOG	PUSH_ACK: 02 34c5 01
0:01:45.349373	LOG	GPS Time from gateway: 1385116153793
0:01:45.351372	LOG	PUSH_DATA: Protocol version = 02, Token = 34c5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2017938012, 'time': '2023-11-27T10:28:54.793254Z', 'tmms': 1385116153793, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3343, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAVgYCXG6TpExTcByN9S0='}]}
0:01:45.352373	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0656, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1c8df52d)
0:01:45.354373	LOG	Server <-------------------- DUT
0:01:45.356372	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0344, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 117be71a)
0:01:45.357877	LOG	Frame command sent to the DUT
0:01:45.358882	LOG	PULL_RESP: Protocol version = 02, Token = 31b0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2018938012, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAARAPglyw2Xbl0+LkctBaahb++oujRpxVOiucEkqtUBdzf/e7XcbrrI1DMgOfgFTkiWQUTarsHVlJ0ARIPTcqyMl8+nCMKQKoswyLTUzKbYIhCIOkSI1er5yJqKijvcGPvpIyHDJbI+ZXSUDRNzA0VuozK4qkzjto8jfh0XGYkDLkiLKVQO

		D2YHhwPsRZdNjt0G8gydZUaR6rEbD5UKoV4jt4IFxGlxdbRLy14qPeIbZPNqG5a1kKIkMG1NceTZytSJpH7zUkqDymRiR7iXayIkMm1tYcEkAtDbRoo4vhT2qWIlZJGbh5gqNY3aRTSeWovOSkA50YRe+ca'}}
0:01:45.359882	LOG	Server --------------------> DUT
0:01:45.363536	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:45.366541	LOG	Check previous uplink data rate process starts
0:01:45.370574	LOG	Uplink received with expected Data Rate
0:01:45.374541	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:46.614262	LOG	GPS Time updated: 1385116155173
0:01:46.616263	LOG	PULL_DATA: 02 0910 02 0016c001ff1025bf
0:01:46.618261	LOG	PULL_ACK: 02 0910 04
0:01:50.209576	LOG	First uplink received. Open reception window.
0:01:50.319731	LOG	PUSH_ACK: 02 3075 01
0:01:50.321697	LOG	GPS Time from gateway: 1385116158793
0:01:50.322696	LOG	PUSH_DATA: Protocol version = 02, Token = 3075, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2022937744, 'time': '2023-11-27T10:28:59.792985Z', 'tmms': 1385116158793, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.0, 'foff': -3347, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAVwYCK5z5RgvkhAps7eU='}]}
0:01:50.324697	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0657, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0a6cede5)
0:01:50.325696	LOG	Server <-------------------- DUT
0:01:50.327696	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0345, FOpts:), FPort: e0, FRMPayload: 070001), MIC: b38b45eb)
0:01:50.329701	LOG	Frame command sent to the DUT
0:01:50.330696	LOG	PULL_RESP: Protocol version = 02, Token = 6f4e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2023937744, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAARQPgeuaXKrRywRPgR+j0BMtJP74tzUdE0g02kqmXiD9LurBOVILA5nxR9UrMNS3TuZVL/Hsp9bqs1es6/P0+oka3T315BIbTnPh7+hzV9EiI1yawC5Ahq3mIZgzd3xgKVEwzh6Ek8JbB4VLbOTgxChVKmPmeTis9qLvLGb/UJJ57c0Vnp/wC92Hvasv+Ih8d1BaFA03lhp+CkhlNNeAq9QBkSVDkeFL0V05zEdssVHHIyzWI0d+XI6F86Wygx+ULjNUqvihAkXU/wqviLQOnRVkKgXr60zrUyVLdMZ5wtGmDF/NOR1dWYD8OJ8BaW7VT/9YoyT+zi0Xr'}}
0:01:50.332701	LOG	Server --------------------> DUT
0:01:50.334702	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:50.338704	LOG	Check previous uplink data rate process starts
0:01:50.342735	LOG	Uplink received with expected Data Rate
0:01:50.345734	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:55.201569	LOG	First uplink received. Open reception window.
0:01:55.305813	LOG	PUSH_ACK: 02 e3b9 01
0:01:55.307385	LOG	GPS Time from gateway: 1385116163793
0:01:55.309418	LOG	PUSH_DATA: Protocol version = 02, Token = e3b9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2027937488, 'time': '2023-11-27T10:29:04.792728Z', 'tmms': 1385116163793, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3346, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAWAYC+sB843W68l4JiZc='}]}

0:01:55.310414	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0658, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5e098997)
0:01:55.311410	LOG	Server <-------------------- DUT
0:01:55.313393	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0346, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 4082d78d)
0:01:55.315889	LOG	Frame command sent to the DUT
0:01:55.316917	LOG	PULL_RESP: Protocol version = 02, Token = 8b5e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2028937488, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAARgPgXSdxWbMnOxTLbBzs86VswGpkr4Gr3VzqwUHTpseiz3CvBQjiwEqeyM/Zjw3Yq4Ud5G7jyauqB91TGQyddFjBFRE5j7VBbwoHrnm8if62JGu+wD7gPEKVeO+J7pW1RSoWqb8qCpG+MJHdyn8Reh+UA85AVg8tYTxwS0LjL53y0fJVIBDypj52JToZVTurqgXfR2ve96luhpCnE1BglIm+ELAgxC0hahuVZCcRjJahHBXMgo+u1CFyAk+GXjsZcxH8EPupsMzy1SKh6fyzrk/knm9GwoQyKu96sfXgkiqpZzU62MxqGlo+ljZPjWhzVJjwM6lAgteN'}}
0:01:55.318895	LOG	Server --------------------> DUT
0:01:55.321536	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:55.324542	LOG	Check previous uplink data rate process starts
0:01:55.329328	LOG	Uplink received with expected Data Rate
0:01:55.332380	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:56.784296	LOG	GPS Time updated: 1385116165376
0:01:56.786296	LOG	PULL_DATA: 02 3b78 02 0016c001ff1025bf
0:01:56.788266	LOG	PULL_ACK: 02 3b78 04
0:02:00.204870	LOG	First uplink received. Open reception window.
0:02:00.307200	LOG	PUSH_ACK: 02 2965 01
0:02:00.309204	LOG	GPS Time from gateway: 1385116168792
0:02:00.310234	LOG	PUSH_DATA: Protocol version = 02, Token = 2965, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2032937238, 'time': '2023-11-27T10:29:09.792476Z', 'tmms': 1385116168792, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3335, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAWQYCuBDBmsXUI69Hk/I='}]}
0:02:00.312204	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0659, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: af4793f2)
0:02:00.313237	LOG	Server <-------------------- DUT
0:02:00.315761	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0347, FOpts:), FPort: e0, FRMPayload: 070001), MIC: b1e9724d)
0:02:00.317746	LOG	Frame command sent to the DUT
0:02:00.318745	LOG	PULL_RESP: Protocol version = 02, Token = ab77, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2033937238, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size':

		255, 'data': 'YAAAAAAARwPgkwEgiBkv1Gz38wudPX2uZpOuOVcmXHQkkXwA9dbPRMbIqA2dLh+jSGXlf/Os+SibWyIenq6uT+Dt6UjyPenGm9lnW8CmVJ5+M8bJ0fCVy9lxhDO9biQRDkb8LzCcI4fTmWSLxD5Ue8xx22fyDfFdsRKNZRvdoBYKUPeE47kjBiktZ+2Zu8JOZDyY+RByAqpnuqEmeqv7gXH6hU7Js6ByjoxjodP07O8XwAcq8PcsiR3m1a/eeQSyPHIUBRZjwxvzD3M7Uj/6YVJjEPfXga+AKRCOSrzQZ1v8UKlYxt93O8rXOdtbAeN9M9sKpho/QIml9aGx6XJN'}}
0:02:00.320782	LOG	Server --------------------> DUT
0:02:00.323793	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:00.327746	LOG	Check previous uplink data rate process starts
0:02:00.331465	LOG	Uplink received with expected Data Rate
0:02:00.334476	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:05.204449	LOG	First uplink received. Open reception window.
0:02:05.310915	LOG	PUSH_ACK: 02 1b40 01
0:02:05.312903	LOG	GPS Time from gateway: 1385116173792
0:02:05.314510	LOG	PUSH_DATA: Protocol version = 02, Token = 1b40, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2037936972, 'time': '2023-11-27T10:29:14.792209Z', 'tmms': 1385116173792, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3335, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAWgYCx4bSKvghx0wwKUM='}]}
0:02:05.315628	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 065a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4c302943)
0:02:05.317242	LOG	Server <-------------------- DUT
0:02:05.319652	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0348, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: d4cb7de9)
0:02:05.321426	LOG	Frame command sent to the DUT
0:02:05.322789	LOG	PULL_RESP: Protocol version = 02, Token = dca2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2038936972, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAASAPgacBUuR+E31DQRBHzreG5TtZ+8yK0U9//WTCr+DdmVrBOdX7pWCJNFb1HNR+VgVLI2pqQ/olkLHJytwdHY5eC8x19diZXcof6u46IscGTWQJ3Dg7Y0dKCCXllNoTwdxivvlZDZ/pQIjX7oTstYXhl6P3Ayxrj9BrtgEkSowyLFhtxS2pZPwW5j7lqDfB10LCiCj8/ryq4Kjl0Y/R9Vhn9xmpr7fl/hHVfBJHd0m2DWGbFTfyuxPFnV6OEpEKLBxEiqpwebEETQgeTQ5D80MSlXfhYVvIX3vp35g1Bw3Q+fZwKGHDeBQq8+ddMP6LicuvHKNjUy33p'}}
0:02:05.323969	LOG	Server --------------------> DUT
0:02:05.326264	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:05.329520	LOG	Check previous uplink data rate process starts
0:02:05.333573	LOG	Uplink received with expected Data Rate
0:02:05.336615	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:06.794829	LOG	GPS Time updated: 1385116175381
0:02:06.795829	LOG	PULL_DATA: 02 e3b8 02 0016c001ff1025bf
0:02:06.797865	LOG	PULL_ACK: 02 e3b8 04
0:02:10.201748	LOG	First uplink received. Open reception window.
0:02:10.313531	LOG	PUSH_ACK: 02 9b64 01
0:02:10.315081	LOG	GPS Time from gateway: 1385116178792
0:02:10.316118	LOG	PUSH_DATA: Protocol version = 02, Token = 9b64, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2042936717, 'time': '2023-11-27T10:29:19.791955Z',

		'tmms': 1385116178792, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3346, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAWwYCJcqhD+zVF/AxQLU='}]}
0:02:10.318120	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 065b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f03140b5)
0:02:10.319088	LOG	Server <-------------------- DUT
0:02:10.321134	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0349, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 0b3fd1d1)
0:02:10.323116	LOG	Frame command sent to the DUT
0:02:10.324119	LOG	PULL_RESP: Protocol version = 02, Token = e68b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2043936717, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAASQPgFN7fpfFzcWKTctQ9UGqmtg8UtDccEL30Ovc9EMMbouiFnb reXn2a4k/mWUWokAY2JFnl9H4B6/ThV5Fx+LVaR9tevL4SQ+at176YmNHyOX uBkenAJz54LQ447hJk22i3xuKqSPh53U1lZQ579JZDBPRGnxJkTNq8dEIh2h8LI7 WwOeLje/TaKKBtCPwmEZqyBlEW1WoGB9rsPbmuaFN31w3Sm0CAMdtaGwV YD2nQOHPErW5F0V65ST/WE3X0Rx6HlC63/FBiAJWJGxwwWf4t7/lUlH/98M7 P1P+oQeSX6qGOdT5lc/bmMpjXq+Ek5HCUeWwLP9HR'}}
0:02:10.325118	LOG	Server --------------------> DUT
0:02:10.328127	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:10.331123	LOG	Check previous uplink data rate process starts
0:02:10.335068	LOG	Uplink received with expected Data Rate
0:02:10.338117	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:15.201533	LOG	First uplink received. Open reception window.
0:02:15.315800	LOG	PUSH_ACK: 02 3552 01
0:02:15.317332	LOG	GPS Time from gateway: 1385116183792
0:02:15.319335	LOG	PUSH_DATA: Protocol version = 02, Token = 3552, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2047936463, 'time': '2023-11-27T10:29:24.791700Z', 'tmms': 1385116183792, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3332, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAXAYCIanQ9JW5Xyt588Q='}]}
0:02:15.320368	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 065c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2b79f3c4)
0:02:15.321367	LOG	Server <-------------------- DUT
0:02:15.323370	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 034a, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: d5451a21)
0:02:15.325367	LOG	Frame command sent to the DUT
0:02:15.326366	LOG	PULL_RESP: Protocol version = 02, Token = af23, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2048936463, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size':

		255, 'data': 'YAAAAAAASgPgTbW9iPH/0uqz/TvtP4zHyJ8SBQBO/V7/+mt+ZtPnHx5FeIGaAOjwmfYFPhUbY1xTdomAgDCGez02XwJE9NGF4QpYkWGqLGCV1tQq7KKswQg4P3/xSWXlTsGHQg2lO66DvVfOWGTnln2xA/QV58LYMXBIBBAsST9uHXZZzO3P4XCi0iPH/G2spN5l1lXV1T8kqI+nvV0pPzf1kjd7tQYcHMlH8M4FSwP/Vk+Srh4q1uxg+eVsHc9DabKKQCaCUyHArWKS9+lVAgCXNsgJrLscPc7c+LOnBAJkuoS08yF37aPmxkKTGFX7EG8903c6W9XgOUPVRRoh'}}
0:02:15.328368	LOG	Server -------------------> DUT
0:02:15.331373	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:15.334006	LOG	Check previous uplink data rate process starts
0:02:15.338312	LOG	Uplink received with expected Data Rate
0:02:15.341357	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:17.004623	LOG	GPS Time updated: 1385116185595
0:02:17.005624	LOG	PULL_DATA: 02 f13b 02 0016c001ff1025bf
0:02:17.007598	LOG	PULL_ACK: 02 f13b 04
0:02:20.208352	LOG	First uplink received. Open reception window.
0:02:20.322597	LOG	PUSH_ACK: 02 5ac7 01
0:02:20.324579	LOG	GPS Time from gateway: 1385116188791
0:02:20.325565	LOG	PUSH_DATA: Protocol version = 02, Token = 5ac7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2052936200, 'time': '2023-11-27T10:29:29.791436Z', 'tmms': 1385116188791, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.0, 'foff': -3332, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAXQYCPhqqP9i3e8qpGO4='}]}
0:02:20.326565	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 065d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: caa918ee)
0:02:20.328566	LOG	Server <------------------- DUT
0:02:20.330565	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 034b, FOpts:), FPort: e0, FRMPayload: 070001), MIC: d7690c20)
0:02:20.332570	LOG	Frame command sent to the DUT
0:02:20.333570	LOG	PULL_RESP: Protocol version = 02, Token = fcba, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2053936200, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAASwPgRB2n6ySIqFIFeGTnDLbo+4DmAER2F8m8CWzK9seUIOibigGSc5RvuymqtqJ9S4P29Nu9AdcqAfh8kiJtKSA89q6knfflpppISdeKv1k1wC1Og7HWUZHjAYmqbIcRNfSyaiDoLDakR2afWGrV1eDACjjI8TSKoe1vxogcs81fKjoZQss/EULzIk8W9O/uinKtPbgCyJQlAPMZYa9lP1BboRKpIBknR6mmc4sDUeuVGg8bRoWrG2BoZr9J5YOGymt/6LK+L61nJFm3dBgzXycTbrww+CoTz8ZQlbOWlsM6SMb244Wp7lPGJ+J2jgV7GaO6wOLXaQwg'}}
0:02:20.334570	LOG	Server -------------------> DUT
0:02:20.337573	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:20.340459	LOG	Check previous uplink data rate process starts
0:02:20.344465	LOG	Uplink received with expected Data Rate
0:02:20.347013	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:25.209152	LOG	First uplink received. Open reception window.
0:02:25.320548	LOG	PUSH_ACK: 02 0c81 01
0:02:25.322054	LOG	GPS Time from gateway: 1385116193791
0:02:25.324056	LOG	PUSH_DATA: Protocol version = 02, Token = 0c81, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2057935932, 'time': '2023-11-27T10:29:34.791167Z',

		'tmms': 1385116193791, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3335, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAXgYCz6d5vmZyAW2IC9A='}]}
0:02:25.325055	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 065e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6d880bd0)
0:02:25.326058	LOG	Server <-------------------- DUT
0:02:25.328058	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 034c, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 6f24e2fe)
0:02:25.330089	LOG	Frame command sent to the DUT
0:02:25.331126	LOG	PULL_RESP: Protocol version = 02, Token = 15ff, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2058935932, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAATAPgJPpWJJQYqCmclI7/JEOq2aqHJQ5GuRQ2iHY1skP4E6PXr44pO1FasVv7GgKzSCDRVknMA6iOVkkMlE55gkzMwzqKUuXIg7HG5obncDwpCmjM5mR71pAbLRtaVRdsPIXk92OGU+q8FUWZpvLeRleqYbrtxrRMGth0X9M5PAwaxnnZpQydKqispRIcmWGaljdPjhYKbbc73pg85yI07Eol9prENUt/rmwWYfDRl9d+O1+WX0TyJXNxNR5Dda/XT01q1J8KX+EHuR5yP3kklY5Zizgf0mVUW59U5tS/IX0/RqqloiWOJWvvyjUnWH7hVcr78pVvJOL+'}}
0:02:25.333125	LOG	Server --------------------> DUT
0:02:25.335127	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:25.338768	LOG	Check previous uplink data rate process starts
0:02:25.342763	LOG	Uplink received with expected Data Rate
0:02:25.346234	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:27.014188	LOG	GPS Time updated: 1385116195596
0:02:27.016159	LOG	PULL_DATA: 02 8ee2 02 0016c001ff1025bf
0:02:27.017190	LOG	PULL_ACK: 02 8ee2 04
0:02:30.208329	LOG	First uplink received. Open reception window.
0:02:30.325146	LOG	PUSH_ACK: 02 a70d 01
0:02:30.327147	LOG	GPS Time from gateway: 1385116198791
0:02:30.328145	LOG	PUSH_DATA: Protocol version = 02, Token = a70d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2062935670, 'time': '2023-11-27T10:29:39.790904Z', 'tmms': 1385116198791, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3335, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAXwYCbgwh4SLT3/qivbw='}]}
0:02:30.329144	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 065f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: faa2bdbc)
0:02:30.331126	LOG	Server <-------------------- DUT
0:02:30.333159	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 034d, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: a77f49b6)
0:02:30.335161	LOG	Frame command sent to the DUT

0:02:30.336159	LOG	PULL_RESP: Protocol version = 02, Token = 0f7f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2063935670, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAATQPgRPsmO0+e8QXr4dJUUJxoCr7nT/HYTSevmr6mOqCxpein7qqVF8FSy6La6DUQOYmgmKbWkI2MZu2w3n+hVfwdRxWzaeUHf0tFqCzKdKfM/U9LCPuY16jiSILko67sW+xUwJ4uL8wqdDVjK9PTUmjcGu1aJjY+Pd01aymS2hWyQ8r7X/f8niwiqjEN+BvVCX4SA9QTneq2/r98qcSpD+Zm2L8EGmShDasbUyzt/qc48zYqvHeCWEDWw9N1WlnAxrIXmiFMfSavhTvdgOun9V9Yjmu0a/3GoUoaP3ZGek1BCkw0qSoXvfa5xSxpZ2FETZoDfyCnf0m2'}}
0:02:30.337158	LOG	Server -------------------> DUT
0:02:30.340127	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:30.343549	LOG	Check previous uplink data rate process starts
0:02:30.347134	LOG	Uplink received with expected Data Rate
0:02:30.351178	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:35.206711	LOG	First uplink received. Open reception window.
0:02:35.319450	LOG	PUSH_ACK: 02 d3d7 01
0:02:35.321065	LOG	GPS Time from gateway: 1385116203791
0:02:35.323032	LOG	PUSH_DATA: Protocol version = 02, Token = d3d7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2067935414, 'time': '2023-11-27T10:29:44.790646Z', 'tmms': 1385116203791, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3332, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAYAYC4jijzcmAcg67UBs='}]}
0:02:35.324063	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0660, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0ebb501b)
0:02:35.325058	LOG	Server <------------------- DUT
0:02:35.328065	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 034e, FOpts:), FPort: e0, FRMPayload: 070001), MIC: e2465e8c)
0:02:35.329063	LOG	Frame command sent to the DUT
0:02:35.330063	LOG	PULL_RESP: Protocol version = 02, Token = 536d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2068935414, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAATgPg3E6UwLOau9P1+6wqLNwa02TVxZtbemffeokKi3H2EhGUOiL5Q3u84Ti8rtRCQa2SWvId8M9buQHhSUd0Lnk8jEJxS24FJDACn82jWklkU/HDPeXy9ictMQKmUg/sWINNhO7o7/GfKPVvmqJdLM0MZKnjypPgU9R14f/owp4uN2ZauMafB1eT5x36X01iWXBg550bfIICx3nQ4MrtaFlxDoJ56nitXeV3sxMMtBUhvvNZbPJIm9PFYCAb3fEBik9rTR/KNSjZQfHyuHZrI9JLrTIWMOXVqr+D5e/I7xoRrOnrmm34kPyo1Y5F0jMyjv6Xn//iRl6M'}}
0:02:35.332100	LOG	Server -------------------> DUT
0:02:35.334090	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:35.337749	LOG	Check previous uplink data rate process starts
0:02:35.341711	LOG	Uplink received with expected Data Rate
0:02:35.345712	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:37.224229	LOG	GPS Time updated: 1385116205809
0:02:37.226199	LOG	PULL_DATA: 02 82b6 02 0016c001ff1025bf
0:02:37.227197	LOG	PULL_ACK: 02 82b6 04
0:02:40.198193	LOG	First uplink received. Open reception window.
0:02:40.309726	LOG	PUSH_ACK: 02 90be 01

0:02:40.311723	LOG	GPS Time from gateway: 1385116208790
0:02:40.312723	LOG	PUSH_DATA: Protocol version = 02, Token = 90be, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2072935160, 'time': '2023-11-27T10:29:49.790393Z', 'tmms': 1385116208790, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3332, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAYQYCg/JrwU6bJFzKzls='}]}
0:02:40.314280	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0661, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5ccace5b)
0:02:40.315831	LOG	Server <-------------------- DUT
0:02:40.317801	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 034f, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 4fc26afc)
0:02:40.319801	LOG	Frame command sent to the DUT
0:02:40.320819	LOG	PULL_RESP: Protocol version = 02, Token = 857e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2073935160, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAATwPgkhN6UiBhdA6mQR6uPTWWuGSQyVdob+/dZ8xkRvWwLgQ8wtFiaY9UfVzvIkxt8kgrgAcT4fAQaZi307hm1mYsk4CB/oZpRo8u1d8KoDj+A0Wen4F9faBbAyGhhT8IptYBJHXLo063GlP67j1JbdVGG/MvJOzf8/68RiEeWAkT+g7tkd8w5s5XAmeb5M6Pa1L3uFCbASr9QSfj/vBlUc5aJSBipkxcRbTmA/OBWwjIUxhXCINGkDDc6ceWgQBV5yNBgywuVJwyiz3Ae4FSUPZrHZ65OYNO0HDeSwrSZWhM/csEB53WlJYCRaItwtCIcR4xMSdPwmr8'}}
0:02:40.322831	LOG	Server --------------------> DUT
0:02:40.325800	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:40.327832	LOG	Check previous uplink data rate process starts
0:02:40.332458	LOG	Uplink received with expected Data Rate
0:02:40.335338	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:45.201020	LOG	First uplink received. Open reception window.
0:02:45.309562	LOG	PUSH_ACK: 02 2ecf 01
0:02:45.311190	LOG	GPS Time from gateway: 1385116213790
0:02:45.313144	LOG	PUSH_DATA: Protocol version = 02, Token = 2ecf, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2077934901, 'time': '2023-11-27T10:29:54.790133Z', 'tmms': 1385116213790, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3346, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAYgYCCnRLfvj0w/mJhS0='}]}
0:02:45.313144	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0662, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f989852d)
0:02:45.315719	LOG	Server <-------------------- DUT
0:02:45.317687	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0350, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 2204e39d)
0:02:45.320198	LOG	Frame command sent to the DUT

0:02:45.321198	LOG	PULL_RESP: Protocol version = 02, Token = bbaf, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2078934901, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAUAPgOIQRNFru5OrnIhI9/uKnmI4Zm0maqk8CHa5C65ZKfr64NhVNKIPWV7phvQzpkIaGcM5p2OqoscdY5XJNHO3VjjKLjsV9FWsOnYyM2XtgVzwYSS86xED9bSGHdXtpcQzeTK2h8mkCgSwXWN6jOYV9LNiLiU4r6yuX9tyLSn4m6Iz0l8Tka/1Jt5q1lSO14ESoqjUBR9607uqw1T2nbFG60urmWzUxnH12OyI+bU4cVN9hY01cFUQ+JeY9f0JObeFOx5KZmz5ZdDGwVEGXMOHmNAmF9+rli/eUmEIYic2XqgYk2dBmV4No8BhTzXr6EyP0jY8iBOOd'}}
0:02:45.322229	LOG	Server --------------------> DUT
0:02:45.325757	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:45.328678	LOG	Check previous uplink data rate process starts
0:02:45.332750	LOG	Uplink received with expected Data Rate
0:02:45.335906	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:47.424268	LOG	GPS Time updated: 1385116216013
0:02:47.425268	LOG	PULL_DATA: 02 af58 02 0016c001ff1025bf
0:02:47.428324	LOG	PULL_ACK: 02 af58 04
0:02:50.202825	LOG	First uplink received. Open reception window.
0:02:50.317368	LOG	PUSH_ACK: 02 34cb 01
0:02:50.319332	LOG	GPS Time from gateway: 1385116218790
0:02:50.320365	LOG	PUSH_DATA: Protocol version = 02, Token = 34cb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2082934638, 'time': '2023-11-27T10:29:59.789869Z', 'tmms': 1385116218790, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3335, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAYwYCplaXHKvgTnj9Ap0='}]}
0:02:50.321806	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0663, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 78fd029d)
0:02:50.322813	LOG	Server <-------------------- DUT
0:02:50.324803	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0351, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 4c782e15)
0:02:50.326807	LOG	Frame command sent to the DUT
0:02:50.328775	LOG	PULL_RESP: Protocol version = 02, Token = 04e3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2083934638, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAUQPgSnCf9FsB5oczEwjNoRlZcGoDAWSd7p2i+rBsylBkkxr11AVidG+doaWEVzFtm5Saa9IWX2c5yTAKtpVMemwkHikZ9Lf6ExWh5htskacDNaeo8Wkbh0w623ebhpxo8SH4JVNLqC4Fl4ovjQYvsc7rVEwrUZLd/dIOij5wWWHYqGsQySCHBYGOWagf/0Zlmn58Z5D1oD+NnqYeYeOCgy/oKB3YBla0xTQHupQyGqQQRh4P2e77CxW1fNq2o5/k3UMIl4J2KhYB1YYpWNBaC5CS1nrUGAaRQqbQ8W93R75az6ZSodEsKVkCpwHMeTI8QUZD5GpMeC4V'}}
0:02:50.329809	LOG	Server --------------------> DUT
0:02:50.332812	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:50.335844	LOG	Check previous uplink data rate process starts
0:02:50.339811	LOG	Uplink received with expected Data Rate
0:02:50.343618	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:55.202512	LOG	First uplink received. Open reception window.
0:02:55.316068	LOG	PUSH_ACK: 02 9817 01

0:02:55.317576	LOG	GPS Time from gateway: 1385116223789
0:02:55.319577	LOG	PUSH_DATA: Protocol version = 02, Token = 9817, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2087934378, 'time': '2023-11-27T10:30:04.789608Z', 'tmms': 1385116223789, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3347, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAZAYCFGwluaKzu3vqrVw='}]}
0:02:55.320576	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0664, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7beaad5c)
0:02:55.321576	LOG	Server <-------------------- DUT
0:02:55.323577	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0352, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 4e6d4f4f)
0:02:55.325082	LOG	Frame command sent to the DUT
0:02:55.327088	LOG	PULL_RESP: Protocol version = 02, Token = 2eee, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2088934378, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAUgPg5wylEOu698AklAIhr6NPsnQLfBZLHEdHoIEYyHUOo8Li27 PJSf6ZgZ5EbD3JbqkRo+3ml9sZ9fXFcoCAs476/V0j92CPxF6Ptms6QR4RCBZ1b X8Y7Wgwxmopx35YkjhH8jbRJVECqkN2jCnA22VSneXbMXk1sPeyOr6dI+NHP GVKnnk1a6CfMsnbqfAPcU+HoW8S3owVbuvMwyVv5yW32dgypnlOc4zEdcON CWcC2FwR/aEEpO2OO7ronkcOhmED+hxTLRH9EPOtT9ECaVYPRb/vhoR23W sfUEUDocVwK2oiaIXbtpXN40foK8CSzu0LiE5ObU9P'}}
0:02:55.328087	LOG	Server --------------------> DUT
0:02:55.331700	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:55.334705	LOG	Check previous uplink data rate process starts
0:02:55.338981	LOG	Uplink received with expected Data Rate
0:02:55.342259	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:57.634175	LOG	GPS Time updated: 1385116226221
0:02:57.635761	LOG	PULL_DATA: 02 8333 02 0016c001ff1025bf
0:02:57.636766	LOG	PULL_ACK: 02 8333 04
0:03:00.197244	LOG	First uplink received. Open reception window.
0:03:00.300897	LOG	PUSH_ACK: 02 866c 01
0:03:00.302866	LOG	GPS Time from gateway: 1385116228789
0:03:00.303865	LOG	PUSH_DATA: Protocol version = 02, Token = 866c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2092934117, 'time': '2023-11-27T10:30:09.789346Z', 'tmms': 1385116228789, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3347, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAZQYC+xSQMQODPQNuRCM='}]}
0:03:00.304870	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0665, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 036e4423)
0:03:00.306883	LOG	Server <-------------------- DUT
0:03:00.308870	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0353, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101

		010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 6e9eb718)
0:03:00.310870	LOG	Frame command sent to the DUT
0:03:00.311869	LOG	PULL_RESP: Protocol version = 02, Token = a7a4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2093934117, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAUwPgSkNTEz+fg08iHg84gAUTZBKHWuOxXUw1AJQLXo8gi3/xahonep5WekrC2MdtxUr+UcfIiHVgUkuyHbI9tMx+5D5BpUH73DzeyDyhOWouIau+5EPC61quEIntcdVZF8ioeMkF2W06pmhQT57RiJ5agvurf+mGBiZqx6/khXxWXOL0DF8/d8VqKRmsBwEzDAemkkbztpW5zfuHqfmM8cFPXBY+z7fWBx4BPPeogGOUU4BSeoSc/ewsQwOT5zex3aletdja5J0Sp3aquQ1/vsypztCvAIx+FECkIrzEOASwqbFUjV1sJ24O0YITcI1t6N41n4tunrcY'}}
0:03:00.313870	LOG	Server --------------------> DUT
0:03:00.317382	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:00.321382	LOG	Check previous uplink data rate process starts
0:03:00.326384	LOG	Uplink received with expected Data Rate
0:03:00.328950	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:05.204016	LOG	First uplink received. Open reception window.
0:03:05.318068	LOG	PUSH_ACK: 02 3400 01
0:03:05.319626	LOG	GPS Time from gateway: 1385116233789
0:03:05.321592	LOG	PUSH_DATA: Protocol version = 02, Token = 3400, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2097933867, 'time': '2023-11-27T10:30:14.789095Z', 'tmms': 1385116233789, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3347, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAZgYC2AmG5vX2Fu6+m7Q='}]}
0:03:05.322590	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0666, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: eebe9bb4)
0:03:05.323592	LOG	Server <-------------------- DUT
0:03:05.325593	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0354, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: ad9e414f)
0:03:05.327591	LOG	Frame command sent to the DUT
0:03:05.328592	LOG	PULL_RESP: Protocol version = 02, Token = fb27, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2098933867, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAVAPgBxZ/s2nhvd1T84OTYTHvbdSuA+L6bqzDqcAbgOX3VeAJcROkM1VEm4uKxmkqASRZRAVvf2hFjiIatmIxfSKQc3nZSJ4CDeo/E9e6FP4SeV675dxMZQCrqR0YNEtL1kBfxBAKATG+epXA9AQhDrupWzg7g+95uUZ6BN7O1ZmcvjYwV3lYLkjIfSjg/Q5JBiGN7VNw9p8VeQ8Lm8XCECUMWMy7Sw04ueFdOzfSmJSGJndcq7sNV4HSCZlFk8pUq9KCKKIS5FEtG2gwuB5TIyfxZSSX4RqcGRB/DrhyxRGSqsXgZx4yd6K+LL8AAkmWf4+m9R+tnkFP'}}
0:03:05.330591	LOG	Server --------------------> DUT
0:03:05.333698	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:05.336703	LOG	Check previous uplink data rate process starts
0:03:05.340704	LOG	Uplink received with expected Data Rate
0:03:05.343704	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:07.844386	LOG	GPS Time updated: 1385116236428
0:03:07.845386	LOG	PULL_DATA: 02 62c2 02 0016c001ff1025bf

0:03:07.847355	LOG	PULL_ACK: 02 62c2 04
0:03:10.198896	LOG	First uplink received. Open reception window.
0:03:10.310038	LOG	PUSH_ACK: 02 e265 01
0:03:10.312005	LOG	GPS Time from gateway: 1385116238789
0:03:10.313004	LOG	PUSH_DATA: Protocol version = 02, Token = e265, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2102933607, 'time': '2023-11-27T10:30:19.788833Z', 'tmms': 1385116238789, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3347, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAZwYCpbr29HJ/hMfP9xY='}]}
0:03:10.315013	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0667, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c7cff716)
0:03:10.316524	LOG	Server <-------------------- DUT
0:03:10.318523	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0355, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 483b373a)
0:03:10.320523	LOG	Frame command sent to the DUT
0:03:10.322523	LOG	PULL_RESP: Protocol version = 02, Token = 8607, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2103933607, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAVQPgryidVjrHMm6TW1znk/WV1+2rrXH456Ch83KzoMXb4YU4pU6y+SvSFsDDO/K2cxjGC+2yKSv4Mz7E5NFxEZpyN4ar11XduHGgaL9CqwJanTfzj/qLvxUNoitPyTQcmv7PyOWc1F9s4cR6dBsbr/kkeZZumXbuzxcK/WuqMB/vNR7FZqNOcol2oogAz4SlFqOs8T7V41VxhBbfdN+BRK6qFLhuVud1YI4nmyMbhgpnerTnfVbtO+u95zwNYbxNkZONFD3T7kMqBw1l92BHELxFByHt81mtNlzvtXRC4+c6iWAWz5LYG1A8dxs2lOn4euI4/WxIOzc6'}}
0:03:10.323528	LOG	Server --------------------> DUT
0:03:10.326528	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:10.330528	LOG	Check previous uplink data rate process starts
0:03:10.335529	LOG	Uplink received with expected Data Rate
0:03:10.339031	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:15.205572	LOG	First uplink received. Open reception window.
0:03:15.310761	LOG	PUSH_ACK: 02 8489 01
0:03:15.312763	LOG	GPS Time from gateway: 1385116243788
0:03:15.313762	LOG	PUSH_DATA: Protocol version = 02, Token = 8489, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2107933346, 'time': '2023-11-27T10:30:24.788573Z', 'tmms': 1385116243788, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3343, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAaAYC/XJxC8dwh6eAY44='}]}
0:03:15.315234	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0668, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a780638e)
0:03:15.316241	LOG	Server <-------------------- DUT
0:03:15.319241	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0356, FOpts:), FPort: e0, FRMPayload: 070001

		0101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 3af83180)
0:03:15.321274	LOG	Frame command sent to the DUT
0:03:15.322275	LOG	PULL_RESP: Protocol version = 02, Token = b7a7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2108933346, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAVgPgk8BhxoUJwk3sQkGMO/sbOFdOWUtKkblUTst8qaM8TJeq/VEDNHF6WpGCHEznmr7bBE4cm3z01rxR1xQK8FZqbK12hVjhnhb2LVtuHEDvSQp34EkJVNxYzAvytWSk/PLzbP3sgeesBNQ4BxHnhVPK+2212/IpWKBne4bd6aRdvGygEnXDe94yixv5KOt0VtqfaniQ3WO8YiNsiO1kDV/hY0WMjSTqhC2wURJSzIq1wEa0lljD8DReMDC5sei5Hp5gkf7XP4egWiu+L7Yu8Eqc18p27kRR/Ggiep3ovuQYU/VM9j5UPdfqRKCGaLTX6TzHp/U6+DGA'}}
0:03:15.323273	LOG	Server --------------------> DUT
0:03:15.326873	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:15.329724	LOG	Check previous uplink data rate process starts
0:03:15.334014	LOG	Uplink received with expected Data Rate
0:03:15.336954	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:18.053516	LOG	GPS Time updated: 1385116246636
0:03:18.055517	LOG	PULL_DATA: 02 7257 02 0016c001ff1025bf
0:03:18.057524	LOG	PULL_ACK: 02 7257 04
0:03:20.204766	LOG	First uplink received. Open reception window.
0:03:20.313838	LOG	PUSH_ACK: 02 60f5 01
0:03:20.316167	LOG	GPS Time from gateway: 1385116248788
0:03:20.317166	LOG	PUSH_DATA: Protocol version = 02, Token = 60f5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2112933084, 'time': '2023-11-27T10:30:29.788310Z', 'tmms': 1385116248788, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.0, 'foff': -3346, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAaQYC76gmx+as7BgDjnU='}]}
0:03:20.318167	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0669, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 18038e75)
0:03:20.320161	LOG	Server <-------------------- DUT
0:03:20.322134	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0357, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 2da2b35f)
0:03:20.323133	LOG	Frame command sent to the DUT
0:03:20.325172	LOG	PULL_RESP: Protocol version = 02, Token = 4dd2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2113933084, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAVwPgnqKMkBDdwjs7/nevoHprZYY4qDHJ5xuAltFHReikRGL5Hxe3OCehwF6rXX4GGiiw6xw46kmjhBDAYM0QGBCMVTBkk3/HRgqnb9xHFkjd8YY6bdvfoI7zVGN1FZNj2Ip9KpTJWeytOsOVKzaNpP6LEmBRM/trN0a4hBUPL/YJLrSxU6QcUT/P821v/uDpCixd7FE+Gk2h6G+1T70A2RikzmqX2DYIodOEZbcIOI41rm0OvEZbI7ZgmZ+gY0uc5oQzfLrmc4s1l0uMy2e8ddlefs/0JL8MXK9w7B5nNJaQKO3RHhSzFSDhRBawk5Wofnb3WiwtorNf'}}
0:03:20.326166	LOG	Server --------------------> DUT
0:03:20.329135	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:20.331938	LOG	Check previous uplink data rate process starts
0:03:20.335926	LOG	Uplink received with expected Data Rate

0:03:20.338935	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:25.205217	LOG	First uplink received. Open reception window.
0:03:25.313597	LOG	PUSH_ACK: 02 0df0 01
0:03:25.315068	LOG	GPS Time from gateway: 1385116253788
0:03:25.317074	LOG	PUSH_DATA: Protocol version = 02, Token = 0df0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2117932833, 'time': '2023-11-27T10:30:34.788058Z', 'tmms': 1385116253788, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3343, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAagYCEnbdnNfGtng68oU='}]}
0:03:25.318073	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 066a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 783af285)
0:03:25.319073	LOG	Server <-------------------- DUT
0:03:25.321074	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0358, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 5b9a8673)
0:03:25.323074	LOG	Frame command sent to the DUT
0:03:25.324073	LOG	PULL_RESP: Protocol version = 02, Token = 80c9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2118932833, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAWAPggvFS5oPhmg71p1wBKCI86aKnUCdjJM3jJtLf/BAFtbBfDdB dDLZTrRQ4FSSry0YVdHQkGy6IsJW8c662h0KlR+laC5XAwSPb/7p20XbPvwlbJ 37lpRg+SZxRcckr76KQlGzHJigh3WCRBlwEhfHzc8jUmpW2LF9076rdNbabdm8 dxa+G3qcSsIeIvGBeA/V6A+yOr4RDUBY1E5HLbxF8CthFiFyzJZMyINqscZfC9c 0Tl3X7agXB/iRswmFgFdybXj74V3ebxzmqAbp3ZF6B8Sq/UAeyQ9zGMR0KC/4 ZeeaMDovM0fX6xI7Slwk92JRe1gdbmoZz'}}
0:03:25.326073	LOG	Server --------------------> DUT
0:03:25.328073	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:25.330765	LOG	Check previous uplink data rate process starts
0:03:25.334771	LOG	Uplink received with expected Data Rate
0:03:25.338572	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:28.263444	LOG	GPS Time updated: 1385116256847
0:03:28.265413	LOG	PULL_DATA: 02 b33c 02 0016c001ff1025bf
0:03:28.267413	LOG	PULL_ACK: 02 b33c 04
0:03:30.195818	LOG	First uplink received. Open reception window.
0:03:30.305574	LOG	PUSH_ACK: 02 94f3 01
0:03:30.307574	LOG	GPS Time from gateway: 1385116258788
0:03:30.308573	LOG	PUSH_DATA: Protocol version = 02, Token = 94f3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2122932574, 'time': '2023-11-27T10:30:39.787798Z', 'tmms': 1385116258788, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3346, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAawYCqJ6s48saWekETCQ='}]}
0:03:30.310538	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 066b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e9044c24)
0:03:30.311541	LOG	Server <-------------------- DUT
0:03:30.313574	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0359, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010

		1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 36212272)
0:03:30.315113	LOG	Frame command sent to the DUT
0:03:30.317119	LOG	PULL_RESP: Protocol version = 02, Token = 7d5d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2123932574, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAWQPgfechNSkXv+Ok0/kUjj1hlOhEk2AaZdIAAJvnD/KIB+BpacfQNvTZy1ncw426Uoj5vKC2jPgEoClJZ6W1tWPKh9cQKDUp6kITkNW6keJRrvBaTkCK6+oZHi1ey+oSa9JoQ9u31D8dJz005z9uR/et0fGeBZ8Bti9Ntwooi3PQqTvBl1RFLug+ksSntogl72xukxaooqbLrPJeraGqDNwlv3j4v9nhGJByuLuRxJWzHapUShQQ1eHpEqm10uspI7zk6r6JKt7YPQxz9e7uGm5cIlEZicLDk+2e+1hn6F2Fs2OSuocnwCREM5hr4eDLuMGd00Q2ISJy'}}
0:03:30.318118	LOG	Server --------------------> DUT
0:03:30.323120	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:30.327133	LOG	Check previous uplink data rate process starts
0:03:30.331118	LOG	Uplink received with expected Data Rate
0:03:30.335123	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:35.205387	LOG	First uplink received. Open reception window.
0:03:35.309316	LOG	PUSH_ACK: 02 2d2c 01
0:03:35.311282	LOG	GPS Time from gateway: 1385116263787
0:03:35.312283	LOG	PUSH_DATA: Protocol version = 02, Token = 2d2c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2127932312, 'time': '2023-11-27T10:30:44.787535Z', 'tmms': 1385116263787, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3335, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAbAYCj/bDskjElf2OSD0='}]}
0:03:35.313320	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 066c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fd8e483d)
0:03:35.314859	LOG	Server <-------------------- DUT
0:03:35.316865	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 035a, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: c76d3d06)
0:03:35.318865	LOG	Frame command sent to the DUT
0:03:35.320893	LOG	PULL_RESP: Protocol version = 02, Token = 7a74, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2128932312, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAWgPgaLqmTqDwhzrw1FMI0uNub4l8slqdFKUVEz99QTPTO/et88zBHjGtJkzRkyx3ZaFl6FNgX3I/kqmJivpWoxiwuNbEnRWE6oEyGaRRGeHwi41zsP3eAMDl8nyEqvxdiTWNedvseatwpn89TqzXUu/DOt+8a+L70rPPgvQ0NGQwqmfhkiXEBAoAZRoAnCKmseICswqHj25ua0kcZoWN9i6kVnh7ZVIL1IKhGaSdvUT0xychXN4/UmKYl5HeP8z4z6qjvd/wpZIdgMOeHwsQ3b0/Llru7sqOVkFxrejkdTn4rv+8UeXggTI7r9Yu+iz1bKdEHArHbT0G'}}
0:03:35.321897	LOG	Server --------------------> DUT
0:03:35.324864	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:35.327857	LOG	Check previous uplink data rate process starts
0:03:35.332118	LOG	Uplink received with expected Data Rate

0:03:35.335056	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:38.274260	LOG	GPS Time updated: 1385116266856
0:03:38.275260	LOG	PULL_DATA: 02 0ab0 02 0016c001ff1025bf
0:03:38.277262	LOG	PULL_ACK: 02 0ab0 04
0:03:40.200111	LOG	First uplink received. Open reception window.
0:03:40.308378	LOG	PUSH_ACK: 02 6086 01
0:03:40.310381	LOG	GPS Time from gateway: 1385116268787
0:03:40.311384	LOG	PUSH_DATA: Protocol version = 02, Token = 6086, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2132932051, 'time': '2023-11-27T10:30:49.787273Z', 'tmms': 1385116268787, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3335, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAbQYC3c28XIo7/wscsOk='}]}
0:03:40.313382	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 066d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0b1cb0e9)
0:03:40.313382	LOG	Server <-------------------- DUT
0:03:40.316893	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 035b, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: b1d0c1f2)
0:03:40.318895	LOG	Frame command sent to the DUT
0:03:40.320898	LOG	PULL_RESP: Protocol version = 02, Token = 0432, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2133932051, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAWwPg4/mgfeno7I5A4f58SmeyJAL9ETlA0QG5a+5yTNMZmnvtdTLA4ETld3GEkP8iedWImYBnEUjh7aUlup4ZJ2ixuuSjTo+aeGQS9sJT3+yO88rVAsmyg+vPrSa9vv1ntn88x3k45WpC9XxVTelMKLgjihdJGsNRST0CUg74tlxGVAJSI4DKAPb97SzXDpf95XlHJ/ZVJd0ubDt3uNBVo4cM/fXeimkxK1FyDGLEzLMCzaz3Vh54MTcTf4IYiV60kvrrzs/JEIhSgFyzIwLwnr5xQapufZtZNRHdY6q4njNVk/8wHBoEQC5OTbigXthdntUnqeCx0MHy'}}
0:03:40.322934	LOG	Server --------------------> DUT
0:03:40.325928	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:40.328929	LOG	Check previous uplink data rate process starts
0:03:40.332933	LOG	Uplink received with expected Data Rate
0:03:40.336081	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:45.203311	LOG	First uplink received. Open reception window.
0:03:45.304834	LOG	PUSH_ACK: 02 69e6 01
0:03:45.306835	LOG	GPS Time from gateway: 1385116273787
0:03:45.307835	LOG	PUSH_DATA: Protocol version = 02, Token = 69e6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2137931787, 'time': '2023-11-27T10:30:54.787007Z', 'tmms': 1385116273787, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3335, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAbgYCZiAgsfDjz3XLpdk='}]}
0:03:45.308835	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 066e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 75cba5d9)
0:03:45.310835	LOG	Server <-------------------- DUT
0:03:45.312836	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 035c, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010

		10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 3b3f808b)
0:03:45.313835	LOG	Frame command sent to the DUT
0:03:45.316346	LOG	PULL_RESP: Protocol version = 02, Token = 249f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2138931787, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAXAPgGZuLOaOF3BVgJZ5/tkgmS5SiEvsaJ81WktVI/gsGJr8PL0EenyNa+6V0GQJ5qRb1OImgolBwZ5gBkO/AokjIBmAHVCDuGpL60FHQ8D/hPRe6qMMOhgNCr28bW16p4L9oHSjPQzVrEXWCurKJ0+uj+7jPvu7ejM4+jgTZGeUVhLxo/DPZKL3/a9xv2ylQRIQL5aWavtNaKVPmhpgQ4apBZUFbgMfCotYyM1RpQ5ecXG491DWiPPG9B9Yl66YIX5kyYvtg9VoWe6dpJFVVhPx7iv2AYXiPmMP+CO1NXWDJ+K0/CmzlOCTl4q8rXlhEeOJqJ+M7P4CL'}}
0:03:45.317346	LOG	Server --------------------> DUT
0:03:45.321345	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:45.324346	LOG	Check previous uplink data rate process starts
0:03:45.328798	LOG	Uplink received with expected Data Rate
0:03:45.331932	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:48.464196	LOG	GPS Time updated: 1385116277047
0:03:48.465231	LOG	PULL_DATA: 02 f25c 02 0016c001ff1025bf
0:03:48.467214	LOG	PULL_ACK: 02 f25c 04
0:03:50.195725	LOG	#****************************CURRENT BEACON SENT****************************#
0:03:50.196724	LOG	PULL_RESP: Protocol version = 02, Token = 92be, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385116288000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAMo9S7AcAAAAAAAAAAAA='}}
0:03:50.198724	LOG	Server --------------------> DUT
0:03:50.199724	LOG	#**#
0:03:50.208732	LOG	#****************************NEXT BEACON QUEUED****************************#
0:03:50.210732	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385116416000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAM49S5O0AAAAAAAAAAAA='}}
0:03:50.211732	LOG	Server --------------------> DUT
0:03:50.213732	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 00338f52, CRC1: e4ed, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385116416000
0:03:50.214732	LOG	#**#
0:03:50.215732	LOG	Next BEACON scheduled at GPS time (ms): 1385116544000
0:03:50.216732	LOG	First uplink received. Open reception window.
0:03:50.218841	LOG	TX_ACK: 02 92be 05 0016c001ff1025bf
0:03:50.324885	LOG	PUSH_ACK: 02 c626 01
0:03:50.330844	LOG	GPS Time from gateway: 1385116278787
0:03:50.333860	LOG	PUSH_DATA: Protocol version = 02, Token = c626, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2142931529, 'time': '2023-11-27T10:30:59.786750Z', 'tmms': 1385116278787, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3332, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAbwYC6qVP9V///XDpkNc='}]}
0:03:50.335893	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 066f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 70e990d7)

0:03:50.336894	LOG	Server <-------------------- DUT
0:03:50.339895	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 035d, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 3a6d695f)
0:03:50.341866	LOG	Frame command sent to the DUT
0:03:50.342893	LOG	PULL_RESP: Protocol version = 02, Token = 5198, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2143931529, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAXQPgjtN/znIXVsjDLfKnXX8k7a3HN/Yqo4sSREjotf/KB4shCIc1ciNZ+QlUPreKlzkRFnUoohGWBlJ2MA4ktQrstG4DgHLI3tD5VHmhf6UPl6FU+HYLuwXJ/b3IJ/ACnXta93u+tASPUyXh6IPeemvoNZD8n4mtx9hsXWELX5SF6MXfht5qe/24az5pf5Tb0ZKt+jq98e9neaLabuhcY7XcjzRYjRt/6ANdFiJc4WVfPHWZ5U2mQo2+Ys4dZZ6+SIoG6G2YkZoC3Srtz7grtgzNAFFilAGOLSQ4HLhd4FV7xKkmf0j0L0DX3300VD50mxoQ96M6bWlf'}}
0:03:50.344860	LOG	Server --------------------> DUT
0:03:50.347372	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:50.350406	LOG	Check previous uplink data rate process starts
0:03:50.355375	LOG	Uplink received with expected Data Rate
0:03:50.358766	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:55.201635	LOG	First uplink received. Open reception window.
0:03:55.303710	LOG	PUSH_ACK: 02 5c28 01
0:03:55.305713	LOG	GPS Time from gateway: 1385116283786
0:03:55.306748	LOG	PUSH_DATA: Protocol version = 02, Token = 5c28, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2147931277, 'time': '2023-11-27T10:31:04.786497Z', 'tmms': 1385116283786, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3346, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAcAYCK9KpQ2/tkPlMe1c='}]}
0:03:55.308714	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0670, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f94c7b57)
0:03:55.309745	LOG	Server <-------------------- DUT
0:03:55.311714	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 035e, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: c0765784)
0:03:55.313714	LOG	Frame command sent to the DUT
0:03:55.314746	LOG	PULL_RESP: Protocol version = 02, Token = 9f44, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2148931277, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAXgPghCJduITqbjSAmF5GU8VZz41cSz+YMe8w1Das/WBa1n3GuOFhDwsat0XAlJS+lJJ4w8jbMTf5gCP7u/dwOqsqLFJK5IFMk9QF1l2p3XO1wI/B6KyccIRAb8jPq3Wj6WLkmDzaVDOoU3ySCuAMHWMuhAOen4PrtAYd43HhSXyDGYcmwZV/5WZw5udBo+6PIn5aXIT4u/EraaJFosm7d7s3nexk+h4jwQyS+51

		Mh5bUz9/B5W0jGKCR9GRHPh+E0pRlHuL2IPn1LHLJWwsPAXloOCNUDIQP1RmTvTRtHDcwiOUWMmI0gyeMF3H8BjI07xQtTi7AdleE'}}
0:03:55.315830	LOG	Server --------------------> DUT
0:03:55.319833	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:55.322864	LOG	Check previous uplink data rate process starts
0:03:55.326862	LOG	Uplink received with expected Data Rate
0:03:55.330831	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:58.673515	LOG	GPS Time updated: 1385116287258
0:03:58.675484	LOG	PULL_DATA: 02 e83e 02 0016c001ff1025bf
0:03:58.676483	LOG	PULL_ACK: 02 e83e 04
0:04:00.197900	LOG	First uplink received. Open reception window.
0:04:00.300563	LOG	PUSH_ACK: 02 c700 01
0:04:00.302563	LOG	GPS Time from gateway: 1385116288786
0:04:00.303532	LOG	PUSH_DATA: Protocol version = 02, Token = c700, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2152931020, 'time': '2023-11-27T10:31:09.786239Z', 'tmms': 1385116288786, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3347, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAcQYCKabjKb66IUH2kYQ='}]}
0:04:00.305569	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0671, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 41f69184)
0:04:00.306569	LOG	Server <-------------------- DUT
0:04:00.308570	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 035f, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 62ccff6d)
0:04:00.310572	LOG	Frame command sent to the DUT
0:04:00.311574	LOG	PULL_RESP: Protocol version = 02, Token = f8a7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2153931020, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAXwPgWPZDXvk8nSlc56pdK3eOwPZqWt8cK/ZCLcxwrwLfdL3YSSAgiXqfi30b14sRJPIrw0wgb9x1BOHMiWnCNzXdaue3c6lbGnEM3+1Qav5+1zgbyUkA/flt0n9HVCuic7AHUz5PlD9ua0hjb+ETGmGSOnObB1E9eo22pIBd7jFIgyzOHm9XCEPXFFoA0Pn+Eod8MsDmTD8S8B1E6TFiwVkoJ0n9RWJGW2VysXorMfdHOr3if+r8QqC6i/BrlQ7tgAYZem/lMJWOgn2uPqG60LoGw0bmu5oiMdty7S9dyXyvkm8d9FqGqbOyZJHCs7uJakYXu6VizP9t'}}
0:04:00.313538	LOG	Server --------------------> DUT
0:04:00.316077	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:00.319985	LOG	Check previous uplink data rate process starts
0:04:00.324995	LOG	Uplink received with expected Data Rate
0:04:00.328026	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:05.198862	LOG	First uplink received. Open reception window.
0:04:05.312315	LOG	PUSH_ACK: 02 c427 01
0:04:05.313316	LOG	GPS Time from gateway: 1385116293786
0:04:05.315826	LOG	PUSH_DATA: Protocol version = 02, Token = c427, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2157930756, 'time': '2023-11-27T10:31:14.785974Z', 'tmms': 1385116293786, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3347, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAcgYCHK5hInsHuyAUDIE='}]}
0:04:05.316828	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0672, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 20140c81)

0:04:05.317826	LOG	Server <-------------------- DUT
0:04:05.319825	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0360, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 6f40cbf3)
0:04:05.321871	LOG	Frame command sent to the DUT
0:04:05.322858	LOG	PULL_RESP: Protocol version = 02, Token = c290, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2158930756, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAYAPgRVhqzlCHyudp1oJxZ7qmP0hRT3JaKRprenENsvBlvcRHyXT5XVStnaK4LZBYyhCyPD4pZoNISMs9ik6InazsABvSg92bjek67wgv76rXlGJJXt9KLZ0QuMo72TfjVs79LPxeqKjpHTgROuFhom/YqXOHbdeNUpn6dA9O9YcTgZA5ACBHkBpDnOD4aCVTNv7KDvE4l8yu/wkJAx3Cr99V45eti+zZWNKsaJQK7QWONX75OevLQ2MSUKVRh5Id1o4k1JLB4JPRjqD5t98ShvGcFWm2ZjDpegLM/RX67FUQlR8oc9cc2zzkNisr1bObfjcBDcxvQMvz'}}
0:04:05.324826	LOG	Server --------------------> DUT
0:04:05.327828	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:05.329859	LOG	Check previous uplink data rate process starts
0:04:05.334511	LOG	Uplink received with expected Data Rate
0:04:05.337556	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:08.683964	LOG	GPS Time updated: 1385116297271
0:04:08.684963	LOG	PULL_DATA: 02 f5d2 02 0016c001ff1025bf
0:04:08.686970	LOG	PULL_ACK: 02 f5d2 04
0:04:10.201754	LOG	First uplink received. Open reception window.
0:04:10.316879	LOG	PUSH_ACK: 02 17a8 01
0:04:10.318846	LOG	GPS Time from gateway: 1385116298786
0:04:10.319846	LOG	PUSH_DATA: Protocol version = 02, Token = 17a8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2162930492, 'time': '2023-11-27T10:31:19.785709Z', 'tmms': 1385116298786, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3347, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAcwYCTn6pJgPanS6T3y8='}]}
0:04:10.320847	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0673, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2e93df2f)
0:04:10.322847	LOG	Server <-------------------- DUT
0:04:10.324847	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0361, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 47dbee4a)
0:04:10.326846	LOG	Frame command sent to the DUT
0:04:10.327847	LOG	PULL_RESP: Protocol version = 02, Token = 29ac, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2163930492, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAYQPgLcLSru6DysY+4XBe2OB6XWbzbe4+jNw1ZBi0JW8cxOQE

		mEYypVm+7aPIXmOEHC/AUjy2I5WnzHdqZb8KIBbn28AsAWk1Bl4uoJ9ZrKEG7a3nl6UIhcaN/Lf1xHWRnZN01zkRwO6LWRmm3NA7qVFoVYoqmJYjGnzPlOzwxSXLp8jEO/D3GK8+c717DbpD9zVOX+LSH68sKs2WfregICjdd1M1ruPIBTdI52xzEuhjrLAFr/w6vK4+cM5Sc1gNeWvBvEvFl2f9ILeoo3XpMcbfo3pDGZ/clUsfLXZjMzM2/nE4PP2ErRWoyV71ATAgL53yz8hH2+5K'}}
0:04:10.328847	LOG	Server --------------------> DUT
0:04:10.331855	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:10.334853	LOG	Check previous uplink data rate process starts
0:04:10.339852	LOG	Uplink received with expected Data Rate
0:04:10.342851	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:15.202026	LOG	First uplink received. Open reception window.
0:04:15.312748	LOG	PUSH_ACK: 02 0ed6 01
0:04:15.314750	LOG	GPS Time from gateway: 1385116303785
0:04:15.315806	LOG	PUSH_DATA: Protocol version = 02, Token = 0ed6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2167930243, 'time': '2023-11-27T10:31:24.785459Z', 'tmms': 1385116303785, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3332, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAdAYCKe0xoLiJX78l8UA='}]}
0:04:15.317807	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0674, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: bf25f140)
0:04:15.318806	LOG	Server <-------------------- DUT
0:04:15.320807	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0362, FOpts:), FPort: e0, FRMPayload: 070001), MIC: cc261fe5)
0:04:15.322806	LOG	Frame command sent to the DUT
0:04:15.323806	LOG	PULL_RESP: Protocol version = 02, Token = 4b85, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2168930243, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAYgPgMJV7K5zB8snW/4GJIzuio+40EavavqdUpl9wsHxZq7/kkxP+Zd2yE9JhmbsUhDsYFsaCgeVdqEni6FE3OBsrUkQYKCeChsGshXR37nWTPvckMBxHKS5jYPRX0wQGxwdVajqrq4FxHSZJyq+BFdZYYmm/4yEuNa84JrUeF4zStnFLKglOeqyxHZ+2vPZNy/5MlMTVHQBJDrUx8Lk4i1W8EAohpHzDdA436Yu5fr5nd1z9DVN8+wGn6aIKztMs7Sv6G2ZrES3UCM+qzxUMk3riZPuoGPTGpis4DsPVxfATCbkD/DcQUht8d32rxL3zOLo2AGPMJh/l'}}
0:04:15.324807	LOG	Server --------------------> DUT
0:04:15.327808	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:15.331090	LOG	Check previous uplink data rate process starts
0:04:15.335249	LOG	Uplink received with expected Data Rate
0:04:15.338482	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:18.893698	LOG	GPS Time updated: 1385116307476
0:04:18.894695	LOG	PULL_DATA: 02 0ba2 02 0016c001ff1025bf
0:04:18.896666	LOG	PULL_ACK: 02 0ba2 04
0:04:20.200082	LOG	First uplink received. Open reception window.
0:04:20.315437	LOG	PUSH_ACK: 02 c938 01
0:04:20.317442	LOG	GPS Time from gateway: 1385116308785
0:04:20.318441	LOG	PUSH_DATA: Protocol version = 02, Token = c938, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2172929982, 'time': '2023-11-27T10:31:29.785196Z', 'tmms': 1385116308785, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3331, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAdQYC3lZvjb4NOvnKSdg='}]}
0:04:20.319442	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0675, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f9ca49d8)
0:04:20.321442	LOG	Server <-------------------- DUT
0:04:20.323442	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0363, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 9f1b0bd0)
0:04:20.325442	LOG	Frame command sent to the DUT
0:04:20.326442	LOG	PULL_RESP: Protocol version = 02, Token = 3e45, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2173929982, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAYwPgccs/5Lnx0xfKObNsbT7BfGbdv3XNTWtlrOPVioRkGXvo/slnpAh86JX/b/ZOokmmFtsPGcNaEm5X3l1gGo22MO1vs2AEmbupYtaFtcBgi3YDpNt/lp1xUNGJAA/Cbc8axUXU5nfXDsGzgIrJ5WP+SldARdVY/KajmUz6V7TQO5d+xmqF+DOg+LW89Ml8DEEgqSgKgPGlOSlaZY9mBkLwwcluyhnR/Y1QRbBuTIomOPXN4H/s4qQumJKeRBowQznWDyZEq/eG043zl0We/BATkX2zDrO660iuZ/8i715qA4zUTLNt016pdVXdhBM6hzXOCaWfGwvQ'}}
0:04:20.327442	LOG	Server --------------------> DUT
0:04:20.330455	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:20.333398	LOG	Check previous uplink data rate process starts
0:04:20.337290	LOG	Uplink received with expected Data Rate
0:04:20.340410	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:25.192230	LOG	First uplink received. Open reception window.
0:04:25.298007	LOG	PUSH_ACK: 02 ced4 01
0:04:25.300013	LOG	GPS Time from gateway: 1385116313785
0:04:25.301048	LOG	PUSH_DATA: Protocol version = 02, Token = ced4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2177929720, 'time': '2023-11-27T10:31:34.784935Z', 'tmms': 1385116313785, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3335, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAdgYCQqBktWmBxnONfzY='}]}
0:04:25.302045	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0676, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 738d7f36)
0:04:25.304045	LOG	Server <-------------------- DUT
0:04:25.306045	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0364, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 6cac5c84)
0:04:25.307044	LOG	Frame command sent to the DUT
0:04:25.309045	LOG	PULL_RESP: Protocol version = 02, Token = a2e3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2178929720, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data':

		'YAAAAAAAZAPgkd+hG187emAeqOUUiVzv0EkBm0QDlnEOwUNp+p2CFGg eB4SXC5njIq7cCbje2TNhI6xzDxRJ4IuRay5dW+Qb9yJJbk+ZEqV/izKrI6cITFv64 eTtZCndiUNLJzBUx8Q16YfRltHuceVX75tG0tskAMVmcAEbQJlKr1SkZakS+co mvp7NtCI7AltprFTgUF5oAkC1RxvCzYQ6Iot/ErmlIMa9qoIVEdb3vRd8l54ovPse bZIpiFoRjn9BT5tV0DNjL23di9/h7OxIr5hE24viq8ZhNQkCSBsaV1AxrIJWsVoxB i3ayNxUYa7yHQ08kN/lCmtsrFyE'}}
0:04:25.310045	LOG	Server ----------> DUT
0:04:25.312013	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:25.316118	LOG	Check previous uplink data rate process starts
0:04:25.320163	LOG	Uplink received with expected Data Rate
0:04:25.324124	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:29.084025	LOG	GPS Time updated: 1385116317677
0:04:29.085025	LOG	PULL_DATA: 02 e92e 02 0016c001ff1025bf
0:04:29.087062	LOG	PULL_ACK: 02 e92e 04
0:04:30.195177	LOG	First uplink received. Open reception window.
0:04:30.311240	LOG	PUSH_ACK: 02 144c 01
0:04:30.313209	LOG	GPS Time from gateway: 1385116318784
0:04:30.314208	LOG	PUSH_DATA: Protocol version = 02, Token = 144c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2182929465, 'time': '2023-11-27T10:31:39.784679Z', 'tmms': 1385116318784, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3331, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAdwYCS9dkKH+DTuFTur0='}]}
0:04:30.316218	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0677, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e153babd)
0:04:30.317217	LOG	Server <---------- DUT
0:04:30.319726	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0365, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101), MIC: 60c6ba66)
0:04:30.321734	LOG	Frame command sent to the DUT
0:04:30.323734	LOG	PULL_RESP: Protocol version = 02, Token = ff40, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2183929465, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAZQPg2hu/uyJ8uXiVF8wBsIwpM9i1uUHHbFLmweLFoGZ5lBkcjfF 7TTKTjbYrHLXx9rWyq3cMZ5i9rHLn8Nt80CZgF8mY7WOiXDQoFZMChlnbB7 i66bRiaXQU/iWUrSFkVML5uBwgf+9rQNEuMR5Ba4TQXKmZ99rxTT8Xa6MQ KG2m8YKHCHv8BmYJBD81aSEGgnUlKqh2z3JNOkby4RFU8lZVH3ZKcPyG2l W79RViiWLx/zxIJxtZU69TB2MgTabyyWXcRYxapW+6XzeNe279ONPG/J0Oyi YLvNljo+gCtfFQ88/+MMWDysaXFFcioZ71UUsGaKRgxrpm'}}
0:04:30.324733	LOG	Server ----------> DUT
0:04:30.327742	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:30.330726	LOG	Check previous uplink data rate process starts
0:04:30.334795	LOG	Uplink received with expected Data Rate
0:04:30.337803	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:35.199996	LOG	First uplink received. Open reception window.
0:04:35.313175	LOG	PUSH_ACK: 02 aedb 01
0:04:35.315176	LOG	GPS Time from gateway: 1385116323784
0:04:35.316685	LOG	PUSH_DATA: Protocol version = 02, Token = aedb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2187929200, 'time': '2023-11-27T10:31:44.784413Z', 'tmms': 1385116323784, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3332, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAeAYCnIM/uRDzToRSMuc='}]}
0:04:35.317686	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0678, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 845232e7)
0:04:35.318686	LOG	Server <-------------------- DUT
0:04:35.320686	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0366, FOpts:), FPort: e0, FRMPayload: 070001), MIC: d1314f95)
0:04:35.322720	LOG	Frame command sent to the DUT
0:04:35.324258	LOG	PULL_RESP: Protocol version = 02, Token = 21f4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2188929200, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAZgPgx4d4c0JVLHwOEOJ1rkmIyDVhJuXORSHbwKPVypoF4Gj0uAU8GVRLLLpnw6+7hFm0z5GYfIkemBMlKQVPHqVWVWFDfPAqi2xiBsHsWsElVpvblmUkQlmEWWLNNtqR6/i+WDYqQhxwDYK0kdBz2VC7FZEc4LqHMuxxsABa0rqxaLVBijcbyRu1JjvxVLk9wj1u+1I4LGlY0KOOXxJUUXo3kmUWHQc7r9IG9cfF/CBxFne9EPaDGcJWz+ZFaSEehyqTh4sGX0/aecX+9QnGYPV5+Yb3nzf8+Axa4eZkGY/Hz/OxQ4PE/JIui1he7k7jDUpCop3RMU+V'}}
0:04:35.325295	LOG	Server --------------------> DUT
0:04:35.328264	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:35.331287	LOG	Check previous uplink data rate process starts
0:04:35.335307	LOG	Uplink received with expected Data Rate
0:04:35.338518	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:39.103594	LOG	GPS Time updated: 1385116327688
0:04:39.104561	LOG	PULL_DATA: 02 730b 02 0016c001ff1025bf
0:04:39.106562	LOG	PULL_ACK: 02 730b 04
0:04:40.193634	LOG	First uplink received. Open reception window.
0:04:40.299241	LOG	PUSH_ACK: 02 035b 01
0:04:40.301245	LOG	GPS Time from gateway: 1385116328784
0:04:40.302246	LOG	PUSH_DATA: Protocol version = 02, Token = 035b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2192928938, 'time': '2023-11-27T10:31:49.784150Z', 'tmms': 1385116328784, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3335, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAeQYCZXS+Js1feUAJNG8='}]}
0:04:40.303250	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0679, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4009346f)
0:04:40.305251	LOG	Server <-------------------- DUT
0:04:40.307251	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0367, FOpts:), FPort: e0, FRMPayload: 070001), MIC: de27699e)
0:04:40.308253	LOG	Frame command sent to the DUT

0:04:40.310251	LOG	PULL_RESP: Protocol version = 02, Token = 7870, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2193928938, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAZwPg6DgaLXrcMcCPhuhWrlHBhLDQga3wRmO1HX55h8ZlDmj9tphmBfiZ+dUl3b8GwtPihjZ0SqOp+Z3l4+BzUC2nUP33NGiTzkR6eZHuvWvO67iXDdFU7TvK1uU+jbk2knW+ASGV4T+Rg/os019Y359Rsm1FsPfkvVzjX4+1UfoIlXwyCA0PhUSN0yE+FYTuFz6kIPb5D5RGs5gPgA8jIHW8EIJwOd52ATqodTxBnRosKZ1FfBaE2cw3bPTniwkMTx35C3JsTD9OtExz+zZiCTLT3BFav+OQ5+bOJp401SffOSbuK9jteqcSdxiFIs6cIUbh+PreJ2me'}}
0:04:40.311250	LOG	Server --------------------> DUT
0:04:40.314250	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:40.317802	LOG	Check previous uplink data rate process starts
0:04:40.322764	LOG	Uplink received with expected Data Rate
0:04:40.325795	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:45.195134	LOG	First uplink received. Open reception window.
0:04:45.302791	LOG	PUSH_ACK: 02 4991 01
0:04:45.304762	LOG	GPS Time from gateway: 1385116333784
0:04:45.305794	LOG	PUSH_DATA: Protocol version = 02, Token = 4991, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2197928690, 'time': '2023-11-27T10:31:54.783901Z', 'tmms': 1385116333784, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.0, 'foff': -3332, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAegYCHjMj9+n6MKS96rs='}]}
0:04:45.307795	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 067a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a4bdeabb)
0:04:45.308798	LOG	Server <-------------------- DUT
0:04:45.310759	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0368, FOpts:), FPort: e0, FRMPayload: 070001), MIC: abdafc9b)
0:04:45.312759	LOG	Frame command sent to the DUT
0:04:45.313794	LOG	PULL_RESP: Protocol version = 02, Token = 5c25, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2198928690, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAaAPgBdQxIadnqbOX0VShyEVLf5HQIy8w2LRu2/F40BV2ahVFVwxydq5dFmd1QIsl1pS1kT2UKr2GJAw9aR8undQl+Y2FELXQ48jxQ7YVrfTJVjL/YzFf4SO+kKlcFYdoNA/KZV/kKJEwlWfwlQEqA8+HXjO8oCQMZVDW3W6luh62B8TSPs8085Vf9Yu2Y8Psa1DcIuUBLMiOfgwVUrSfnZoFkhciwXVXNHLdA/ryOOXF1AtU0vkZhNf/qpbtrhNo8K1xU+mT8WzEkmMSRqUkacInR6DnicvKedfvR6BkFQ95NjsRUALzuqgp+KZ5vcT2/Mq9Qg+r2vyb'}}
0:04:45.315334	LOG	Server --------------------> DUT
0:04:45.318341	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:45.321362	LOG	Check previous uplink data rate process starts
0:04:45.326229	LOG	Uplink received with expected Data Rate
0:04:45.329527	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:49.303622	LOG	GPS Time updated: 1385116337893
0:04:49.304621	LOG	PULL_DATA: 02 c811 02 0016c001ff1025bf
0:04:49.306622	LOG	PULL_ACK: 02 c811 04
0:04:50.199333	LOG	First uplink received. Open reception window.
0:04:50.309248	LOG	PUSH_ACK: 02 928d 01

0:04:50.311215	LOG	GPS Time from gateway: 1385116338783
0:04:50.312253	LOG	PUSH_DATA: Protocol version = 02, Token = 928d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2202928419, 'time': '2023-11-27T10:31:59.783629Z', 'tmms': 1385116338783, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3335, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAewYCmRCyf8+Mq2r9vcc='}]}
0:04:50.313248	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 067b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6afdbdc7)
0:04:50.315217	LOG	Server <--------------------- DUT
0:04:50.317305	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0369, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 6f6d15db)
0:04:50.319312	LOG	Frame command sent to the DUT
0:04:50.321304	LOG	PULL_RESP: Protocol version = 02, Token = 09b1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2203928419, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAaQPgniUl8mZZb59MIPs0xN4vWB+yAVZrh8L5Wx2VZlQTvIkyTDKdQOr3q2c4HVVvaffS9sy+uP10XPp8pSc79f8dYh5qr6NQGQ4yoj6ZqKkMAMyDEEoin4Vro4KQK/NZDP61Ea5WfRcIXdNj+xGD2QYDOOnp1y8ikI7tVNe5IRNvdVnCIdyCLtWGjMRkmpqPVbn5ljiZ9Z1p7bGmTzrah1THTu8DrsQIlQDGPcRc40HOOzedcVB86xpRPqbGIG//HGi3dzbqsKI4iEUPhFXiYzjntykedTnq+kKMJMbKKKx14YPQxjAQbirQl38WhJtZPYOi4UdvbRXb'}}
0:04:50.322303	LOG	Server --------------------> DUT
0:04:50.325333	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:50.328551	LOG	Check previous uplink data rate process starts
0:04:50.332597	LOG	Uplink received with expected Data Rate
0:04:50.335647	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:55.193879	LOG	First uplink received. Open reception window.
0:04:55.307743	LOG	PUSH_ACK: 02 3887 01
0:04:55.309743	LOG	GPS Time from gateway: 1385116343783
0:04:55.310745	LOG	PUSH_DATA: Protocol version = 02, Token = 3887, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2207928170, 'time': '2023-11-27T10:32:04.783378Z', 'tmms': 1385116343783, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3346, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAfAYCfAG6b2QHOLheGEE='}]}
0:04:55.311748	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 067c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b85e1841)
0:04:55.313756	LOG	Server <-------------------- DUT
0:04:55.315262	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 036a, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 93e433a0)
0:04:55.317268	LOG	Frame command sent to the DUT

0:04:55.319267	LOG	PULL_RESP: Protocol version = 02, Token = cf09, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2208928170, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAagPgbVFg8PowrpkdPudfVdK4Y/e0Dwpt7h/y9Hk4HjpATx03oPrhAoI9XyHiKPADS+1lG6cH6gcOF/eggfwH/qO2hfE7pSL9Kb5kSkQlaHIIN34+z7UgaC8i8UklcBukoNeAjZq2R1MSDIf8rpwyFxGC0dwGETAg5AbAZ4K1A1ek2+TwxmXOa/Z6KE1vic5y+DU83SFvDvy+U/t3g8eI8if/dLR90+RBr08lf6hPJ4CpICnFdcJ18BPdgDNcroAwUEhFCpTCzx7iqXSQudEyBmxRUIFied4YdRMp6J++z6UpKkSo/p30cGyLIHlt1HOAvCRmo/aT5DOg'}}
0:04:55.320307	LOG	Server --------------------> DUT
0:04:55.323269	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:55.326695	LOG	Check previous uplink data rate process starts
0:04:55.330907	LOG	Uplink received with expected Data Rate
0:04:55.334027	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:59.513534	LOG	GPS Time updated: 1385116348103
0:04:59.514533	LOG	PULL_DATA: 02 5f50 02 0016c001ff1025bf
0:04:59.516499	LOG	PULL_ACK: 02 5f50 04
0:05:00.195986	LOG	First uplink received. Open reception window.
0:05:00.300180	LOG	PUSH_ACK: 02 263b 01
0:05:00.302219	LOG	GPS Time from gateway: 1385116348783
0:05:00.303217	LOG	PUSH_DATA: Protocol version = 02, Token = 263b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2212927899, 'time': '2023-11-27T10:32:09.783108Z', 'tmms': 1385116348783, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3332, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAfQYClDIGZJRhKGC9rqA='}]}
0:05:00.304219	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 067d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 60bdaea0)
0:05:00.306252	LOG	Server <-------------------- DUT
0:05:00.308185	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 036b, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 71cb99dd)
0:05:00.310185	LOG	Frame command sent to the DUT
0:05:00.311183	LOG	PULL_RESP: Protocol version = 02, Token = 3314, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2213927899, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAawPgzNcfsEDRH9ELVE8ARU+6lN4xzKU25LEO88TXgv0jJqcZ+E6og3maavNSi9tifaSvQr0iB4awLwKLQ78+XIf3btYSM4v6pxRLh9fkS29+Hz+6BU9baI07aOQar7DdMW/wA+YXiaLSD5N0wt2N2jTdIXYsZN9qh52KBbtMeNcwNJdQg2sP354RHU2IXI/Z2x5c5zQ9jhxi3x4+2sPtwqkmYdjnfYq3z+PfjDjt+6mM4tZzFHDihpRwBwa1f5EMKNwNlZCWg0COQ2CY7uPPVKCrB8O+U8Nn43Ll/UYV4yW6HF92J2S14zxLrddXec0rNtjwYk1xy5nd'}}
0:05:00.312184	LOG	Server --------------------> DUT
0:05:00.315694	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:00.318732	LOG	Check previous uplink data rate process starts
0:05:00.323732	LOG	Uplink received with expected Data Rate
0:05:00.327699	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:05.190460	LOG	First uplink received. Open reception window.
0:05:05.292373	LOG	PUSH_ACK: 02 73dd 01

0:05:05.294341	LOG	GPS Time from gateway: 1385116353783
0:05:05.295374	LOG	PUSH_DATA: Protocol version = 02, Token = 73dd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2217927652, 'time': '2023-11-27T10:32:14.782860Z', 'tmms': 1385116353783, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3335, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAfgYCjw2uJqXim47tVtg='}]}
0:05:05.297366	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 067e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8eed56d8)
0:05:05.298374	LOG	Server <-------------------- DUT
0:05:05.300382	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 036c, FOpts:), FPort: e0, FRMPayload: 070001), MIC: cf28b722)
0:05:05.302414	LOG	Frame command sent to the DUT
0:05:05.303411	LOG	PULL_RESP: Protocol version = 02, Token = 64b6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2218927652, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAbAPguv7IiQBDuQlmZSgye05plLJRY4/B9zVbMsY4WtCWim3V/JD2jV+8yMI+R1991b4Mnba3yUwfqmfHPdq+cbVBVnMPCmhmrQPGtXcJ7aH08JXe4AW4vkHL5azgXkpv3UHQv3gD6drCgwRiEsZ7yQdfGiuTpRaIoqNbZNyQFydR3fW7PA3xJ7gV+BGGMSlb3nKkqS8UcGNrQFp4LgL0/WHFnlK3u/gNiyb2aUAJyfhudOOETdlBib8KsMU225lsBCjbaRKqPTdyIyEc9kMuI9zQzfH15+DOtlIpf1TNLsnpHCzhHIdMlYGe/SA+NI0EFFGOeD7PKLci'}}
0:05:05.305403	LOG	Server --------------------> DUT
0:05:05.308381	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:05.311197	LOG	Check previous uplink data rate process starts
0:05:05.315208	LOG	Uplink received with expected Data Rate
0:05:05.318311	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:09.713785	LOG	GPS Time updated: 1385116358306
0:05:09.714785	LOG	PULL_DATA: 02 c45c 02 0016c001ff1025bf
0:05:09.716791	LOG	PULL_ACK: 02 c45c 04
0:05:10.190072	LOG	First uplink received. Open reception window.
0:05:10.294992	LOG	PUSH_ACK: 02 0c1e 01
0:05:10.296992	LOG	GPS Time from gateway: 1385116358782
0:05:10.297994	LOG	PUSH_DATA: Protocol version = 02, Token = 0c1e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2222927386, 'time': '2023-11-27T10:32:19.782593Z', 'tmms': 1385116358782, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3343, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAfwYCdNsbYh14vI9plto='}]}
0:05:10.299962	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 067f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8f6996da)
0:05:10.300999	LOG	Server <-------------------- DUT
0:05:10.302966	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 036d, FOpts:), FPort: e0, FRMPayload: 070001

		0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: b57ea4ff)
0:05:10.304966	LOG	Frame command sent to the DUT
0:05:10.305966	LOG	PULL_RESP: Protocol version = 02, Token = b554, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2223927386, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAbQPgmlmaj8nBTuAEU0X8ihhQ9Zk8Um7GgyUr2R3I4PuXIOvsSo Hai0fTKlnduCc+wcETfoN6uZ+WmwECyTgWCJb8Dp+2fb4Qnv6mYunGGenVb 660rba9uniar9WN1OWCLk59qmMAe4uBQRwlIDxy5PQRF0nh+tA81aWX6Gfm 7OcD5u2amAkVXpCToaOzX91i/SN5Yw3DdvnWEJG2Z5Y7qLLwN+AJRlUAS+ 2caVKVW4a6cQoyyrwet0ZjVCuv3d38IPnttgcnoGghKsL6WZUtnwBDw5lUobBe 2WBTqfx1i53hTVnnF7Lt4rcCDn6MaX5D6r0QhjO1fqT/'}}
0:05:10.307999	LOG	Server --------------------> DUT
0:05:10.310974	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:10.313999	LOG	Check previous uplink data rate process starts
0:05:10.319083	LOG	Uplink received with expected Data Rate
0:05:10.323083	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:15.198856	LOG	First uplink received. Open reception window.
0:05:15.308959	LOG	PUSH_ACK: 02 ae20 01
0:05:15.310926	LOG	GPS Time from gateway: 1385116363782
0:05:15.311963	LOG	PUSH_DATA: Protocol version = 02, Token = ae20, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2227927134, 'time': '2023-11-27T10:32:24.782340Z', 'tmms': 1385116363782, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3343, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAgAYC64EhRMPGGt4MxN0='}]}
0:05:15.313961	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0680, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: de0cc4dd)
0:05:15.314962	LOG	Server <-------------------- DUT
0:05:15.317047	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 036e, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: b7b59586)
0:05:15.319048	LOG	Frame command sent to the DUT
0:05:15.321047	LOG	PULL_RESP: Protocol version = 02, Token = 4381, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2228927134, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAbgPgVhQ5tR4rlmI4EzbPzBhuN5LzgpVpEFKi2N9VxTd62KLG+K DUBh+4BUiHrC8u9wLuhVZGIOqhpgVCRUJCfwXXpZd0bBBIHhDqR2YI+jVD Qyx46WKZpgrFU20nw5UYvMdIqk7LLPyDXXMhI4/tvL69oHWTRHnzqWCC15 hBegRTVPLqTzserBx9YFT153OTAO/cgj5YOHoNodbqBpSBjo2ML31KO3p4Bg h9X8KGCRCwunTWrRBXUBR6R0XMnqyMF0qFJzNK9hCwAY0KOoI71OGQd XxjVA6t3e7rHVSzpHPv4XMig9KRzSzxE4WFOzRRWPxRvrG3tZWG'}}
0:05:15.322082	LOG	Server --------------------> DUT
0:05:15.325075	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:15.328232	LOG	Check previous uplink data rate process starts
0:05:15.332238	LOG	Uplink received with expected Data Rate
0:05:15.335277	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:19.733575	LOG	GPS Time updated: 1385116368317
0:05:19.734579	LOG	PULL_DATA: 02 6a5d 02 0016c001ff1025bf

0:05:19.736597	LOG	PULL_ACK: 02 6a5d 04
0:05:20.192048	LOG	First uplink received. Open reception window.
0:05:20.299109	LOG	PUSH_ACK: 02 fbdd 01
0:05:20.301115	LOG	GPS Time from gateway: 1385116368782
0:05:20.302082	LOG	PUSH_DATA: Protocol version = 02, Token = fbdd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2232926877, 'time': '2023-11-27T10:32:29.782082Z', 'tmms': 1385116368782, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3347, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAgQYCpPy1+ZimH8YIkog='}]}
0:05:20.303113	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0681, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c6089288)
0:05:20.305083	LOG	Server <-------------------- DUT
0:05:20.307083	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 036f, FOpts:), FPort: e0, FRMPayload: 070001), MIC: fd6136f1)
0:05:20.309081	LOG	Frame command sent to the DUT
0:05:20.310080	LOG	PULL_RESP: Protocol version = 02, Token = b4d5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2233926877, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAbwPg4tiUMHX/fewceaObV7VQn5KDyhjEn4GmD4obSA7giS3smtv/CO4zdOx3szvRIc+kl1LrtT+SjhXNybSEQ+7MWWCxHhQzL07SCU0ytcgcy+wwksxX43KTdSoHNes3rba5JWI4XErAXSBvJDSZgTb0XIveYg69VJnpL3kcFmaGDATGaXFBme13r2EFacy/vbY0joYMpZj5rU0MWhF+SBfTox1mVdDJyg+xFlBohSVOkC2q54M2aHfQW9v1Sh1FQUM95zNhT9IfrE1AVWG8XS14Gq5o1LIdRac94/xCDP6r14RlZg4POsujnMV+yWRh9Rx1YEL9YTbx'}}
0:05:20.312080	LOG	Server --------------------> DUT
0:05:20.315083	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:20.318312	LOG	Check previous uplink data rate process starts
0:05:20.323312	LOG	Uplink received with expected Data Rate
0:05:20.327314	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:25.197676	LOG	First uplink received. Open reception window.
0:05:25.308941	LOG	PUSH_ACK: 02 68ff 01
0:05:25.310942	LOG	GPS Time from gateway: 1385116373782
0:05:25.311949	LOG	PUSH_DATA: Protocol version = 02, Token = 68ff, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2237926618, 'time': '2023-11-27T10:32:34.781821Z', 'tmms': 1385116373782, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3347, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAggYCweGMV9MZLcFSLEM='}]}
0:05:25.312952	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0682, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c1522c43)
0:05:25.314952	LOG	Server <-------------------- DUT
0:05:25.317218	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0370, FOpts:), FPort: e0, FRMPayload: 070001

		01010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 91b7e3af)
0:05:25.319250	LOG	Frame command sent to the DUT
0:05:25.320255	LOG	PULL_RESP: Protocol version = 02, Token = d2fd, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2238926618, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAcAPgs8GYZLJyBBi3yIJaFAzAvKhT9BJzx93e3cEx7EjDLu/AWgJMDqZkU59u7zeOjWcdY+XKLqCCI9wGXD42N13DPAhTKkyoK8MF+k1HZ5eBQQtrN6nZf3HTGU9Web1kOJVF2I0Q2RciTusf9g/WlWHyXPIyRvhCPJXMQdadHzyqziV99CMKgcf8n6bFB+kjl3GCBbZmJjH/KZ5t70uk9TojKxEvZjEmXt7pLzXuzCNQS+myhuNXJoI91GT5hx4ootmbcQBOB2kG7vNl9MkJ2VHIgETvlUM/l0r3Z4LYH918j+2z6MltQMHTOoHaXlwvYZi+pVKRt+Ov'}}
0:05:25.322234	LOG	Server --------------------> DUT
0:05:25.324219	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:25.327217	LOG	Check previous uplink data rate process starts
0:05:25.332082	LOG	Uplink received with expected Data Rate
0:05:25.335254	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:29.943478	LOG	GPS Time updated: 1385116378528
0:05:29.944473	LOG	PULL_DATA: 02 9001 02 0016c001ff1025bf
0:05:29.946476	LOG	PULL_ACK: 02 9001 04
0:05:30.196362	LOG	First uplink received. Open reception window.
0:05:30.309127	LOG	PUSH_ACK: 02 c222 01
0:05:30.311161	LOG	GPS Time from gateway: 1385116378781
0:05:30.312161	LOG	PUSH_DATA: Protocol version = 02, Token = c222, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2242926352, 'time': '2023-11-27T10:32:39.781554Z', 'tmms': 1385116378781, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3347, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAgwYCNSvpXDsDQDTY2yc='}]}
0:05:30.314161	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0683, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 34d8db27)
0:05:30.315162	LOG	Server <-------------------- DUT
0:05:30.317256	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0371, FOpts:), FPort: e0, FRMPayload: 070001), MIC: aa70eeaa)
0:05:30.319253	LOG	Frame command sent to the DUT
0:05:30.321267	LOG	PULL_RESP: Protocol version = 02, Token = 96b7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2243926352, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAcQPgG7A4IZjnwPKXOqzcz/7RVjt/zEpcG115nwPV2IQPig+aadWHw6iXmdT/0jFR0RVBcVsBV40wJrMaCyvhIJ5HlK0q8APWVz785k0UTZMLS1LNX1K8jIBMyNVksY2ntl4UUwfXQGipqEZibnHcXhZuu8Gj0eKexBH9X0IzhiGPzywj/vZOsvfQOL9oFFQXDuMk7a1+62ofi0/Wzc2b1+dDqzrHuHQ03qyUjR97mR1wWCEC011BDpVjIXPB/xkOgLwzdQhbd/PtWjK+Vk0dHLk59sxMe7nE/FZjY0aa1GXGE/P0rWnIcoaB4sLIlcBPyTBkoneqcO6q'}}
0:05:30.322286	LOG	Server --------------------> DUT
0:05:30.326253	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:30.329291	LOG	Check previous uplink data rate process starts
0:05:30.333322	LOG	Uplink received with expected Data Rate

0:05:30.336325	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:35.193648	LOG	First uplink received. Open reception window.
0:05:35.306136	LOG	PUSH_ACK: 02 8efb 01
0:05:35.308367	LOG	GPS Time from gateway: 1385116383781
0:05:35.310200	LOG	PUSH_DATA: Protocol version = 02, Token = 8efb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2247926091, 'time': '2023-11-27T10:32:44.781294Z', 'tmms': 1385116383781, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3346, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAhAYCT5tcjy6dlGgjhY0='}]}
0:05:35.311483	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0684, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6823858d)
0:05:35.312577	LOG	Server <-------------------- DUT
0:05:35.314770	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0372, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 372bf50a)
0:05:35.316724	LOG	Frame command sent to the DUT
0:05:35.318123	LOG	PULL_RESP: Protocol version = 02, Token = de76, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2248926091, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAcgPgB1A4hFWrh4/MSSHddXF9z6chXlWB+1ec92PDsiDwPzwBEQ2OE3L6tFAH4L1me5tZpElLCjP8y60VqwGMJO7BSwxKiCksmKfnR6F9q/5/WaCzpzK6sS2ax9R0Cm1BsF4+a3ft0RcGKieu6rqImpxJbZLZoTDGOLwIVGdBe+TWYJAgHLHaf8b/I5FA0dZQ0StlKGfidbfMxEK1GR9uecHnjFKKBJXFxGCyxYO0mwCEVz8QYIo+lnAT6cp63mNwuDldqLq7yRh3qLfI+Q27clBtM89iY26YulKQ7fhlP4qOao75PzsHz4JVxvE44rXtOCnzcq83K/UK'}}
0:05:35.319743	LOG	Server --------------------> DUT
0:05:35.324398	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:35.327367	LOG	Check previous uplink data rate process starts
0:05:35.331732	LOG	Uplink received with expected Data Rate
0:05:35.334747	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:40.143573	LOG	GPS Time updated: 1385116388731
0:05:40.144576	LOG	PULL_DATA: 02 aaed 02 0016c001ff1025bf
0:05:40.146577	LOG	PULL_ACK: 02 aaed 04
0:05:40.188800	LOG	First uplink received. Open reception window.
0:05:40.292491	LOG	PUSH_ACK: 02 4bda 01
0:05:40.294459	LOG	GPS Time from gateway: 1385116388781
0:05:40.295492	LOG	PUSH_DATA: Protocol version = 02, Token = 4bda, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2252925838, 'time': '2023-11-27T10:32:49.781040Z', 'tmms': 1385116388781, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3346, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAhQYC53gTCkr/1lVY47Y='}]}
0:05:40.297029	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0685, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5558e3b6)
0:05:40.298067	LOG	Server <-------------------- DUT
0:05:40.300036	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0373, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010

		10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 29fa2ffb)
0:05:40.302042	LOG	Frame command sent to the DUT
0:05:40.304074	LOG	PULL_RESP: Protocol version = 02, Token = 5a18, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2253925838, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAcwPgP34GANFEMN0w6D7hNJsqooDr9cnVmkkokotXnj5f3yE35c7p2Ftc0Ao0or1bjjzCNhpoE3UW9AxlU75Qf4EZ48zaj+cn7wacpxwlVkRVXsa/GWafV40lMMGEQdy7vzkMQZIKnkjxaeqnZlwClWmUKm7hDXwCkBrxHd5FFeUXbqZIc4O53mfuUul422QJ+amzaNp/OygrHejtBv5zRk1+miZU86aql5jiWtAOm1m7qfGuAUW0SYuMgxIs31YJzEdMNVX605WwORb//14c4KnBNdyjF2ZiPFmL6MszeTKcDXDfyepi7FnX1gNHTrzbFyq5Qqgp+i/7'}}
0:05:40.305072	LOG	Server --------------------> DUT
0:05:40.308042	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:40.311041	LOG	Check previous uplink data rate process starts
0:05:40.315055	LOG	Uplink received with expected Data Rate
0:05:40.319366	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:45.194371	LOG	First uplink received. Open reception window.
0:05:45.300594	LOG	PUSH_ACK: 02 5a71 01
0:05:45.302847	LOG	GPS Time from gateway: 1385116393781
0:05:45.304582	LOG	PUSH_DATA: Protocol version = 02, Token = 5a71, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2257925574, 'time': '2023-11-27T10:32:54.780775Z', 'tmms': 1385116393781, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3343, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAhgYCUyQYLk2JHYVeo9E='}]}
0:05:45.306155	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0686, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 855ea3d1)
0:05:45.307734	LOG	Server <-------------------- DUT
0:05:45.309847	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0374, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 526280ac)
0:05:45.311484	LOG	Frame command sent to the DUT
0:05:45.313090	LOG	PULL_RESP: Protocol version = 02, Token = b210, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2258925574, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAdAPgThceQZ7nWHh8nJ9OcqvfjprDJKRtC7B6LqeA9LSZQA88qj0J0RDLFd6e0YewdSq01ONijrE3oa66tT11cjS2Exk5fSZXfW/4eV6a1lTSDH/fqAuMBFOv8KrtkJYmb4BluFSps8fkriBlrWdGYjwgSQxVVDi5zhSBnRbU/x3CKQnTrVx1i5bhkbgxPy6SLO4R7b1QZGvJEc9x7TXjpxG6XlZq2HMHuSVT3g/YD3lPyg3w5FOl2JIqDhKx/6S9kuHWPBOCebojkaLf6ynjI7cz4kHneL9A6KZZc4uWaER+9whl4nQQTvV1rBTe1f/YVsv4c7dSYoCs'}}
0:05:45.314195	LOG	Server --------------------> DUT
0:05:45.318060	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:45.322378	LOG	Check previous uplink data rate process starts
0:05:45.327212	LOG	Uplink received with expected Data Rate

0:05:45.330290	LOG	Step 14-15
0:05:45.334294	LOG	Send Test Command RxAppCntReq process starts
0:05:50.187870	LOG	First uplink received. Open reception window.
0:05:50.302290	LOG	PUSH_ACK: 02 1569 01
0:05:50.304258	LOG	GPS Time from gateway: 1385116398780
0:05:50.305257	LOG	PUSH_DATA: Protocol version = 02, Token = 1569, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2262925314, 'time': '2023-11-27T10:32:59.780514Z', 'tmms': 1385116398780, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3343, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAhwYCzsFKSWrxMALiB2U='}]}
0:05:50.306762	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0687, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 02e20765)
0:05:50.307767	LOG	Server <---------- DUT
0:05:50.309768	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0375, FOpts:), FPort: e0, FRMPayload: 09), MIC: 2c01700e)
0:05:50.311774	LOG	Frame command sent to the DUT
0:05:50.312767	LOG	PULL_RESP: Protocol version = 02, Token = 868d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2263925314, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAdQPgjywBcA4='}}
0:05:50.313766	LOG	Server ----------> DUT
0:05:50.318312	LOG	TX_ACK: 02 868d 05 0016c001ff1025bf
0:05:50.320306	LOG	GPS Time updated: 1385116398914
0:05:50.322278	LOG	PULL_DATA: 02 6188 02 0016c001ff1025bf
0:05:50.323276	LOG	PULL_ACK: 02 6188 04
0:05:51.311392	LOG	First uplink received. Open reception window.
0:05:51.413848	LOG	PUSH_ACK: 02 4725 01
0:05:51.416572	LOG	GPS Time from gateway: 1385116399895
0:05:51.417701	LOG	PUSH_DATA: Protocol version = 02, Token = 4725, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2264040148, 'time': '2023-11-27T10:33:00.895348Z', 'tmms': 1385116399895, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3346, 'rssi': -52, 'size': 16, 'data': 'QAAAAACAiAbgkyrTu3a5dQ==\'}]}
0:05:51.419356	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0688, FOpts:), FPort: e0, FRMPayload: 091302, MIC: bb76b975)
0:05:51.420526	LOG	Server <---------- DUT
0:05:51.422214	LOG	Frame Command Payload in the Answer: 091302
0:05:51.426212	LOG	RX Count received by DUT: 531
0:05:51.428217	LOG	Send Test Command RxAppCntReq process completed
0:05:51.438216	LOG	End Test Step: Test packet error rate for SF7BW125 using RX1 window
0:05:51.441333	LOG	Partial Verdict: PASS
0:05:51.446368	LOG	==========
0:05:51.451369	LOG	==========
0:05:51.453811	LOG	Start Test Step: Test packet error rate for SF8BW125 using RX1 window
0:05:51.464866	LOG	Step 10-11
0:05:51.467864	LOG	Send LinkADRReq process starts
0:05:55.193837	LOG	First uplink received. Open reception window.
0:05:55.295967	LOG	PUSH_ACK: 02 e553 01
0:05:55.298136	LOG	GPS Time from gateway: 1385116403780
0:05:55.299756	LOG	PUSH_DATA: Protocol version = 02, Token = e553, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2267925062, 'time': '2023-11-27T10:33:04.780261Z', 'tmms': 1385116403780, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3347, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAiQYC3+jlCO/hm2xfWEI='}]}
0:05:55.301456	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0689, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6c5f5842)

0:05:55.302564	LOG	Server <---------- DUT
0:05:55.304772	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0376, FOpts:), FPort: 00, FRMPayload: 0340070001), MIC: e0d54af8)
0:05:55.306932	LOG	PULL_RESP: Protocol version = 02, Token = b094, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2269925062, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAdgMARAM8sujg1Ur4'}}
0:05:55.308271	LOG	Server ----------> DUT
0:05:55.311450	LOG	TX_ACK: 02 b094 05 0016c001ff1025bf
0:05:59.582075	LOG	#**********CURRENT BEACON SENT**********#
0:05:59.583074	LOG	PULL_RESP: Protocol version = 02, Token = 3253, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385116416000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAM49S5O0AAAAAAAAAAA='}}
0:05:59.585076	LOG	Server ----------> DUT
0:05:59.588081	LOG	#**********#
0:05:59.597639	LOG	#**********NEXT BEACON QUEUED**********#
0:05:59.598639	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385116544000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAM49S3DAAAAAAAAAAAA='}}
0:05:59.600637	LOG	Server ----------> DUT
0:05:59.602689	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 80338f52, CRC1: dc30, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385116544000
0:05:59.603653	LOG	#**********#
0:05:59.605683	LOG	Next BEACON scheduled at GPS time (ms): 1385116672000
0:05:59.606687	LOG	TX_ACK: 02 3253 05 0016c001ff1025bf
0:06:00.423338	LOG	GPS Time updated: 1385116409010
0:06:00.424304	LOG	PULL_DATA: 02 73ae 02 0016c001ff1025bf
0:06:00.426309	LOG	PULL_ACK: 02 73ae 04
0:06:00.468009	LOG	First uplink received. Open reception window.
0:06:00.576534	LOG	PUSH_ACK: 02 f06f 01
0:06:00.578500	LOG	GPS Time from gateway: 1385116409061
0:06:00.579500	LOG	PUSH_DATA: Protocol version = 02, Token = f06f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2273206075, 'time': '2023-11-27T10:33:10.061271Z', 'tmms': 1385116409061, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3347, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCigYDBwKgpx228JEQ/9OBEw=='}]}
0:06:00.581500	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 068a, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: ffd38113)
0:06:00.582505	LOG	Server <---------- DUT
0:06:00.584505	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:06:00.586506	LOG	Command Answer: 0307
0:06:00.593506	LOG	MAC command communication completed
0:06:00.598689	LOG	Send RXParamSetupReq process starts
0:06:05.258923	LOG	First uplink received. Open reception window.
0:06:05.370448	LOG	PUSH_ACK: 02 8b58 01
0:06:05.372450	LOG	GPS Time from gateway: 1385116413843

0:06:05.373451	LOG	PUSH_DATA: Protocol version = 02, Token = 8b58, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2277988458, 'time': '2023-11-27T10:33:14.843656Z', 'tmms': 1385116413843, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3343, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAiwYC9FwXXR1NjDVGhi0='}]}
0:06:05.375450	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 068b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3546862d)
0:06:05.376450	LOG	Server <---------- DUT
0:06:05.377955	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0377, FOpts:), FPort: 00, FRMPayload: 0500d2ad84), MIC: b8fcf926)
0:06:05.379961	LOG	PULL_RESP: Protocol version = 02, Token = b73f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2279988458, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAdwMA/DkCKLK4/Pkm'}}
0:06:05.381961	LOG	Server ----------> DUT
0:06:05.384961	LOG	GW Message b'{"txpk_ack":{"error":"COLLISION_PACKET"}}'
0:06:05.386960	LOG	Waiting a new Uplink to send the frame again
0:06:10.252638	LOG	First uplink received. Open reception window.
0:06:10.355837	LOG	PUSH_ACK: 02 6ec4 01
0:06:10.357806	LOG	GPS Time from gateway: 1385116418843
0:06:10.358805	LOG	PUSH_DATA: Protocol version = 02, Token = 6ec4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2282988194, 'time': '2023-11-27T10:33:19.843391Z', 'tmms': 1385116418843, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3347, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAjAYCYLU0uoAV/teXFS0='}]}
0:06:10.360805	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 068c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d797152d)
0:06:10.361805	LOG	Server <---------- DUT
0:06:10.362805	LOG	PULL_RESP: Protocol version = 02, Token = 9c61, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2284988194, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAdwMA/DkCKLK4/Pkm'}}
0:06:10.364810	LOG	Server ----------> DUT
0:06:10.370844	LOG	TX_ACK: 02 9c61 05 0016c001ff1025bf
0:06:10.573166	LOG	GPS Time updated: 1385116419164
0:06:10.574134	LOG	PULL_DATA: 02 0afe 02 0016c001ff1025bf
0:06:10.576134	LOG	PULL_ACK: 02 0afe 04
0:06:15.256714	LOG	First uplink received. Open reception window.
0:06:15.368556	LOG	PUSH_ACK: 02 c6cc 01
0:06:15.370980	LOG	GPS Time from gateway: 1385116423843
0:06:15.372670	LOG	PUSH_DATA: Protocol version = 02, Token = c6cc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2287988031, 'time': '2023-11-27T10:33:24.843227Z', 'tmms': 1385116423843, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3351, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCjQYFBwKPjXgEAxfkAPu5qA=='}]}
0:06:15.374279	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 068d, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 00fbb9a8)
0:06:15.375435	LOG	Server <---------- DUT
0:06:15.377045	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:06:15.379115	LOG	Command Answer: 0507
0:06:15.393445	LOG	MAC command communication completed
0:06:15.397452	LOG	Step 11-12
0:06:15.407152	LOG	Send Test Command RxAppCntReq process starts
0:06:20.252696	LOG	First uplink received. Open reception window.
0:06:20.366201	LOG	PUSH_ACK: 02 2154 01

0:06:20.368169	LOG	GPS Time from gateway: 1385116428843
0:06:20.369169	LOG	PUSH_DATA: Protocol version = 02, Token = 2154, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2292987774, 'time': '2023-11-27T10:33:29.842969Z', 'tmms': 1385116428843, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3343, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCjgYFBwKbOIuAJPM22H6y8A=='}]}
0:06:20.370174	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 068e, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: d87eb2f0)
0:06:20.371174	LOG	Server <---------- DUT
0:06:20.373174	LOG	MAC Command RXParamSetupAns received
0:06:20.375174	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0378, FOpts:), FPort: e0, FRMPayload: 09), MIC: 59893ed8)
0:06:20.376175	LOG	Frame command sent to the DUT
0:06:20.378685	LOG	PULL_RESP: Protocol version = 02, Token = 5f17, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2293987774, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAeAPgdFmJPtg='}}
0:06:20.379685	LOG	Server ----------> DUT
0:06:20.386685	LOG	TX_ACK: 02 5f17 05 0016c001ff1025bf
0:06:20.592727	LOG	GPS Time updated: 1385116429183
0:06:20.594727	LOG	PULL_DATA: 02 c7cb 02 0016c001ff1025bf
0:06:20.596695	LOG	PULL_ACK: 02 c7cb 04
0:06:21.453545	LOG	First uplink received. Open reception window.
0:06:21.554839	LOG	PUSH_ACK: 02 4212 01
0:06:21.556806	LOG	GPS Time from gateway: 1385116430040
0:06:21.557839	LOG	PUSH_DATA: Protocol version = 02, Token = 4212, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2294185481, 'time': '2023-11-27T10:33:31.040675Z', 'tmms': 1385116430040, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3343, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAjwbgqIeWZJ2XYw=='}]}
0:06:21.559807	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 068f, FOpts:), FPort: e0, FRMPayload: 091402, MIC: 649d9763)
0:06:21.560841	LOG	Server <---------- DUT
0:06:21.561839	LOG	Frame Command Payload in the Answer: 091402
0:06:21.566415	LOG	RX Count received by DUT: 532
0:06:21.569382	LOG	Send Test Command RxAppCntReq process completed
0:06:21.574384	LOG	Step 13
0:06:21.577384	LOG	Send Test Command TxFramesCtrlReq process starts
0:06:25.257542	LOG	Multiple frames received. Selecting the correct frame...
0:06:25.259047	LOG	Frame selected: {'jver': 1, 'tmst': 2297987451, 'time': '2023-11-27T10:33:34.842645Z', 'tmms': 1385116433842, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3343, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAkAYCsu20I8OZEnpKPkY='}
0:06:25.261054	LOG	First uplink received. Open reception window.
0:06:25.366947	LOG	PUSH_ACK: 02 a59c 01
0:06:25.369221	LOG	GPS Time from gateway: 1385116433842
0:06:25.370857	LOG	PUSH_DATA: Protocol version = 02, Token = a59c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2297987451, 'time': '2023-11-27T10:33:34.842645Z', 'tmms': 1385116433842, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3343, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAkAYCsu20I8OZEnpKPkY='}, {'jver': 1, 'tmst': 2297987455, 'time': '2023-11-27T10:33:34.842649Z', 'tmms': 1385116433842, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -115, 'lsnr': -8.2, 'foff': -27860, 'rssi': -107, 'size': 20, 'data': 'QAAAAACAkAYCsu20I8OZEnpKPkY='}]}

0:06:25.372542	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0690, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7a4a3e46)
0:06:25.373629	LOG	Server <-------------------- DUT
0:06:25.375694	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0379, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 679e3883)
0:06:25.377791	LOG	Frame command sent to the DUT
0:06:25.378904	LOG	PULL_RESP: Protocol version = 02, Token = 6f95, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2298987451, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAeQPgZ+Q8iUJKvHNQAgo/JsOGErtDawSZtp7GrEz9zhp9vadfoIxuZi9MhTbKbWQqvYHnwQjdg582Sei3Jem5T+ViI4Asb/tTStArtpMCzih9h3pzDG1UqHwpjRRgQ77e3NssincrdG3jcUOQf4Lu35WBLCALvdmrTy01YrtzgoFNOPupwoiN4HUWQ4pQXWjcHXtRsT3pKN2MVPkf3msXTki1ePTQZno1pN7YkX2gvqdiL+Bf0RYYVpCWERZ/ggQ404D1hNO2nx0nO9JIW3ixWPYiXBk4fLNOLSaWbH2KxEZw6zFs4dM1QXHSl5vgDo30GSwUXfdnnjiD'}}
0:06:25.380564	LOG	Server --------------------> DUT
0:06:25.383571	LOG	Send Test Command TxFramesCtrlReq process completed
0:06:25.386591	LOG	Check previous uplink data rate process starts
0:06:25.391568	LOG	Uplink received with expected Data Rate
0:06:25.395301	LOG	Send Test Command TxFramesCtrlReq process starts
0:06:30.254067	LOG	First uplink received. Open reception window.
0:06:30.364537	LOG	PUSH_ACK: 02 06e5 01
0:06:30.366504	LOG	GPS Time from gateway: 1385116438842
0:06:30.367504	LOG	PUSH_DATA: Protocol version = 02, Token = 06e5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2302987200, 'time': '2023-11-27T10:33:39.842393Z', 'tmms': 1385116438842, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3343, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAkQYCDKytyWz30I/E63s='}]}
0:06:30.369509	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0691, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8fc4eb7b)
0:06:30.370508	LOG	Server <-------------------- DUT
0:06:30.372508	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 037a, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 0ead68b8)
0:06:30.374509	LOG	Frame command sent to the DUT
0:06:30.375508	LOG	PULL_RESP: Protocol version = 02, Token = d2ab, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2303987200, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAegPgierGwF3mq6LC5gv1Phw5fl779bqqTB7O2kJAPYjuFNWi13aewgJLNKEOVzBVL7nNaOnUluM0/ojZQqII1+SM4Eo/w5DF7duGWTUvSadsK3zMyGAZRE2HKHlP+DivL7H8fEpO8uJkS7BeY2V6h8l/bUrH+101GLgRtenyNQr/

		n2nh/nd2kYb92A26W3rwsy6PhZe4X7qN5eTsgFEipv2cCGmGWAOw86PYcoKd/3ncU28Tn7Gm8SQhbCMvbqQtD5NVA6TbG2DhTZKvIv+umpYKzjmAmmhZ9/sN3Oz3RAsj0062r+xa/GZaV1NJV4es0ubYpTwOrWi4'}}
0:06:30.376508	LOG	Server --------------------> DUT
0:06:30.380120	LOG	Send Test Command TxFramesCtrlReq process completed
0:06:30.384190	LOG	Check previous uplink data rate process starts
0:06:30.389037	LOG	Uplink received with expected Data Rate
0:06:30.391994	LOG	Send Test Command TxFramesCtrlReq process starts
0:06:30.793168	LOG	GPS Time updated: 1385116439381
0:06:30.794164	LOG	PULL_DATA: 02 424d 02 0016c001ff1025bf
0:06:30.796132	LOG	PULL_ACK: 02 424d 04
0:06:35.254098	LOG	First uplink received. Open reception window.
0:06:35.361380	LOG	PUSH_ACK: 02 0b27 01
0:06:35.363619	LOG	GPS Time from gateway: 1385116443842
0:06:35.365735	LOG	PUSH_DATA: Protocol version = 02, Token = 0b27, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2307986936, 'time': '2023-11-27T10:33:44.842127Z', 'tmms': 1385116443842, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3343, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAkgYCy4/jw86+AAY3UXE='}]}
0:06:35.366787	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0692, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 06375171)
0:06:35.368483	LOG	Server <-------------------- DUT
0:06:35.370595	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 037b, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 0a157983)
0:06:35.372106	LOG	Frame command sent to the DUT
0:06:35.373719	LOG	PULL_RESP: Protocol version = 02, Token = 74a5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2308986936, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAewPgXiwWGNPKHsJ04uui5y9stdXljChHCRntze9Kfa2GtLqOk56nCC9jCHYmRG75DRiO/DXOYOuE6He+2zHmapYIZx84uqf10McI3x4Q14N3AjOD/MG9q0a3GdJBhcZIWOIl5nVLFkks/qmEQNPDMyGrXAn8iWL8G7AuxIl2nF/3PIPv5+oJB4VuyGgQCVTJxmYRHu6hK6wtvKOfHLljaxXx2v1jBPGvSpakghRaD/7Vk5dhMT71y1lj+jSh3sOEsP1U4wNka4BOBAq4oplRmkjiuZp4hhRUC8a6+bGGk7QibnhilBZkCA2/A7ToYvUVJNEEgDAKFXmD'}}
0:06:35.374825	LOG	Server --------------------> DUT
0:06:35.378670	LOG	Send Test Command TxFramesCtrlReq process completed
0:06:35.382587	LOG	Check previous uplink data rate process starts
0:06:35.386842	LOG	Uplink received with expected Data Rate
0:06:35.390764	LOG	Send Test Command TxFramesCtrlReq process starts
0:06:40.255484	LOG	First uplink received. Open reception window.
0:06:40.361497	LOG	PUSH_ACK: 02 a04e 01
0:06:40.363502	LOG	GPS Time from gateway: 1385116448842
0:06:40.364537	LOG	PUSH_DATA: Protocol version = 02, Token = a04e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2312986671, 'time': '2023-11-27T10:33:49.841863Z', 'tmms': 1385116448842, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3343, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAkwYC/rmTu3e/VTPJ0jY='}]}

0:06:40.365536	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0693, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 33c9d236)
0:06:40.367501	LOG	Server <-------------------- DUT
0:06:40.369501	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 037c, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 10754d91)
0:06:40.371502	LOG	Frame command sent to the DUT
0:06:40.372503	LOG	PULL_RESP: Protocol version = 02, Token = 9df9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2313986671, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAfAPg5ks3X2p/b9wtOYlzFoRaym0Nej62kMhV0Ch0/HU6gkUhAJ7 ySH+q7eQPnnW+MII/x+zkG+bA6M7elR4PezYVOMeD+qXHJ22PMA/A9vg457 uSNnTIMbu6BlVvlJNkGqpCToogAHQaoFaD1KqoxLlwXF9dP/QDHIR4xLeHQ UZB/lucRp/Y2dLyDvGiQMn1nICLZD9B57k+bsTtVm5xICdRXegQ58sCIt/4nBk4 s9wenDruDZQhiVhP1omWNk+UKySa83LD1TA/bsrgqsk3EHdubvha7gbOYSLX 3CrLy0cVKrkDs0rjNEhW8g6LV7C9+gRv/DIQdU2R'}}
0:06:40.373539	LOG	Server --------------------> DUT
0:06:40.376505	LOG	Send Test Command TxFramesCtrlReq process completed
0:06:40.380050	LOG	Check previous uplink data rate process starts
0:06:40.385015	LOG	Uplink received with expected Data Rate
0:06:40.389024	LOG	Send Test Command TxFramesCtrlReq process starts
0:06:41.003128	LOG	GPS Time updated: 1385116449590
0:06:41.004702	LOG	PULL_DATA: 02 bb13 02 0016c001ff1025bf
0:06:41.006707	LOG	PULL_ACK: 02 bb13 04
0:06:45.256785	LOG	First uplink received. Open reception window.
0:06:45.360295	LOG	PUSH_ACK: 02 fcab 01
0:06:45.362833	LOG	GPS Time from gateway: 1385116453841
0:06:45.364260	LOG	PUSH_DATA: Protocol version = 02, Token = fcab, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2317986414, 'time': '2023-11-27T10:33:54.841605Z', 'tmms': 1385116453841, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3343, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAlAYC9oYtG+kNU+OCCug='}]}
0:06:45.365888	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0694, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e3820ae8)
0:06:45.366989	LOG	Server <-------------------- DUT
0:06:45.369167	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 037d, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 98ea9f34)
0:06:45.371131	LOG	Frame command sent to the DUT
0:06:45.372285	LOG	PULL_RESP: Protocol version = 02, Token = fe10, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2318986414, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size':

		255, 'data': 'YAAAAAAAfQPgmU/TYttnRbzFxqMc/iKi1LQ0tDo4e/50/E9eTaoCjhhFrcUiAekyWoKqAka17c8nBVLvFxaTqDRIS/G7RG+BIB73PecHg75XKgjM5qCxlF3BRO0wjlxWPbczXI0pKsggq4nPT2rm39bopwcvykc9vHG3oOx4b1Oi5CPNPr7EILjsuCmn4SJ3DNa08fkDWKmhw2P7qh0G13/NO5WIhFuze8pPO+WTztqCRbbaoGZU66mGHBVarwPyJW4YhXF0JWrXC6ofrjpyyucTsqhof6KGMFzSYXIPTVDNCnglkt/8LTLwp/bScZvUs2CQ4Vnz9929f+eY6p80'}}
0:06:45.373893	LOG	Server --------------------> DUT
0:06:45.376539	LOG	Send Test Command TxFramesCtrlReq process completed
0:06:45.381177	LOG	Check previous uplink data rate process starts
0:06:45.386145	LOG	Uplink received with expected Data Rate
0:06:45.389733	LOG	Send Test Command TxFramesCtrlReq process starts
0:06:50.255631	LOG	First uplink received. Open reception window.
0:06:50.358309	LOG	PUSH_ACK: 02 8288 01
0:06:50.360279	LOG	GPS Time from gateway: 1385116458841
0:06:50.361309	LOG	PUSH_DATA: Protocol version = 02, Token = 8288, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2322986160, 'time': '2023-11-27T10:33:59.841350Z', 'tmms': 1385116458841, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3343, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAlQYC9nTktXDXqvsLX6Y='}]}
0:06:50.363279	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0695, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fb0b5fa6)
0:06:50.364312	LOG	Server <-------------------- DUT
0:06:50.366277	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 037e, FOpts:), FPort: e0, FRMPayload: 070001), MIC: be3d64c6)
0:06:50.367852	LOG	Frame command sent to the DUT
0:06:50.369820	LOG	PULL_RESP: Protocol version = 02, Token = 8b1c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2323986160, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAfgPgIu+O1sANa9CTDzy/87pDooU3aiVx8EKXzgUD9mFkxFipx7bbWyQB3KS3oDSR38b6TSuFRjjJf5+Of3XHI62zH7uQrQEXBe+mX2wwXPEqyQMrRdmleGDwk4/M0+avVZSduAkL+G4aAlr7e7+9RaUVfvGZveA7czJDYMOQCp6f9SgMZtHb7Zh9Dpo+WEIIw0vF7z6gRI8bgm/gHKBSUIJAmXXTyfNY7orro9kVpfexVQz6Dble+JVuwmazlTc4HptBeqCZ7Uv1P8tOH8VBVd/D7Y+WjSD8/MQM6FkVIhyk1JU9a+I3EuMBoTnZBkvtk5tVs4S+PWTG'}}
0:06:50.370821	LOG	Server --------------------> DUT
0:06:50.373834	LOG	Send Test Command TxFramesCtrlReq process completed
0:06:50.376701	LOG	Check previous uplink data rate process starts
0:06:50.380217	LOG	Uplink received with expected Data Rate
0:06:50.384215	LOG	Send Test Command TxFramesCtrlReq process starts
0:06:51.212691	LOG	GPS Time updated: 1385116459798
0:06:51.214658	LOG	PULL_DATA: 02 04f0 02 0016c001ff1025bf
0:06:51.216658	LOG	PULL_ACK: 02 04f0 04
0:06:55.253606	LOG	First uplink received. Open reception window.
0:06:55.360129	LOG	PUSH_ACK: 02 4c0e 01
0:06:55.362179	LOG	GPS Time from gateway: 1385116463841
0:06:55.363781	LOG	PUSH_DATA: Protocol version = 02, Token = 4c0e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2327985901, 'time': '2023-11-27T10:34:04.841090Z',

		'tmms': 1385116463841, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3347, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAlgYCyh4bBC30M3XnR0M='}]}
0:06:55.365032	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0696, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 75e74743)
0:06:55.366670	LOG	Server <-------------------- DUT
0:06:55.368852	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 037f, FOpts:), FPort: e0, FRMPayload: 070001), MIC: d82a48b5)
0:06:55.370544	LOG	Frame command sent to the DUT
0:06:55.371883	LOG	PULL_RESP: Protocol version = 02, Token = 6281, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2328985901, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAfwPgAsP+szE1O+1WL4B+I9KPA21HsE6gHhTOJ28XOTTrq3amnvH1X9c1MvXpA1a5hWzWEDVQHM/JaYVoc8jnjD2jvQfgshjI3gLJ41G/K205JR0BYyVlP0RrN8VkEnxU+Ztx+Il63HPYJt2ha5jooLs5+w48YcKCXkQzaewzMcdYUQzKZhKofHE2TExOy+TDzzPMyeUvQeGOAvtmW0iJRg2617UShAuQBeMbA84uxLOueJTj2lhtAyrvbaXnRrAN5o9v+1aPnvWwypG+oTFR1P8Qwr/HL4IQb7c7b7JFk0rbWBC/217AkYBsHJoVu72XgxFvBQDYKki1'}}
0:06:55.372987	LOG	Server --------------------> DUT
0:06:55.376407	LOG	Send Test Command TxFramesCtrlReq process completed
0:06:55.379601	LOG	Check previous uplink data rate process starts
0:06:55.384452	LOG	Uplink received with expected Data Rate
0:06:55.388207	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:00.253374	LOG	First uplink received. Open reception window.
0:07:00.356171	LOG	PUSH_ACK: 02 da10 01
0:07:00.358137	LOG	GPS Time from gateway: 1385116468841
0:07:00.359136	LOG	PUSH_DATA: Protocol version = 02, Token = da10, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2332985645, 'time': '2023-11-27T10:34:09.840833Z', 'tmms': 1385116468841, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3347, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAlwYCzXHVrcnocd7iT+Y='}]}
0:07:00.360137	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0697, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: dee24fe6)
0:07:00.362142	LOG	Server <-------------------- DUT
0:07:00.364141	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0380, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 39ac6d5b)
0:07:00.366147	LOG	Frame command sent to the DUT
0:07:00.367141	LOG	PULL_RESP: Protocol version = 02, Token = ff01, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2333985645, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size':

		255, 'data': 'YAAAAAAAgAPgN6lovMbOvSOYYbhfyMnQrSilKCAXy1K814+48L4EUTGrh0wsxQS4Puj6Itr+8LLZfrdt/ijn1X88YMcZulouoFmVFLemTGEP5+JQcI7xTkWlp1H5LeR0s+GVdSHXaiVoeyeysUxSV71bpDMtdzSRIhRSCZl49C97CO/xq7T4gYjHAiGUb9xJzoD+zWmrEoBkHj/n/4ARecWeNi2oRo4Kn11mjNJwO95/kMhrnq/rQTR/NpXI4h8bFrqpYKMrdtwTHA4hphP6Y1s+YGdM43B4PpmSx53lbzEWuLJyHBdneMw83Czn6CG6VYQQP8BnTXxSFTU5rG1b'}}
0:07:00.368142	LOG	Server --------------------> DUT
0:07:00.371141	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:00.374142	LOG	Check previous uplink data rate process starts
0:07:00.379249	LOG	Uplink received with expected Data Rate
0:07:00.383245	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:01.413006	LOG	GPS Time updated: 1385116470001
0:07:01.415007	LOG	PULL_DATA: 02 67a2 02 0016c001ff1025bf
0:07:01.416008	LOG	PULL_ACK: 02 67a2 04
0:07:05.254855	LOG	First uplink received. Open reception window.
0:07:05.356537	LOG	PUSH_ACK: 02 dba9 01
0:07:05.358701	LOG	GPS Time from gateway: 1385116473840
0:07:05.359803	LOG	PUSH_DATA: Protocol version = 02, Token = dba9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2337985375, 'time': '2023-11-27T10:34:14.840561Z', 'tmms': 1385116473840, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3347, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAmAYCrUOKU6XAzONqku8='}]}
0:07:05.361361	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0698, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e36a92ef)
0:07:05.362360	LOG	Server <-------------------- DUT
0:07:05.364369	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0381, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 13bb27e8)
0:07:05.366365	LOG	Frame command sent to the DUT
0:07:05.367365	LOG	PULL_RESP: Protocol version = 02, Token = db1a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2338985375, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAgQPgF83YiFooodJa9JaEhIe+M0MNMETePqDbm7bCGwtbpwIydiepC5N5ZUwVikOnzwWQEQJf1vx/dFUoi7Ej39Qj9u29SlBSjuOTX0LL6ysBo+BcuLLY4gEadG6oCV2ZZspmz8nronOL5roa+g/8lUV82Fdna3eDrnYWSeFEwIA3QyS6Em2MmhWZBklY3CY9VAw+LKfLpUuXqzf3E7d2qRFebEhhKCniD/2KG9nmggjA8QdmICmonm/X7Ox4c702RQX+Cz97UtnUe+5qERzv8JTOjZpdQ2TE8gtrSSy/DozpOoXWbzKaSzt2FNyylcJHLHFRHsETuyfo'}}
0:07:05.369365	LOG	Server --------------------> DUT
0:07:05.372673	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:05.375835	LOG	Check previous uplink data rate process starts
0:07:05.380159	LOG	Uplink received with expected Data Rate
0:07:05.383900	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:10.254223	LOG	First uplink received. Open reception window.
0:07:10.360430	LOG	PUSH_ACK: 02 b480 01
0:07:10.362399	LOG	GPS Time from gateway: 1385116478840
0:07:10.363403	LOG	PUSH_DATA: Protocol version = 02, Token = b480, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2342985124, 'time': '2023-11-27T10:34:19.840311Z',

		'tmms': 1385116478840, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3346, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAmQYC1304i3fWVXvYM90='}]}
0:07:10.365407	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0699, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7bd833dd)
0:07:10.366408	LOG	Server <-------------------- DUT
0:07:10.368408	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0382, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 18338be2)
0:07:10.370408	LOG	Frame command sent to the DUT
0:07:10.371407	LOG	PULL_RESP: Protocol version = 02, Token = 3f70, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2343985124, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAggPgy7IstpjdQyvL7N2xiHrOEsBhmR3JxOIs3HUClpYDQVdk1ZmGmmC6/UCi99Frcjf0YIrlT8k9Bphm8nuWLtvd0cJPQIi4bcCY7FqdRL3vcmQP0vPfSLi143Ca2dtuRQWk9AEuky2wZHNBEJqiZNQs1kwdXumvdySwD/uknsMKIxvTNHsebZfhGApVDnZJ7h0wsI8Z0QkK0aQ730eDxrFE32USkfZV5Q7vc1s/uevUOeXSo4XaSAfczvOIbIr6klX0Bqkaamq/MOEyK4HfhEpktuZIteLUwBCGTWz+9JKgbKsZJDklIu8lzFG5VpNpXEmQ7coYM4vi'}}
0:07:10.373410	LOG	Server --------------------> DUT
0:07:10.376408	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:10.378987	LOG	Check previous uplink data rate process starts
0:07:10.383844	LOG	Uplink received with expected Data Rate
0:07:10.387393	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:11.423176	LOG	GPS Time updated: 1385116480009
0:07:11.424881	LOG	PULL_DATA: 02 4538 02 0016c001ff1025bf
0:07:11.425887	LOG	PULL_ACK: 02 4538 04
0:07:15.255944	LOG	First uplink received. Open reception window.
0:07:15.370718	LOG	PUSH_ACK: 02 3a4b 01
0:07:15.372765	LOG	GPS Time from gateway: 1385116483840
0:07:15.373803	LOG	PUSH_DATA: Protocol version = 02, Token = 3a4b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2347984858, 'time': '2023-11-27T10:34:24.840044Z', 'tmms': 1385116483840, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3347, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAmgYCI2XPYwFjCKJaAOw='}]}
0:07:15.374869	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 069a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a25a00ec)
0:07:15.376876	LOG	Server <-------------------- DUT
0:07:15.377909	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0383, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 427f3f9d)
0:07:15.380001	LOG	Frame command sent to the DUT

0:07:15.382002	LOG	PULL_RESP: Protocol version = 02, Token = 77a9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2348984858, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAgwPgno/f4yNWCOWLpkwnU2qZBrEIWC3cnos+0Ps9FVMMPxIbJ61E2Xit6ByJndBgALG7CsNF7rhtfwZW2QC0pD1BVLnaP1o95/4a/djUUsYcDAA1OO0I0ikEKpDHglnQxlPa8+vULtFDjHkVZYHTjOq5/G6AvEq3KkBxZ7S6V4X3xCHuYMj6CweClSKew/TF1MOFDVFJwnsR51TW0Z1/JurbSuBGjjYB6R22AUmP4l1Y1zkT+cilr0BXX/B57xnS3YJrCf/NESbikYOn6YERjYy3Q001lRPHFGPbE1ls+f7WZBfSMouAkCiW7WyI7PiavOAQP5pCfz+d'}}
0:07:15.383038	LOG	Server --------------------> DUT
0:07:15.386789	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:15.390324	LOG	Check previous uplink data rate process starts
0:07:15.394475	LOG	Uplink received with expected Data Rate
0:07:15.398137	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:20.251321	LOG	First uplink received. Open reception window.
0:07:20.353347	LOG	PUSH_ACK: 02 1e7c 01
0:07:20.355312	LOG	GPS Time from gateway: 1385116488839
0:07:20.356311	LOG	PUSH_DATA: Protocol version = 02, Token = 1e7c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2352984606, 'time': '2023-11-27T10:34:29.839791Z', 'tmms': 1385116488839, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3351, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAmwYC0oyT4kPKERE+I+c='}]}
0:07:20.358312	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 069b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 113e23e7)
0:07:20.359312	LOG	Server <-------------------- DUT
0:07:20.361312	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0384, FOpts:), FPort: e0, FRMPayload: 070001), MIC: aa21c6ae)
0:07:20.363317	LOG	Frame command sent to the DUT
0:07:20.364317	LOG	PULL_RESP: Protocol version = 02, Token = fd8d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2353984606, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAhAPg9ofzE6QxQziYOYSqA/NbtxxzG+8WLaQJArJg0+R1Vqe17pD5ebiU1dNCoS1f9SNkiwYYS2KYlw1Cojlir3DtvMaTIpF+x3YmVhtxENvWqU0LWZKMIW7OlDnS0H1v0u4q4TZvdgH0UsDHbW8OQrh38wVYKDrXmKxSCDig7hVvsl+Zj7+PvJ7YWgt9w1a5GXX2/h4H2DpqTRJJDiLYQ9isTvpJVjt1m+2ybTYuktB5JIAvN/Mv424XU/N17D9pWDJG+0m5HkkhcegeLVL55GtTttWH+BJRqbZSU1fejeZZpDjUW3+V8NusNMHAG4Ugv8PBkYWqIcau'}}
0:07:20.365317	LOG	Server --------------------> DUT
0:07:20.369320	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:20.371350	LOG	Check previous uplink data rate process starts
0:07:20.375631	LOG	Uplink received with expected Data Rate
0:07:20.379222	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:21.622831	LOG	GPS Time updated: 1385116490211
0:07:21.624826	LOG	PULL_DATA: 02 9829 02 0016c001ff1025bf
0:07:21.625568	LOG	PULL_ACK: 02 9829 04
0:07:25.254245	LOG	First uplink received. Open reception window.
0:07:25.367801	LOG	PUSH_ACK: 02 a438 01

0:07:25.369939	LOG	GPS Time from gateway: 1385116493839
0:07:25.372622	LOG	PUSH_DATA: Protocol version = 02, Token = a438, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2357984348, 'time': '2023-11-27T10:34:34.839532Z', 'tmms': 1385116493839, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3347, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAnAYC8ZLP1JXMdhipL40='}]}
0:07:25.373746	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 069c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 18a92f8d)
0:07:25.375311	LOG	Server <-------------------- DUT
0:07:25.377819	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0385, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 6cc71559)
0:07:25.379825	LOG	Frame command sent to the DUT
0:07:25.380825	LOG	PULL_RESP: Protocol version = 02, Token = 4eb9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2358984348, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAhQPgz1v/gymwk1nX1BMvmSjQQIai4IL1V4ZdhkK/hp7aFp9/AdmebVooMuHkpJ2TzJ9++j5TyAp3FTm1mKmosCa1NxApsXilJezBLG+q4qE7mI+3e4S8NqtBQhI+4CuIV1hH1T3XjOEf+kLOsQcLoJZ0kCprWu6JBGlpVjNa3IFHlK4vAcCLYx1zelV2LTo6ZFgSDpgDelm+h9l/J6x/U7sCMLnig+lGFLfXPbmP/bMbwsdNGd883v8gbBNCYBk1ev0As6yZ5DJD7D1uHR10SbCs/ItsAt3E7RYNxYlZx7/UKyR8bYZyHaSMKPxzrNul7PBr9P5sxxVZ'}}
0:07:25.383477	LOG	Server --------------------> DUT
0:07:25.387312	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:25.390150	LOG	Check previous uplink data rate process starts
0:07:25.393732	LOG	Uplink received with expected Data Rate
0:07:25.396651	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:30.253174	LOG	First uplink received. Open reception window.
0:07:30.366303	LOG	PUSH_ACK: 02 4c74 01
0:07:30.368338	LOG	GPS Time from gateway: 1385116498839
0:07:30.369304	LOG	PUSH_DATA: Protocol version = 02, Token = 4c74, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2362984080, 'time': '2023-11-27T10:34:39.839263Z', 'tmms': 1385116498839, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3347, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAnQYCdM307NjWjGUWfzg='}]}
0:07:30.371309	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 069d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 65167f38)
0:07:30.372314	LOG	Server <-------------------- DUT
0:07:30.374309	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0386, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 30b8c19c)
0:07:30.376309	LOG	Frame command sent to the DUT

0:07:30.377311	LOG	PULL_RESP: Protocol version = 02, Token = 40e7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2363984080, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAhgPgO15Bc0OIYdI2DPPToflWMGrrDzgrhjfs5qaeTPUysHPt7xCE0CFj4kl/5+DM9z+QSck9Lhwe2LnO1ZQXAuSKcDpquY8Zg7nDvyyWl9fb9x+slF2jVIOZYSjUHyi77bCaHNNLqZEFS1UpMGLbWW3+3yOb74RBCDZ9jTrOXYyVU3GDBD7WcV1ejXiP1DFJqWFh+TfsZPy5iCoqYhNlS7U0RYjqznT2DuFs9zWRf9N9XEWT61ZjUFKkyoAW5L2xeDjPFwk8klU9iN/TCWrpTjxYeV0VtT7CnLrVsxRtTae0+D15OFUFDNaoWHiPxQVSSE47pt0wuMGc'}}
0:07:30.378813	LOG	Server --------------------> DUT
0:07:30.383020	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:30.387057	LOG	Check previous uplink data rate process starts
0:07:30.392344	LOG	Uplink received with expected Data Rate
0:07:30.396164	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:31.632582	LOG	GPS Time updated: 1385116500218
0:07:31.634547	LOG	PULL_DATA: 02 0ace 02 0016c001ff1025bf
0:07:31.635547	LOG	PULL_ACK: 02 0ace 04
0:07:35.253334	LOG	First uplink received. Open reception window.
0:07:35.363769	LOG	PUSH_ACK: 02 fc0e 01
0:07:35.365966	LOG	GPS Time from gateway: 1385116503839
0:07:35.367141	LOG	PUSH_DATA: Protocol version = 02, Token = fc0e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2367983827, 'time': '2023-11-27T10:34:44.839008Z', 'tmms': 1385116503839, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3347, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAngYCGBfjczB+qCjeTDU='}]}
0:07:35.368806	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 069e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 28de4c35)
0:07:35.369862	LOG	Server <-------------------- DUT
0:07:35.372156	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0387, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 370a186b)
0:07:35.375447	LOG	Frame command sent to the DUT
0:07:35.377121	LOG	PULL_RESP: Protocol version = 02, Token = d50f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2368983827, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAhwPgNuK8ZVze45auiZpJZVOUVQSTz+pmW8nveXHg6zEiThRH4vfq9fgWtpQRwotSqA+4cBmLfvQqOvwAHutZVrYHaKk7jJo38qPKos/RpsSQuAwAOomxNq5IfBXJt3SC+pbK20NF4kaTBi/f0993Kx3gNQqYwESgz1zM+F3vppwbCsh9/ARrrSBCm+ZCEfgIKbTsTI4xZTi95nnugMhsvTcZ5gq2FfaeisqbkGW7l0BkEfbxs/Eh/9tP4bRzvEccGPZKYLa5cS3a09Z1RPj9oWAIxVEXp7OICdFu9KPsy0yXqERPKmJ1WI+Ya77eEkYZWj15SnE3Chhr'}}
0:07:35.379851	LOG	Server --------------------> DUT
0:07:35.384816	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:35.388608	LOG	Check previous uplink data rate process starts
0:07:35.394265	LOG	Uplink received with expected Data Rate
0:07:35.398588	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:40.251739	LOG	First uplink received. Open reception window.
0:07:40.356068	LOG	PUSH_ACK: 02 bf48 01

0:07:40.358037	LOG	GPS Time from gateway: 1385116508838
0:07:40.359036	LOG	PUSH_DATA: Protocol version = 02, Token = bf48, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2372983570, 'time': '2023-11-27T10:34:49.838752Z', 'tmms': 1385116508838, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3347, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAnwYCIcQnEDQKasCCSi0='}]}
0:07:40.361048	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 069f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c0824a2d)
0:07:40.362036	LOG	Server <-------------------- DUT
0:07:40.364042	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0388, FOpts:), FPort: e0, FRMPayload: 070001), MIC: e600b760)
0:07:40.366041	LOG	Frame command sent to the DUT
0:07:40.367041	LOG	PULL_RESP: Protocol version = 02, Token = aba9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2373983570, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAiAPgLahpybsLvb4JtEnU9LNMCvx/m+GlpKz1lAAEI1Rbw1+IkfgR6652Uq2vm2r8yayCrrm0MOosCEsacUVrhPHZCkVlJZ3fbugcap8AkTZCHvNu7GmW1uV+3FnBZiblerTFKjXRHYQ/A45MzE6KiZjdq/ZTnp9/mh5xqWP/EC7Tj5b1XqvGZm4ZhujH9L+HGVc1NF3GCRaM7yeXFwhowXu9T0xPRrIM7M6LcQXtR/tHeyF9eS/sHQudEhDnEAYG1DyucRJh/egt/lmhPTwJQkU64OZ40y2iwbvI0wi5yglZwVONwTSDOLbQIzTQ5KOmJ//jZ5jmALdg'}}
0:07:40.368041	LOG	Server --------------------> DUT
0:07:40.372043	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:40.374471	LOG	Check previous uplink data rate process starts
0:07:40.378050	LOG	Uplink received with expected Data Rate
0:07:40.382055	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:41.832382	LOG	GPS Time updated: 1385116510419
0:07:41.834350	LOG	PULL_DATA: 02 1cae 02 0016c001ff1025bf
0:07:41.836351	LOG	PULL_ACK: 02 1cae 04
0:07:45.245716	LOG	First uplink received. Open reception window.
0:07:45.352069	LOG	PUSH_ACK: 02 5bf7 01
0:07:45.354274	LOG	GPS Time from gateway: 1385116513838
0:07:45.355936	LOG	PUSH_DATA: Protocol version = 02, Token = 5bf7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2377983313, 'time': '2023-11-27T10:34:54.838494Z', 'tmms': 1385116513838, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3346, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAoAYCdnSgHJT6Q/twyxs='}]}
0:07:45.357362	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06a0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fb70cb1b)
0:07:45.358580	LOG	Server <-------------------- DUT
0:07:45.360769	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0389, FOpts:), FPort: e0, FRMPayload: 070001

		01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 1545445e)
0:07:45.363171	LOG	Frame command sent to the DUT
0:07:45.364461	LOG	PULL_RESP: Protocol version = 02, Token = 8676, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2378983313, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAiQPgwz6XXHYn5fTHX4u8aMzySL0/+T2LR+u/H6VW/SYUMO91kdC7+ZgWOm7EAH3u9ExAk9OrWGxuqu1sg8en4ML2d3kYGVL7LDckpmf8eJakhCRVoPUmuKB2T4fNc2EJSNv2ZMEp2dZPHhFE1jTWFgJaefyQeOescUn2mli/ab4Lit8YDUdIaySVrWbs93Px3FkX5gutmk/2OiIG1Tk8CKPtH/eRx1Won79izWNDUOUX8PFk1Y/dZeCtypUsMAiuDiPpaIzUWpOnqz+6tU5zLZKTxCpauhOlaHVwNTSOmQHUmnGTeBX3yve/ZsL6liORLaKkFaoVRURe'}}
0:07:45.366069	LOG	Server --------------------> DUT
0:07:45.369193	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:45.372125	LOG	Check previous uplink data rate process starts
0:07:45.376465	LOG	Uplink received with expected Data Rate
0:07:45.381210	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:50.245376	LOG	First uplink received. Open reception window.
0:07:50.353192	LOG	PUSH_ACK: 02 bec2 01
0:07:50.355161	LOG	GPS Time from gateway: 1385116518838
0:07:50.356161	LOG	PUSH_DATA: Protocol version = 02, Token = bec2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2382983046, 'time': '2023-11-27T10:34:59.838226Z', 'tmms': 1385116518838, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3347, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAoQYCMXPxS9wJwhF97qE='}]}
0:07:50.358161	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06a1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 117deea1)
0:07:50.359159	LOG	Server <-------------------- DUT
0:07:50.361159	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 038a, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: be8c43fb)
0:07:50.363160	LOG	Frame command sent to the DUT
0:07:50.365166	LOG	PULL_RESP: Protocol version = 02, Token = ceae, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2383983046, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAigPgIFGEnchgeTLFbkUS9/UCHs40jnItfa6+qzMSCUNw6BEq1n8PQvJjiH1+76oipdPs5tOZq/TocqRxRLeYVidBPcQac6Y+WwS0542Z/B4vUSOfUDbWkOCFLgJ45vTuz5KD43imiRkK6nyakI3ba0hs85oJMCFumRz8LgAiysxssfVhqqQNJXD8L+YZOP64SrT3F5VldsYuDC2HoV1S411dhZdBqPWpYyqD0A/KH8j3Qe40tCaj9Hitf99JqDyxmlM3tDzbrYVm0iuBwuGMO61PCSNZhFvSeZzpeR5w00dohewrKrVPCJCzcqI+Mr0rhIxiZtm+jEP7'}}
0:07:50.366164	LOG	Server --------------------> DUT
0:07:50.369176	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:50.372197	LOG	Check previous uplink data rate process starts
0:07:50.376184	LOG	Uplink received with expected Data Rate
0:07:50.379807	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:52.042653	LOG	GPS Time updated: 1385116520635
0:07:52.044669	LOG	PULL_DATA: 02 9999 02 0016c001ff1025bf

0:07:52.045655	LOG	PULL_ACK: 02 9999 04
0:07:55.247638	LOG	First uplink received. Open reception window.
0:07:55.362936	LOG	PUSH_ACK: 02 6b4d 01
0:07:55.365044	LOG	GPS Time from gateway: 1385116523838
0:07:55.366632	LOG	PUSH_DATA: Protocol version = 02, Token = 6b4d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2387982783, 'time': '2023-11-27T10:35:04.837962Z', 'tmms': 1385116523838, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3343, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAogYCFMselYQupf8Cbhk='}]}
0:07:55.367727	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06a2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ff026e19)
0:07:55.369544	LOG	Server <-------------------- DUT
0:07:55.371754	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 038b, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: d80bd4e7)
0:07:55.373363	LOG	Frame command sent to the DUT
0:07:55.375023	LOG	PULL_RESP: Protocol version = 02, Token = 3f85, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2388982783, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAiwPgbkx4PLkGrd7isoNwT51M3F+F0ONCiZByGeedOhOBfQZMnKbN5fgRYWvF58EMXD8Cb/LHlM7EZk5sHpDYFaH41D4VLEMV/vDYmiNp5zl/wc+gqZyJU5WdROxLvPz4uHdIoEONSYUvsTaDNq04qxBXHzNcRMpQpuRvyF1u07ntFUrFrbV7V0JeTMglPgpnVXLXtuDAzO5vf/mfBOSJ/MyLSJWmr1d68uadb/aYF4IwbfDanIu+PDF2jyR5pIbnfp7udx2ld4x0pBS7sGloFc67Qi7clE4uWwf7TT7r5VQn4rZPkdup8/rJ6mTOn8xb5Nps6YPYC9Tn'}}
0:07:55.376736	LOG	Server --------------------> DUT
0:07:55.379596	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:55.382537	LOG	Check previous uplink data rate process starts
0:07:55.389423	LOG	Uplink received with expected Data Rate
0:07:55.394011	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:00.248410	LOG	First uplink received. Open reception window.
0:08:00.359757	LOG	PUSH_ACK: 02 8653 01
0:08:00.361725	LOG	GPS Time from gateway: 1385116528837
0:08:00.362724	LOG	PUSH_DATA: Protocol version = 02, Token = 8653, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2392982537, 'time': '2023-11-27T10:35:09.837715Z', 'tmms': 1385116528837, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3347, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAowYCXy6wi7IWmxAj7Sw='}]}
0:08:00.364730	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06a3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1023ed2c)
0:08:00.365729	LOG	Server <-------------------- DUT
0:08:00.367737	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 038c, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101

		01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 7167e47b)
0:08:00.369729	LOG	Frame command sent to the DUT
0:08:00.370729	LOG	PULL_RESP: Protocol version = 02, Token = a866, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2393982537, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAjAPg7qaSwhpHJrgLz1Tk5SvcPk2J2izTDbexIRETigPWj8Yj2WRFy9MLWX0S6JvI8YqvDjcFkOmLP6LLiGgLOimKYc0evO3yxZYR04cOw9dnhQd/v/ZucUhlSAe1z8uhlKIqnxDYE0/2aiGjwE3K8MUtMGGodfxh+0c/PbUK3Hmltn0lsFsAiHjha8tfH58PxWuTn1MOHtBY/x154ngaLBMZOnDqx5shnfpody1ox6w6T5Ll+oQbkRGGvxdGwtG9UQw9AnwefDhoKL44tO4MLTENbaQkE6QfdyR1ycF9VE5l45Hn07vyW6kuAVIEA80AwG0dXCZxZ+R7'}}
0:08:00.371730	LOG	Server --------------------> DUT
0:08:00.375740	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:00.378267	LOG	Check previous uplink data rate process starts
0:08:00.383139	LOG	Uplink received with expected Data Rate
0:08:00.387172	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:02.052806	LOG	GPS Time updated: 1385116530642
0:08:02.053841	LOG	PULL_DATA: 02 fca4 02 0016c001ff1025bf
0:08:02.055807	LOG	PULL_ACK: 02 fca4 04
0:08:05.251640	LOG	First uplink received. Open reception window.
0:08:05.365897	LOG	PUSH_ACK: 02 cf94 01
0:08:05.368088	LOG	GPS Time from gateway: 1385116533837
0:08:05.369250	LOG	PUSH_DATA: Protocol version = 02, Token = cf94, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2397982274, 'time': '2023-11-27T10:35:14.837450Z', 'tmms': 1385116533837, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3343, 'rssi': -52, 'size': 20, 'data': 'QAAAAACApAYC2o2eYnT5OaiQ/AA='}]}
0:08:05.370856	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06a4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a890fc00)
0:08:05.372416	LOG	Server <-------------------- DUT
0:08:05.374496	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 038d, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 3f1de9ac)
0:08:05.376569	LOG	Frame command sent to the DUT
0:08:05.378121	LOG	PULL_RESP: Protocol version = 02, Token = 99f6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2398982274, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAjQPg+jqVJSqmORo5LysubrMIYTBmN6qbcqcV9LVNSc4jbH7cfkUfOcRbtD35eugxQFvPLzZVpWq8CePDaBcL+aJPldJH43lX5geXwnFmFYRVUdDpy5J919giL5IIz9uWeSry9X5CUL7XyAewhlmTwtGYcnd3uGK/eo10AGa6E7EffpPmBcY6U51F3nfThb6lu0q+TK3Qio3yHfQaIZUNAyx3b0BcnRGSI5z/1Eq8i69W6Ol7JFevUMZOpYBhuSzmQqSLQfgUG22JQqxC5x2OeSabyfLKL6uPIbq7sMVHUMNQwz7GkKLQ7ieY7I1lZj5l5qBL10Q/Hems'}}
0:08:05.379688	LOG	Server --------------------> DUT
0:08:05.383048	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:05.386352	LOG	Check previous uplink data rate process starts
0:08:05.391246	LOG	Uplink received with expected Data Rate

0:08:05.396375	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:10.245822	LOG	#***************************CURRENT BEACON SENT***************************#
0:08:10.246822	LOG	PULL_RESP: Protocol version = 02, Token = b836, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385116544000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAM49S3DAAAAAAAAAAAAA='}}
0:08:10.248824	LOG	Server --------------------> DUT
0:08:10.249829	LOG	#**#
0:08:10.259990	LOG	#***************************NEXT BEACON QUEUED***************************#
0:08:10.261958	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385116672000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAANI9SdGgAAAAAAAAAAAA='}}
0:08:10.262988	LOG	Server --------------------> DUT
0:08:10.263988	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 00348f52, CRC1: 7468, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385116672000
0:08:10.264990	LOG	#**#
0:08:10.266989	LOG	Next BEACON scheduled at GPS time (ms): 1385116800000
0:08:10.267987	LOG	First uplink received. Open reception window.
0:08:10.270025	LOG	TX_ACK: 02 b836 05 0016c001ff1025bf
0:08:10.379236	LOG	PUSH_ACK: 02 cd73 01
0:08:10.381233	LOG	GPS Time from gateway: 1385116538837
0:08:10.383276	LOG	PUSH_DATA: Protocol version = 02, Token = cd73, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2402982023, 'time': '2023-11-27T10:35:19.837200Z', 'tmms': 1385116538837, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3347, 'rssi': -51, 'size': 20, 'data': 'QAAAAACApQYCxZuAAX7Bhvg+MsQ='}]}
0:08:10.385234	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06a5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f83e32c4)
0:08:10.386235	LOG	Server <-------------------- DUT
0:08:10.389234	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 038e, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 6756a051)
0:08:10.390268	LOG	Frame command sent to the DUT
0:08:10.392269	LOG	PULL_RESP: Protocol version = 02, Token = 7f39, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2403982023, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAjgPgqzCDTfIspUIqsHtS57bDJLibotdDQodZnqUkl6MgPovrg+KdJuFmVRX2/ubqkTG195VCftLydXfUtb6gR2KNDOpFOjP0qYzlwcqBD7Juj7bqh7zZBi2PFskB/LBOsBvd2mXG/Oz43HUUp0le6DBhdLC4AHHdJD0CivGrDc0lFWddPXpt++GOpeC+o1wrVW8v24A1/Ww39lS1JFo5OCMhalcrfGwHzGLvzNK2daYlYCfNz2MXAg4sfCXhZp26bbPyCEGV/cszpzVXrz7bedwqDqEzUj5jR95mLNtjviMXNQ12U/CBCnc4ogoS+2/LokEiKeNnVqBR'}}

0:08:10.393267	LOG	Server --------------------> DUT
0:08:10.396275	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:10.399273	LOG	Check previous uplink data rate process starts
0:08:10.404270	LOG	Uplink received with expected Data Rate
0:08:10.407293	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:12.073036	LOG	GPS Time updated: 1385116540642
0:08:12.074034	LOG	PULL_DATA: 02 cd44 02 0016c001ff1025bf
0:08:12.076001	LOG	PULL_ACK: 02 cd44 04
0:08:15.252244	LOG	First uplink received. Open reception window.
0:08:15.366691	LOG	PUSH_ACK: 02 d219 01
0:08:15.368869	LOG	GPS Time from gateway: 1385116543837
0:08:15.369974	LOG	PUSH_DATA: Protocol version = 02, Token = d219, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2407981750, 'time': '2023-11-27T10:35:24.836926Z', 'tmms': 1385116543837, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3347, 'rssi': -51, 'size': 20, 'data': 'QAAAAACApgYC63a9a6SNE9mhfsw='}]}
0:08:15.371679	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06a6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d9a17ecc)
0:08:15.373198	LOG	Server <-------------------- DUT
0:08:15.375449	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 038f, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 060c434b)
0:08:15.377109	LOG	Frame command sent to the DUT
0:08:15.379236	LOG	PULL_RESP: Protocol version = 02, Token = 18fa, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2408981750, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAjwPgbsjWEsL/ZOJRDLI7ntR0u7w6OUQF5rXjC+DTeF66ObFbrHwrxXSYBFFyGW5JQ5XT4Tyfk7xv+mwuJiCOQVyKnV4fRCRv6Wbta2kcpv1Tl7SSRQGEMcYlOL2yc1qEQpWJgmkIFUU5fczjbe4yZO2HlwPtrUEghX4/1WejlCIvUQq5iRkTK2SUqUd4fFs+vzhDdHByQvyYZm5dYAgOJDZoMLZ53TdgN/Bpb2FJsWtLq/fC3qPw/LHX8bg1K5atZHJfxBJJ/318/Dp8X5Xgji56/8PNhgVqf6ADXO569GjfBmQf0h2hNLBkCDlkh/NfyzCBU5QGDENL'}}
0:08:15.380402	LOG	Server --------------------> DUT
0:08:15.384363	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:15.387161	LOG	Check previous uplink data rate process starts
0:08:15.392077	LOG	Uplink received with expected Data Rate
0:08:15.397013	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:20.250144	LOG	First uplink received. Open reception window.
0:08:20.362950	LOG	PUSH_ACK: 02 b8dd 01
0:08:20.364916	LOG	GPS Time from gateway: 1385116548836
0:08:20.366422	LOG	PUSH_DATA: Protocol version = 02, Token = b8dd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2412981493, 'time': '2023-11-27T10:35:29.836668Z', 'tmms': 1385116548836, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3347, 'rssi': -51, 'size': 20, 'data': 'QAAAAACApwYClsyngjl1GOJdc6Q='}]}
0:08:20.367427	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06a7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e25d73a4)
0:08:20.368426	LOG	Server <-------------------- DUT

0:08:20.370427	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0390, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 1fb0fcb9)
0:08:20.372427	LOG	Frame command sent to the DUT
0:08:20.373426	LOG	PULL_RESP: Protocol version = 02, Token = 286f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2413981493, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAkAPg8YXYTh1F2CW62LAOcY22sdy/NJaxnKwX2fDnu0fbDkgA KvwIUY8s+1hnR77bVnLpoO5udVBBUH5LPSD3oWL5iLsVwYFgzLcfFvG6RZy dOvbVi7oCzG7YoitkS16i6/Fo7sMv8Av9En7ZGamkZvxIUybXjxCGOyosdcCZR N0YDIZqUbFMK7TDWWnmclFaedBlsGcyVwpZQQIsnq3uCI8QTDFGclJkjC56 wJ+vSZuyzGNQza2E+BcVzfW/8LemIxJVRm1d/+BqzeKs+zP60295iyKa6AHlEp eIIjs8Uf9gsrwXGbkruFzCfJl7Irdf3PVcEnIfsPy5'}}
0:08:20.374427	LOG	Server --------------------> DUT
0:08:20.377428	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:20.380936	LOG	Check previous uplink data rate process starts
0:08:20.385937	LOG	Uplink received with expected Data Rate
0:08:20.389839	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:22.272398	LOG	GPS Time updated: 1385116550858
0:08:22.274398	LOG	PULL_DATA: 02 e7b4 02 0016c001ff1025bf
0:08:22.275401	LOG	PULL_ACK: 02 e7b4 04
0:08:25.246539	LOG	Multiple frames received. Selecting the correct frame...
0:08:25.247569	LOG	Frame selected: {'jver': 1, 'tmst': 2417981245, 'time': '2023-11-27T10:35:34.836419Z', 'tmms': 1385116553836, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3343, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAqAYCC31K4P7dBOb1E50='}
0:08:25.249537	LOG	First uplink received. Open reception window.
0:08:25.359541	LOG	PUSH_ACK: 02 eba6 01
0:08:25.361657	LOG	GPS Time from gateway: 1385116553836
0:08:25.362663	LOG	PUSH_DATA: Protocol version = 02, Token = eba6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2417981245, 'time': '2023-11-27T10:35:34.836419Z', 'tmms': 1385116553836, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3343, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAqAYCC31K4P7dBOb1E50='}, {'jver': 1, 'tmst': 2417981249, 'time': '2023-11-27T10:35:34.836423Z', 'tmms': 1385116553836, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -115, 'lsnr': -8.2, 'foff': -27864, 'rssi': -107, 'size': 20, 'data': 'QAAAAACAqAYCC31K4P7dBOb1E50='}]}
0:08:25.364664	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06a8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e6f5139d)
0:08:25.365674	LOG	Server <-------------------- DUT
0:08:25.368174	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0391, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010

		10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 627bffa0)
0:08:25.369174	LOG	Frame command sent to the DUT
0:08:25.371209	LOG	PULL_RESP: Protocol version = 02, Token = b639, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2418981245, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAkQPgsZLG3fsijzHoh6MbboTHakhHnPjC4wSeQfaHGR+H9ujcgkDYP9KmUIkeDjnALEldCJGW3+lre4eg7i0tKUmebsAZhjyDn42StVV+z9DDyh+5eGvCA62z5xL9KgWnLT9QQ0uBAL9ig/Jgz9WHRKKOCryNqHPSe7M2fp9UfUHHxVsB8Qek/OCmWc20NOlR3BUudiy0RpGPZN/kNGUlRbPovtsc319P3OZHwkWf+G1iR2s4r+Wqo1l0wis+QYXbfz0SiLYlVGHo8BQqvQqcIaqFfN3SicrhK/r8LyNslwDBTZABYEI2sm526NIDhGOvpS/prN1ie/+g'}}
0:08:25.373046	LOG	Server --------------------> DUT
0:08:25.376327	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:25.378986	LOG	Check previous uplink data rate process starts
0:08:25.384256	LOG	Uplink received with expected Data Rate
0:08:25.387878	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:30.248924	LOG	First uplink received. Open reception window.
0:08:30.351276	LOG	PUSH_ACK: 02 5458 01
0:08:30.353245	LOG	GPS Time from gateway: 1385116558836
0:08:30.354244	LOG	PUSH_DATA: Protocol version = 02, Token = 5458, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2422980982, 'time': '2023-11-27T10:35:39.836155Z', 'tmms': 1385116558836, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3343, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAqQYCGIfQuAqvlc4DdAY='}]}
0:08:30.355244	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06a9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ce037406)
0:08:30.357248	LOG	Server <-------------------- DUT
0:08:30.359245	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0392, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 3b294f4b)
0:08:30.361245	LOG	Frame command sent to the DUT
0:08:30.362250	LOG	PULL_RESP: Protocol version = 02, Token = 5f01, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2423980982, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAkgPg6tG2I992wN1pQxr/Fct7mdXpKwMNBohxv8r/6fUr3R2Hh9kcJmqJmxn0ZZoxVMM3V9cwDomIDhgZYiquVoKBCmcm+DXS9eRxU5DILYYA8OqNiUrV0ECMvnnvspRDuqb5q4ppT0JumyzvRMl7QX9EVfzwPEJaLBK3U/M4rep8AF380xE1GjS3cuCXfVybmrp/8mfM/ltIrflDzqFmd6ytaYF8d0PVWsVUlHfTknlsj+turEBrk29iRhO6x13hbWD/klSezvReveiInT7gSiKCHcxsW9LMYwzSRSpi8E1GBmPNv0fWJYNud3IZVmkGNEiGgkE7KU9L'}}
0:08:30.363252	LOG	Server --------------------> DUT
0:08:30.366249	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:30.369283	LOG	Check previous uplink data rate process starts
0:08:30.374267	LOG	Uplink received with expected Data Rate
0:08:30.376754	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:32.462254	LOG	GPS Time updated: 1385116561051

0:08:32.464274	LOG	PULL_DATA: 02 ff12 02 0016c001ff1025bf
0:08:32.465373	LOG	PULL_ACK: 02 ff12 04
0:08:35.242046	LOG	First uplink received. Open reception window.
0:08:35.357231	LOG	PUSH_ACK: 02 1a98 01
0:08:35.359397	LOG	GPS Time from gateway: 1385116563836
0:08:35.360566	LOG	PUSH_DATA: Protocol version = 02, Token = 1a98, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2427980714, 'time': '2023-11-27T10:35:44.835885Z', 'tmms': 1385116563836, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3343, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAqgYCeCzRkhrE9Dqxs14='}]}
0:08:35.362227	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06aa, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3ab1b35e)
0:08:35.363333	LOG	Server <-------------------- DUT
0:08:35.365492	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0393, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 79ccaa33)
0:08:35.367147	LOG	Frame command sent to the DUT
0:08:35.368416	LOG	PULL_RESP: Protocol version = 02, Token = 8865, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2428980714, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAkwPgl0hL/79IHaSvAWed/LmaT4+iYM/IZ4JcQvfFMlnBLge2+StAPVT4w0w6wGIAXbZyWTCYG8f3jga6eDTm1dVqXchaMg6GmQ6QLGWHVjO6KErdjI3mdcy681/njm6N/+2t8Rw+3V7cEY0GsuzS2RT/5vRG6kroHiq8UVAsLlR9o2LWJaGqP29wElZrgoNSicexA5lB+DOIu37mIsxjfIsgOHilZBFl+37NA00W+eHJtDZGjSThdI4cK0uKxpxH9fbZqnzboXICuU8Xr0DREOk9Uf3wscVkY5JEpuhJ6aRvII7WRoATEt5hsKkCJ8PCq/PibQZ5zKoz'}}
0:08:35.369386	LOG	Server --------------------> DUT
0:08:35.373028	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:35.375536	LOG	Check previous uplink data rate process starts
0:08:35.380992	LOG	Uplink received with expected Data Rate
0:08:35.385391	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:40.245088	LOG	First uplink received. Open reception window.
0:08:40.350406	LOG	PUSH_ACK: 02 ab85 01
0:08:40.352403	LOG	GPS Time from gateway: 1385116568835
0:08:40.353374	LOG	PUSH_DATA: Protocol version = 02, Token = ab85, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2432980453, 'time': '2023-11-27T10:35:49.835625Z', 'tmms': 1385116568835, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3343, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAqwYCj996IU+QLw06/+Q='}]}
0:08:40.355373	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06ab, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0d3affe4)
0:08:40.356374	LOG	Server <-------------------- DUT
0:08:40.358372	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0394, FOpts:), FPort: e0, FRMPayload: 0700010

		101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: a4a29a46)
0:08:40.360372	LOG	Frame command sent to the DUT
0:08:40.361372	LOG	PULL_RESP: Protocol version = 02, Token = 490f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2433980453, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAlAPgjm+/GB9vIQAfe3sUbbK+yU9OsTjeCLv2I8O7WHpkcR14y/lsRiXXZy+GSDfWlK86xJh2HZV5VWYCK5P5xgFxbuFlnFOS/WJ75M3ftkZJN/G/f83jS7IhW1rUdeOEA1FdQAsp32RGX9TpnhnifHBblXo78ayMJv9yTJrpnldaZTXDqbe/EwUV0Pa3kEk1Q4c7hDXfKSU05xqBeaddxE0wCJdjFFdGeYBTUMw9cSan2aNyG/eD5ErG69dm7FHLUVWsIuNBR5d9r4+boT0vxlz3BN2kvMH37LUQN7XWI6xLROS8Hgy0KIQDiRwxK/d1HM1cILakoppG'}}
0:08:40.363377	LOG	Server --------------------> DUT
0:08:40.366376	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:40.369379	LOG	Check previous uplink data rate process starts
0:08:40.373433	LOG	Uplink received with expected Data Rate
0:08:40.376477	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:42.672459	LOG	GPS Time updated: 1385116571262
0:08:42.674462	LOG	PULL_DATA: 02 e5c4 02 0016c001ff1025bf
0:08:42.675464	LOG	PULL_ACK: 02 e5c4 04
0:08:45.241066	LOG	First uplink received. Open reception window.
0:08:45.351010	LOG	PUSH_ACK: 02 356b 01
0:08:45.353291	LOG	GPS Time from gateway: 1385116573835
0:08:45.354927	LOG	PUSH_DATA: Protocol version = 02, Token = 356b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2437980199, 'time': '2023-11-27T10:35:54.835370Z', 'tmms': 1385116573835, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3343, 'rssi': -51, 'size': 20, 'data': 'QAAAAACArAYCNDx+qj7N2E0WRAo='}]}
0:08:45.356037	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06ac, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4d16440a)
0:08:45.357584	LOG	Server <-------------------- DUT
0:08:45.359627	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0395, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 36c3ed92)
0:08:45.361629	LOG	Frame command sent to the DUT
0:08:45.362756	LOG	PULL_RESP: Protocol version = 02, Token = d061, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2438980199, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAlQPgqdMChoOQSpTaG6Mn1eKQLSedIgYGJIFCzwO/ydQ223n70eq32JKLruFjWX6K86G4I9UaLqtIoU2l6xyL+O9cCtvrJLiTvn5w9TlEQOckdhhPvsKpA0g+9E0bc9hBBp+pxbaMiqJjhrOZdZDE0+5kHlEx0y5pCzReotFQVAh9MvLc5AzBwVFvk4owyArtIa5z6ydeeWQiGFfmZK6yXpBEO0yvprTkW09wGt+t/U80KOj7Vl4ZpEdAN2fHUc0L/gfZte0fuq8gTjfwhNjnsUNoeMqDz4Llej+9IMheRr0/EFjpaftJrJrAZIiCczmVmoSJH0U2w+2S'}}
0:08:45.363727	LOG	Server --------------------> DUT
0:08:45.367379	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:45.370286	LOG	Check previous uplink data rate process starts

0:08:45.374319	LOG	Uplink received with expected Data Rate
0:08:45.378338	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:50.244520	LOG	First uplink received. Open reception window.
0:08:50.353273	LOG	PUSH_ACK: 02 1731 01
0:08:50.355241	LOG	GPS Time from gateway: 1385116578835
0:08:50.356241	LOG	PUSH_DATA: Protocol version = 02, Token = 1731, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2442979947, 'time': '2023-11-27T10:35:59.835117Z', 'tmms': 1385116578835, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3347, 'rssi': -52, 'size': 20, 'data': 'QAAAAACArQYCs8uslOmv6QbeUhU='}]}
0:08:50.357241	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06ad, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 06de5215)
0:08:50.359241	LOG	Server <-------------------- DUT
0:08:50.361242	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0396, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: be755281)
0:08:50.362241	LOG	Frame command sent to the DUT
0:08:50.364247	LOG	PULL_RESP: Protocol version = 02, Token = 14b5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2443979947, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAlgPgkoO22m0SzMRT6Vs3RG5ZUMTV7YX4VvsMx7fbZl5gwbfGpMsz5/FBxEywVuQfNkf6ZXf+3r9gahKkwFmaP2svl6oHVY2g5QW212CYw6A8P43N3gLqWR1nxFuDxFVoJaBU54j3mGTzvm9t9+t9x3jVerWakaIdpbUXvU/ruR9DB4umRrDti7vk7+9vtMEe6waI40QlVzpYYENjKED/UgcVjxJVLGU4ttZjNMtD82dOOvYhKyZ0FSb8BAK83ZZlWIuCAe5jt7/bgceFLuVX78Aezh1nX/GOf+jh0JUBa/MwAv26hruIWT5q0FPHxTPoJEeLKgK+dVKB'}}
0:08:50.365246	LOG	Server --------------------> DUT
0:08:50.368245	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:50.371279	LOG	Check previous uplink data rate process starts
0:08:50.375586	LOG	Uplink received with expected Data Rate
0:08:50.378164	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:52.882901	LOG	GPS Time updated: 1385116581472
0:08:52.883899	LOG	PULL_DATA: 02 0fe7 02 0016c001ff1025bf
0:08:52.885897	LOG	PULL_ACK: 02 0fe7 04
0:08:55.241664	LOG	First uplink received. Open reception window.
0:08:55.353178	LOG	PUSH_ACK: 02 c6dc 01
0:08:55.355354	LOG	GPS Time from gateway: 1385116583834
0:08:55.357079	LOG	PUSH_DATA: Protocol version = 02, Token = c6dc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2447979686, 'time': '2023-11-27T10:36:04.834855Z', 'tmms': 1385116583834, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3347, 'rssi': -51, 'size': 20, 'data': 'QAAAAACArgYCpJtAGzzt6eUFbEY='}]}
0:08:55.358189	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06ae, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e5056c46)
0:08:55.359784	LOG	Server <-------------------- DUT
0:08:55.362011	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0397, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101

		01101010101010101), MIC: 07a5fa67)
0:08:55.363809	LOG	Frame command sent to the DUT
0:08:55.365470	LOG	PULL_RESP: Protocol version = 02, Token = cde8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2448979686, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAlwPgR7MFdB0Vn/3UUga3nSGt/hVO9S4cDDMs7EhQcy1eY9Af1KFhOwLXsu6YXJDuG3PLp6oAerdExx9FGB4jGfaMJaNBs/U0Sh63oz5hHZfGvhZQekigLdRdrBpktqx4SgPt9PLIEzQG6dCOLvh8N+8ZmuJRQQM7XNfYvIc8ZyqyupTrZEaGRuQbCQ0NTtmAr7zPZBOy9L/bgHO1npDg8p2wKV3tVps8/LyzrPgTGMnjZdLA9KyOxQl5y0xRisSHmYZoLxMgu6chcWGb1PW0GQZuZI3Fp4VgFHVz/Azuf+NCSk4JtSUx+z/7rg82OLs5oK+tusAHpfpn'}}
0:08:55.366527	LOG	Server --------------------> DUT
0:08:55.369902	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:55.372691	LOG	Check previous uplink data rate process starts
0:08:55.377228	LOG	Uplink received with expected Data Rate
0:08:55.381244	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:00.244690	LOG	First uplink received. Open reception window.
0:09:00.354440	LOG	PUSH_ACK: 02 acd9 01
0:09:00.356407	LOG	GPS Time from gateway: 1385116588834
0:09:00.357405	LOG	PUSH_DATA: Protocol version = 02, Token = acd9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2452979427, 'time': '2023-11-27T10:36:09.834595Z', 'tmms': 1385116588834, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3347, 'rssi': -52, 'size': 20, 'data': 'QAAAAACArwYCDJl8k1Bl6NF6nDU='}]}
0:09:00.358406	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06af, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d17a9c35)
0:09:00.360407	LOG	Server <-------------------- DUT
0:09:00.362407	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0398, FOpts:), FPort: e0, FRMPayload: 070001), MIC: ceef6b9e)
0:09:00.364412	LOG	Frame command sent to the DUT
0:09:00.365412	LOG	PULL_RESP: Protocol version = 02, Token = ec62, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2453979427, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAmAPgs55+APfCm2O/RvqWqIy+ldjbaoCDA+RcZOQUHybfxfwHpABXlDw1a0yHsF5TrZtr0GemLXShpB5pxih3MiYgJhUjFjvnghnbuJWFBZYQW/SQCO416Zx2MM9OutLwFksadEyjxb4XZooWWJC2dWy428NR9P7JjkbnrgGHyBjU5s6OeljjqmnyNohNrGAgA4XJQspLjtvaNVSiD3r0PQCBPkUeSrHqABcxYQEVz++N6kvGu9SwiLIKeWVgcJSySdwlfFCnIFPZkEVLip8ncRHQVP4w/CmtFfBc+yoyyhZ0YlL3DurFMcxA7+nufqxAZ/LnEJrO72ue'}}
0:09:00.366411	LOG	Server --------------------> DUT
0:09:00.369412	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:00.372870	LOG	Check previous uplink data rate process starts

0:09:00.377034	LOG	Uplink received with expected Data Rate
0:09:00.380153	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:03.092127	LOG	GPS Time updated: 1385116591683
0:09:03.094127	LOG	PULL_DATA: 02 0a93 02 0016c001ff1025bf
0:09:03.095128	LOG	PULL_ACK: 02 0a93 04
0:09:05.248139	LOG	First uplink received. Open reception window.
0:09:05.352374	LOG	PUSH_ACK: 02 8ef5 01
0:09:05.355037	LOG	GPS Time from gateway: 1385116593834
0:09:05.356705	LOG	PUSH_DATA: Protocol version = 02, Token = 8ef5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2457979164, 'time': '2023-11-27T10:36:14.834330Z', 'tmms': 1385116593834, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3343, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAsAYCq0L5N1VxMj8ypos='}]}
0:09:05.357939	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06b0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3f32a68b)
0:09:05.359035	LOG	Server <-------------------- DUT
0:09:05.361253	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0399, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 4e908162)
0:09:05.362889	LOG	Frame command sent to the DUT
0:09:05.363893	LOG	PULL_RESP: Protocol version = 02, Token = a645, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2458979164, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAmQPgo1rnIWlWqbbIr3oEJV/LQNaj8OYjvS8me6IhEdg+7shtJTKw PQaIoiGy0CZaTdMzX3PxtCQ7atjg4hOe6QZpS2nP66atc7h3OU8FHYOyMDuvM D0UXPCp3H5jxgEj47ucBRjevcmM6jbtZy62cwA3m4o5mS/r3e0M6GfSA/1/RI6I G8ip9pTnBZuMhBbvcr8sdpwYKWzzzSAmmofSSJVSKx12HTfT1fU86tjhcD87qc DrGHdJ9JRJ2ufJiXmdYOrNX50NHvdyipND48/N9Dd7pawvP0HuNG5RWGj6B GXaJVgcUMSQXya1/c2raQ0QIXRXadBOkIFi'}}
0:09:05.365901	LOG	Server --------------------> DUT
0:09:05.369063	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:05.372005	LOG	Check previous uplink data rate process starts
0:09:05.376390	LOG	Uplink received with expected Data Rate
0:09:05.379613	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:05.387401	LOG	TX_ACK: 02 a645 05 0016c001ff1025bf
0:09:10.246565	LOG	First uplink received. Open reception window.
0:09:10.353626	LOG	PUSH_ACK: 02 3a8b 01
0:09:10.355630	LOG	GPS Time from gateway: 1385116598834
0:09:10.357674	LOG	PUSH_DATA: Protocol version = 02, Token = 3a8b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2462978912, 'time': '2023-11-27T10:36:19.834079Z', 'tmms': 1385116598834, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3347, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAsQYC4iNGVyj8iYKUfbQ='}]}
0:09:10.358660	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06b1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 82947db4)
0:09:10.359660	LOG	Server <-------------------- DUT
0:09:10.361660	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 039a, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010

		1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 763e5644)
0:09:10.363632	LOG	Frame command sent to the DUT
0:09:10.364632	LOG	PULL_RESP: Protocol version = 02, Token = 0764, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2463978912, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAmgPgOxr5TX0OHs8olf1A5Jo4rCWU2YonRcA/egAeQEGbNgHYJ ByddUkRwqCqliaruEulmEoF+cijgucdrMN2OSucQ/WkJZ1xzqdNSnw0vZl2CHIIC KYKELYNmTIB6ruKEzoH6EKxPKwkmlUDSjtn8PlZE/zzA0ZzWFu9FVM6RAy fZCI0eUCmFKxde0zmHopAVj11GpsBs24sgPV0oWv61PfCy6+wJp1iUDet3WoN pcadTIQgQn72Hc32ixXS2T8qjAV9X7BDcHk+14P4IMQts5dF7YWefI9LTb2Mq5 aug3MV3p14u0I+UJXeV/ZAsR+DwqYntU52PlZE'}}
0:09:10.366632	LOG	Server --------------------> DUT
0:09:10.369647	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:10.372633	LOG	Check previous uplink data rate process starts
0:09:10.376632	LOG	Uplink received with expected Data Rate
0:09:10.380140	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:13.301991	LOG	GPS Time updated: 1385116601890
0:09:13.303990	LOG	PULL_DATA: 02 fd8e 02 0016c001ff1025bf
0:09:13.305324	LOG	PULL_ACK: 02 fd8e 04
0:09:15.249640	LOG	First uplink received. Open reception window.
0:09:15.359436	LOG	PUSH_ACK: 02 e3fc 01
0:09:15.361536	LOG	GPS Time from gateway: 1385116603833
0:09:15.363209	LOG	PUSH_DATA: Protocol version = 02, Token = e3fc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2467978649, 'time': '2023-11-27T10:36:24.833815Z', 'tmms': 1385116603833, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3347, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAsgYCJbGLSHdaEwdTTRU='}]}
0:09:15.364337	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06b2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 07534d15)
0:09:15.365949	LOG	Server <-------------------- DUT
0:09:15.368111	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 039b, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: bbf5e387)
0:09:15.370290	LOG	Frame command sent to the DUT
0:09:15.371962	LOG	PULL_RESP: Protocol version = 02, Token = 100b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2468978649, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAmwPgMepZJmIgd8hmet2676shJ0+/JYLXdzOZgVvWTodgjqSsyL1 9Uba+yowM5k0OJP//S7sPd91nd99mRfb5/hxv+ICoetBsvytl7Iaxb6/vp3JRBIdCSe SYufnkr8r5X3p5nJu1GZ0hYfoxjx6pwpLcGz39ubcjGQZosj35cqz8Uv+zcU+UlBn B/XnsWv2thgF0gPU2aB3FEXXTZiFg90RA1tCRlNG1XXms4Rx3xaE3wZkuQ1J

		SULmecRa+EuukDG3VDKrP/oOW+c89WcGcaQHojGMkq+Ehn0exhmX5YR5YlMftSTI777KHBezKlCHzD0NH3GK79eOH'}}
0:09:15.373137	LOG	Server --------------------> DUT
0:09:15.377019	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:15.380158	LOG	Check previous uplink data rate process starts
0:09:15.385925	LOG	Uplink received with expected Data Rate
0:09:15.389696	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:20.241935	LOG	First uplink received. Open reception window.
0:09:20.355054	LOG	PUSH_ACK: 02 a1fd 01
0:09:20.357022	LOG	GPS Time from gateway: 1385116608833
0:09:20.358022	LOG	PUSH_DATA: Protocol version = 02, Token = a1fd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2472978392, 'time': '2023-11-27T10:36:29.833557Z', 'tmms': 1385116608833, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3343, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAswYCuzFXnv+qxocAmtI='}]}
0:09:20.360023	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06b3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 87009ad2)
0:09:20.361022	LOG	Server <-------------------- DUT
0:09:20.363023	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 039c, FOpts:), FPort: e0, FRMPayload: 070001), MIC: f91efaff)
0:09:20.365027	LOG	Frame command sent to the DUT
0:09:20.366028	LOG	PULL_RESP: Protocol version = 02, Token = d8c9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2473978392, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAnAPgqBIMldEp+aUyO9YXbdxkq6UyYta6OjHv93Ok2gKO+5+G4i5HT8y+rCvAxtA6e6nvRRwZm2XPsRJRxRLHvK+la3nd7J5Lybct+ldDjpEoVeKoxnK7DZ/ti0zk9iMpAN1LvSEHUoT7qi+mccTAjylgwcEax1Y3IBovGVZRbXGNZtqsLoam1BmYAksegsVM8zxSav1xPTi9bwjmFN3ygp6H5B8HCd/2RG0mXXVjAYXZxx+N991LH/d3ld9SfyEMngthUQ23Eo+mwWLi9KrY/J8+wVNPaX4d6fKlXHbQV59E6a5SojxZTqYMapli094lG78Pcnf5Hvr/'}}
0:09:20.367028	LOG	Server --------------------> DUT
0:09:20.370044	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:20.373062	LOG	Check previous uplink data rate process starts
0:09:20.376597	LOG	Uplink received with expected Data Rate
0:09:20.381117	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:23.312470	LOG	GPS Time updated: 1385116611904
0:09:23.313469	LOG	PULL_DATA: 02 944c 02 0016c001ff1025bf
0:09:23.314438	LOG	PULL_ACK: 02 944c 04
0:09:25.241262	LOG	First uplink received. Open reception window.
0:09:25.351171	LOG	PUSH_ACK: 02 827a 01
0:09:25.353809	LOG	GPS Time from gateway: 1385116613833
0:09:25.355459	LOG	PUSH_DATA: Protocol version = 02, Token = 827a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2477978127, 'time': '2023-11-27T10:36:34.833291Z', 'tmms': 1385116613833, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3343, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAtAYCqYm3PSB9kg1KfZc='}]}
0:09:25.356914	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06b4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0d4a7d97)

0:09:25.358477	LOG	Server <-------------------- DUT
0:09:25.360076	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 039d, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 1a3cd25c)
0:09:25.361899	LOG	Frame command sent to the DUT
0:09:25.363572	LOG	PULL_RESP: Protocol version = 02, Token = 6554, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2478978127, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAnQPgw7clbrdLvP71DzxNkr2cLa2TzugaYFuLe0n1jsjPXCneN16Vk 1es1sQhI+mzAkuID3np4Wx0gijig2CyiWyRL0ioXkhcu6L00I4Gg6pKv6kKmETQ xdihkLkBDTcea+wcFcf7FPFXbQTIqxbCNN/0Oc85naSj0qys3ni5KP76GGVLrNk EbutUV4FoHv82qqCAzM+hRSzEewBLPWN5GWuq2m/YVzaC7dLnngXyLR91v aRoeqqmotcznsjhid4JOFrmn8wlaJAH0Tn4UnHZRXx2WnE/lrHPL2S86fsq0l/GXJ 4fKXs85QBsnLvkQnr2hCvgVhwaPNJc'}}
0:09:25.364673	LOG	Server --------------------> DUT
0:09:25.367896	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:25.371077	LOG	Check previous uplink data rate process starts
0:09:25.374895	LOG	Uplink received with expected Data Rate
0:09:25.378517	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:30.247518	LOG	First uplink received. Open reception window.
0:09:30.351355	LOG	PUSH_ACK: 02 e528 01
0:09:30.353384	LOG	GPS Time from gateway: 1385116618833
0:09:30.354359	LOG	PUSH_DATA: Protocol version = 02, Token = e528, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2482977879, 'time': '2023-11-27T10:36:39.833042Z', 'tmms': 1385116618833, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3339, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAtQYC0XqMwIjDBlp2SkA='}]}
0:09:30.356358	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06b5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5a764a40)
0:09:30.357356	LOG	Server <-------------------- DUT
0:09:30.359389	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 039e, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 4b8f4f29)
0:09:30.361357	LOG	Frame command sent to the DUT
0:09:30.362392	LOG	PULL_RESP: Protocol version = 02, Token = 5037, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2483977879, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAngPg5CCS4YLxG1ml4dAZ+quEeQUjhfbH7huJBINik7Tabww4XtI KYqBn8cgbxvBPNMB94UUVc7obqK3c7wq4JlT+S4ftuAjdVAXxSToWoun5Z+a JJc3Q1dgW0aWQ+B9GoDGiS+yIvhYu4suzWcILtrlCJrrg4wuuSRkdh2d//md3iaR3 FyX0y9S2Slb68oJO2doavkJr2MG+gi1uYAlw0KDWjqb/zG497bOhc3dyxvOGWd

		QlSR3wc4LmWy8rAs/Mc+EhF5FHM9tPvoNT+FNl1qlRB4t0w1fmmPxmlQ7dOXsGI3g++LrlEEkyXrV1CurIFXvHb4BLj08p'}}
0:09:30.364425	LOG	Server --------------------> DUT
0:09:30.367401	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:30.370393	LOG	Check previous uplink data rate process starts
0:09:30.374182	LOG	Uplink received with expected Data Rate
0:09:30.377224	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:33.512419	LOG	GPS Time updated: 1385116622098
0:09:33.513411	LOG	PULL_DATA: 02 e9f5 02 0016c001ff1025bf
0:09:33.515428	LOG	PULL_ACK: 02 e9f5 04
0:09:35.241071	LOG	First uplink received. Open reception window.
0:09:35.347019	LOG	PUSH_ACK: 02 0faf 01
0:09:35.348591	LOG	GPS Time from gateway: 1385116623832
0:09:35.350586	LOG	PUSH_DATA: Protocol version = 02, Token = 0faf, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2487977619, 'time': '2023-11-27T10:36:44.832780Z', 'tmms': 1385116623832, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3332, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAtgYCgBcThNasVftnAgs='}]}
0:09:35.352559	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06b6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fb67020b)
0:09:35.353558	LOG	Server <-------------------- DUT
0:09:35.355558	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 039f, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 81897fc7)
0:09:35.357588	LOG	Frame command sent to the DUT
0:09:35.359561	LOG	PULL_RESP: Protocol version = 02, Token = 84aa, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2488977619, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAnwPgph0bs96TrDLc8j3QW8e57RN4PZsmxczi9qNMH6y+Ijo4pjmFL5zQKfPX4ypMjMXOsQO6IZVB4x+PA1FqU0n3pYNFuOBkvMwQ3cAyk+mscPJ/pdSiSvnvEH9PCx1Ud+Q+2T+ZWEEhToAXyMy7wwjCDj7Qm5Dhq9qtgznsAaC7Yii49kbanp7itvRqcizgKVQeSBzr1yP3Mf5IwRNgY95sR29AZd4LuSjGfMpx7UDMaLBo6Y97MI7sno4+hYiKPzlvy4S3O7BayN+bF9hDIzHgq58JSDg2PZYhphh1tKxvAou6OX+ESPb6Nf4pN9fji1wvFAuBiX/H'}}
0:09:35.360561	LOG	Server --------------------> DUT
0:09:35.364565	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:35.367639	LOG	Check previous uplink data rate process starts
0:09:35.372028	LOG	Uplink received with expected Data Rate
0:09:35.375637	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:40.245905	LOG	First uplink received. Open reception window.
0:09:40.356124	LOG	PUSH_ACK: 02 d16a 01
0:09:40.358092	LOG	GPS Time from gateway: 1385116628832
0:09:40.359092	LOG	PUSH_DATA: Protocol version = 02, Token = d16a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2492977360, 'time': '2023-11-27T10:36:49.832522Z', 'tmms': 1385116628832, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3332, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAtwYCWOXMp3jH7n3MxOM='}]}
0:09:40.361098	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06b7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7dccc4e3)

0:09:40.362092	LOG	Server <-------------------- DUT
0:09:40.364097	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03a0, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: d8ae2218)
0:09:40.366097	LOG	Frame command sent to the DUT
0:09:40.367096	LOG	PULL_RESP: Protocol version = 02, Token = b018, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2493977360, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAoAPgmHYh+DhKJ+8G4swn8av/22y7CxkA6P6fACKh5wkrQqa/ApDLTxYKn4If5EYToGMJglZEPL3NbruOBWMuHCJItN5ps+esIoR74rTwx0bcxyEQmK+1MhP2/ekz2/apq1vx6MLa+alXf1d1WyUd2b71G0pkMR63C8PMKtv7RnjSyObsuW6VteBfDwOwjK8c1p4KnZWTa+KRGbVFem0kLbxy0Rtefge1u8ulUyIflrZ1ODIrDho3g4Yzz4asM0BOtT7QoBp3BHIs6j3NvrDrHY/VIfRQPrSNRkHw/yrsm1MiX/qtv2B1t6VPMVEq+aH++bGmMATYriIY'}}
0:09:40.369097	LOG	Server --------------------> DUT
0:09:40.372097	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:40.375098	LOG	Check previous uplink data rate process starts
0:09:40.378600	LOG	Uplink received with expected Data Rate
0:09:40.382656	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:43.722516	LOG	GPS Time updated: 1385116632309
0:09:43.723511	LOG	PULL_DATA: 02 42f2 02 0016c001ff1025bf
0:09:43.725480	LOG	PULL_ACK: 02 42f2 04
0:09:45.247449	LOG	First uplink received. Open reception window.
0:09:45.361586	LOG	PUSH_ACK: 02 97ee 01
0:09:45.363593	LOG	GPS Time from gateway: 1385116633832
0:09:45.364973	LOG	PUSH_DATA: Protocol version = 02, Token = 97ee, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2497977100, 'time': '2023-11-27T10:36:54.832261Z', 'tmms': 1385116633832, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3331, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAuAYCiZHIenOGQKK0SGQ='}]}
0:09:45.367033	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06b8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a2b44864)
0:09:45.368378	LOG	Server <-------------------- DUT
0:09:45.370532	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03a1, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 1ecfa9c0)
0:09:45.372178	LOG	Frame command sent to the DUT
0:09:45.373349	LOG	PULL_RESP: Protocol version = 02, Token = 3e0e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2498977100, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAoQPgfJ+2uVruqWo7RwEOtSULvOHSjwzqNM3DKqqGg7HUlTar

		Xu7XrvoV3GjdvO4fUwNRHXnv7g2lp5wfEM+Nfpi39fE/aFInAakcDvVclEptjlMkfXemxPIhzkLr32A1dF7OYiCQVy5lkqXsFs6gN5DiY3/nLVLO6/uNZQUtKM4TiQibchcJmipbIy7diQgiIrVF+WB65pExSnhPatXT06fkGlLmEJ5/K3fWi8FmJHBQ1IaK3bSwOHqitUBdeSlS05vsMnTvOAtohCaeFzJxlV2qcP8TZLsnoUVV4e8G7McO3eCrienWXN/IiUsAyn0J/XpotkEez6nA'}}
0:09:45.375044	LOG	Server --------------------> DUT
0:09:45.378025	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:45.381358	LOG	Check previous uplink data rate process starts
0:09:45.387421	LOG	Uplink received with expected Data Rate
0:09:45.391814	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:50.245776	LOG	First uplink received. Open reception window.
0:09:50.347190	LOG	PUSH_ACK: 02 cca1 01
0:09:50.349227	LOG	GPS Time from gateway: 1385116638832
0:09:50.350207	LOG	PUSH_DATA: Protocol version = 02, Token = cca1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2502976835, 'time': '2023-11-27T10:36:59.831995Z', 'tmms': 1385116638832, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3332, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAuQYC61nfk9BZbdMDk0Q='}]}
0:09:50.352194	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06b9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d3039344)
0:09:50.353194	LOG	Server <-------------------- DUT
0:09:50.355196	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03a2, FOpts:), FPort: e0, FRMPayload: 070001), MIC: e28ca732)
0:09:50.356226	LOG	Frame command sent to the DUT
0:09:50.358228	LOG	PULL_RESP: Protocol version = 02, Token = e305, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2503976835, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAogPgq5irDyaFEG6pkF4JHFyPik9ojqMEHhjHzjcH4QsIyWk4dXixX5vnMaUybM+y72Woe00fx5Fu2JjQGjmmvFWHr6ZZtPOOVHKQoG8xXzWzeRVOu+Q1C+8J+u0ASPcY3s0+SxnYcqePm847o9tyvdHun/fpNivHkcEHsP1xA4AL56d4Hqe8L0Z1FYTCSq5RrXc0rq7dE7STd8E+ED72diJZESTQjPrh1ZTM/i+krHXodPtgwepm9GBhkYPRCuuuBPWpSEJ6lDrWI/GSJeNJEyLZRDMhBssp7SNmqPaZP5aeYaEHACjpvsfq1oTxzr+22/I6wbDijKcy'}}
0:09:50.359735	LOG	Server --------------------> DUT
0:09:50.362740	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:50.365746	LOG	Check previous uplink data rate process starts
0:09:50.369569	LOG	Uplink received with expected Data Rate
0:09:50.372578	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:53.922429	LOG	GPS Time updated: 1385116642509
0:09:53.923430	LOG	PULL_DATA: 02 815a 02 0016c001ff1025bf
0:09:53.925433	LOG	PULL_ACK: 02 815a 04
0:09:55.246386	LOG	First uplink received. Open reception window.
0:09:55.353574	LOG	PUSH_ACK: 02 96bb 01
0:09:55.355576	LOG	GPS Time from gateway: 1385116643831
0:09:55.356576	LOG	PUSH_DATA: Protocol version = 02, Token = 96bb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2507976581, 'time': '2023-11-27T10:37:04.831740Z', 'tmms': 1385116643831, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3332, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAugYCCwK1Ya/KfGPILhY='}]}
0:09:55.358576	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06ba, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 63c82e16)
0:09:55.359576	LOG	Server <-------------------- DUT
0:09:55.361576	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03a3, FOpts:), FPort: e0, FRMPayload: 070001), MIC: fbcc506f)
0:09:55.363576	LOG	Frame command sent to the DUT
0:09:55.365580	LOG	PULL_RESP: Protocol version = 02, Token = 4a4d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2508976581, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAowPgWhYiqJ0GdVoYE8m/4szH5c8lubpKI7Z/6C5mFadi480bV1+pUBsH6gi1bCvF5CnaqbC3T0/jsdz9Wa+7OaA6EsPNEF3CKtV5wG25+4qu6Yem/e/JEKuH+5j0ZBoRRE20wFEp5xIMsKrN0YWcS8i/OngMvcO2w8HZpwDTYESkewXc1EeZSATQy9ShDQvEehCk4LHxqJxleel84CQZ+SRWHLYqKtZoPZeNzJfZQ9LfcS4mRv3CJ20ugszJNieBFnhX70bA/M5NLctZw06K56xHcuE8LcTEOG0FY9EY6PjB+/4bdeGitsLMeit1ojW+YXl+stf7zFBv'}}
0:09:55.367084	LOG	Server --------------------> DUT
0:09:55.370093	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:55.373157	LOG	Check previous uplink data rate process starts
0:09:55.377784	LOG	Uplink received with expected Data Rate
0:09:55.381768	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:00.244122	LOG	First uplink received. Open reception window.
0:10:00.348385	LOG	PUSH_ACK: 02 4ac8 01
0:10:00.350352	LOG	GPS Time from gateway: 1385116648831
0:10:00.351365	LOG	PUSH_DATA: Protocol version = 02, Token = 4ac8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2512976326, 'time': '2023-11-27T10:37:09.831483Z', 'tmms': 1385116648831, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3327, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAuwYC/k3bToIxHy3xI4I='}]}
0:10:00.353352	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06bb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2df12382)
0:10:00.354351	LOG	Server <-------------------- DUT
0:10:00.356356	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03a4, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 83c1d879)
0:10:00.358356	LOG	Frame command sent to the DUT
0:10:00.359356	LOG	PULL_RESP: Protocol version = 02, Token = cc65, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2513976326, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data':

		'YAAAAAAApAPgPalylq1fX8YhOSkRCnm9Z7uCbnj4Df7Vabts44JgFUhng2K7j z2uG+9FjDy5LoNpIyKkQSkYnBjm7g82IshxXiYS4QQaG6xQfw0oLJxre2QxcUb VB3t1gwu7ocntDz800u1UJhND86NpMlDa+8n9ZYBMPIfXoThr1ywf5P/lqH0z+/ XiINX/lOg6f+O/GgMCL9ckh8X457e1TzCsLqDLgYNbZhwBYyQ5qhiisNc+iVO6 A+1ENeLXtTAz6Bv+BT3peOxde6jAmnpbze5FEo41U3akAZ0hctB9SX3rIbpOQ GxB3zNO4YulPMMwkt2xz4kh1uqDwdh5'}}
0:10:00.360356	LOG	Server --------------------> DUT
0:10:00.364358	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:00.366392	LOG	Check previous uplink data rate process starts
0:10:00.370895	LOG	Uplink received with expected Data Rate
0:10:00.374901	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:03.931846	LOG	GPS Time updated: 1385116652519
0:10:03.933869	LOG	PULL_DATA: 02 90eb 02 0016c001ff1025bf
0:10:03.935818	LOG	PULL_ACK: 02 90eb 04
0:10:05.243172	LOG	First uplink received. Open reception window.
0:10:05.352807	LOG	PUSH_ACK: 02 c525 01
0:10:05.354775	LOG	GPS Time from gateway: 1385116653831
0:10:05.356775	LOG	PUSH_DATA: Protocol version = 02, Token = c525, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2517976063, 'time': '2023-11-27T10:37:14.831219Z', 'tmms': 1385116653831, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3327, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAvAYCum8+Fq6u+iOryL0='}]}
0:10:05.357782	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06bc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 23abc8bd)
0:10:05.359775	LOG	Server <-------------------- DUT
0:10:05.361787	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03a5, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: e6bb5972)
0:10:05.363786	LOG	Frame command sent to the DUT
0:10:05.365800	LOG	PULL_RESP: Protocol version = 02, Token = cc62, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2518976063, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAApQPgIiJRfHtSYb6qXN8z4GSGHjr+LnfkJOSi+eK5vRkB15cBMvX E9B1Mu2So0jN46ev6k3/CcFwmeIbV6Noq0QU5J0X6/xL/Liz1m4z0jSVubzIX9D v/o3Y10/95s5WyBBYuvxbE/wiWgxgWIpvwMxCwLlHoSuQk3kOSkenQf2xkFYh WOCvt07cR5L9JLHCWhSBlYL0oZBinXi3FHBgAX4hlemP/iL7Dwf1+OiQVjSL TB8XyqlQlaBdOsT8MGsNihnO4uz5mVMAuxKge2yIDwn92cTfV4OfqDTYsQZz aCoe6TsdmJJpqy2KEq8dUo18EzfE+Rkjmu1ly'}}
0:10:05.366784	LOG	Server --------------------> DUT
0:10:05.370785	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:05.373783	LOG	Check previous uplink data rate process starts
0:10:05.378645	LOG	Uplink received with expected Data Rate
0:10:05.383652	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:10.244171	LOG	First uplink received. Open reception window.
0:10:10.354790	LOG	PUSH_ACK: 02 3747 01
0:10:10.356790	LOG	GPS Time from gateway: 1385116658831
0:10:10.357758	LOG	PUSH_DATA: Protocol version = 02, Token = 3747, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2522975804, 'time': '2023-11-27T10:37:19.830961Z', 'tmms': 1385116658831, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3327, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAvQYCaBJg4p1fgsMG6W4='}]}
0:10:10.359758	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06bd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c306e96e)
0:10:10.360758	LOG	Server <-------------------- DUT
0:10:10.362764	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03a6, FOpts:), FPort: e0, FRMPayload: 070001), MIC: e67fdf61)
0:10:10.364780	LOG	Frame command sent to the DUT
0:10:10.365802	LOG	PULL_RESP: Protocol version = 02, Token = 0255, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2523975804, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAApgPgKBNEa385LclroQQUCOtNCRPMLYk8t2DAD0IbzPPf6iY+JE24WOqfCKsGCMeiAXjRVNYLFg/xWv9Zul9nKllpgh2MWJgw4ZetZv5YqBvtYXxpk3UEpg6yrWUyawD4CY9VrFz0brRsLVvLlaJ/FAjfOYtjLiBVUwMS6FhyaAK6gIAFAGUL99UaaCG+WCofp9cCI3z3+/jTCir+OBA1by1l5D2NUYMWz445iiKZndHxCXkqdJx/nOL8QH2YK0M/oFfBlVHDc1FnK2fDxHZ0gluw6af17PPiix1lCjDb9BlDyUBOnynpI5tGOcsvCFqHbBJbNjnmf99h'}}
0:10:10.366802	LOG	Server --------------------> DUT
0:10:10.370773	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:10.372802	LOG	Check previous uplink data rate process starts
0:10:10.376778	LOG	Uplink received with expected Data Rate
0:10:10.381333	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:14.142423	LOG	#***************************CURRENT BEACON SENT***************************#
0:10:14.144395	LOG	PULL_RESP: Protocol version = 02, Token = 5c4f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385116672000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAANI9SdGgAAAAAAAAAAAA='}}
0:10:14.145392	LOG	Server --------------------> DUT
0:10:14.147394	LOG	#**#
0:10:14.157396	LOG	#***************************NEXT BEACON QUEUED***************************#
0:10:14.158432	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385116800000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACANI9STLUAAAAAAAAAAAA='}}
0:10:14.159941	LOG	Server --------------------> DUT
0:10:14.161974	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 80348f52, CRC1: 4cb5, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385116800000
0:10:14.162974	LOG	#**#
0:10:14.164984	LOG	Next BEACON scheduled at GPS time (ms): 1385116928000
0:10:14.166977	LOG	GPS Time updated: 1385116662752
0:10:14.167979	LOG	PULL_DATA: 02 9f48 02 0016c001ff1025bf
0:10:14.168982	LOG	PULL_ACK: 02 9f48 04
0:10:14.170979	LOG	TX_ACK: 02 5c4f 05 0016c001ff1025bf

0:10:15.237222	LOG	First uplink received. Open reception window.
0:10:15.345097	LOG	PUSH_ACK: 02 fe84 01
0:10:15.347063	LOG	GPS Time from gateway: 1385116663830
0:10:15.348572	LOG	PUSH_DATA: Protocol version = 02, Token = fe84, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2527975536, 'time': '2023-11-27T10:37:24.830692Z', 'tmms': 1385116663830, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3327, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAvgYCJA84juiOJig9Ibk='}]}
0:10:15.349572	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06be, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 283d21b9)
0:10:15.350572	LOG	Server <-------------------- DUT
0:10:15.352572	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03a7, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 67149f7a)
0:10:15.354572	LOG	Frame command sent to the DUT
0:10:15.355572	LOG	PULL_RESP: Protocol version = 02, Token = 9e0e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2528975536, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAApwPg0g6shw6ZuES7E6lwH0fzmFowsMs+Yh6g7Bmpu+vGMoQLjj9fQ2fZuc9QDkT0foaUEVUM2jFC+9m27ypbWp9bLzZhnFPbgLZ/vrE2QkgRkBscmOY0qlbxsbhVwTa3+f7A8KJ7Hz/XGWS0sVIA0BIsL2W+AET00IwDGGHRRHFXsWYiC65OCTeWgpzjH+qwigi7nazUayFL+VR7/ENhWL9qCRaaOqxP+FkxCS0FRV/7/TyVADU9xqTOVevgyq9d3xmA0VbjiUVE8QJwjBPt88ax/4rus1EperZx2gElARFdVo8ZkqO0u4q/sRJPxCFj8HC+EKdnFJ96'}}
0:10:15.357572	LOG	Server --------------------> DUT
0:10:15.360572	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:15.363573	LOG	Check previous uplink data rate process starts
0:10:15.368578	LOG	Uplink received with expected Data Rate
0:10:15.373578	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:20.243738	LOG	First uplink received. Open reception window.
0:10:20.347129	LOG	PUSH_ACK: 02 71e7 01
0:10:20.348637	LOG	GPS Time from gateway: 1385116668830
0:10:20.350638	LOG	PUSH_DATA: Protocol version = 02, Token = 71e7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2532975289, 'time': '2023-11-27T10:37:29.830444Z', 'tmms': 1385116668830, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3327, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAvwYC/sv/cAbAhAh3/6k='}]}
0:10:20.351638	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06bf, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0877ffa9)
0:10:20.352638	LOG	Server <-------------------- DUT
0:10:20.354637	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03a8, FOpts:), FPort: e0, FRMPayload: 070001

		010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010), MIC: e8729588)
0:10:20.356638	LOG	Frame command sent to the DUT
0:10:20.357637	LOG	PULL_RESP: Protocol version = 02, Token = 3f0d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2533975289, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAqAPg23/eG2WRhAeGOKS55c/qJ/pv5BzZPQPs6oOHt7BD+fuz4aZyWq51EzHWvshNyxvJZtApPyrBZ4UuG4/P7xZ4Vok96FH6R0Gyyu8F1Fgx6lTTCMo/romtPKoTmwsX0sKumZtrhhIHCu8o4WOS4cR4sy9njt6EbcxXXXQAK9Uv+xKjAYFm7NCttqP41TY787FgYb7YTaz32wcBPT6ON6Udk6hYEHMPzewRi/45SxjPK7UUOyijLw198DAeP6948ER+yWGCqse8w4yEUMnDidQ/VQfB4ptMFbado15+kHo27oJJAgtN5bAE/4DGBm/HpK/xt8/ocpWI'}}
0:10:20.359637	LOG	Server --------------------> DUT
0:10:20.362638	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:20.365664	LOG	Check previous uplink data rate process starts
0:10:20.369642	LOG	Uplink received with expected Data Rate
0:10:20.373643	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:24.352260	LOG	GPS Time updated: 1385116672940
0:10:24.353262	LOG	PULL_DATA: 02 7980 02 0016c001ff1025bf
0:10:24.355230	LOG	PULL_ACK: 02 7980 04
0:10:25.238005	LOG	Multiple frames received. Selecting the correct frame...
0:10:25.240008	LOG	Frame selected: {'jver': 1, 'tmst': 2537975028, 'time': '2023-11-27T10:37:34.830182Z', 'tmms': 1385116673830, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3327, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAwAYCGHhMK4HI63gnvnI='}
0:10:25.241010	LOG	First uplink received. Open reception window.
0:10:25.355803	LOG	PUSH_ACK: 02 964b 01
0:10:25.357771	LOG	GPS Time from gateway: 1385116673830
0:10:25.358771	LOG	PUSH_DATA: Protocol version = 02, Token = 964b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2537975023, 'time': '2023-11-27T10:37:34.830177Z', 'tmms': 1385116673830, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -113, 'lsnr': -6.2, 'foff': 21181, 'rssi': -106, 'size': 20, 'data': 'QAAAAACAwAYCGHhMK4HI63gnvnI='}, {'jver': 1, 'tmst': 2537975028, 'time': '2023-11-27T10:37:34.830182Z', 'tmms': 1385116673830, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3327, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAwAYCGHhMK4HI63gnvnI='}]}
0:10:25.360804	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06c0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7827be72)
0:10:25.361803	LOG	Server <-------------------- DUT
0:10:25.363810	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03a9, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 858fa1d6)
0:10:25.365809	LOG	Frame command sent to the DUT
0:10:25.366809	LOG	PULL_RESP: Protocol version = 02, Token = 9022, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2538975028, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data':

		'YAAAAAAAqQPgvOOrGm5KddXGFZc3ANUkVDaxgB8GcA+hmSbp4LxrT83a hp/tHXpCiRpFol93btddcYR/kRe6/jGEaxOiZLt+DprtaeivO8+Y7oxFeX1YFHAZj/ QSXxMSG9hZIu14vLbBCjbtdrrfcZPCtmSCMxiPQDfE4RCScGuE/Ebmmv4vHMl Ndf44+rHMgZ1es0qBnymQnLne05p6IGZOlK31Qp7d1eKzVfHCbIg2HZ4y/rpXA uRZdsN3JlLoeNsxx2tFI7LbDAG99LN/7BuW5+61aadO+6P/wxhowXawBc7Al5G DrunavbeiOn9FjbonEiOl5KtgcXSFj6HW'}}
0:10:25.368809	LOG	Server ----------> DUT
0:10:25.371815	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:25.374811	LOG	Check previous uplink data rate process starts
0:10:25.380334	LOG	Uplink received with expected Data Rate
0:10:25.385334	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:30.237086	LOG	First uplink received. Open reception window.
0:10:30.340067	LOG	PUSH_ACK: 02 3d81 01
0:10:30.342036	LOG	GPS Time from gateway: 1385116678829
0:10:30.343035	LOG	PUSH_DATA: Protocol version = 02, Token = 3d81, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2542974767, 'time': '2023-11-27T10:37:39.829919Z', 'tmms': 1385116678829, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3327, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAwQYC3EOrbqa4yQcDOfA='}]}
0:10:30.345040	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06c1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 070339f0)
0:10:30.346040	LOG	Server <---------- DUT
0:10:30.348549	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03aa, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 101010101010101), MIC: c36935b0)
0:10:30.349549	LOG	Frame command sent to the DUT
0:10:30.351549	LOG	PULL_RESP: Protocol version = 02, Token = 72ce, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2543974767, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAqgPg2OvhequMX09GY3xUsH2S4ZA3PmIutKsVW2SXG1JXEwtO oGrb9rSYpDq5tfvlXELHkYUQSihagapicTwEbmJdZWRpBvkel3NGiSY5iqV2XF puPCcDHBCQumTvXH+La848xxBcrqmV8z5LrT46CKcpuJAHT7Iq1617wWvtla Ewphu7Y5xgSRDblRi/zpqJUx9gBowx6kasB+0WQCn6J3VeVP5HVt36Q9djr0qg VOiNF8gPP0/BhKsygwXCA/pb7Wmw/oHMDCtPLf5Opv62mwnSEYN2bnhKRH lJ7IlmIL1+nclH6D969BqmcS6/KZnY9Y5Z4hLDaTWw'}}
0:10:30.353582	LOG	Server ----------> DUT
0:10:30.356552	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:30.359548	LOG	Check previous uplink data rate process starts
0:10:30.363524	LOG	Uplink received with expected Data Rate
0:10:30.366730	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:34.552179	LOG	GPS Time updated: 1385116683144
0:10:34.553179	LOG	PULL_DATA: 02 c609 02 0016c001ff1025bf
0:10:34.554740	LOG	PULL_ACK: 02 c609 04
0:10:35.237735	LOG	First uplink received. Open reception window.
0:10:35.339036	LOG	PUSH_ACK: 02 2248 01
0:10:35.341032	LOG	GPS Time from gateway: 1385116683829
0:10:35.342005	LOG	PUSH_DATA: Protocol version = 02, Token = 2248, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2547974507, 'time': '2023-11-27T10:37:44.829660Z', 'tmms': 1385116683829, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3324, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAwgYChquZwdrmlLos2w='}]}
0:10:35.344010	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06c2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ba2cdb0e)
0:10:35.345046	LOG	Server <-------------------- DUT
0:10:35.347062	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03ab, FOpts:), FPort: e0, FRMPayload: 070001), MIC: ab4420f9)
0:10:35.349089	LOG	Frame command sent to the DUT
0:10:35.350088	LOG	PULL_RESP: Protocol version = 02, Token = 23da, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2548974507, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAqwPg41E+GhekA6niDFRBbq7OtKM2kLMzhjF+0duzOkGkLMjR44TG3ikbiz3OnAdUAg+Mzrouo1Y3t5XdTjvAk+FeF1kAlJAMHPvnvn+8WgkHjWRH9dt53pdBGNKYkyR4mVkYIg5NPMy4ZSV4IIACn8vEioWkjoY1A744l4dmlUbmqvzqpAUrOcUSQrHplhHlGBURRXJCIDhPyVmqNVvBJ3d2V/rcXwyp5PlTFxWE3LGBWeRfi+jzMPc+5AoCfPmqADU3MLuZj9NiTJkRd6x5Hz7ZMqBUBYzGppwqU46fmakUIiF3EynlYcRpWc7+iPyBdEFj82urRCD5'}}
0:10:35.352119	LOG	Server --------------------> DUT
0:10:35.356090	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:35.359091	LOG	Check previous uplink data rate process starts
0:10:35.363091	LOG	Uplink received with expected Data Rate
0:10:35.366095	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:40.238301	LOG	First uplink received. Open reception window.
0:10:40.349500	LOG	PUSH_ACK: 02 63b9 01
0:10:40.351468	LOG	GPS Time from gateway: 1385116688829
0:10:40.352468	LOG	PUSH_DATA: Protocol version = 02, Token = 63b9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2552974245, 'time': '2023-11-27T10:37:49.829397Z', 'tmms': 1385116688829, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3324, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAwwYCp0DeUqdI/fsarIw='}]}
0:10:40.354502	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06c3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fb1aac8c)
0:10:40.355468	LOG	Server <-------------------- DUT
0:10:40.357467	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03ac, FOpts:), FPort: e0, FRMPayload: 070001), MIC: c43c711b)
0:10:40.359468	LOG	Frame command sent to the DUT
0:10:40.360467	LOG	PULL_RESP: Protocol version = 02, Token = 9de0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2553974245, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data':

		'YAAAAAAArAPgDXwuPQvrJg3ebS1wrEmB8E/mDheTonMReNvXQurCzQKMF38ZX5jWDih572fz/ZB7/s5+HTaGiNAuotp5uu0dSJbzjBXipM9S1rXV7j3EPgz3CV/ij2Q4tL4mPHbRF6hIUG5nhDgEPJuq3iP6tLNIGmtJONZ/ODmY2Berho2ui2XNGHgpClgv2csiae9grlIhaP+k6QdKfF8Ml6g82+TThADZQbZthH/1MQ5uqNGhTsgV8MXjt5YRpf/R+J03e1D5uLxc2r3Y+6WfgmUhtYLxI8dVF4ezZ7gBcN168NBaqEam+wDm2PBLUvQy+fWg0HbesefEPHEb'}}
0:10:40.361467	LOG	Server -------------------> DUT
0:10:40.364500	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:40.367496	LOG	Check previous uplink data rate process starts
0:10:40.372458	LOG	Uplink received with expected Data Rate
0:10:40.375444	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:44.561545	LOG	GPS Time updated: 1385116693152
0:10:44.563545	LOG	PULL_DATA: 02 0348 02 0016c001ff1025bf
0:10:44.564816	LOG	PULL_ACK: 02 0348 04
0:10:45.240915	LOG	First uplink received. Open reception window.
0:10:45.351342	LOG	PUSH_ACK: 02 4d4d 01
0:10:45.353339	LOG	GPS Time from gateway: 1385116693829
0:10:45.354310	LOG	PUSH_DATA: Protocol version = 02, Token = 4d4d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2557973986, 'time': '2023-11-27T10:37:54.829137Z', 'tmms': 1385116693829, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3328, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAxAYCtNrwQ/bw74B4rNw='}]}
0:10:45.356324	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06c4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8078acdc)
0:10:45.357343	LOG	Server <-------------------- DUT
0:10:45.359311	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03ad, FOpts:), FPort: e0, FRMPayload: 070001), MIC: ccced681)
0:10:45.361309	LOG	Frame command sent to the DUT
0:10:45.362309	LOG	PULL_RESP: Protocol version = 02, Token = b526, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2558973986, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAArQPgcdQIHTfL1DgZ143guvox0vNvSNmOo7ixZpImY/CXsc0hekspOur7tl/HEMiVTCv61srJgRnSu8PrCc4oQySXhzlkYMcuvr7S89Dm9br6T84eZiHiJxkuu3cQ/M9nUV0L2Hi76l5M1Bo8cU21+aAacz3mkKARaYwoilZudTx1/TWoNa8qEMgZSA73+NggnCamPiYK9L9BEAiKyazTxXmcCx1jdsTiS6ZEprhCT9XRZivTFEki32DUILwBHZgKN4m6w/Hs0giLZsn0S2jQQiz3LQw4F99YZ/Oq+QmYjOBuCLvwiih0WzsVNe4J17LsWYHNyRnMztaB'}}
0:10:45.363309	LOG	Server -------------------> DUT
0:10:45.366313	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:45.370346	LOG	Check previous uplink data rate process starts
0:10:45.374314	LOG	Uplink received with expected Data Rate
0:10:45.378315	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:50.243799	LOG	First uplink received. Open reception window.
0:10:50.355195	LOG	PUSH_ACK: 02 10dd 01
0:10:50.357163	LOG	GPS Time from gateway: 1385116698828
0:10:50.358163	LOG	PUSH_DATA: Protocol version = 02, Token = 10dd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2562973737, 'time': '2023-11-27T10:37:59.828887Z', 'tmms': 1385116698828, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3324, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAxQYCV88dmTytc0LQmTE='}]}
0:10:50.359163	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06c5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 42d09931)
0:10:50.361162	LOG	Server <-------------------- DUT
0:10:50.363163	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03ae, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 636afe9e)
0:10:50.364168	LOG	Frame command sent to the DUT
0:10:50.366168	LOG	PULL_RESP: Protocol version = 02, Token = 8474, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2563973737, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAArgPg65NrVYTTQzgA5sGX5SFBGfi/RUtHD13XBVSHrSsShq5/DF /kOBZg0BPU4uzplx5HhLZeOoC6ua9GWMDzoE+qZWZAX5ttg9+jZpbsR/Y6i2q 4qdRwm50VZ67IJU6/WZzwNCUYRjRPpsSKRSb/gRRxhIlisdesVEfod9ZgWRow EEn5wQtL7WbKB95BBmu20Vm3vjkWpt3C5byL4BVGSlrFEGO58fu0gsKS9h5 NEcX0USlNySsjDsz4a9hjIDMHz7Y/zAGSWBkSel03gM1T0+qVny3Vh/barcIhjF cEaT7MSA7OCg/a2hN7HzeEDJTuJhjlBI1jav6e'}}
0:10:50.367168	LOG	Server --------------------> DUT
0:10:50.370169	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:50.373167	LOG	Check previous uplink data rate process starts
0:10:50.378233	LOG	Uplink received with expected Data Rate
0:10:50.381709	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:54.771490	LOG	GPS Time updated: 1385116703357
0:10:54.773459	LOG	PULL_DATA: 02 38d5 02 0016c001ff1025bf
0:10:54.775173	LOG	PULL_ACK: 02 38d5 04
0:10:55.243184	LOG	First uplink received. Open reception window.
0:10:55.347386	LOG	PUSH_ACK: 02 0270 01
0:10:55.349391	LOG	GPS Time from gateway: 1385116703828
0:10:55.350423	LOG	PUSH_DATA: Protocol version = 02, Token = 0270, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2567973475, 'time': '2023-11-27T10:38:04.828624Z', 'tmms': 1385116703828, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3324, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAxgYCTYtMkZElejReJXs='}]}
0:10:55.351427	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06c6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 345e257b)
0:10:55.353389	LOG	Server <-------------------- DUT
0:10:55.355396	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03af, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 8d6a6e60)
0:10:55.356423	LOG	Frame command sent to the DUT

0:10:55.358426	LOG	PULL_RESP: Protocol version = 02, Token = 3481, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2568973475, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAArwPg9Od8d9xdxtmyHnC11GSHOMeXY5czn3/ggWVwwLlnf2Jk5 DEnroYrN0Ox6nvw2h3lY2Vtaoe61huc9uUg+2Wg/IFHnK/mxzFl+n/hYYspDlems JFCzmTb/MDCu3QKN2vmVB7w9Hr4TE+rEeG9J9/dPMv5HmuWdXZkv8gX9ig nr3XR862jrQR1uDCZkPtbN0HjnCPBR83O/OU/sDKeJB/4ymw2h5m8sMl+A353j 4KzBC3MiXO0t6JW8T6hCGuB3e/wrp8QcFPa+XvVsQ/iNOxMsqU7/6rQGLs1bG kLQV9wvFzxpsmuVFtPoeYedcjZRiYhda+Nam5g'}}
0:10:55.359424	LOG	Server --------------------> DUT
0:10:55.362392	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:55.365399	LOG	Check previous uplink data rate process starts
0:10:55.370070	LOG	Uplink received with expected Data Rate
0:10:55.373517	LOG	Send Test Command TxFramesCtrlReq process starts
0:11:00.234336	LOG	First uplink received. Open reception window.
0:11:00.336340	LOG	PUSH_ACK: 02 b81b 01
0:11:00.337809	LOG	GPS Time from gateway: 1385116708828
0:11:00.339817	LOG	PUSH_DATA: Protocol version = 02, Token = b81b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2572973206, 'time': '2023-11-27T10:38:09.828353Z', 'tmms': 1385116708828, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3316, 'rssi': - 52, 'size': 20, 'data': 'QAAAAACAxwYCPckHFYU6Ad+kdgs='}]}
0:11:00.340821	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06c7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: dfa4760b)
0:11:00.341821	LOG	Server <-------------------- DUT
0:11:00.343822	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03b0, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: f79a5860)
0:11:00.345821	LOG	Frame command sent to the DUT
0:11:00.347326	LOG	PULL_RESP: Protocol version = 02, Token = 0038, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2573973206, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAsAPghVx517qTYx7pQ+ZQHDEnN1a9RL1WVRQeSzJ1LIUTBQT 3oePMrH4nLr4NaLVIrfO2+6ZuRTLmWhAwLqkZjXyolwlITHseJCLF3AsrvzdR/ oxcQa8Htmn9Bf4xQ/0Sl6cs5j19eO1VO/al/3E7klMn5OjmAxa/Yyh5UQeu4ZCJb1 D58HRap6SIjZWCa6s5qq/6TLCSlFlOskksg44lUv2ay6oxEt4aFyP9j63os17pf/jnca APCHVdysZThOo5a/B/UqSzt4j6Y7CPhW6xL5SPiMiw1pvQRvjrHjjBP52qXYyN y/Vav5hKPEFjUQmD+et/gbz3mlhg'}}
0:11:00.349332	LOG	Server --------------------> DUT
0:11:00.352335	LOG	Send Test Command TxFramesCtrlReq process completed
0:11:00.356332	LOG	Check previous uplink data rate process starts
0:11:00.360213	LOG	Uplink received with expected Data Rate
0:11:00.363473	LOG	Send Test Command TxFramesCtrlReq process starts
0:11:04.962257	LOG	GPS Time updated: 1385116713555
0:11:04.963257	LOG	PULL_DATA: 02 2629 02 0016c001ff1025bf
0:11:04.964819	LOG	PULL_ACK: 02 2629 04
0:11:05.240688	LOG	First uplink received. Open reception window.
0:11:05.347388	LOG	PUSH_ACK: 02 029f 01

0:11:05.349415	LOG	GPS Time from gateway: 1385116713828
0:11:05.350428	LOG	PUSH_DATA: Protocol version = 02, Token = 029f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2577972958, 'time': '2023-11-27T10:38:14.828106Z', 'tmms': 1385116713828, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3324, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAyAYChTqaj5Qcf+m9eo0='}]}
0:11:05.352394	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06c8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e9bd7a8d)
0:11:05.353424	LOG	Server <-------------------- DUT
0:11:05.355393	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03b1, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: b9ca14b9)
0:11:05.356424	LOG	Frame command sent to the DUT
0:11:05.358420	LOG	PULL_RESP: Protocol version = 02, Token = 5c99, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2578972958, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAsQPg+evz497zctaMFyWj0OrBRFBscZQa2QT7q3PZaSpy/ZAPAC8rfYt0MyNWJVzSwbbX0MBbHEsQxZ1GSS1SfD6WprVPsJhDp32F9biKEJOdr4YEIni37642JxjcifTES0rIq5dv8Yc8JBM4AVwy4YnrQHvPyIBGxGp97iwDXaeiUa9iRsfFhutvFiDPXiDdopuP6cnFCEHvGbo5ZohDf+Zp1Q87A1SLjGYHRWM6KV5WLYHuROoJUtR0VEq6vrQG8/dWLHGtdYqYqY4jDlU/yhfFEkVIi2jRgbtVW5IS8M4JP1jdTgK8ULv3CRBaQ5CLmogV+n+5yhS5'}}
0:11:05.359425	LOG	Server --------------------> DUT
0:11:05.362393	LOG	Send Test Command TxFramesCtrlReq process completed
0:11:05.365402	LOG	Check previous uplink data rate process starts
0:11:05.369402	LOG	Uplink received with expected Data Rate
0:11:05.373401	LOG	Send Test Command TxFramesCtrlReq process starts
0:11:10.241003	LOG	First uplink received. Open reception window.
0:11:10.344567	LOG	PUSH_ACK: 02 aa99 01
0:11:10.346527	LOG	GPS Time from gateway: 1385116718827
0:11:10.347560	LOG	PUSH_DATA: Protocol version = 02, Token = aa99, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2582972690, 'time': '2023-11-27T10:38:19.827837Z', 'tmms': 1385116718827, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3324, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAyQYCpcki0iOHtIpcuY0='}]}
0:11:10.349097	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06c9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8a5cb98d)
0:11:10.350134	LOG	Server <-------------------- DUT
0:11:10.352113	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03b2, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: f78205f5)
0:11:10.354104	LOG	Frame command sent to the DUT

0:11:10.355134	LOG	PULL_RESP: Protocol version = 02, Token = bca9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2583972690, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAsgPgbEVVeQ/CV1bn8aAhszsKtLzL0Cqq6V2MZnA+w+yakM69wKVXrRU79SFbUvR9IybBQnIXzZAdsBKoGZtiVco9nOjlbkXqE+eKzbVaIepl5P/gnJBcdYrqVKuafMxqOcrg3N9iVdC2KYNz9+FIz+wjnfu5E5/j8cRD+N5fFnJ5xbxUZQW4X6rKjDcQwBTW8mzFNdmQbuwx6JeFIbOLeKJDNvuqneU2GKE7/r7ogQ7SOG1lyB3hC9wHeN4tjqVSaeAGJJDyal5+b4IWyWVjXhAKi7WvWty6zKTPhPw3qyeY47gyXO/D3blV62Z3E4ReMIJlqHv3ggX1'}}
0:11:10.357104	LOG	Server --------------------> DUT
0:11:10.360110	LOG	Send Test Command TxFramesCtrlReq process completed
0:11:10.363105	LOG	Check previous uplink data rate process starts
0:11:10.367111	LOG	Uplink received with expected Data Rate
0:11:10.371132	LOG	Send Test Command TxFramesCtrlReq process starts
0:11:14.971463	LOG	GPS Time updated: 1385116723557
0:11:14.973473	LOG	PULL_DATA: 02 ea94 02 0016c001ff1025bf
0:11:14.974469	LOG	PULL_ACK: 02 ea94 04
0:11:15.234760	LOG	First uplink received. Open reception window.
0:11:15.335216	LOG	PUSH_ACK: 02 7128 01
0:11:15.337184	LOG	GPS Time from gateway: 1385116723827
0:11:15.339184	LOG	PUSH_DATA: Protocol version = 02, Token = 7128, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2587972445, 'time': '2023-11-27T10:38:24.827591Z', 'tmms': 1385116723827, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3324, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAygYCINY9nPnM+3+BlF4='}]}
0:11:15.341190	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06ca, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7f81945e)
0:11:15.342189	LOG	Server <-------------------- DUT
0:11:15.344189	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03b3, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 665b9283)
0:11:15.345188	LOG	Frame command sent to the DUT
0:11:15.347189	LOG	PULL_RESP: Protocol version = 02, Token = 7575, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2588972445, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAswPgdwdLykqZWvghv+QieoHEGDtu7jyxpDV4/2ca7p8OqNVjNHKgKMnPxsmP5rUdznHhtMfF71LtwWiNlZJ1TLLCEXv7Bm/46Sg7E77D1E84iqyAXAaoqDn9KILXOtgfir4V1wYAbpm1dAt86O/zxQsNmNqfF37Sbs92fu+LH+LnqHV0ZBAkYDOwwyYnJFTu/j3QPpRFfOxiZdYFpejXHxJDJQakWXUMMO5oMjE596i3SIb0dcbFMdHYUnGb0Vf8Rxs+SdlJg/BnZjynAftEXqDHcCz24X58rRq5CNj+bcBSY0twuZto8sppeIGWlfcyWqXNnm5mW5KD'}}
0:11:15.348698	LOG	Server --------------------> DUT
0:11:15.352701	LOG	Send Test Command TxFramesCtrlReq process completed
0:11:15.356246	LOG	Check previous uplink data rate process starts
0:11:15.360247	LOG	Uplink received with expected Data Rate
0:11:15.363866	LOG	Send Test Command TxFramesCtrlReq process starts
0:11:20.242012	LOG	First uplink received. Open reception window.
0:11:20.357930	LOG	PUSH_ACK: 02 1638 01

0:11:20.359469	LOG	GPS Time from gateway: 1385116728827
0:11:20.361473	LOG	PUSH_DATA: Protocol version = 02, Token = 1638, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2592972186, 'time': '2023-11-27T10:38:29.827331Z', 'tmms': 1385116728827, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3320, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAywYCEnXRmJXMXlMt+lk='}]}
0:11:20.363474	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06cb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 532dfa59)
0:11:20.364477	LOG	Server <-------------------- DUT
0:11:20.366480	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03b4, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 2f1d6c4d)
0:11:20.368479	LOG	Frame command sent to the DUT
0:11:20.369511	LOG	PULL_RESP: Protocol version = 02, Token = ebf1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2593972186, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAtAPg/xnswiU1aE/DcC6viseK5PTtH6vBrgxGF+r+RkVvyNjP/Ng1VCFx26jllcPXWAxru0TbcAyY6peaBVNC9DoiginEkBcr6Ka6pT0JtIZI8OpAk5SREhz5nTA4fuZNvnL4weQL6fAxKMS6wrUKcCzejX51/km/0OnEiy4V4/TJSZQqPthIUrJaaAV4mWivAZkF/1tv0NSBKAPHl/ovJAM92z5/ni8lNNUsWlz6n4IpxpCwW9sYW9fjCiKefxrECR9+XPKfcwOMRHNPVmP4YnUvhIkCPl3scIgkIGnWd0G33CfqHF8ypL0lEIpg85DbIUyZXI8vHWxN'}}
0:11:20.370512	LOG	Server --------------------> DUT
0:11:20.373478	LOG	Send Test Command TxFramesCtrlReq process completed
0:11:20.376513	LOG	Check previous uplink data rate process starts
0:11:20.381606	LOG	Uplink received with expected Data Rate
0:11:20.386634	LOG	Step 14-15
0:11:20.389608	LOG	Send Test Command RxAppCntReq process starts
0:11:24.991887	LOG	GPS Time updated: 1385116733576
0:11:24.992886	LOG	PULL_DATA: 02 3138 02 0016c001ff1025bf
0:11:24.994579	LOG	PULL_ACK: 02 3138 04
0:11:25.237253	LOG	First uplink received. Open reception window.
0:11:25.349773	LOG	PUSH_ACK: 02 8095 01
0:11:25.351779	LOG	GPS Time from gateway: 1385116733827
0:11:25.352779	LOG	PUSH_DATA: Protocol version = 02, Token = 8095, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2597971924, 'time': '2023-11-27T10:38:34.827068Z', 'tmms': 1385116733827, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3320, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAzAYClBNkA0rPhvgiAN8='}]}
0:11:25.353810	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06cc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f82200df)
0:11:25.355777	LOG	Server <-------------------- DUT
0:11:25.357777	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03b5, FOpts:), FPort: e0, FRMPayload: 09), MIC: 3a185d51)
0:11:25.358777	LOG	Frame command sent to the DUT
0:11:25.359776	LOG	PULL_RESP: Protocol version = 02, Token = 9bc2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2598971924, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAtQPgaToYXVE='}}

0:11:25.361776	LOG	Server ----------> DUT
0:11:25.365284	LOG	TX_ACK: 02 9bc2 05 0016c001ff1025bf
0:11:26.435872	LOG	First uplink received. Open reception window.
0:11:26.538375	LOG	PUSH_ACK: 02 f183 01
0:11:26.540088	LOG	GPS Time from gateway: 1385116735024
0:11:26.541854	LOG	PUSH_DATA: Protocol version = 02, Token = f183, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2599169616, 'time': '2023-11-27T10:38:36.024759Z', 'tmms': 1385116735024, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3320, 'rssi': -52, 'size': 16, 'data': 'QAAAAACAzQbglzkiCU/Zdg==\'}]}
0:11:26.543175	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06cd, FOpts:), FPort: e0, FRMPayload: 095102, MIC: 094fd976)
0:11:26.545094	LOG	Server <---------- DUT
0:11:26.546033	LOG	Frame Command Payload in the Answer: 095102
0:11:26.550820	LOG	RX Count received by DUT: 593
0:11:26.553369	LOG	Send Test Command RxAppCntReq process completed
0:11:26.562833	LOG	End Test Step: Test packet error rate for SF8BW125 using RX1 window
0:11:26.569863	LOG	Partial Verdict: PASS
0:11:26.575863	LOG	==========
0:11:26.581191	LOG	==========
0:11:26.583456	LOG	Start Test Step: Test packet error rate for SF9BW125 using RX1 window
0:11:26.595250	LOG	Step 10-11
0:11:26.598810	LOG	Send LinkADRReq process starts
0:11:30.234351	LOG	First uplink received. Open reception window.
0:11:30.345406	LOG	PUSH_ACK: 02 d1ee 01
0:11:30.347404	LOG	GPS Time from gateway: 1385116738826
0:11:30.348791	LOG	PUSH_DATA: Protocol version = 02, Token = d1ee, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2602971655, 'time': '2023-11-27T10:38:39.826797Z', 'tmms': 1385116738826, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3316, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAzgYCYv89w6dxYgm4k7s=\'}]}
0:11:30.350792	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06ce, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 09b893bb)
0:11:30.351790	LOG	Server <---------- DUT
0:11:30.353759	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03b6, FOpts:), FPort: 00, FRMPayload: 0330070001), MIC: d7697a7b)
0:11:30.355800	LOG	PULL_RESP: Protocol version = 02, Token = 20e0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2604971655, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAtgMA/lri5HXXaXp7'}}
0:11:30.356831	LOG	Server ----------> DUT
0:11:30.359853	LOG	TX_ACK: 02 20e0 05 0016c001ff1025bf
0:11:35.181759	LOG	GPS Time updated: 1385116743773
0:11:35.182794	LOG	PULL_DATA: 02 1c09 02 0016c001ff1025bf
0:11:35.184761	LOG	PULL_ACK: 02 1c09 04
0:11:35.341111	LOG	First uplink received. Open reception window.
0:11:35.455932	LOG	PUSH_ACK: 02 c31e 01
0:11:35.457938	LOG	GPS Time from gateway: 1385116743929
0:11:35.459940	LOG	PUSH_DATA: Protocol version = 02, Token = c31e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2608074410, 'time': '2023-11-27T10:38:44.929553Z', 'tmms': 1385116743929, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3320, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCzwYDBwIUyzpU8e7fYL+ozQ==\'}]}
0:11:35.461320	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 06cf, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 60bfa8cd)
0:11:35.462558	LOG	Server <---------- DUT

0:11:35.464741	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:11:35.466302	LOG	Command Answer: 0307
0:11:35.473866	LOG	MAC command communication completed
0:11:35.479760	LOG	Send RXParamSetupReq process starts
0:11:40.319813	LOG	First uplink received. Open reception window.
0:11:40.421993	LOG	PUSH_ACK: 02 79e0 01
0:11:40.423995	LOG	GPS Time from gateway: 1385116748908
0:11:40.425962	LOG	PUSH_DATA: Protocol version = 02, Token = 79e0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2613053572, 'time': '2023-11-27T10:38:49.908714Z', 'tmms': 1385116748908, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3314, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA0AYCLesT9NkVhashDP8='}]}
0:11:40.426968	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06d0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ab210cff)
0:11:40.428966	LOG	Server <---------- DUT
0:11:40.430966	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03b7, FOpts:), FPort: 00, FRMPayload: 0500d2ad84), MIC: 075755b8)
0:11:40.431971	LOG	PULL_RESP: Protocol version = 02, Token = f79d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2615053572, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAtwMAnKc8DmMHV1W4'}}
0:11:40.433967	LOG	Server ----------> DUT
0:11:40.437968	LOG	TX_ACK: 02 f79d 05 0016c001ff1025bf
0:11:45.261890	LOG	GPS Time updated: 1385116753849
0:11:45.262889	LOG	PULL_DATA: 02 c032 02 0016c001ff1025bf
0:11:45.264892	LOG	PULL_ACK: 02 c032 04
0:11:45.341281	LOG	First uplink received. Open reception window.
0:11:45.443262	LOG	PUSH_ACK: 02 fbe6 01
0:11:45.445264	LOG	GPS Time from gateway: 1385116753929
0:11:45.447263	LOG	PUSH_DATA: Protocol version = 02, Token = fbe6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2618073905, 'time': '2023-11-27T10:38:54.929046Z', 'tmms': 1385116753929, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3318, 'rssi': -51, 'size': 22, 'data': 'QAAAAACC0QYFBwKw6qmY6eaUC3q9LA=='}]}
0:11:45.448262	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 06d1, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 0b7abd2c)
0:11:45.450262	LOG	Server <---------- DUT
0:11:45.452265	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:11:45.453262	LOG	Command Answer: 0507
0:11:45.466857	LOG	MAC command communication completed
0:11:45.470817	LOG	Step 11-12
0:11:45.482557	LOG	Send Test Command RxAppCntReq process starts
0:11:50.336922	LOG	First uplink received. Open reception window.
0:11:50.445389	LOG	PUSH_ACK: 02 5bfd 01
0:11:50.447382	LOG	GPS Time from gateway: 1385116758928
0:11:50.448358	LOG	PUSH_DATA: Protocol version = 02, Token = 5bfd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2623073645, 'time': '2023-11-27T10:38:59.928785Z', 'tmms': 1385116758928, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3312, 'rssi': -51, 'size': 22, 'data': 'QAAAAACC0gYFBwJz+8Wua8eKurzGYw=='}]}
0:11:50.449390	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 06d2, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: babcc663)
0:11:50.451390	LOG	Server <---------- DUT
0:11:50.452390	LOG	MAC Command RXParamSetupAns received

0:11:50.454357	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03b8, FOpts:), FPort: e0, FRMPayload: 09), MIC: b3b57cca)
0:11:50.456356	LOG	Frame command sent to the DUT
0:11:50.457355	LOG	PULL_RESP: Protocol version = 02, Token = aa4c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2624073645, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAuAPgLrO1fMo='}}
0:11:50.458360	LOG	Server --------------------> DUT
0:11:50.463221	LOG	TX_ACK: 02 aa4c 05 0016c001ff1025bf
0:11:51.669562	LOG	First uplink received. Open reception window.
0:11:51.786346	LOG	PUSH_ACK: 02 8505 01
0:11:51.787851	LOG	GPS Time from gateway: 1385116760262
0:11:51.788862	LOG	PUSH_DATA: Protocol version = 02, Token = 8505, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2624407159, 'time': '2023-11-27T10:39:01.262299Z', 'tmms': 1385116760262, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3310, 'rssi': -51, 'size': 16, 'data': 'QAAAAACA0wbgFokM6mIhXQ=='}]}
0:11:51.790858	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06d3, FOpts:), FPort: e0, FRMPayload: 095202, MIC: ea62215d)
0:11:51.791856	LOG	Server <-------------------- DUT
0:11:51.793856	LOG	Frame Command Payload in the Answer: 095202
0:11:51.797856	LOG	RX Count received by DUT: 594
0:11:51.799858	LOG	Send Test Command RxAppCntReq process completed
0:11:51.803861	LOG	Step 13
0:11:51.807863	LOG	Send Test Command TxFramesCtrlReq process starts
0:11:55.301539	LOG	GPS Time updated: 1385116763894
0:11:55.303507	LOG	PULL_DATA: 02 9670 02 0016c001ff1025bf
0:11:55.304543	LOG	PULL_ACK: 02 9670 04
0:11:55.319115	LOG	First uplink received. Open reception window.
0:11:55.434419	LOG	PUSH_ACK: 02 9a08 01
0:11:55.436388	LOG	GPS Time from gateway: 1385116763907
0:11:55.438389	LOG	PUSH_DATA: Protocol version = 02, Token = 9a08, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2628052794, 'time': '2023-11-27T10:39:04.907933Z', 'tmms': 1385116763907, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3304, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA1AYCtieMDm4nvDWFSNg='}]}
0:11:55.439387	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06d4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 358548d8)
0:11:55.441893	LOG	Server <-------------------- DUT
0:11:55.443900	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03b9, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 755edfe0)
0:11:55.446928	LOG	Frame command sent to the DUT
0:11:55.448899	LOG	PULL_RESP: Protocol version = 02, Token = 2860, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2629052794, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAuQPggpoR+4fE2tzx687F6kyXZxySGC40MIzkWaHmWzXwtBL8kc00xIAZnTDJv5+VV52sH/vUEjRcGQqpUtVqlNkrTIgdW7GbuAbgQXDfJ+Q8pDMnetyUMiyNC87K2BTyJ47RheKeVJYF0FMT7WdhGJSbs+mqHHVe3+A='}}
0:11:55.450902	LOG	Server --------------------> DUT
0:11:55.453901	LOG	Send Test Command TxFramesCtrlReq process completed
0:11:55.456933	LOG	Check previous uplink data rate process starts

0:11:55.461939	LOG	Uplink received with expected Data Rate
0:11:55.464937	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:00.317228	LOG	First uplink received. Open reception window.
0:12:00.418244	LOG	PUSH_ACK: 02 40c9 01
0:12:00.420212	LOG	GPS Time from gateway: 1385116768907
0:12:00.421211	LOG	PUSH_DATA: Protocol version = 02, Token = 40c9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2633052543, 'time': '2023-11-27T10:39:09.907680Z', 'tmms': 1385116768907, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.0, 'foff': -3307, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA1QYCwO4k47HQyswObfA='}]}
0:12:00.422212	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06d5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: cc0e6df0)
0:12:00.424212	LOG	Server <-------------------- DUT
0:12:00.426212	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03ba, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 5442ed8d)
0:12:00.427217	LOG	Frame command sent to the DUT
0:12:00.429217	LOG	PULL_RESP: Protocol version = 02, Token = 86f1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2634052543, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAugPgSv36L5iSlUe6YbwYg7NelH22JVZwl0K9ycGo8sYXw1D1WmPVf0R3D9H8+Se21w841JH3t1DaJSMu94sl1kSnfHqYwD8sZiq7I8+6NWyr8EajnQdJ2J+Eq014SvC6arU3VfrOFZxsMGOhsY3UKXUXfKu4mlRC7Y0='}}
0:12:00.430216	LOG	Server --------------------> DUT
0:12:00.433221	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:00.436251	LOG	Check previous uplink data rate process starts
0:12:00.440217	LOG	Uplink received with expected Data Rate
0:12:00.443726	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:05.320339	LOG	First uplink received. Open reception window.
0:12:05.434101	LOG	PUSH_ACK: 02 e8c0 01
0:12:05.436101	LOG	GPS Time from gateway: 1385116773907
0:12:05.438070	LOG	PUSH_DATA: Protocol version = 02, Token = e8c0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2638052283, 'time': '2023-11-27T10:39:14.907421Z', 'tmms': 1385116773907, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3307, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA1gYCrDod9DG+9fVFAEE='}]}
0:12:05.439069	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06d6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f5450041)
0:12:05.440069	LOG	Server <-------------------- DUT
0:12:05.442577	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03bb, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 090e96d6)
0:12:05.444575	LOG	Frame command sent to the DUT
0:12:05.446610	LOG	PULL_RESP: Protocol version = 02, Token = c270, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2639052283, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAuwPgyr8LAen4Cz5/ldVcImW8MlNx7YiaF3CfuXXGdWxApPC/AsEmYkpAM4vQmljJlQ3mi97oQA/FhHUor7tX3rIuwZWAyRD9VkBRMv0D9zLBidbgLRABC/GYWkk/KX847+6QMTWeWYCl+W3iiwfjqjVt7zyg+QkOltY='}}

0:12:05.447577	LOG	Server --------------------> DUT
0:12:05.450576	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:05.454578	LOG	Check previous uplink data rate process starts
0:12:05.458582	LOG	Uplink received with expected Data Rate
0:12:05.462581	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:10.318415	LOG	First uplink received. Open reception window.
0:12:10.425334	LOG	PUSH_ACK: 02 433c 01
0:12:10.427305	LOG	GPS Time from gateway: 1385116778907
0:12:10.428306	LOG	PUSH_DATA: Protocol version = 02, Token = 433c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2643052023, 'time': '2023-11-27T10:39:19.907160Z', 'tmms': 1385116778907, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.0, 'foff': -3309, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA1wYCa2O1eUmLOrmTOZ4='}]}
0:12:10.430311	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06d7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b993399e)
0:12:10.431311	LOG	Server <-------------------- DUT
0:12:10.433310	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03bc, FOpts:), FPort: e0, FRMPayload: 070001), MIC: f8a27a30)
0:12:10.435316	LOG	Frame command sent to the DUT
0:12:10.436310	LOG	PULL_RESP: Protocol version = 02, Token = 01a6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2644052023, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAvAPgHl+AKM1vDoH5TWklarqslxHvMFrLL236OeszahIH574WAyGrbo5id4G0hwMa9ccV3zkYw7+8Z1uvfTUmCZ5mVs/4ntKHXH0KnPMl00hneafWcRpMHdfSQOp3lVewRc5djU2LMTQAuhEiKi1tknxIQATO6fiiejA='}}
0:12:10.437311	LOG	Server --------------------> DUT
0:12:10.441311	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:10.443820	LOG	Check previous uplink data rate process starts
0:12:10.449818	LOG	Uplink received with expected Data Rate
0:12:10.452818	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:15.314118	LOG	First uplink received. Open reception window.
0:12:15.415639	LOG	PUSH_ACK: 02 1814 01
0:12:15.417641	LOG	GPS Time from gateway: 1385116783906
0:12:15.418640	LOG	PUSH_DATA: Protocol version = 02, Token = 1814, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2648051767, 'time': '2023-11-27T10:39:24.906903Z', 'tmms': 1385116783906, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.0, 'foff': -3309, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA2AYCUesLUYBU7bamviE='}]}
0:12:15.420641	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06d8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b6a6be21)
0:12:15.421641	LOG	Server <-------------------- DUT
0:12:15.423641	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03bd, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 32ce59e7)
0:12:15.425641	LOG	Frame command sent to the DUT
0:12:15.426646	LOG	PULL_RESP: Protocol version = 02, Token = d427, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2649051767, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data':

		'YAAAAAAAvQPgHmA67jQY4MZ2zqzwQvHbUGvtNTEDZblBtBtSL/I4ynSe4diL3FMAhewi/L6i66A9kgGqxnE8nqIPcjtMhESWysOVcGogjnKyLajazmzj5IA6tXcL+bXynBRZkR9WYfr1B9p1//Uo33PbEGliMLGj1mt8ATLOWec='}}
0:12:15.427646	LOG	Server --------------------> DUT
0:12:15.431645	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:15.434657	LOG	Check previous uplink data rate process starts
0:12:15.438646	LOG	Uplink received with expected Data Rate
0:12:15.441226	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:15.642046	LOG	GPS Time updated: 1385116784233
0:12:15.644167	LOG	PULL_DATA: 02 2a34 02 0016c001ff1025bf
0:12:15.645977	LOG	PULL_ACK: 02 2a34 04
0:12:20.314630	LOG	First uplink received. Open reception window.
0:12:20.426827	LOG	PUSH_ACK: 02 1eed 01
0:12:20.428831	LOG	GPS Time from gateway: 1385116788906
0:12:20.429794	LOG	PUSH_DATA: Protocol version = 02, Token = 1eed, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2653051504, 'time': '2023-11-27T10:39:29.906639Z', 'tmms': 1385116788906, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.0, 'foff': -3303, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA2QYCzEY5D9PYHCRvfpg='}]}
0:12:20.430793	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06d9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 246f7e98)
0:12:20.432797	LOG	Server <-------------------- DUT
0:12:20.433797	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03be, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 9c0dd35f)
0:12:20.435797	LOG	Frame command sent to the DUT
0:12:20.436797	LOG	PULL_RESP: Protocol version = 02, Token = 0f39, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2654051504, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAvgPgN1UNiQesCgRWR4K9qKSjAl8Qgxb++DDKWxhjw9ZPNNvvj3DGDB4nHuOlK1kZSuHsKPb6I8wIqiyhxzgfFXzgL6cEQkXFaCZp7gBa66tUPybl0I3Na3WQhDU0PC+pGk4S7hOAv+Scs8ZBI7B3xAwc7Jfk8ZwN018='}}
0:12:20.438797	LOG	Server --------------------> DUT
0:12:20.441302	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:20.445314	LOG	Check previous uplink data rate process starts
0:12:20.450309	LOG	Uplink received with expected Data Rate
0:12:20.453565	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:25.311203	LOG	#****************************CURRENT BEACON SENT****************************#
0:12:25.313203	LOG	PULL_RESP: Protocol version = 02, Token = 8780, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385116800000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACANI9STLUAAAAAAAAAAAA='}}
0:12:25.314211	LOG	Server --------------------> DUT
0:12:25.316203	LOG	#**#
0:12:25.327135	LOG	#****************************NEXT BEACON QUEUED****************************#
0:12:25.328134	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385116928000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAANY9SRF8AAAAAAAAAAAA='}}

0:12:25.329166	LOG	Server --------------------> DUT
0:12:25.331181	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 00358f52, CRC1: 445f, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385116928000
0:12:25.332165	LOG	#**#
0:12:25.333202	LOG	Next BEACON scheduled at GPS time (ms): 1385117056000
0:12:25.335202	LOG	First uplink received. Open reception window.
0:12:25.336202	LOG	TX_ACK: 02 8780 05 0016c001ff1025bf
0:12:25.445427	LOG	PUSH_ACK: 02 5397 01
0:12:25.447427	LOG	GPS Time from gateway: 1385116793906
0:12:25.449461	LOG	PUSH_DATA: Protocol version = 02, Token = 5397, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2658051243, 'time': '2023-11-27T10:39:34.906377Z', 'tmms': 1385116793906, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3304, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA2gYCbPe4C5lhtd2wWpk='}]}
0:12:25.450466	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06da, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ddb05a99)
0:12:25.452459	LOG	Server <-------------------- DUT
0:12:25.453459	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03bf, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 329b1e11)
0:12:25.455459	LOG	Frame command sent to the DUT
0:12:25.456458	LOG	PULL_RESP: Protocol version = 02, Token = 5657, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2659051243, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAvwPgoZvq3Dp0fz7CDyBOWC0Zi1Y/62GAnVrsF4arLZStwEJaQcNsa1WzTDMq+xGYLZAkiLqi/qCs4eU6GqUWKP5SaXGkxLUs4WhMSwgosuSNQAlkORRhsaI194L6QfTxf0Mjhro1iCFiPdFc+jp9SBykdTtnIzKbHhE='}}
0:12:25.458497	LOG	Server --------------------> DUT
0:12:25.461481	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:25.464465	LOG	Check previous uplink data rate process starts
0:12:25.468501	LOG	Uplink received with expected Data Rate
0:12:25.471495	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:25.661829	LOG	GPS Time updated: 1385116794231
0:12:25.662872	LOG	PULL_DATA: 02 cd13 02 0016c001ff1025bf
0:12:25.664556	LOG	PULL_ACK: 02 cd13 04
0:12:30.319432	LOG	First uplink received. Open reception window.
0:12:30.434304	LOG	PUSH_ACK: 02 f925 01
0:12:30.436304	LOG	GPS Time from gateway: 1385116798906
0:12:30.437273	LOG	PUSH_DATA: Protocol version = 02, Token = f925, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2663050995, 'time': '2023-11-27T10:39:39.906127Z', 'tmms': 1385116798906, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3299, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA2wYCyqE74BHDX7I4EUs='}]}
0:12:30.439273	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06db, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b238114b)
0:12:30.440270	LOG	Server <-------------------- DUT
0:12:30.441774	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03c0, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101

		0101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101), MIC: 1fcd6f71)
0:12:30.443779	LOG	Frame command sent to the DUT
0:12:30.445794	LOG	PULL_RESP: Protocol version = 02, Token = ddfb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2664050995, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAwAPgzTSkIExISAt1hErm+xMjqAe1diAmrOp67NUHOZCofRrCqeT/0jDYg2LC8aR7yj/QrhczZ0EmZVI2VPXLRYsLtzDD0JGS8vDIOZu3/0/PlZAeg5UUNjB5nhrPwL2Jmp3B3VVHfDVg5G7Yi12zZrELl7dYrB/Nb3E='}}
0:12:30.447779	LOG	Server --------------------> DUT
0:12:30.450779	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:30.453779	LOG	Check previous uplink data rate process starts
0:12:30.458701	LOG	Uplink received with expected Data Rate
0:12:30.461965	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:35.316872	LOG	First uplink received. Open reception window.
0:12:35.430788	LOG	PUSH_ACK: 02 c67e 01
0:12:35.432789	LOG	GPS Time from gateway: 1385116803905
0:12:35.433788	LOG	PUSH_DATA: Protocol version = 02, Token = c67e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2668050739, 'time': '2023-11-27T10:39:44.905872Z', 'tmms': 1385116803905, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.2, 'foff': -3303, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA3AYCmmuFzHU4e5wZmxo='}]}
0:12:35.435794	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06dc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9c199b1a)
0:12:35.436793	LOG	Server <-------------------- DUT
0:12:35.438794	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03c1, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101), MIC: cbd88246)
0:12:35.439793	LOG	Frame command sent to the DUT
0:12:35.442304	LOG	PULL_RESP: Protocol version = 02, Token = 087e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2669050739, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAwQPgDDmRJqGP/cfuSxIbnXXZsGDqEvmj/0bha6GApZEwlGRgwdI+PK3UiDq4CPMrsUZ91c6VNx3soB19H4eW9A6NBrUC/HQFvEL/7ShmNvauASqflaCn1LZApra/4qO7xP7M0X1VJnFN2mjgEAP97xAOcAW3K8vYgkY='}}
0:12:35.443303	LOG	Server --------------------> DUT
0:12:35.447304	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:35.450317	LOG	Check previous uplink data rate process starts
0:12:35.454306	LOG	Uplink received with expected Data Rate
0:12:35.458311	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:35.861786	LOG	GPS Time updated: 1385116804450
0:12:35.864846	LOG	PULL_DATA: 02 2a5c 02 0016c001ff1025bf
0:12:35.867841	LOG	PULL_ACK: 02 2a5c 04
0:12:40.315318	LOG	Multiple frames received. Selecting the correct frame...
0:12:40.316820	LOG	Frame selected: {'jver': 1, 'tmst': 2673050503, 'time': '2023-11-27T10:39:49.905635Z', 'tmms': 1385116808905, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.0, 'foff': -3308, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA3QYC8KRHhrUZpwZqwD0='}
0:12:40.318826	LOG	First uplink received. Open reception window.
0:12:40.429008	LOG	PUSH_ACK: 02 eec4 01
0:12:40.431010	LOG	GPS Time from gateway: 1385116808905

0:12:40.432010	LOG	PUSH_DATA: Protocol version = 02, Token = eec4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2673050490, 'time': '2023-11-27T10:39:49.905622Z', 'tmms': 1385116808905, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -111, 'lsnr': -8.0, 'foff': 21694, 'rssi': -104, 'size': 20, 'data': 'QAAAAACA3QYC8KRHhrUZpwZqwD0='}, {'jver': 1, 'tmst': 2673050503, 'time': '2023-11-27T10:39:49.905635Z', 'tmms': 1385116808905, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.0, 'foff': -3308, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA3QYC8KRHhrUZpwZqwD0='}]}
0:12:40.434010	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06dd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 066ac03d)
0:12:40.435515	LOG	Server <-------------------- DUT
0:12:40.437520	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03c2, FOpts:), FPort: e0, FRMPayload: 070001), MIC: da3e6cea)
0:12:40.438520	LOG	Frame command sent to the DUT
0:12:40.440520	LOG	PULL_RESP: Protocol version = 02, Token = 8feb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2674050503, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAwgPgePuRnJahlF0PXiyJwHGyplm/SsDN2qwNQJq9JEI+ZzFKTzt6rSOmKkgXaUGXMIw4PlL0arnv5Y26YFV2l9e8+Z8RiW1R8eMJQh+Mwx+r3LEJsy9Y81q2bCf2Tb8rluZeYaRC3pjHi+qNBGXV46t8y+StuNo+bOo='}}
0:12:40.442023	LOG	Server --------------------> DUT
0:12:40.445031	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:40.448029	LOG	Check previous uplink data rate process starts
0:12:40.453027	LOG	Uplink received with expected Data Rate
0:12:40.456062	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:45.310644	LOG	First uplink received. Open reception window.
0:12:45.424514	LOG	PUSH_ACK: 02 6486 01
0:12:45.426484	LOG	GPS Time from gateway: 1385116813905
0:12:45.427484	LOG	PUSH_DATA: Protocol version = 02, Token = 6486, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2678050253, 'time': '2023-11-27T10:39:54.905384Z', 'tmms': 1385116813905, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.0, 'foff': -3309, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA3gYCjsAvVVZOjBHxSKo='}]}
0:12:45.429484	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06de, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 11f148aa)
0:12:45.430484	LOG	Server <-------------------- DUT
0:12:45.432484	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03c3, FOpts:), FPort: e0, FRMPayload: 070001), MIC: da78c742)
0:12:45.433484	LOG	Frame command sent to the DUT
0:12:45.435484	LOG	PULL_RESP: Protocol version = 02, Token = 2b36, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2679050253, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAwwPgtX+4LwIkFP+xPb0aMpVQ+ognXmJMsdOUMxLKS2HMjyw/WIXiulogiernSM6jc5JQWH+iPLUNhZu7TNl91aQhKtwoAqiZ4ViKSj2D/VOcIQOzZUumo+8isdbpttmIWi85VaFdl6agt90pg0uecGbpxomeMNp4x0I='}}
0:12:45.436484	LOG	Server --------------------> DUT

0:12:45.439485	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:45.442509	LOG	Check previous uplink data rate process starts
0:12:45.448512	LOG	Uplink received with expected Data Rate
0:12:45.452525	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:46.061308	LOG	GPS Time updated: 1385116814656
0:12:46.062275	LOG	PULL_DATA: 02 74a4 02 0016c001ff1025bf
0:12:46.064279	LOG	PULL_ACK: 02 74a4 04
0:12:50.316879	LOG	First uplink received. Open reception window.
0:12:50.424765	LOG	PUSH_ACK: 02 505d 01
0:12:50.426802	LOG	GPS Time from gateway: 1385116818905
0:12:50.427802	LOG	PUSH_DATA: Protocol version = 02, Token = 505d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2683050018, 'time': '2023-11-27T10:39:59.905148Z', 'tmms': 1385116818905, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.0, 'foff': -3311, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA3wYCv/ZQqPuKiY+FPw0='}]}
0:12:50.428801	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06df, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8f853f0d)
0:12:50.430768	LOG	Server <-------------------- DUT
0:12:50.432803	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03c4, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 037806b8)
0:12:50.433770	LOG	Frame command sent to the DUT
0:12:50.435768	LOG	PULL_RESP: Protocol version = 02, Token = 0514, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2684050018, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAxAPgegB10G0ZGZNQN0knxdeZ37luZqccsg4pJYAbuBWoLQkMaeUZtiU3CENiM/aRuRm22Nq2QERlTS60qoI6ad8mNJ4Xksllv7BMLWuKk5ZXKjGm8X9mPZXEv6Nv+lb719IVMZrjFiYbGNBtNTmNEPXOPW/sqAN4Brg='}}
0:12:50.436768	LOG	Server --------------------> DUT
0:12:50.439769	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:50.443316	LOG	Check previous uplink data rate process starts
0:12:50.448828	LOG	Uplink received with expected Data Rate
0:12:50.452828	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:55.319445	LOG	First uplink received. Open reception window.
0:12:55.431214	LOG	PUSH_ACK: 02 64ae 01
0:12:55.433172	LOG	GPS Time from gateway: 1385116823904
0:12:55.434202	LOG	PUSH_DATA: Protocol version = 02, Token = 64ae, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2688049766, 'time': '2023-11-27T10:40:04.904894Z', 'tmms': 1385116823904, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.0, 'foff': -3311, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA4AYC2m/2yI12l7yb3RA='}]}
0:12:55.436231	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06e0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: bc9bdd10)
0:12:55.437206	LOG	Server <-------------------- DUT
0:12:55.439211	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03c5, FOpts:), FPort: e0, FRMPayload: 070001), MIC: d2ce523f)
0:12:55.440205	LOG	Frame command sent to the DUT
0:12:55.441744	LOG	PULL_RESP: Protocol version = 02, Token = 7139, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2689049766, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF9BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAxQPgRRCzpVUTa447yPSNtUQvrirTJBh7N9ivYr4KCQu1/YwIR2YD8RZUsY2+1xrgOzK575tGzBvDVAyVauCI71gY4VSFYNXMn8DEbX4rkXfsW+IF8S12uhAVYJOQlowctNzklvwJIA3Iu5kH+UQiK/D/ojHGr9LOUj8='}}
0:12:55.443749	LOG	Server --------------------> DUT
0:12:55.446753	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:55.449784	LOG	Check previous uplink data rate process starts
0:12:55.454253	LOG	Uplink received with expected Data Rate
0:12:55.457293	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:56.071000	LOG	GPS Time updated: 1385116824656
0:12:56.073004	LOG	PULL_DATA: 02 37a8 02 0016c001ff1025bf
0:12:56.074968	LOG	PULL_ACK: 02 37a8 04
0:13:00.317445	LOG	First uplink received. Open reception window.
0:13:00.423041	LOG	PUSH_ACK: 02 bc14 01
0:13:00.425007	LOG	GPS Time from gateway: 1385116828904
0:13:00.426007	LOG	PUSH_DATA: Protocol version = 02, Token = bc14, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2693049537, 'time': '2023-11-27T10:40:09.904666Z', 'tmms': 1385116828904, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.0, 'foff': -3314, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA4QYC/TRclL17Trgs1yk='}]}
0:13:00.428016	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06e1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b82cd729)
0:13:00.429016	LOG	Server <-------------------- DUT
0:13:00.431017	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03c6, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 49dc7c92)
0:13:00.433016	LOG	Frame command sent to the DUT
0:13:00.434016	LOG	PULL_RESP: Protocol version = 02, Token = a5d0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2694049537, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAxgPgQviqULU+N2dArOcBFhR9y4Rb1YQbWJRncC7o02L5okixc4PkWbu0KWSnjMjPL8nH+Cqv4C2+eCIMlV9KCZyXAMoh+DFKqWGpMT0UoeODiJT+ZoDIVD2JfgmG+WN7ulX4VETzmp9Zw692UmE4PpDjoUn9cUncfJI='}}
0:13:00.435016	LOG	Server --------------------> DUT
0:13:00.439018	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:00.441519	LOG	Check previous uplink data rate process starts
0:13:00.446568	LOG	Uplink received with expected Data Rate
0:13:00.450568	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:05.314223	LOG	First uplink received. Open reception window.
0:13:05.422792	LOG	PUSH_ACK: 02 84da 01
0:13:05.424759	LOG	GPS Time from gateway: 1385116833904
0:13:05.425760	LOG	PUSH_DATA: Protocol version = 02, Token = 84da, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2698049272, 'time': '2023-11-27T10:40:14.904400Z', 'tmms': 1385116833904, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.2, 'foff': -3314, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA4gYCkAz6QKNO06fU/vM='}]}
0:13:05.427778	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06e2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a7d4fef3)
0:13:05.428778	LOG	Server <-------------------- DUT
0:13:05.430778	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03c7, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010

		10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101), MIC: 7d1bc43c)
0:13:05.432811	LOG	Frame command sent to the DUT
0:13:05.433808	LOG	PULL_RESP: Protocol version = 02, Token = e9a3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2699049272, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAxwPg7uoS2VgbyNITcwyMjdFD2TFlbSThvxuw0VfyzJ+V1JLa3cRBfu9Mpjd5m4aNg9RhtV8U870ZRNgSr3jo/0d2K9HdfEF0Ip6EfPQfp06G36lBuzSJdgI2PbF2LxyW8CJTbRD6Ktsd86H/pj1Ks9WfFbE4/X0bxDw='}}
0:13:05.434811	LOG	Server --------------------> DUT
0:13:05.437828	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:05.441284	LOG	Check previous uplink data rate process starts
0:13:05.446296	LOG	Uplink received with expected Data Rate
0:13:05.450335	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:06.273552	LOG	GPS Time updated: 1385116834863
0:13:06.274551	LOG	PULL_DATA: 02 02d7 02 0016c001ff1025bf
0:13:06.276554	LOG	PULL_ACK: 02 02d7 04
0:13:10.317532	LOG	First uplink received. Open reception window.
0:13:10.428406	LOG	PUSH_ACK: 02 72cf 01
0:13:10.430407	LOG	GPS Time from gateway: 1385116838904
0:13:10.431409	LOG	PUSH_DATA: Protocol version = 02, Token = 72cf, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2703049022, 'time': '2023-11-27T10:40:19.904149Z', 'tmms': 1385116838904, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.8, 'foff': -3314, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA4wYCPGYv+unWD5x/W5Y='}]}
0:13:10.433433	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06e3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9c7f5b96)
0:13:10.434407	LOG	Server <-------------------- DUT
0:13:10.436409	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03c8, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101), MIC: 3a85adee)
0:13:10.438407	LOG	Frame command sent to the DUT
0:13:10.439407	LOG	PULL_RESP: Protocol version = 02, Token = 3fea, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2704049022, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAyAPgbDDPs6bl3RHE0NqINx2R5QstafkcNlcAQRHFxgPBrUfpp+NZt1y+NDfx5yFOMQ7chIirJkL45nJxR0yHuTX+Yl2OZcpOKYR4zNlNUjKG4K0+88K7R8xnuydjjpHrHNV5K2glxyaq8XPYgTC7HGzEmvnO4jqFre4='}}
0:13:10.440407	LOG	Server --------------------> DUT
0:13:10.443915	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:10.447915	LOG	Check previous uplink data rate process starts
0:13:10.451914	LOG	Uplink received with expected Data Rate
0:13:10.454918	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:15.316499	LOG	First uplink received. Open reception window.
0:13:15.426358	LOG	PUSH_ACK: 02 ea3b 01
0:13:15.428397	LOG	GPS Time from gateway: 1385116843903
0:13:15.429364	LOG	PUSH_DATA: Protocol version = 02, Token = ea3b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2708048780, 'time': '2023-11-27T10:40:24.903906Z', 'tmms': 1385116843903, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.0, 'foff': -3312, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA5AYCggC8RiG8th03amc='}]}

0:13:15.431412	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06e4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1d376a67)
0:13:15.432400	LOG	Server <-------------------- DUT
0:13:15.434364	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03c9, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 32bb631c)
0:13:15.436364	LOG	Frame command sent to the DUT
0:13:15.437396	LOG	PULL_RESP: Protocol version = 02, Token = 15c4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2709048780, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAyQPg+VJkdY60+ifj3etQqXOraVUALslmzcCIdG/B17vYLbxaETAR2EArZTVNZIyk6Zf2GRD6n+5wCtW7pyIDudXRddDs5poJTdOy2bfodNaNo/hLflHQfuWfj61LKM/HOBvi8x5kzhBQiR7NjMkxSc+pgIOtUzK7Yxw='}}
0:13:15.438399	LOG	Server --------------------> DUT
0:13:15.441901	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:15.444906	LOG	Check previous uplink data rate process starts
0:13:15.450907	LOG	Uplink received with expected Data Rate
0:13:15.453942	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:16.281007	LOG	GPS Time updated: 1385116844868
0:13:16.283017	LOG	PULL_DATA: 02 98e3 02 0016c001ff1025bf
0:13:16.285016	LOG	PULL_ACK: 02 98e3 04
0:13:20.313630	LOG	First uplink received. Open reception window.
0:13:20.428570	LOG	PUSH_ACK: 02 605e 01
0:13:20.430570	LOG	GPS Time from gateway: 1385116848903
0:13:20.431571	LOG	PUSH_DATA: Protocol version = 02, Token = 605e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2713048537, 'time': '2023-11-27T10:40:29.903662Z', 'tmms': 1385116848903, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.5, 'foff': -3313, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA5QYC0FpPc7odP5zAdCg='}]}
0:13:20.433537	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06e5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9cc07428)
0:13:20.434575	LOG	Server <-------------------- DUT
0:13:20.436537	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03ca, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 9a0e692d)
0:13:20.438565	LOG	Frame command sent to the DUT
0:13:20.439567	LOG	PULL_RESP: Protocol version = 02, Token = 3b6f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2714048537, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAygPgouFLHxJpPwhrIWwT8ukvpinRKavPsa2H6H3w4FxQ5qWLlV8qIUshdFAeay7ElUVrxU62Fk5Tv6YKpK9+etxAjNTfUeMJUAYslTcPzc2gn8EhBrtGH5gGNHDm9Ava7FRfoyl/bpQ3F6p2EC2f0dbZUUBlU5oOaS0='}}
0:13:20.440568	LOG	Server --------------------> DUT
0:13:20.444124	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:20.447145	LOG	Check previous uplink data rate process starts
0:13:20.452112	LOG	Uplink received with expected Data Rate
0:13:20.455160	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:25.317100	LOG	First uplink received. Open reception window.
0:13:25.432631	LOG	PUSH_ACK: 02 618b 01

0:13:25.434594	LOG	GPS Time from gateway: 1385116853903
0:13:25.435629	LOG	PUSH_DATA: Protocol version = 02, Token = 618b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2718048299, 'time': '2023-11-27T10:40:34.903422Z', 'tmms': 1385116853903, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.2, 'foff': -3314, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA5gYCgY5K1RYMEr2vV/E='}]}
0:13:25.437624	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06e6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: bdaf57f1)
0:13:25.438628	LOG	Server <-------------------- DUT
0:13:25.440635	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03cb, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 1ef94723)
0:13:25.442173	LOG	Frame command sent to the DUT
0:13:25.444212	LOG	PULL_RESP: Protocol version = 02, Token = f862, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2719048299, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAywPgPyQZyH5P8ltOQty+k4DFgE3i5PIY0r1OXp+Eyk11l3bWcy9dX0e9/4cS1JPWvT+0uDc5lQBOjE2nuGs9F0HzcjWkiEDtQEkJIoAw9fRW/FP6oDBsbcicNBKRsO91QZ5gxYtxF3KEfAwYrDRUtEk2/NRaHR75RyM='}}
0:13:25.445210	LOG	Server --------------------> DUT
0:13:25.448186	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:25.451180	LOG	Check previous uplink data rate process starts
0:13:25.456178	LOG	Uplink received with expected Data Rate
0:13:25.459818	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:26.491254	LOG	GPS Time updated: 1385116855078
0:13:26.492254	LOG	PULL_DATA: 02 ba50 02 0016c001ff1025bf
0:13:26.494257	LOG	PULL_ACK: 02 ba50 04
0:13:30.317523	LOG	First uplink received. Open reception window.
0:13:30.424991	LOG	PUSH_ACK: 02 d6c4 01
0:13:30.427032	LOG	GPS Time from gateway: 1385116858903
0:13:30.428030	LOG	PUSH_DATA: Protocol version = 02, Token = d6c4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2723048047, 'time': '2023-11-27T10:40:39.903171Z', 'tmms': 1385116858903, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.0, 'foff': -3312, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA5wYCV5mwPZa8OWirYWQ='}]}
0:13:30.429997	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06e7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 68ab6164)
0:13:30.430997	LOG	Server <-------------------- DUT
0:13:30.432996	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03cc, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 239ce5f4)
0:13:30.434999	LOG	Frame command sent to the DUT
0:13:30.436030	LOG	PULL_RESP: Protocol version = 02, Token = e1e8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2724048047, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAzAPgglUZyDALvF58FA+BN4V/vGp980//haIOjqGs3U+aU3WPuFHDxJHYwBI7pqGX9cZDkQDvz+8nrerophFFYn1EXmgRQoTzBApy2nYWkcy/UkRgxAmsZLZ8lcnLgi6NJZHBhmxMK9jVQ8tPgfeKBX5U2b8bziOc5fQ='}}
0:13:30.437030	LOG	Server --------------------> DUT

0:13:30.440032	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:30.443550	LOG	Check previous uplink data rate process starts
0:13:30.449549	LOG	Uplink received with expected Data Rate
0:13:30.452583	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:35.313533	LOG	First uplink received. Open reception window.
0:13:35.428147	LOG	PUSH_ACK: 02 c326 01
0:13:35.430115	LOG	GPS Time from gateway: 1385116863902
0:13:35.431120	LOG	PUSH_DATA: Protocol version = 02, Token = c326, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2728047812, 'time': '2023-11-27T10:40:44.902935Z', 'tmms': 1385116863902, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.0, 'foff': -3314, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA6AYC/eCkNIDeAf4Z4js='}]}
0:13:35.433120	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06e8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fe19e23b)
0:13:35.434120	LOG	Server <-------------------- DUT
0:13:35.436121	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03cd, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101), MIC: cfcf87ad)
0:13:35.438120	LOG	Frame command sent to the DUT
0:13:35.439120	LOG	PULL_RESP: Protocol version = 02, Token = 1ef4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2729047812, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAzQPgrHw3BZCOqeR75TT1LxSDZajchM9l/lxMiwEJtwM8CauOFt LKS8FBJiS7XzruT+aIyptt+W35jM4iM4QqeYapLdhL+MTrmK+hdXQkpZl1Vyo2 IRwNVJACeC9HRgflrJJl3JvJKjGdI/30WkE/kWoaOtwUgc/Ph60='}}
0:13:35.440120	LOG	Server --------------------> DUT
0:13:35.443632	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:35.447631	LOG	Check previous uplink data rate process starts
0:13:35.451628	LOG	Uplink received with expected Data Rate
0:13:35.454661	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:36.701166	LOG	GPS Time updated: 1385116865290
0:13:36.702168	LOG	PULL_DATA: 02 2128 02 0016c001ff1025bf
0:13:36.704137	LOG	PULL_ACK: 02 2128 04
0:13:40.312932	LOG	First uplink received. Open reception window.
0:13:40.427020	LOG	PUSH_ACK: 02 d558 01
0:13:40.428988	LOG	GPS Time from gateway: 1385116868902
0:13:40.429988	LOG	PUSH_DATA: Protocol version = 02, Token = d558, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2733047553, 'time': '2023-11-27T10:40:49.902675Z', 'tmms': 1385116868902, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.8, 'foff': -3313, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA6QYChFMKN9sf43mMJl4='}]}
0:13:40.430993	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06e9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 798c265e)
0:13:40.433000	LOG	Server <-------------------- DUT
0:13:40.434993	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03ce, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101), MIC: 280a9f24)
0:13:40.435992	LOG	Frame command sent to the DUT
0:13:40.437993	LOG	PULL_RESP: Protocol version = 02, Token = 5ecc, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2734047553, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF9BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAzgPgCCS/WJNAcuMOz+37jj5KBhAukJWs+aDj44wyebTHgZ6L69I4Zb8EcPzu4QZNTDbOUC401EfQvFUfTT4LA4xweW+0riT+GmbBZlfYieHJv/Qbf2tMp7CtpN77ijogPbmoEpAKQ9ygHuAfLpSEVagETJsuJygKnyQ='}}
0:13:40.438992	LOG	Server --------------------> DUT
0:13:40.441497	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:40.445505	LOG	Check previous uplink data rate process starts
0:13:40.450509	LOG	Uplink received with expected Data Rate
0:13:40.453815	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:45.308283	LOG	First uplink received. Open reception window.
0:13:45.420017	LOG	PUSH_ACK: 02 d0bf 01
0:13:45.422018	LOG	GPS Time from gateway: 1385116873902
0:13:45.422984	LOG	PUSH_DATA: Protocol version = 02, Token = d0bf, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2738047298, 'time': '2023-11-27T10:40:54.902419Z', 'tmms': 1385116873902, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.5, 'foff': -3314, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA6gYC98qYVZyQ9I66TDY='}]}
0:13:45.425017	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06ea, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8eba4c36)
0:13:45.425993	LOG	Server <-------------------- DUT
0:13:45.428030	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03cf, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 24398384)
0:13:45.430048	LOG	Frame command sent to the DUT
0:13:45.431031	LOG	PULL_RESP: Protocol version = 02, Token = d3e3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2739047298, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAzwPgthd7+8nLgyrCCeWv4WlUn/dKmOgqmoD9ziwg1vfHlquHqdzAZOarQ3sTn8rlRkJMle83QQ/FYm0aqaPXQQBgNyk+7F5jIutwOKGzXJp58YCl8HNa2XT7Gbi4VoCx4S0xj2VM+tMDhGIj9AwB9qtpqt0yRCQ5g4Q='}}
0:13:45.432032	LOG	Server --------------------> DUT
0:13:45.434997	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:45.437998	LOG	Check previous uplink data rate process starts
0:13:45.442508	LOG	Uplink received with expected Data Rate
0:13:45.447507	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:46.900709	LOG	GPS Time updated: 1385116875494
0:13:46.902676	LOG	PULL_DATA: 02 a78c 02 0016c001ff1025bf
0:13:46.903677	LOG	PULL_ACK: 02 a78c 04
0:13:50.307269	LOG	First uplink received. Open reception window.
0:13:50.409248	LOG	PUSH_ACK: 02 d42b 01
0:13:50.410717	LOG	GPS Time from gateway: 1385116878902
0:13:50.412723	LOG	PUSH_DATA: Protocol version = 02, Token = d42b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2743047037, 'time': '2023-11-27T10:40:59.902157Z', 'tmms': 1385116878902, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.2, 'foff': -3313, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA6wYCi030uQsIavm1r+E='}]}
0:13:50.413723	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06eb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f9b5afe1)
0:13:50.415227	LOG	Server <-------------------- DUT
0:13:50.417234	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03d0, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010

		1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101), MIC: aef72e74)
0:13:50.419233	LOG	Frame command sent to the DUT
0:13:50.420232	LOG	PULL_RESP: Protocol version = 02, Token = 3083, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2744047037, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAA0APgru3UsEshF+WgdybiHW0ZdBJy/5heU0z3CJsVhCSfxG6bFt4Szbr3D36h8WhMpQuW1OY3Du5/4o1Bj/6PwE97+riKCmP5+FWj/FMnOhh0XQdrO31N+ErZESnhiAj8Ydi9CzcM1AVPWkp1b4yhBflaj8o/Dq73LnQ='}}
0:13:50.422233	LOG	Server --------------------> DUT
0:13:50.425236	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:50.428239	LOG	Check previous uplink data rate process starts
0:13:50.432238	LOG	Uplink received with expected Data Rate
0:13:50.436240	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:55.306657	LOG	First uplink received. Open reception window.
0:13:55.410241	LOG	PUSH_ACK: 02 67d6 01
0:13:55.411748	LOG	GPS Time from gateway: 1385116883901
0:13:55.413749	LOG	PUSH_DATA: Protocol version = 02, Token = 67d6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2748046788, 'time': '2023-11-27T10:41:04.901906Z', 'tmms': 1385116883901, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.8, 'foff': -3311, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA7AYCQdpb2uXnMCD2C7c='}]}
0:13:55.414749	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06ec, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 20f60bb7)
0:13:55.415748	LOG	Server <-------------------- DUT
0:13:55.417749	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03d1, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101), MIC: 7e69032c)
0:13:55.418748	LOG	Frame command sent to the DUT
0:13:55.421258	LOG	PULL_RESP: Protocol version = 02, Token = 5e07, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2749046788, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAA0QPg+L5leaYcZizVRvb4zjJn2fSCIiCRk6yg0imrFhphCptAek3yCJPbiEVcXTNN4EjzFdxh/SjIFJMyK4XBEX/ksCvagHku1I1xj2z3UrLyNOhT7/IJ+TBvFxWncsA/wd8T5vLhgdp9yzc5fESNHKpfebs1En5pAyw='}}
0:13:55.422257	LOG	Server --------------------> DUT
0:13:55.425258	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:55.428289	LOG	Check previous uplink data rate process starts
0:13:55.432288	LOG	Uplink received with expected Data Rate
0:13:55.436319	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:57.101108	LOG	GPS Time updated: 1385116885696
0:13:57.102107	LOG	PULL_DATA: 02 02d9 02 0016c001ff1025bf
0:13:57.104078	LOG	PULL_ACK: 02 02d9 04
0:14:00.309408	LOG	First uplink received. Open reception window.
0:14:00.416676	LOG	PUSH_ACK: 02 143d 01
0:14:00.418673	LOG	GPS Time from gateway: 1385116888901
0:14:00.419675	LOG	PUSH_DATA: Protocol version = 02, Token = 143d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2753046558, 'time': '2023-11-27T10:41:09.901677Z', 'tmms': 1385116888901, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.0, 'foff': -3314, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA7QYChsdCL9JqBEuMRhs='}]}

0:14:00.421674	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06ed, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4b8c461b)
0:14:00.422711	LOG	Server <-------------------- DUT
0:14:00.424709	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03d2, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101), MIC: 341b92b4)
0:14:00.425708	LOG	Frame command sent to the DUT
0:14:00.427246	LOG	PULL_RESP: Protocol version = 02, Token = 4adb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2754046558, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAA0gPgR3Yo2uW1t1Oy/5sgJtezhsKBSGZRftPTNlUw0Yi5Sb3ss4Fhc3Ivc22a0sZibrP5SlkKSXzViyp8VuzrOEZJ85jnvakQCspcn+7N1jr8VHVaneISlKshjmHYeeTfWGRPS71AOlHJkfjD6tlStueY/hLHhjQbkrQ='}}
0:14:00.429284	LOG	Server --------------------> DUT
0:14:00.432251	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:00.435254	LOG	Check previous uplink data rate process starts
0:14:00.440251	LOG	Uplink received with expected Data Rate
0:14:00.443617	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:05.315345	LOG	First uplink received. Open reception window.
0:14:05.416898	LOG	PUSH_ACK: 02 cf75 01
0:14:05.418903	LOG	GPS Time from gateway: 1385116893901
0:14:05.419902	LOG	PUSH_DATA: Protocol version = 02, Token = cf75, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2758046329, 'time': '2023-11-27T10:41:14.901447Z', 'tmms': 1385116893901, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.8, 'foff': -3313, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA7gYCwBqUO1LbUV6iVEQ='}]}
0:14:05.421903	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06ee, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5ea25444)
0:14:05.422903	LOG	Server <-------------------- DUT
0:14:05.424903	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03d3, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101), MIC: 8f23759e)
0:14:05.425902	LOG	Frame command sent to the DUT
0:14:05.427903	LOG	PULL_RESP: Protocol version = 02, Token = 844b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2759046329, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAA0wPgi1Z6LAscYq2MtsjRtlZNFs8S+ya4uLWjWFbMYsEdh5AzcS/dcQpi7o5cqCOw+NSTehBmMPZoX3qCs/eVDgXeG1I4478ORVJyl50JgRjasq74tWRpn4belBAK4TFUdcnIFsW7ZxeFwRyx025FCSIayvcZs48jdZ4='}}
0:14:05.428903	LOG	Server --------------------> DUT
0:14:05.432410	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:05.435416	LOG	Check previous uplink data rate process starts
0:14:05.439415	LOG	Uplink received with expected Data Rate
0:14:05.442929	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:07.110499	LOG	GPS Time updated: 1385116895696
0:14:07.112499	LOG	PULL_DATA: 02 9b31 02 0016c001ff1025bf
0:14:07.113499	LOG	PULL_ACK: 02 9b31 04
0:14:10.307173	LOG	First uplink received. Open reception window.
0:14:10.414710	LOG	PUSH_ACK: 02 0056 01

0:14:10.416676	LOG	GPS Time from gateway: 1385116898901
0:14:10.417676	LOG	PUSH_DATA: Protocol version = 02, Token = 0056, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2763046064, 'time': '2023-11-27T10:41:19.901181Z', 'tmms': 1385116898901, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.8, 'foff': -3318, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA7wYCpKxWCazWMA4ExO0='}]}
0:14:10.419676	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06ef, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0e04c4ed)
0:14:10.420676	LOG	Server <-------------------- DUT
0:14:10.422681	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03d4, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 5b7ebca6)
0:14:10.424681	LOG	Frame command sent to the DUT
0:14:10.425680	LOG	PULL_RESP: Protocol version = 02, Token = b237, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2764046064, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAA1APghh3ehkFP2/dnuTvNGTD9ODjVfROUjRrxBr1veI8CJ7c2usI3e0xfV5Tq91/nwo6A8kfVPdtsE1ENyDgByJlTIk+C4RfH2vATVHLUeadG9OVjxaCmhlyh+qgoRNjptTaykBcZZuuUqJvJJXRNCx9XF/XfPlt+vKY='}}
0:14:10.426680	LOG	Server --------------------> DUT
0:14:10.430683	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:10.433692	LOG	Check previous uplink data rate process starts
0:14:10.438259	LOG	Uplink received with expected Data Rate
0:14:10.441260	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:15.310754	LOG	First uplink received. Open reception window.
0:14:15.426806	LOG	PUSH_ACK: 02 814f 01
0:14:15.428807	LOG	GPS Time from gateway: 1385116903900
0:14:15.429775	LOG	PUSH_DATA: Protocol version = 02, Token = 814f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2768045804, 'time': '2023-11-27T10:41:24.900920Z', 'tmms': 1385116903900, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.2, 'foff': -3318, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA8AYCd2vlBFymA0iYrtQ='}]}
0:14:15.431777	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06f0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4898aed4)
0:14:15.432775	LOG	Server <-------------------- DUT
0:14:15.434774	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03d5, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 700ef770)
0:14:15.436806	LOG	Frame command sent to the DUT
0:14:15.437807	LOG	PULL_RESP: Protocol version = 02, Token = 40dc, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2769045804, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAA1QPgYAFEiz7fbvHm2gVgPJc634eMkzgLAfjnR+6kFOw/HSrASVjQJYKUth6uQYPfMrFfUMsoB1W3H9lZlNOvfIXT/bGl3l6XxOBxmLS9+IJTtgnxjT6HhjrjuNxRl7qbUOtmmlMRAFVjPVsvDYhgcRe4TXvrSXAO93A='}}
0:14:15.438807	LOG	Server --------------------> DUT
0:14:15.442355	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:15.445353	LOG	Check previous uplink data rate process starts
0:14:15.450353	LOG	Uplink received with expected Data Rate

0:14:15.454354	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:17.121228	LOG	GPS Time updated: 1385116905710
0:14:17.122228	LOG	PULL_DATA: 02 7557 02 0016c001ff1025bf
0:14:17.124232	LOG	PULL_ACK: 02 7557 04
0:14:20.309864	LOG	First uplink received. Open reception window.
0:14:20.414630	LOG	PUSH_ACK: 02 1338 01
0:14:20.416598	LOG	GPS Time from gateway: 1385116908900
0:14:20.417599	LOG	PUSH_DATA: Protocol version = 02, Token = 1338, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2773045558, 'time': '2023-11-27T10:41:29.900673Z', 'tmms': 1385116908900, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.5, 'foff': -3318, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA8QYCjQyX6EI6VHzEbHs='}]}
0:14:20.419597	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06f1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7cc46c7b)
0:14:20.420597	LOG	Server <-------------------- DUT
0:14:20.422597	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03d6, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 2bd6085e)
0:14:20.424598	LOG	Frame command sent to the DUT
0:14:20.425597	LOG	PULL_RESP: Protocol version = 02, Token = f925, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2774045558, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAA1gPgE8hdxHN7Gm4g0NH5KGr7AV1PGqWx2veUrHWMNMsMghNNZrtqz75OLRo4S6biaAzLpNNQKRL1Cu1ThlTunDLWJkwXrSy4u+X4q9+uBeUzF1kxcqn9ZIcTc7rrV4YvGeWU8szF+J1qs6zoYQ/tzPiO2PKm1ivWCF4='}}
0:14:20.426597	LOG	Server --------------------> DUT
0:14:20.429601	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:20.433601	LOG	Check previous uplink data rate process starts
0:14:20.437618	LOG	Uplink received with expected Data Rate
0:14:20.440601	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:25.314824	LOG	First uplink received. Open reception window.
0:14:25.425599	LOG	PUSH_ACK: 02 7e34 01
0:14:25.427618	LOG	GPS Time from gateway: 1385116913900
0:14:25.428582	LOG	PUSH_DATA: Protocol version = 02, Token = 7e34, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2778045325, 'time': '2023-11-27T10:41:34.900438Z', 'tmms': 1385116913900, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.2, 'foff': -3318, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA8gYCXu9zfcH6sHpWaL4='}]}
0:14:25.430599	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06f2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7a5668be)
0:14:25.431598	LOG	Server <-------------------- DUT
0:14:25.433596	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03d7, FOpts:), FPort: e0, FRMPayload: 070001), MIC: e8c75878)
0:14:25.434600	LOG	Frame command sent to the DUT
0:14:25.436598	LOG	PULL_RESP: Protocol version = 02, Token = 0a18, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2779045325, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAA1wPgee0x1FNH9jnusylKnDTNfEt/n5PuUCneytRPZLUPVrAYrFm

		OAmIBKQ58Z5Raz0r0TlUu28yDMZzJsYCy+bEmL8PIiDgmx1fz0oaxn18m5hvJY+vws5Nl1D9FMyiM2GE8hkJzRWcruh4bRiupE9a+VfmI9ujHWHg='}}
0:14:25.437599	LOG	Server -------------------> DUT
0:14:25.440581	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:25.444078	LOG	Check previous uplink data rate process starts
0:14:25.450077	LOG	Uplink received with expected Data Rate
0:14:25.453655	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:27.330808	LOG	GPS Time updated: 1385116915916
0:14:27.331776	LOG	PULL_DATA: 02 6053 02 0016c001ff1025bf
0:14:27.333780	LOG	PULL_ACK: 02 6053 04
0:14:29.658982	LOG	#***************************CURRENT BEACON SENT***************************#
0:14:29.660948	LOG	PULL_RESP: Protocol version = 02, Token = ea44, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385116928000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAANY9SRF8AAAAAAAAAAAA='}}
0:14:29.661962	LOG	Server -------------------> DUT
0:14:29.663951	LOG	#**#
0:14:29.673948	LOG	#***************************NEXT BEACON QUEUED***************************#
0:14:29.674949	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385117056000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACANY9SfIIAAAAAAAAAAAA='}}
0:14:29.676954	LOG	Server -------------------> DUT
0:14:29.678954	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 80358f52, CRC1: 7c82, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385117056000
0:14:29.679953	LOG	#**#
0:14:29.680953	LOG	Next BEACON scheduled at GPS time (ms): 1385117184000
0:14:29.682954	LOG	TX_ACK: 02 ea44 05 0016c001ff1025bf
0:14:30.311634	LOG	First uplink received. Open reception window.
0:14:30.417922	LOG	PUSH_ACK: 02 1234 01
0:14:30.419922	LOG	GPS Time from gateway: 1385116918900
0:14:30.420889	LOG	PUSH_DATA: Protocol version = 02, Token = 1234, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2783045065, 'time': '2023-11-27T10:41:39.900179Z', 'tmms': 1385116918900, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.0, 'foff': -3318, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA8wYCU2Z9NUaxycQNiMI='}]}
0:14:30.422925	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06f3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c40d88c2)
0:14:30.423923	LOG	Server <------------------- DUT
0:14:30.425952	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03d8, FOpts:), FPort: e0, FRMPayload: 070001), MIC: a390e7e2)
0:14:30.427982	LOG	Frame command sent to the DUT
0:14:30.428992	LOG	PULL_RESP: Protocol version = 02, Token = 3843, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2784045065, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAA2APgBwgdfU/ZRq2Yts5CfLx3SQzYaj6fatDS2HxdFD3RrhcgBTcb

		c4GPJM1wXNJfB3dCUW8Xu0p0qkEYaSHrQHjL7vQe6nCTHgxDWLp268MR9aNxzl9J/SnK1VK6Mw0jlT21zifnpnk1CCm1kqDj3AwoSMqK46OQ5+I='}}
0:14:30.429990	LOG	Server --------------------> DUT
0:14:30.432957	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:30.436959	LOG	Check previous uplink data rate process starts
0:14:30.439989	LOG	Uplink received with expected Data Rate
0:14:30.444500	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:35.313297	LOG	First uplink received. Open reception window.
0:14:35.414787	LOG	PUSH_ACK: 02 bde6 01
0:14:35.416756	LOG	GPS Time from gateway: 1385116923899
0:14:35.417756	LOG	PUSH_DATA: Protocol version = 02, Token = bde6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2788044808, 'time': '2023-11-27T10:41:44.899921Z', 'tmms': 1385116923899, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.5, 'foff': -3318, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA9AYCz6XYN24ZbS1/YNY='}]}
0:14:35.419787	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06f4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2d7f60d6)
0:14:35.420755	LOG	Server <-------------------- DUT
0:14:35.422759	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03d9, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 57e5433a)
0:14:35.424756	LOG	Frame command sent to the DUT
0:14:35.425787	LOG	PULL_RESP: Protocol version = 02, Token = 9bcf, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2789044808, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAA2QPggn0vXbsSH6Bppq6DIE/li7hDlwbUxOGn2EoygdCf2JXHI2hDfQPn7TK+U2WzHZpZMQKumhG/l9J8RDZVViqAG4x+8xX8lDBXQA6mfbmYpc/QhNQb1K9S6kvOTWkxyRn/mBj/5ZikMXzhwgXcLj6ng6CgK1flQzo='}}
0:14:35.426825	LOG	Server --------------------> DUT
0:14:35.429826	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:35.432791	LOG	Check previous uplink data rate process starts
0:14:35.437793	LOG	Uplink received with expected Data Rate
0:14:35.441329	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:37.520821	LOG	GPS Time updated: 1385116926107
0:14:37.521821	LOG	PULL_DATA: 02 5f24 02 0016c001ff1025bf
0:14:37.523729	LOG	PULL_ACK: 02 5f24 04
0:14:40.304299	LOG	First uplink received. Open reception window.
0:14:40.413597	LOG	PUSH_ACK: 02 bc62 01
0:14:40.415563	LOG	GPS Time from gateway: 1385116928899
0:14:40.416562	LOG	PUSH_DATA: Protocol version = 02, Token = bc62, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2793044554, 'time': '2023-11-27T10:41:49.899666Z', 'tmms': 1385116928899, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.5, 'foff': -3320, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA9QYC+8hgULquOeJStrM='}]}
0:14:40.417563	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06f5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e252b6b3)
0:14:40.419564	LOG	Server <-------------------- DUT
0:14:40.421563	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03da, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 51ac8515)

0:14:40.423564	LOG	Frame command sent to the DUT
0:14:40.424562	LOG	PULL_RESP: Protocol version = 02, Token = a3af, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2794044554, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAA2gPgdQn4iUS5dTBTY/yLS2ddqIfeKeGoa3aHH8MEbFK3T6C20aj9+PM97bxa5BuO2JULdcBt799DgUL3mXpuHMGi0EURFnPBCXRwonn5djTZ405FYUwp+vxlCOsaxLQ4VAh2SL68TuQ0brk0oyLPTy9gcX+uVFGshRU='}}
0:14:40.425563	LOG	Server --------------------> DUT
0:14:40.428568	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:40.431567	LOG	Check previous uplink data rate process starts
0:14:40.436566	LOG	Uplink received with expected Data Rate
0:14:40.440168	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:45.304979	LOG	First uplink received. Open reception window.
0:14:45.411746	LOG	PUSH_ACK: 02 fd62 01
0:14:45.413714	LOG	GPS Time from gateway: 1385116933899
0:14:45.414714	LOG	PUSH_DATA: Protocol version = 02, Token = fd62, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2798044329, 'time': '2023-11-27T10:41:54.899440Z', 'tmms': 1385116933899, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.0, 'foff': -3318, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA9gYCK8VYAo3427GrU1Y='}]}
0:14:45.416714	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06f6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b1ab5356)
0:14:45.417713	LOG	Server <-------------------- DUT
0:14:45.419714	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03db, FOpts:), FPort: e0, FRMPayload: 070001), MIC: eafcea88)
0:14:45.421714	LOG	Frame command sent to the DUT
0:14:45.422714	LOG	PULL_RESP: Protocol version = 02, Token = 6fee, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2799044329, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAA2wPghwHOnXpkbPFjQ/GyZrNZJcrQGV0L41e7iqNINPF5+i1AEDj5RD3CCPLc4NN7498zQneAic4vvXoGDO0wTh08EcGDTivafxKA0IKmdK6H3+N0sE6IuBPaOFrpv7t+OTq9OE3UCsseyFdl/KO6ufYMH6EdWOr86og='}}
0:14:45.423714	LOG	Server --------------------> DUT
0:14:45.426740	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:45.430751	LOG	Check previous uplink data rate process starts
0:14:45.434773	LOG	Uplink received with expected Data Rate
0:14:45.438742	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:47.731062	LOG	GPS Time updated: 1385116936326
0:14:47.733416	LOG	PULL_DATA: 02 4e11 02 0016c001ff1025bf
0:14:47.734981	LOG	PULL_ACK: 02 4e11 04
0:14:50.305591	LOG	First uplink received. Open reception window.
0:14:50.421223	LOG	PUSH_ACK: 02 9f1e 01
0:14:50.423187	LOG	GPS Time from gateway: 1385116938899
0:14:50.424187	LOG	PUSH_DATA: Protocol version = 02, Token = 9f1e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2803044096, 'time': '2023-11-27T10:41:59.899206Z', 'tmms': 1385116938899, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.2, 'foff': -3320, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA9wYCeY4iyNVxsNVREbU='}]}
0:14:50.426221	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06f7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d55111b5)
0:14:50.427226	LOG	Server <-------------------- DUT

0:14:50.429260	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03dc, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 0ef4ad5d)
0:14:50.431225	LOG	Frame command sent to the DUT
0:14:50.432261	LOG	PULL_RESP: Protocol version = 02, Token = ec14, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2804044096, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAA3APgANLIphAolDzPboydahlBeUPKLvDvuKJqvTkEyOF3Mqjfaf+qe3Z9trirMWU091CwppYHdukueKk3df1RmUj+0R65As2gAp8Chpzn+vJ/recPcqludauRmjhHG8eQi07yZJEtaNj8C8DvHd6QQR53Yp/pmw70rV0='}}
0:14:50.433259	LOG	Server --------------------> DUT
0:14:50.436229	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:50.439225	LOG	Check previous uplink data rate process starts
0:14:50.442735	LOG	Uplink received with expected Data Rate
0:14:50.446738	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:55.303089	LOG	First uplink received. Open reception window.
0:14:55.414542	LOG	PUSH_ACK: 02 863b 01
0:14:55.416539	LOG	GPS Time from gateway: 1385116943898
0:14:55.417508	LOG	PUSH_DATA: Protocol version = 02, Token = 863b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2808043859, 'time': '2023-11-27T10:42:04.898967Z', 'tmms': 1385116943898, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.0, 'foff': -3322, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA+AYCJrHf9HLeqGnaXGQ='}]}
0:14:55.419509	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06f8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 69da5c64)
0:14:55.420506	LOG	Server <-------------------- DUT
0:14:55.422507	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03dd, FOpts:), FPort: e0, FRMPayload: 070001), MIC: ab70cc21)
0:14:55.424508	LOG	Frame command sent to the DUT
0:14:55.425539	LOG	PULL_RESP: Protocol version = 02, Token = b1ab, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2809043859, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAA3QPgXrtwMufwM11WYxQ9dFoB17Mnz0B8dAD1LqZEzsTCmY2UWlPAT+OTyREIm+mVCb4Lo3ZILO3+tCE4VEh30r6dxvONZ+TRxSUS9+Zpe0b/fejGHAFEDrardvBCsaN/+Sahy/ocuKyx4Shuxs75SQ7KVVqiQqtwzCE='}}
0:14:55.426543	LOG	Server --------------------> DUT
0:14:55.429549	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:55.432547	LOG	Check previous uplink data rate process starts
0:14:55.437576	LOG	Uplink received with expected Data Rate
0:14:55.440547	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:57.940734	LOG	GPS Time updated: 1385116946535
0:14:57.942715	LOG	PULL_DATA: 02 4f86 02 0016c001ff1025bf
0:14:57.944392	LOG	PULL_ACK: 02 4f86 04
0:15:00.307094	LOG	First uplink received. Open reception window.
0:15:00.421424	LOG	PUSH_ACK: 02 d606 01
0:15:00.423459	LOG	GPS Time from gateway: 1385116948898
0:15:00.424444	LOG	PUSH_DATA: Protocol version = 02, Token = d606, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2813043609, 'time': '2023-11-27T10:42:09.898718Z',

		'tmms': 1385116948898, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.0, 'foff': -3320, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA+QYCg2k5Jua7zcq+ibc='}]}
0:15:00.426427	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06f9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: cabe89b7)
0:15:00.427430	LOG	Server <-------------------- DUT
0:15:00.429433	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03de, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 15a260cd)
0:15:00.431455	LOG	Frame command sent to the DUT
0:15:00.432463	LOG	PULL_RESP: Protocol version = 02, Token = 030e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2814043609, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAA3gPgQs1/BEGIyzRK1Fd0z2hldz6o+LLLzVIa8GZLg9133F0Tj2K5e5GqXoBamjal/ksa8bfsiEiydwUb64iqYmWE3koM9459OWAOKbHNx13VQwzS3jC8FjwDvVrWepoXY5AW7uxU16OhO6eepNzuuZbTcQY+3BWiYM0='}}
0:15:00.433465	LOG	Server --------------------> DUT
0:15:00.436434	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:00.439432	LOG	Check previous uplink data rate process starts
0:15:00.444940	LOG	Uplink received with expected Data Rate
0:15:00.448939	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:05.310192	LOG	First uplink received. Open reception window.
0:15:05.425212	LOG	PUSH_ACK: 02 27e9 01
0:15:05.427253	LOG	GPS Time from gateway: 1385116953898
0:15:05.428254	LOG	PUSH_DATA: Protocol version = 02, Token = 27e9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2818043353, 'time': '2023-11-27T10:42:14.898461Z', 'tmms': 1385116953898, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.0, 'foff': -3322, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA+gYCPfNWU3012TCFNQk='}]}
0:15:05.430254	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06fa, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 30853509)
0:15:05.431253	LOG	Server <-------------------- DUT
0:15:05.433254	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03df, FOpts:), FPort: e0, FRMPayload: 070001), MIC: efec20a8)
0:15:05.434253	LOG	Frame command sent to the DUT
0:15:05.436255	LOG	PULL_RESP: Protocol version = 02, Token = cd7f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2819043353, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAA3wPg/i+/uuv81Ra5lxlleabc95aou7HFEF1GybpVbWTKY6XNnWr7RYsbhyOCbdJ1ELyoWXpf7loH8T+PvlYoqpbdCM/xFXA6jzIJ+orhku+hPCv90JnamNI18x5UgMOADkb8wXv45vEyETeqcTQPF5RBnDyObO/sIKg='}}
0:15:05.437220	LOG	Server --------------------> DUT
0:15:05.440240	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:05.443761	LOG	Check previous uplink data rate process starts
0:15:05.448759	LOG	Uplink received with expected Data Rate
0:15:05.452791	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:07.960285	LOG	GPS Time updated: 1385116956548
0:15:07.962285	LOG	PULL_DATA: 02 3ea5 02 0016c001ff1025bf

0:15:07.963464	LOG	PULL_ACK: 02 3ea5 04
0:15:10.308669	LOG	First uplink received. Open reception window.
0:15:10.413096	LOG	PUSH_ACK: 02 1e9f 01
0:15:10.415097	LOG	GPS Time from gateway: 1385116958898
0:15:10.416099	LOG	PUSH_DATA: Protocol version = 02, Token = 1e9f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2823043118, 'time': '2023-11-27T10:42:19.898225Z', 'tmms': 1385116958898, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3322, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA+wYC419jWVp2a9wQ8p4='}]}
0:15:10.417098	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06fb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: dc10f29e)
0:15:10.419098	LOG	Server <-------------------- DUT
0:15:10.421131	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03e0, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101), MIC: 06169175)
0:15:10.422098	LOG	Frame command sent to the DUT
0:15:10.424099	LOG	PULL_RESP: Protocol version = 02, Token = 1c18, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2824043118, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAA4APgWP8X/LZpi+R0u7NzVH5oHzIVRfe4b4+UgcGJFhGWPN8ZxntfgzNiGFBoGuhebcrIU1Jxn6Io+PJbBcwg3awDlyWGy2OTrQrk9AjRmE9pfRW1XatJpaewqMGStoMwudJ8eJeqKaHkSIoOPTcBD9omEQFnIgYWkXU='}}
0:15:10.425097	LOG	Server --------------------> DUT
0:15:10.428100	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:10.431115	LOG	Check previous uplink data rate process starts
0:15:10.436101	LOG	Uplink received with expected Data Rate
0:15:10.439101	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:15.307475	LOG	First uplink received. Open reception window.
0:15:15.418557	LOG	PUSH_ACK: 02 f8aa 01
0:15:15.420557	LOG	GPS Time from gateway: 1385116963897
0:15:15.421559	LOG	PUSH_DATA: Protocol version = 02, Token = f8aa, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2828042864, 'time': '2023-11-27T10:42:24.897970Z', 'tmms': 1385116963897, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.8, 'foff': -3324, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA/AYCUdOCoXB1e/kM1bc='}]}
0:15:15.422558	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06fc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f90cd5b7)
0:15:15.424559	LOG	Server <-------------------- DUT
0:15:15.426562	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03e1, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101), MIC: a7e1fd7d)
0:15:15.427566	LOG	Frame command sent to the DUT
0:15:15.429565	LOG	PULL_RESP: Protocol version = 02, Token = 568d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2829042864, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAA4QPgEHbE4v0bL5XbOMN1NImJOFNDWmL0QmxQyl0F6cFwpeFA3cMQEcyFLROHAoE+hNqrX/GV9qdapgps8wMpcrOG2DgIxxhijW32Jtrv8VWI/nXOq2vYZFVKxzyaaX/Ugbqwcr8jzPco6Fb0kEhz/GUpcrwZuqfh/X0='}}
0:15:15.430565	LOG	Server --------------------> DUT

0:15:15.433567	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:15.436566	LOG	Check previous uplink data rate process starts
0:15:15.441567	LOG	Uplink received with expected Data Rate
0:15:15.445078	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:18.160768	LOG	GPS Time updated: 1385116966749
0:15:18.161768	LOG	PULL_DATA: 02 cf0b 02 0016c001ff1025bf
0:15:18.163770	LOG	PULL_ACK: 02 cf0b 04
0:15:20.306146	LOG	First uplink received. Open reception window.
0:15:20.421468	LOG	PUSH_ACK: 02 de8c 01
0:15:20.423436	LOG	GPS Time from gateway: 1385116968897
0:15:20.424436	LOG	PUSH_DATA: Protocol version = 02, Token = de8c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2833042601, 'time': '2023-11-27T10:42:29.897706Z', 'tmms': 1385116968897, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.8, 'foff': -3327, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA/QYCpron4CrHFRZLN9Q='}]}
0:15:20.426436	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06fd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 164b37d4)
0:15:20.427441	LOG	Server <-------------------- DUT
0:15:20.429441	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03e2, FOpts:), FPort: e0, FRMPayload: 070001), MIC: ad14b827)
0:15:20.431441	LOG	Frame command sent to the DUT
0:15:20.432441	LOG	PULL_RESP: Protocol version = 02, Token = 0475, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2834042601, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAA4gPgaoc+vVy3bXfFv1EH8hdiE5msMQY30Z6zQcwJ+Be0bGJOlOots45czq1ev9GzHdOLCTgD/LWy7+o9GYGrfGIlbk8sZb76JuuET7oy99QaziQv8BV5f1hCFl+GhWvL5MsekjCFpJXSXuyO1AlOU/9a/EmBFK0UuCc='}}
0:15:20.433441	LOG	Server --------------------> DUT
0:15:20.437441	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:20.440460	LOG	Check previous uplink data rate process starts
0:15:20.444958	LOG	Uplink received with expected Data Rate
0:15:20.448951	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:25.303809	LOG	First uplink received. Open reception window.
0:15:25.418788	LOG	PUSH_ACK: 02 f13e 01
0:15:25.420830	LOG	GPS Time from gateway: 1385116973897
0:15:25.421793	LOG	PUSH_DATA: Protocol version = 02, Token = f13e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2838042346, 'time': '2023-11-27T10:42:34.897449Z', 'tmms': 1385116973897, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.0, 'foff': -3328, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA/gYCUP68fs3kySd0BJM='}]}
0:15:25.423793	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06fe, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 27740493)
0:15:25.424826	LOG	Server <-------------------- DUT
0:15:25.426831	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03e3, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 74be1b5f)
0:15:25.428831	LOG	Frame command sent to the DUT
0:15:25.429863	LOG	PULL_RESP: Protocol version = 02, Token = 698b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2839042346, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF9BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAA4wPg3bumKKooupWuEln2ogbAMkfmgrZ0hyJPs80SngEZHBkrLU+Gnt5e29UnCayp4NJIlB5RuXWoAtc4B85RTDWZde84oaIvbqrbTnKkYuAYVti4reKrBPxtgueKuW0su4tYvbj3Fc5Rc/iKkJGBG/E3tBnj1HS+G18='}}
0:15:25.431831	LOG	Server --------------------> DUT
0:15:25.434829	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:25.437865	LOG	Check previous uplink data rate process starts
0:15:25.442333	LOG	Uplink received with expected Data Rate
0:15:25.445371	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:28.369954	LOG	GPS Time updated: 1385116976963
0:15:28.371954	LOG	PULL_DATA: 02 b0ae 02 0016c001ff1025bf
0:15:28.373466	LOG	PULL_ACK: 02 b0ae 04
0:15:30.308125	LOG	First uplink received. Open reception window.
0:15:30.411175	LOG	PUSH_ACK: 02 10ee 01
0:15:30.413180	LOG	GPS Time from gateway: 1385116978897
0:15:30.414213	LOG	PUSH_DATA: Protocol version = 02, Token = 10ee, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2843042090, 'time': '2023-11-27T10:42:39.897194Z', 'tmms': 1385116978897, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.5, 'foff': -3329, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA/wYCQmyYVbYkQLjMQkc='}]}
0:15:30.416214	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 06ff, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b8cc4247)
0:15:30.417216	LOG	Server <-------------------- DUT
0:15:30.419181	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03e4, FOpts:), FPort: e0, FRMPayload: 070001), MIC: a3c791cc)
0:15:30.421179	LOG	Frame command sent to the DUT
0:15:30.422179	LOG	PULL_RESP: Protocol version = 02, Token = d775, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2844042090, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAA5APgepKVwTl0J2TPNxKkd983x0M3v6cOo+nWRHMBt0gH/2853xsZgtllOey1+iG2aMpWSyJsVsADu9//A6aL8rvDNhYr9JkcuZurQZEMfbWv664+eMuEjZ3xAjR389gJtbtThDLAiq1Ui7VxVOS7ZqCQ+0qFeqPHkcw='}}
0:15:30.423681	LOG	Server --------------------> DUT
0:15:30.426734	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:30.429746	LOG	Check previous uplink data rate process starts
0:15:30.433773	LOG	Uplink received with expected Data Rate
0:15:30.437739	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:35.307675	LOG	First uplink received. Open reception window.
0:15:35.410382	LOG	PUSH_ACK: 02 bfaf 01
0:15:35.411890	LOG	GPS Time from gateway: 1385116983896
0:15:35.413890	LOG	PUSH_DATA: Protocol version = 02, Token = bfaf, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2848041860, 'time': '2023-11-27T10:42:44.896963Z', 'tmms': 1385116983896, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.5, 'foff': -3330, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAAAcCJKpYKE0u13y6z/M='}]}
0:15:35.414895	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0700, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7cbacff3)
0:15:35.416907	LOG	Server <-------------------- DUT
0:15:35.418895	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03e5, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010

		1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101), MIC: 8c3a6c30)
0:15:35.419894	LOG	Frame command sent to the DUT
0:15:35.421895	LOG	PULL_RESP: Protocol version = 02, Token = 9c08, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2849041860, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAA5QPg/o01U3yjicFx3LtOg7aLky5ObcIfwlRzHUF1tdsx4UFROjVc97ogdtkeUM97zFBHnyj0tQyRdPpDuGK/6OrFg9YZaYQq0FrzVm1Tq5yRs/uJecIfPtHk9/6vnHIA5JlNpfXmsxwbmRLFVHyK/8PdUUVwO4w6bDA='}}
0:15:35.422894	LOG	Server --------------------> DUT
0:15:35.425896	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:35.428895	LOG	Check previous uplink data rate process starts
0:15:35.433092	LOG	Uplink received with expected Data Rate
0:15:35.436092	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:38.570662	LOG	GPS Time updated: 1385116987158
0:15:38.571657	LOG	PULL_DATA: 02 0c45 02 0016c001ff1025bf
0:15:38.573639	LOG	PULL_ACK: 02 0c45 04
0:15:40.308803	LOG	First uplink received. Open reception window.
0:15:40.410496	LOG	PUSH_ACK: 02 ea5b 01
0:15:40.412002	LOG	GPS Time from gateway: 1385116988896
0:15:40.414004	LOG	PUSH_DATA: Protocol version = 02, Token = ea5b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2853041607, 'time': '2023-11-27T10:42:49.896709Z', 'tmms': 1385116988896, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.2, 'foff': -3327, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAAQcCO1QV+V9Zd6RxAVs='}]}
0:15:40.415003	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0701, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a471015b)
0:15:40.417059	LOG	Server <-------------------- DUT
0:15:40.419053	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03e6, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101), MIC: 7914c9be)
0:15:40.420053	LOG	Frame command sent to the DUT
0:15:40.422054	LOG	PULL_RESP: Protocol version = 02, Token = 6040, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2854041607, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAA5gPgY2RKiSTcWiPjD6qCbthtkL5ngw7bUnXmjFU9OeeEQ2EItZj5b/qc5BriEHLqZ59m0CXF1/AgYL1TJJjTf/ZtzHhtrZQRkM8eEFi431hJ8e0sJtlBJqwI9EzbmuhcX7Z4XCkwoci+AJ+9fWMEs7lwkOveUXkUyb4='}}
0:15:40.423053	LOG	Server --------------------> DUT
0:15:40.426063	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:40.429088	LOG	Check previous uplink data rate process starts
0:15:40.434087	LOG	Uplink received with expected Data Rate
0:15:40.437481	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:45.305859	LOG	First uplink received. Open reception window.
0:15:45.407333	LOG	PUSH_ACK: 02 cc7b 01
0:15:45.409301	LOG	GPS Time from gateway: 1385116993896
0:15:45.410301	LOG	PUSH_DATA: Protocol version = 02, Token = cc7b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2858041373, 'time': '2023-11-27T10:42:54.896474Z', 'tmms': 1385116993896, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.5, 'foff': -3326, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAAgcC6hVJ7hS0Jz32TWM='}]}

0:15:45.411306	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0702, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3df64d63)
0:15:45.413306	LOG	Server <-------------------- DUT
0:15:45.415306	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03e7, FOpts:), FPort: e0, FRMPayload: 070001), MIC: ae8f2476)
0:15:45.416306	LOG	Frame command sent to the DUT
0:15:45.418306	LOG	PULL_RESP: Protocol version = 02, Token = 014d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2859041373, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAA5wPg/cSH+pBwL3jNi6IkjpusRHrc8OUlHB98FsdfrasMK2dSY+JJkg9XdGf3CU0a2ibf0XIhcpH97LN1JiG7QbUWPesUx9WvWnEEpHkyXUYhVV9M0LfMRXQHbwYIdXjL/ORDcSTkfLW176E4BaFvuujoY5QB266PJHY='}}
0:15:45.419305	LOG	Server --------------------> DUT
0:15:45.422310	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:45.425306	LOG	Check previous uplink data rate process starts
0:15:45.430309	LOG	Uplink received with expected Data Rate
0:15:45.433344	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:48.779918	LOG	GPS Time updated: 1385116997371
0:15:48.781884	LOG	PULL_DATA: 02 2ba2 02 0016c001ff1025bf
0:15:48.782884	LOG	PULL_ACK: 02 2ba2 04
0:15:50.306176	LOG	First uplink received. Open reception window.
0:15:50.422424	LOG	PUSH_ACK: 02 8153 01
0:15:50.424392	LOG	GPS Time from gateway: 1385116998896
0:15:50.425398	LOG	PUSH_DATA: Protocol version = 02, Token = 8153, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2863041109, 'time': '2023-11-27T10:42:59.896209Z', 'tmms': 1385116998896, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.0, 'foff': -3327, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAAwcCzPJRuvrw3R7cdN0='}]}
0:15:50.427398	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0703, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1edc74dd)
0:15:50.428397	LOG	Server <-------------------- DUT
0:15:50.430398	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03e8, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 97e95467)
0:15:50.432398	LOG	Frame command sent to the DUT
0:15:50.433397	LOG	PULL_RESP: Protocol version = 02, Token = a37b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2864041109, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAA6APgSHarypmEaeVHgy2TF63XGg7kIOEKwRc6seXiuXdAWw5Uj1E0pXJbrKX4yR9icARedhBwCYpKtQpkI8jH8aVWTar2YVev500Fk1BSNfjH6XoEi41xI7KIf37Lv1nFxTT+Px4EiDNAlam3bQvIkS5NkCLY4JfpVGc='}}
0:15:50.435398	LOG	Server --------------------> DUT
0:15:50.438417	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:50.440398	LOG	Check previous uplink data rate process starts
0:15:50.445937	LOG	Uplink received with expected Data Rate
0:15:50.450395	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:55.305530	LOG	First uplink received. Open reception window.
0:15:55.420842	LOG	PUSH_ACK: 02 8bc0 01

0:15:55.422809	LOG	GPS Time from gateway: 1385117003895
0:15:55.423809	LOG	PUSH_DATA: Protocol version = 02, Token = 8bc0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2868040852, 'time': '2023-11-27T10:43:04.895950Z', 'tmms': 1385117003895, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.2, 'foff': -3326, 'rssi': -51, 'size': 20, 'data': 'QAAAAACABAcCpTGPd0ZsUuoS6E8='}]}
0:15:55.424809	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0704, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ea12e84f)
0:15:55.426810	LOG	Server <-------------------- DUT
0:15:55.428815	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03e9, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 6d7cee0b)
0:15:55.430815	LOG	Frame command sent to the DUT
0:15:55.431814	LOG	PULL_RESP: Protocol version = 02, Token = a848, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2869040852, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAA6QPgmJF1gJpC0yOfsr6L/DCa2JsunMId4ufqFerNvFggOhlASlQf/aDYnkekWqgWTJQp4CR8ZfmvPUNmvFdQglU7YdhM77sdFM5cmkhgHCUu95RXa+yw/ezJuKUDqzZF+fy99IiWfhtLBaYFf6wmPLgYwlypbW187gs='}}
0:15:55.432814	LOG	Server --------------------> DUT
0:15:55.435828	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:55.438844	LOG	Check previous uplink data rate process starts
0:15:55.442932	LOG	Uplink received with expected Data Rate
0:15:55.447933	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:58.790299	LOG	GPS Time updated: 1385117007380
0:15:58.791267	LOG	PULL_DATA: 02 f8a9 02 0016c001ff1025bf
0:15:58.793280	LOG	PULL_ACK: 02 f8a9 04
0:16:00.308605	LOG	First uplink received. Open reception window.
0:16:00.409690	LOG	PUSH_ACK: 02 542e 01
0:16:00.411196	LOG	GPS Time from gateway: 1385117008895
0:16:00.413217	LOG	PUSH_DATA: Protocol version = 02, Token = 542e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2873040598, 'time': '2023-11-27T10:43:09.895697Z', 'tmms': 1385117008895, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.0, 'foff': -3330, 'rssi': -51, 'size': 20, 'data': 'QAAAAACABQcCCt+IjzsDAOvcXmM='}]}
0:16:00.414202	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0705, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ebdc5e63)
0:16:00.416202	LOG	Server <-------------------- DUT
0:16:00.418202	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03ea, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 0b11f638)
0:16:00.419201	LOG	Frame command sent to the DUT
0:16:00.421202	LOG	PULL_RESP: Protocol version = 02, Token = 0c5d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2874040598, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAA6gPganKyzKQwj8QB5a8Hr+kGtebe3J2x99gFO04FncM64i3SCg13uYsW5ahIWfbbw/BvU7AMQZty2jbAPs0hnq4bfeOf6rrk7owvOg7Xrkn8MxoBzMdARnoeRQk68XPqIWrqLUu4RoEUQVnhq9cBmE1YZDrb3QsR9jg='}}
0:16:00.422201	LOG	Server --------------------> DUT

0:16:00.425202	LOG	Send Test Command TxFramesCtrlReq process completed
0:16:00.428209	LOG	Check previous uplink data rate process starts
0:16:00.433207	LOG	Uplink received with expected Data Rate
0:16:00.436208	LOG	Send Test Command TxFramesCtrlReq process starts
0:16:05.306651	LOG	First uplink received. Open reception window.
0:16:05.417162	LOG	PUSH_ACK: 02 fc32 01
0:16:05.419162	LOG	GPS Time from gateway: 1385117013895
0:16:05.420129	LOG	PUSH_DATA: Protocol version = 02, Token = fc32, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2878040336, 'time': '2023-11-27T10:43:14.895434Z', 'tmms': 1385117013895, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3326, 'rssi': -49, 'size': 20, 'data': 'QAAAAACABgcCCL4mGRpAfU6l2CM='}]}
0:16:05.422127	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0706, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4ea5d823)
0:16:05.424128	LOG	Server <-------------------- DUT
0:16:05.425130	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03eb, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101), MIC: ccbc78e5)
0:16:05.427132	LOG	Frame command sent to the DUT
0:16:05.428131	LOG	PULL_RESP: Protocol version = 02, Token = a5f1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2879040336, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAA6wPgEGQR60K90174byypfJXqYqVrdLe1THidFGfVY2gTsvk5JnnXWakAMHir8aOQBNFjHwizQwJm3eAxPNB5oMQGg6i3W4QalBxVJ1AKIxIXtY2fv5RC1iJ4jgvCWCgw+N+lT+7D1FNQY9D6rtkZPPxhgaZET8y8eOU='}}
0:16:05.430131	LOG	Server --------------------> DUT
0:16:05.433137	LOG	Send Test Command TxFramesCtrlReq process completed
0:16:05.436132	LOG	Check previous uplink data rate process starts
0:16:05.440133	LOG	Uplink received with expected Data Rate
0:16:05.443643	LOG	Send Test Command TxFramesCtrlReq process starts
0:16:08.999756	LOG	GPS Time updated: 1385117017588
0:16:09.001724	LOG	PULL_DATA: 02 706b 02 0016c001ff1025bf
0:16:09.003162	LOG	PULL_ACK: 02 706b 04
0:16:10.306652	LOG	First uplink received. Open reception window.
0:16:10.411718	LOG	PUSH_ACK: 02 9b10 01
0:16:10.413719	LOG	GPS Time from gateway: 1385117018894
0:16:10.414686	LOG	PUSH_DATA: Protocol version = 02, Token = 9b10, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2883040074, 'time': '2023-11-27T10:43:19.895171Z', 'tmms': 1385117018894, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3326, 'rssi': -49, 'size': 20, 'data': 'QAAAAACABwcCIGrQIwqQd7PrYxY='}]}
0:16:10.416689	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0707, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b3eb6316)
0:16:10.418686	LOG	Server <-------------------- DUT
0:16:10.420689	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03ec, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101), MIC: c47131c6)
0:16:10.421719	LOG	Frame command sent to the DUT
0:16:10.422719	LOG	PULL_RESP: Protocol version = 02, Token = e9c9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2884040074, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF9BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAA7APg+7gdZDwjd+tdhlwzj1QpQ/BZnH5CCNIsNohBjyEi2VyPV/u/8CK5CsWUwR6CTZsmhp1SFvUoCK2rwsTBViZku59NqUpTV9uJ9sLYK//odKOy2mp1yGawTBl/8xjXmfoen2rtF69tX2nKLymWmEK+XZcN2cRxMcY='}}
0:16:10.424718	LOG	Server --------------------> DUT
0:16:10.427704	LOG	Send Test Command TxFramesCtrlReq process completed
0:16:10.430742	LOG	Check previous uplink data rate process starts
0:16:10.435691	LOG	Uplink received with expected Data Rate
0:16:10.438725	LOG	Send Test Command TxFramesCtrlReq process starts
0:16:15.302116	LOG	First uplink received. Open reception window.
0:16:15.414109	LOG	PUSH_ACK: 02 19ab 01
0:16:15.416075	LOG	GPS Time from gateway: 1385117023894
0:16:15.418074	LOG	PUSH_DATA: Protocol version = 02, Token = 19ab, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2888039826, 'time': '2023-11-27T10:43:24.894922Z', 'tmms': 1385117023894, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3327, 'rssi': -49, 'size': 20, 'data': 'QAAAAACACAcCwDW0NLon1W88GBY='}]}
0:16:15.419075	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0708, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6f3c1816)
0:16:15.421075	LOG	Server <-------------------- DUT
0:16:15.423075	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03ed, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 5d6a0080)
0:16:15.424074	LOG	Frame command sent to the DUT
0:16:15.426074	LOG	PULL_RESP: Protocol version = 02, Token = c2d0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2889039826, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAA7QPgPnKPFxRTKvlifYOlLU35clX/01SVNEgCa7pqRfdPtqswEK9FTf+a2AiyPuLDruTkITWRDnrdSxo36BWitV48cHJaC6dnb3faACZy4MPo34DgiWpFuolcaFM4fD2q1ik2NnSiAkJV3W6zJNguSaQ24mN27F1qAIA='}}
0:16:15.427078	LOG	Server --------------------> DUT
0:16:15.430082	LOG	Send Test Command TxFramesCtrlReq process completed
0:16:15.433078	LOG	Check previous uplink data rate process starts
0:16:15.438080	LOG	Uplink received with expected Data Rate
0:16:15.441618	LOG	Send Test Command TxFramesCtrlReq process starts
0:16:19.199576	LOG	GPS Time updated: 1385117027791
0:16:19.201577	LOG	PULL_DATA: 02 ffd8 02 0016c001ff1025bf
0:16:19.203545	LOG	PULL_ACK: 02 ffd8 04
0:16:20.300406	LOG	First uplink received. Open reception window.
0:16:20.403903	LOG	PUSH_ACK: 02 5b0b 01
0:16:20.405903	LOG	GPS Time from gateway: 1385117028894
0:16:20.406903	LOG	PUSH_DATA: Protocol version = 02, Token = 5b0b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2893039588, 'time': '2023-11-27T10:43:29.894682Z', 'tmms': 1385117028894, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.8, 'foff': -3327, 'rssi': -49, 'size': 20, 'data': 'QAAAAACACQcC3VcDFZg+qDRqAPY='}]}
0:16:20.408911	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0709, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 346a00f6)
0:16:20.410452	LOG	Server <-------------------- DUT
0:16:20.412493	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03ee, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010101

		1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101), MIC: 2c345920)
0:16:20.414492	LOG	Frame command sent to the DUT
0:16:20.416485	LOG	PULL_RESP: Protocol version = 02, Token = ddcc, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2894039588, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAA7gPgwCQwJ3lvDHCbAA8M6Ql0RjVQXMyFXtfluPMju8Y6SER1N381m2Cwhjpy8kRLZ0l+nUM6ArqkO+CcScpgwRkJrVv1d4ueYVt1dIMvLCixCDHKfqAxc4ndx47Uoj06wMyiMQABQrC2B/9YNgCgRPkpsHKlXSw0WSA='}}
0:16:20.417483	LOG	Server --------------------> DUT
0:16:20.420464	LOG	Send Test Command TxFramesCtrlReq process completed
0:16:20.423457	LOG	Check previous uplink data rate process starts
0:16:20.428462	LOG	Uplink received with expected Data Rate
0:16:20.431463	LOG	Send Test Command TxFramesCtrlReq process starts
0:16:25.299322	LOG	First uplink received. Open reception window.
0:16:25.410511	LOG	PUSH_ACK: 02 1d45 01
0:16:25.412549	LOG	GPS Time from gateway: 1385117033894
0:16:25.413523	LOG	PUSH_DATA: Protocol version = 02, Token = 1d45, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2898039328, 'time': '2023-11-27T10:43:34.894423Z', 'tmms': 1385117033894, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.0, 'foff': -3324, 'rssi': -49, 'size': 20, 'data': 'QAAAAACACgcCl9hnJF8XTFqfpuI='}]}
0:16:25.415552	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 070a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5a9fa6e2)
0:16:25.417544	LOG	Server <-------------------- DUT
0:16:25.419515	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03ef, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101), MIC: 6136bf9d)
0:16:25.420515	LOG	Frame command sent to the DUT
0:16:25.422515	LOG	PULL_RESP: Protocol version = 02, Token = bdf0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2899039328, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAA7wPg29CY/4kBLnUJEEbuFYdcK9yG2+YUXLfHhrWv7upCiOsCSHICpooDG5R/V1h+0matGDriouP1xbZtyZuJwtN5FZBjtO5IfNH4f1sZ2d4JFSlBqoaMjLOJEGXq2qewHgOd2pGiGQc5ClqTv3fgupXgYOZhs2E2v50='}}
0:16:25.423516	LOG	Server --------------------> DUT
0:16:25.426516	LOG	Send Test Command TxFramesCtrlReq process completed
0:16:25.429523	LOG	Check previous uplink data rate process starts
0:16:25.433522	LOG	Uplink received with expected Data Rate
0:16:25.437521	LOG	Send Test Command TxFramesCtrlReq process starts
0:16:29.409301	LOG	GPS Time updated: 1385117038004
0:16:29.411811	LOG	PULL_DATA: 02 67e9 02 0016c001ff1025bf
0:16:29.412812	LOG	PULL_ACK: 02 67e9 04
0:16:30.305658	LOG	First uplink received. Open reception window.
0:16:30.406253	LOG	PUSH_ACK: 02 8b42 01
0:16:30.408220	LOG	GPS Time from gateway: 1385117038893
0:16:30.409219	LOG	PUSH_DATA: Protocol version = 02, Token = 8b42, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2903039072, 'time': '2023-11-27T10:43:39.894166Z', 'tmms': 1385117038893, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3322, 'rssi': -49, 'size': 20, 'data': 'QAAAAACACwcCSPwM8ZCJWGK0pIg='}]}

0:16:30.411747	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 070b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 62b4a488)
0:16:30.412730	LOG	Server <-------------------- DUT
0:16:30.414747	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03f0, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 041baef3)
0:16:30.416730	LOG	Frame command sent to the DUT
0:16:30.417730	LOG	PULL_RESP: Protocol version = 02, Token = 65c5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2904039072, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAA8APgLQRGMh5VKJk+DMp/RtvLcZQmFg+qxza4lPSYUMdnJ5euCti+KXMH7PvdhlAbHSVCAbMH1XruX8wUbGapop5a4CKcRx9J8KLAPqv3VM/xUjen7RUZZFsDx4ocSMf4XmdmFdcRXxmmw1KeAALAuOJnPceRuQQbrvM='}}
0:16:30.419730	LOG	Server --------------------> DUT
0:16:30.422733	LOG	Send Test Command TxFramesCtrlReq process completed
0:16:30.425769	LOG	Check previous uplink data rate process starts
0:16:30.429768	LOG	Uplink received with expected Data Rate
0:16:30.433774	LOG	Send Test Command TxFramesCtrlReq process starts
0:16:35.300948	LOG	First uplink received. Open reception window.
0:16:35.411672	LOG	PUSH_ACK: 02 e517 01
0:16:35.413637	LOG	GPS Time from gateway: 1385117043893
0:16:35.414637	LOG	PUSH_DATA: Protocol version = 02, Token = e517, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2908038823, 'time': '2023-11-27T10:43:44.893916Z', 'tmms': 1385117043893, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3322, 'rssi': -50, 'size': 20, 'data': 'QAAAAACADAcCBoXkBwZbLfQc+aI='}]}
0:16:35.416639	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 070c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f41cf9a2)
0:16:35.418638	LOG	Server <-------------------- DUT
0:16:35.419638	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03f1, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 8e9ca179)
0:16:35.421637	LOG	Frame command sent to the DUT
0:16:35.423637	LOG	PULL_RESP: Protocol version = 02, Token = da4c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2909038823, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAA8QPg6lTVocthhc0/f0d2fE7NJ2wEmL/cF57hsBaVcI+colRoNFHpJ8BtO/fmdnmV4uQAUBR8MLgAMsiKGgqTfKq++gZo1adbYeDGPeWcKg94mP3Oy5udhrc3oFLUXhavDwuK+qNnz/9KUcCjNFB/L059mfzSuY6coXk='}}
0:16:35.424637	LOG	Server --------------------> DUT
0:16:35.427644	LOG	Send Test Command TxFramesCtrlReq process completed
0:16:35.430643	LOG	Check previous uplink data rate process starts
0:16:35.435642	LOG	Uplink received with expected Data Rate
0:16:35.438644	LOG	Send Test Command TxFramesCtrlReq process starts
0:16:39.620351	LOG	#**************************CURRENT BEACON SENT*************************#
0:16:39.621354	LOG	PULL_RESP: Protocol version = 02, Token = 234b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385117056000, 'rfch': 0, 'powe': 14, 'ipol': False,

		'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACANY9SfIIAAAAAAAAAAAA='}}
0:16:39.623330	LOG	Server --------------------> DUT
0:16:39.625318	LOG	#** ******#
0:16:39.634482	LOG	#**************************NEXT BEACON QUEUED**************************#
0:16:39.636482	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385117184000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAANo9SFAYAAAAAAAAAAAA='}}
0:16:39.637484	LOG	Server --------------------> DUT
0:16:39.639451	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 00368f52, CRC1: 1406, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385117184000
0:16:39.640452	LOG	#** ******#
0:16:39.642485	LOG	Next BEACON scheduled at GPS time (ms): 1385117312000
0:16:39.643484	LOG	GPS Time updated: 1385117048236
0:16:39.644483	LOG	PULL_DATA: 02 02de 02 0016c001ff1025bf
0:16:39.646519	LOG	PULL_ACK: 02 02de 04
0:16:39.647520	LOG	TX_ACK: 02 234b 05 0016c001ff1025bf
0:16:40.305580	LOG	First uplink received. Open reception window.
0:16:40.406115	LOG	PUSH_ACK: 02 c061 01
0:16:40.408082	LOG	GPS Time from gateway: 1385117048893
0:16:40.409083	LOG	PUSH_DATA: Protocol version = 02, Token = c061, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2913038591, 'time': '2023-11-27T10:43:49.893683Z', 'tmms': 1385117048893, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3322, 'rssi': -49, 'size': 20, 'data': 'QAAAAACADQcCzH7uq9yz7yQrtfg='}]}
0:16:40.410588	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 070d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 242bb5f8)
0:16:40.412595	LOG	Server <-------------------- DUT
0:16:40.414593	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03f2, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101), MIC: a0ec3ada)
0:16:40.416598	LOG	Frame command sent to the DUT
0:16:40.418594	LOG	PULL_RESP: Protocol version = 02, Token = be21, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2914038591, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAA8gPgPJnKkf5+0d8ir++NNmXaF+YXbDN1AQNnqP6Jejtt3GCrFG UZ8cf6Z0eqhOHXuiYff67Hg7kVvV0MS3BK6gP+U28ypRdFvoHgBM4mMsz+Q mg87Ka0uKqtzQdYSJFAfSRSHED4sGkjP4l/mWvPWR3uOWSg1aDsOto='}}
0:16:40.419593	LOG	Server --------------------> DUT
0:16:40.423593	LOG	Send Test Command TxFramesCtrlReq process completed
0:16:40.426593	LOG	Check previous uplink data rate process starts
0:16:40.430598	LOG	Uplink received with expected Data Rate
0:16:40.434600	LOG	Send Test Command TxFramesCtrlReq process starts
0:16:45.301606	LOG	First uplink received. Open reception window.
0:16:45.416772	LOG	PUSH_ACK: 02 cf14 01
0:16:45.418772	LOG	GPS Time from gateway: 1385117053893

0:16:45.419803	LOG	PUSH_DATA: Protocol version = 02, Token = cf14, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2918038333, 'time': '2023-11-27T10:43:54.893424Z', 'tmms': 1385117053893, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3322, 'rssi': -49, 'size': 20, 'data': 'QAAAAACADgcC1T2hRKSzndJJ8D8='}]}
0:16:45.421806	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 070e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d249f03f)
0:16:45.422774	LOG	Server <-------------------- DUT
0:16:45.424776	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03f3, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 755e940c)
0:16:45.426773	LOG	Frame command sent to the DUT
0:16:45.427777	LOG	PULL_RESP: Protocol version = 02, Token = 48d2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2919038333, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAA8wPgD8HoXz5RXdc98hMxu/00tACrHQJl0Se4vEcZo4uH7fDN+J4Rf4sXFP2UMIp/W7ZCQdGc47Be8hZZgJ2QvTpr35+772NbhRwzoCyJlAC1or73QkoVbZSTOs1+Z7TAKqK+3Xo23jx0OOJpTc/NfNsUVn0dznVelAw='}}
0:16:45.429776	LOG	Server --------------------> DUT
0:16:45.431776	LOG	Send Test Command TxFramesCtrlReq process completed
0:16:45.434779	LOG	Check previous uplink data rate process starts
0:16:45.439778	LOG	Uplink received with expected Data Rate
0:16:45.443293	LOG	Send Test Command TxFramesCtrlReq process starts
0:16:49.629971	LOG	GPS Time updated: 1385117058221
0:16:49.630976	LOG	PULL_DATA: 02 90cb 02 0016c001ff1025bf
0:16:49.632977	LOG	PULL_ACK: 02 90cb 04
0:16:50.295877	LOG	First uplink received. Open reception window.
0:16:50.398833	LOG	PUSH_ACK: 02 474b 01
0:16:50.400830	LOG	GPS Time from gateway: 1385117058892
0:16:50.401832	LOG	PUSH_DATA: Protocol version = 02, Token = 474b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2923038072, 'time': '2023-11-27T10:43:59.893161Z', 'tmms': 1385117058892, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3324, 'rssi': -49, 'size': 20, 'data': 'QAAAAACADwcCaiGqx52dJ2iHpSw='}]}
0:16:50.403842	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 070f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6887a52c)
0:16:50.405832	LOG	Server <-------------------- DUT
0:16:50.407400	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03f4, FOpts:), FPort: e0, FRMPayload: 070001), MIC: eed0a531)
0:16:50.409375	LOG	Frame command sent to the DUT
0:16:50.410877	LOG	PULL_RESP: Protocol version = 02, Token = d9af, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2924038072, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAA9APgfbZF5P9YTekMOYDUU8NVgEROZyoKg5w9A2OLP+SnoNRCtmNkG/Ahoq8ugwf3yL2+aEqKnIgYQasQXLo4nziojhEg7jhTAJl6WJUkgDmtd02Iye0Wdo9BRpPQKRKGrlQvCVD2VGcHZUU79edE5J0hONKki+7QpTE='}}
0:16:50.411881	LOG	Server --------------------> DUT
0:16:50.415883	LOG	Send Test Command TxFramesCtrlReq process completed

0:16:50.417883	LOG	Check previous uplink data rate process starts
0:16:50.422881	LOG	Uplink received with expected Data Rate
0:16:50.426881	LOG	Step 14-15
0:16:50.429893	LOG	Send Test Command RxAppCntReq process starts
0:16:55.296825	LOG	First uplink received. Open reception window.
0:16:55.401868	LOG	PUSH_ACK: 02 b8b7 01
0:16:55.403869	LOG	GPS Time from gateway: 1385117063892
0:16:55.404898	LOG	PUSH_DATA: Protocol version = 02, Token = b8b7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2928037811, 'time': '2023-11-27T10:44:04.892901Z', 'tmms': 1385117063892, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3324, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAEAcCGtrR6uFYy7h4QFg='}]}
0:16:55.406872	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0710, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b8784058)
0:16:55.408870	LOG	Server <---------- DUT
0:16:55.410869	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03f5, FOpts:), FPort: e0, FRMPayload: 09), MIC: 13b4691d)
0:16:55.412398	LOG	Frame command sent to the DUT
0:16:55.413410	LOG	PULL_RESP: Protocol version = 02, Token = 3f18, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2929037811, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAA9QPg9BO0aR0='}}
0:16:55.414410	LOG	Server ----------> DUT
0:16:55.417378	LOG	TX_ACK: 02 3f18 05 0016c001ff1025bf
0:16:56.634984	LOG	First uplink received. Open reception window.
0:16:56.740362	LOG	PUSH_ACK: 02 b654 01
0:16:56.742364	LOG	GPS Time from gateway: 1385117065226
0:16:56.743366	LOG	PUSH_DATA: Protocol version = 02, Token = b654, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2929371488, 'time': '2023-11-27T10:44:06.226577Z', 'tmms': 1385117065226, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3324, 'rssi': -49, 'size': 16, 'data': 'QAAAAACAEQfgkC3EYPDHtA=='}]}
0:16:56.745406	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0711, FOpts:), FPort: e0, FRMPayload: 098e02, MIC: 60f0c7b4)
0:16:56.747363	LOG	Server <---------- DUT
0:16:56.748363	LOG	Frame Command Payload in the Answer: 098e02
0:16:56.752397	LOG	RX Count received by DUT: 654
0:16:56.754365	LOG	Send Test Command RxAppCntReq process completed
0:16:56.764501	LOG	End Test Step: Test packet error rate for SF9BW125 using RX1 window
0:16:56.768503	LOG	Partial Verdict: PASS
0:16:56.772181	LOG	==========
0:16:56.777180	LOG	==========
0:16:56.779149	LOG	Start Test Step: Test packet error rate for SF10BW125 using RX1 window
0:16:56.792695	LOG	Step 10-11
0:16:56.796014	LOG	Send LinkADRReq process starts
0:16:59.820147	LOG	GPS Time updated: 1385117068411
0:16:59.821147	LOG	PULL_DATA: 02 ffc7 02 0016c001ff1025bf
0:16:59.823150	LOG	PULL_ACK: 02 ffc7 04
0:17:00.299509	LOG	First uplink received. Open reception window.
0:17:00.407704	LOG	PUSH_ACK: 02 a75a 01
0:17:00.409674	LOG	GPS Time from gateway: 1385117068892
0:17:00.410706	LOG	PUSH_DATA: Protocol version = 02, Token = a75a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2933037558, 'time': '2023-11-27T10:44:09.892647Z', 'tmms': 1385117068892, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3322, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAEgcC/fVlEcPEeYV3TdY='}]}

0:17:00.413049	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0712, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 85774dd6)
0:17:00.414554	LOG	Server <---------- DUT
0:17:00.416559	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03f6, FOpts:), FPort: 00, FRMPayload: 0320070001), MIC: edd3b0bc)
0:17:00.418593	LOG	PULL_RESP: Protocol version = 02, Token = 6e6b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2935037558, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAA9gMA1a6rIKzt07C8'}}
0:17:00.419595	LOG	Server ----------> DUT
0:17:00.422558	LOG	TX_ACK: 02 6e6b 05 0016c001ff1025bf
0:17:05.483585	LOG	First uplink received. Open reception window.
0:17:05.588238	LOG	PUSH_ACK: 02 d2c5 01
0:17:05.590238	LOG	GPS Time from gateway: 1385117074077
0:17:05.591241	LOG	PUSH_DATA: Protocol version = 02, Token = d2c5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2938222735, 'time': '2023-11-27T10:44:15.077822Z', 'tmms': 1385117074077, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3326, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCEwcDBwJj70sgOVrXfeJ5Bw==\'}]}
0:17:05.593206	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0713, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 7de27907)
0:17:05.594206	LOG	Server <---------- DUT
0:17:05.596206	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:17:05.598205	LOG	Command Answer: 0307
0:17:05.605721	LOG	MAC command communication completed
0:17:05.609719	LOG	Send RXParamSetupReq process starts
0:17:09.869314	LOG	GPS Time updated: 1385117078463
0:17:09.871281	LOG	PULL_DATA: 02 a039 02 0016c001ff1025bf
0:17:09.873281	LOG	PULL_ACK: 02 a039 04
0:17:10.484029	LOG	First uplink received. Open reception window.
0:17:10.586304	LOG	PUSH_ACK: 02 ae61 01
0:17:10.588304	LOG	GPS Time from gateway: 1385117079077
0:17:10.589271	LOG	PUSH_DATA: Protocol version = 02, Token = ae61, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2943222380, 'time': '2023-11-27T10:44:20.077466Z', 'tmms': 1385117079077, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3317, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAFAcCXrUyibN8qZK2vew=\'}]}
0:17:10.591273	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0714, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 92b6bdec)
0:17:10.592273	LOG	Server <---------- DUT
0:17:10.594308	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03f7, FOpts:), FPort: 00, FRMPayload: 0500d2ad84), MIC: 2a743f8c)
0:17:10.596273	LOG	PULL_RESP: Protocol version = 02, Token = f36c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2945222380, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAA9wMAsCzQlH8qdD+M'}}
0:17:10.597306	LOG	Server ----------> DUT
0:17:10.600395	LOG	TX_ACK: 02 f36c 05 0016c001ff1025bf
0:17:15.482808	LOG	First uplink received. Open reception window.
0:17:15.590470	LOG	PUSH_ACK: 02 cc3a 01
0:17:15.592437	LOG	GPS Time from gateway: 1385117084077
0:17:15.594437	LOG	PUSH_DATA: Protocol version = 02, Token = cc3a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2948222227, 'time': '2023-11-27T10:44:25.077312Z', 'tmms': 1385117084077, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3319, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCFQcFBwLEnjzL2SOEAqZCgA=='}]}
0:17:15.595442	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0715, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 02a64280)
0:17:15.596442	LOG	Server <---------- DUT
0:17:15.598971	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:17:15.599950	LOG	Command Answer: 0507
0:17:15.612952	LOG	MAC command communication completed
0:17:15.616959	LOG	Step 11-12
0:17:15.626956	LOG	Send Test Command RxAppCntReq process starts
0:17:20.049897	LOG	GPS Time updated: 1385117088644
0:17:20.051900	LOG	PULL_DATA: 02 a3b1 02 0016c001ff1025bf
0:17:20.053906	LOG	PULL_ACK: 02 a3b1 04
0:17:20.483571	LOG	First uplink received. Open reception window.
0:17:20.594135	LOG	PUSH_ACK: 02 51a6 01
0:17:20.596137	LOG	GPS Time from gateway: 1385117089076
0:17:20.598647	LOG	PUSH_DATA: Protocol version = 02, Token = 51a6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2953221964, 'time': '2023-11-27T10:44:30.077047Z', 'tmms': 1385117089076, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3313, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCFgcFBwJPeaKP3Hcp3VUkbg==}]}
0:17:20.600655	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0716, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: dd55246e)
0:17:20.601655	LOG	Server <---------- DUT
0:17:20.603655	LOG	MAC Command RXParamSetupAns received
0:17:20.604655	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03f8, FOpts:), FPort: e0, FRMPayload: 09), MIC: 449d8030)
0:17:20.606656	LOG	Frame command sent to the DUT
0:17:20.608655	LOG	PULL_RESP: Protocol version = 02, Token = 7eda, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2954221964, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAA+APgqESdgDA='}}
0:17:20.609654	LOG	Server ----------> DUT
0:17:20.612655	LOG	TX_ACK: 02 7eda 05 0016c001ff1025bf
0:17:22.130983	LOG	First uplink received. Open reception window.
0:17:22.235344	LOG	PUSH_ACK: 02 8f11 01
0:17:22.236881	LOG	GPS Time from gateway: 1385117090722
0:17:22.237919	LOG	PUSH_DATA: Protocol version = 02, Token = 8f11, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2954867871, 'time': '2023-11-27T10:44:31.722956Z', 'tmms': 1385117090722, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3314, 'rssi': -50, 'size': 16, 'data': 'QAAAAACAFwfgJR3ru6mBYQ==}]}
0:17:22.239894	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0717, FOpts:), FPort: e0, FRMPayload: 098f02, MIC: bba98161)
0:17:22.240892	LOG	Server <---------- DUT
0:17:22.242892	LOG	Frame Command Payload in the Answer: 098f02
0:17:22.246894	LOG	RX Count received by DUT: 655
0:17:22.248892	LOG	Send Test Command RxAppCntReq process completed
0:17:22.252892	LOG	Step 13
0:17:22.256404	LOG	Send Test Command TxFramesCtrlReq process starts
0:17:25.489152	LOG	First uplink received. Open reception window.
0:17:25.599784	LOG	PUSH_ACK: 02 075e 01
0:17:25.601784	LOG	GPS Time from gateway: 1385117094076
0:17:25.602786	LOG	PUSH_DATA: Protocol version = 02, Token = 075e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2958221618, 'time': '2023-11-27T10:44:35.076702Z',

		'tmms': 1385117094076, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3311, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAGAcCweKkI82jrPe21eY='}]}
0:17:25.604784	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0718, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f7b6d5e6)
0:17:25.605785	LOG	Server <---------- DUT
0:17:25.607785	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03f9, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: fad30b14)
0:17:25.609784	LOG	Frame command sent to the DUT
0:17:25.610784	LOG	PULL_RESP: Protocol version = 02, Token = a135, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2959221618, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA+QPg7IMzu8El2Zukft2W5l2T/K1DafNm8svyhDHE7BTidgYzKDF7A3WEydvM56haAPY8JaNn+tMLFA=='}}
0:17:25.611784	LOG	Server ----------> DUT
0:17:25.614792	LOG	Send Test Command TxFramesCtrlReq process completed
0:17:25.617789	LOG	Check previous uplink data rate process starts
0:17:25.621789	LOG	Uplink received with expected Data Rate
0:17:25.625789	LOG	Send Test Command TxFramesCtrlReq process starts
0:17:30.249710	LOG	GPS Time updated: 1385117098836
0:17:30.250673	LOG	PULL_DATA: 02 e2e2 02 0016c001ff1025bf
0:17:30.252674	LOG	PULL_ACK: 02 e2e2 04
0:17:30.482363	LOG	First uplink received. Open reception window.
0:17:30.598034	LOG	PUSH_ACK: 02 2499 01
0:17:30.599623	LOG	GPS Time from gateway: 1385117099076
0:17:30.601587	LOG	PUSH_DATA: Protocol version = 02, Token = 2499, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2963221349, 'time': '2023-11-27T10:44:40.076432Z', 'tmms': 1385117099076, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3310, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAGQcCE6Zg0vi/sMHJ0eo='}]}
0:17:30.602579	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0719, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c1c9d1ea)
0:17:30.604579	LOG	Server <---------- DUT
0:17:30.606580	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03fa, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: e791d22a)
0:17:30.607612	LOG	Frame command sent to the DUT
0:17:30.609580	LOG	PULL_RESP: Protocol version = 02, Token = 75a2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2964221349, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA+gPgcAmrNiftacye23pBVEzkIUY7MnUty3CI7F3wxWLYFN9/oLLZhdj/mFA2yC32ba+Czq9455HSKg=='}}
0:17:30.610608	LOG	Server ----------> DUT
0:17:30.613582	LOG	Send Test Command TxFramesCtrlReq process completed
0:17:30.616586	LOG	Check previous uplink data rate process starts
0:17:30.620587	LOG	Uplink received with expected Data Rate
0:17:30.624585	LOG	Send Test Command TxFramesCtrlReq process starts
0:17:35.483364	LOG	First uplink received. Open reception window.
0:17:35.589833	LOG	PUSH_ACK: 02 36ec 01
0:17:35.591833	LOG	GPS Time from gateway: 1385117104075

0:17:35.592835	LOG	PUSH_DATA: Protocol version = 02, Token = 36ec, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2968221091, 'time': '2023-11-27T10:44:45.076173Z', 'tmms': 1385117104075, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.0, 'foff': -3310, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAGgcCA8ubhDpvsRQvNYo='}]}
0:17:35.594839	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 071a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 142f358a)
0:17:35.595838	LOG	Server <---------- DUT
0:17:35.596839	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03fb, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: b234945b)
0:17:35.599399	LOG	Frame command sent to the DUT
0:17:35.600414	LOG	PULL_RESP: Protocol version = 02, Token = f652, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2969221091, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA+wPgQ9gW041Kv3b1xQW8xxrf4rOfPmvZtS+TTD+X0gqYDnNTVwg/nH7+A/Jyr+AF48VOwQMfsjSUWw=='}}
0:17:35.602414	LOG	Server ----------> DUT
0:17:35.604416	LOG	Send Test Command TxFramesCtrlReq process completed
0:17:35.607415	LOG	Check previous uplink data rate process starts
0:17:35.612384	LOG	Uplink received with expected Data Rate
0:17:35.615451	LOG	Send Test Command TxFramesCtrlReq process starts
0:17:40.430050	LOG	GPS Time updated: 1385117109022
0:17:40.431051	LOG	PULL_DATA: 02 6835 02 0016c001ff1025bf
0:17:40.433052	LOG	PULL_ACK: 02 6835 04
0:17:40.490599	LOG	First uplink received. Open reception window.
0:17:40.591224	LOG	PUSH_ACK: 02 b310 01
0:17:40.593226	LOG	GPS Time from gateway: 1385117109075
0:17:40.594225	LOG	PUSH_DATA: Protocol version = 02, Token = b310, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2973220836, 'time': '2023-11-27T10:44:50.075917Z', 'tmms': 1385117109075, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3313, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAGwcCp8rxNrE776GLBRo='}]}
0:17:40.596229	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 071b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a18b051a)
0:17:40.597225	LOG	Server <---------- DUT
0:17:40.599736	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03fc, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c1dc14a6)
0:17:40.600736	LOG	Frame command sent to the DUT
0:17:40.602736	LOG	PULL_RESP: Protocol version = 02, Token = a29e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2974220836, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA/APg0f0h1/wTsJlhRj6+GUAGz/HrnUvTxufRDZu7tRNFjxMzC9IW10gD839lPqQYK7u/IhvNwdwUpg=='}}
0:17:40.603735	LOG	Server ----------> DUT
0:17:40.606735	LOG	Send Test Command TxFramesCtrlReq process completed
0:17:40.609737	LOG	Check previous uplink data rate process starts
0:17:40.613736	LOG	Uplink received with expected Data Rate
0:17:40.617744	LOG	Send Test Command TxFramesCtrlReq process starts
0:17:45.489413	LOG	First uplink received. Open reception window.
0:17:45.592654	LOG	PUSH_ACK: 02 9086 01

0:17:45.594623	LOG	GPS Time from gateway: 1385117114075
0:17:45.595656	LOG	PUSH_DATA: Protocol version = 02, Token = 9086, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2978220573, 'time': '2023-11-27T10:44:55.075654Z', 'tmms': 1385117114075, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3314, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAHAcCr77C/pU4II/SgxQ='}]}
0:17:45.596623	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 071c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8fd28314)
0:17:45.599165	LOG	Server <---------- DUT
0:17:45.601164	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03fd, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: d0c69b33)
0:17:45.602164	LOG	Frame command sent to the DUT
0:17:45.604165	LOG	PULL_RESP: Protocol version = 02, Token = ca5e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2979220573, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA/QPgFppCsWfFB60kTql31Gj+QA7ijRo2wPujzX3ekx8Kma2qpyvdZuj54GOJR04W/HMA26Bl0MabMw==''}}
0:17:45.605163	LOG	Server ----------> DUT
0:17:45.608166	LOG	Send Test Command TxFramesCtrlReq process completed
0:17:45.611166	LOG	Check previous uplink data rate process starts
0:17:45.615170	LOG	Uplink received with expected Data Rate
0:17:45.619168	LOG	Send Test Command TxFramesCtrlReq process starts
0:17:50.481561	LOG	First uplink received. Open reception window.
0:17:50.595179	LOG	PUSH_ACK: 02 d530 01
0:17:50.597142	LOG	GPS Time from gateway: 1385117119075
0:17:50.598646	LOG	PUSH_DATA: Protocol version = 02, Token = d530, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2983220324, 'time': '2023-11-27T10:45:00.075402Z', 'tmms': 1385117119075, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.0, 'foff': -3314, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAHQcCAVL1rrKRvI+lZ78='}]}
0:17:50.599651	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 071d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8fa567bf)
0:17:50.600652	LOG	Server <---------- DUT
0:17:50.603652	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03fe, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: df34537c)
0:17:50.604652	LOG	Frame command sent to the DUT
0:17:50.605652	LOG	PULL_RESP: Protocol version = 02, Token = ae7f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2984220324, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA/gPgmgwmOSDPB/tnJVJB7kUshTAIHggXi8BFIq5Crl7mSnE5KtyoE3tUADgrpQp1LcixZYYl3zRTfA==''}}
0:17:50.607652	LOG	Server ----------> DUT
0:17:50.610658	LOG	Send Test Command TxFramesCtrlReq process completed
0:17:50.613654	LOG	Check previous uplink data rate process starts
0:17:50.617661	LOG	Uplink received with expected Data Rate
0:17:50.621658	LOG	Send Test Command TxFramesCtrlReq process starts
0:17:55.490197	LOG	First uplink received. Open reception window.
0:17:55.601511	LOG	PUSH_ACK: 02 918b 01
0:17:55.603513	LOG	GPS Time from gateway: 1385117124074
0:17:55.604511	LOG	PUSH_DATA: Protocol version = 02, Token = 918b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2988220059, 'time': '2023-11-27T10:45:05.075139Z',

		'tmms': 1385117124074, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3316, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAHgcCjp0EnRBgeh68JVY='}]}
0:17:55.606510	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 071e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1ebc2556)
0:17:55.607511	LOG	Server <---------- DUT
0:17:55.609510	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 03ff, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: ec77e5cf)
0:17:55.610511	LOG	Frame command sent to the DUT
0:17:55.612510	LOG	PULL_RESP: Protocol version = 02, Token = 941b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2989220059, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA/wPglBKpVAKiuXk4U+1p8T3KQjxvdMwEqXCI72NScpe/OQHKhWFOEOf5/N0Ry3NNi5T6B8Cg7Hflzw==''}}
0:17:55.613509	LOG	Server ----------> DUT
0:17:55.616514	LOG	Send Test Command TxFramesCtrlReq process completed
0:17:55.619514	LOG	Check previous uplink data rate process starts
0:17:55.623514	LOG	Uplink received with expected Data Rate
0:17:55.627561	LOG	Send Test Command TxFramesCtrlReq process starts
0:18:00.483680	LOG	First uplink received. Open reception window.
0:18:00.592228	LOG	PUSH_ACK: 02 3d0e 01
0:18:00.594195	LOG	GPS Time from gateway: 1385117129074
0:18:00.595201	LOG	PUSH_DATA: Protocol version = 02, Token = 3d0e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2993219793, 'time': '2023-11-27T10:45:10.074872Z', 'tmms': 1385117129074, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3316, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAHwcCk3uHlJv9mfPFGpY='}]}
0:18:00.597216	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 071f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f3c51a96)
0:18:00.598704	LOG	Server <---------- DUT
0:18:00.600709	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0400, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: a52a88fc)
0:18:00.601709	LOG	Frame command sent to the DUT
0:18:00.603711	LOG	PULL_RESP: Protocol version = 02, Token = e4c4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2994219793, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAAATgwwwJI3HLdk71BE4t5L1F40zK9NIFVFQkLBq9RZTYgLOOq39/uwiaR5Wm0cB9vMSTFuBKpSqI/A==''}}
0:18:00.604709	LOG	Server ----------> DUT
0:18:00.607712	LOG	Send Test Command TxFramesCtrlReq process completed
0:18:00.610719	LOG	Check previous uplink data rate process starts
0:18:00.615713	LOG	Uplink received with expected Data Rate
0:18:00.618715	LOG	Send Test Command TxFramesCtrlReq process starts
0:18:00.809374	LOG	GPS Time updated: 1385117129400
0:18:00.810377	LOG	PULL_DATA: 02 dacc 02 0016c001ff1025bf
0:18:00.812412	LOG	PULL_ACK: 02 dacc 04
0:18:05.482908	LOG	First uplink received. Open reception window.
0:18:05.588933	LOG	PUSH_ACK: 02 20e2 01
0:18:05.590935	LOG	GPS Time from gateway: 1385117134074

0:18:05.591903	LOG	PUSH_DATA: Protocol version = 02, Token = 20e2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2998219579, 'time': '2023-11-27T10:45:15.074656Z', 'tmms': 1385117134074, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.8, 'foff': -3316, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAIAcCAZx3MxmlFeV+OFE='}]}
0:18:05.593901	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0720, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e57e3851)
0:18:05.594900	LOG	Server <---------- DUT
0:18:05.596901	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0401, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 4f9a0660)
0:18:05.598404	LOG	Frame command sent to the DUT
0:18:05.600410	LOG	PULL_RESP: Protocol version = 02, Token = e225, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2999219579, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAAQTgDd3Y+ZRH9HXtNUrGLagfvPmmVd9ytFZpen4akTcCBVTJM2nmEi4vOWNH6MqK+wl6/fcmT5oGYA=='}}
0:18:05.601408	LOG	Server ----------> DUT
0:18:05.605447	LOG	Send Test Command TxFramesCtrlReq process completed
0:18:05.608410	LOG	Check previous uplink data rate process starts
0:18:05.613420	LOG	Uplink received with expected Data Rate
0:18:05.617448	LOG	Send Test Command TxFramesCtrlReq process starts
0:18:10.487779	LOG	First uplink received. Open reception window.
0:18:10.596535	LOG	PUSH_ACK: 02 2b46 01
0:18:10.600069	LOG	GPS Time from gateway: 1385117139074
0:18:10.603066	LOG	PUSH_DATA: Protocol version = 02, Token = 2b46, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3003219313, 'time': '2023-11-27T10:45:20.074389Z', 'tmms': 1385117139074, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3314, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAIQcCRRzUntNEG/XdlRY='}]}
0:18:10.606055	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0721, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f5dd9516)
0:18:10.607059	LOG	Server <---------- DUT
0:18:10.609052	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0402, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: d58ee3c7)
0:18:10.611052	LOG	Frame command sent to the DUT
0:18:10.613054	LOG	PULL_RESP: Protocol version = 02, Token = 0e75, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3004219313, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAAgTgxQePxKXSFhV9RSEKMlTLPqWA0ddXeJVKsyCtbqg23sadfDfIDIGLT36nKejq8JAjWyOE1Y7jxw=='}}
0:18:10.614051	LOG	Server ----------> DUT
0:18:10.617056	LOG	Send Test Command TxFramesCtrlReq process completed
0:18:10.620057	LOG	Check previous uplink data rate process starts
0:18:10.625056	LOG	Uplink received with expected Data Rate
0:18:10.628061	LOG	Send Test Command TxFramesCtrlReq process starts
0:18:10.825016	LOG	GPS Time updated: 1385117139413
0:18:10.827011	LOG	PULL_DATA: 02 7954 02 0016c001ff1025bf
0:18:10.828011	LOG	PULL_ACK: 02 7954 04
0:18:15.480888	LOG	First uplink received. Open reception window.
0:18:15.585281	LOG	PUSH_ACK: 02 36d7 01

0:18:15.587261	LOG	GPS Time from gateway: 1385117144073
0:18:15.588280	LOG	PUSH_DATA: Protocol version = 02, Token = 36d7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3008219098, 'time': '2023-11-27T10:45:25.074173Z', 'tmms': 1385117144073, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3316, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAIgcC0P62JteDqGwOymM='}]}
0:18:15.589751	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0722, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6c0eca63)
0:18:15.591789	LOG	Server <---------- DUT
0:18:15.592791	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0403, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: f9eed142)
0:18:15.594790	LOG	Frame command sent to the DUT
0:18:15.595788	LOG	PULL_RESP: Protocol version = 02, Token = 88ae, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3009219098, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAAwTghtlT1mDK6bkrJ7p825W7VPS5kNPodL1YrrfvoRLRjHusJfEVCDEkNl679gCsuzAqV5S1+e7RQg=='}}
0:18:15.596789	LOG	Server ----------> DUT
0:18:15.601338	LOG	Send Test Command TxFramesCtrlReq process completed
0:18:15.604337	LOG	Check previous uplink data rate process starts
0:18:15.608788	LOG	Uplink received with expected Data Rate
0:18:15.611818	LOG	Send Test Command TxFramesCtrlReq process starts
0:18:20.478382	LOG	First uplink received. Open reception window.
0:18:20.587083	LOG	PUSH_ACK: 02 f56c 01
0:18:20.589084	LOG	GPS Time from gateway: 1385117149073
0:18:20.590083	LOG	PUSH_DATA: Protocol version = 02, Token = f56c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3013218830, 'time': '2023-11-27T10:45:30.073903Z', 'tmms': 1385117149073, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3316, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAIwcCNk1r8NxrkaCTgWA='}]}
0:18:20.592084	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0723, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a0938160)
0:18:20.593083	LOG	Server <---------- DUT
0:18:20.595594	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0404, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 6b48f25b)
0:18:20.596594	LOG	Frame command sent to the DUT
0:18:20.598099	LOG	PULL_RESP: Protocol version = 02, Token = 4d1e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3014218830, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAABATgjQpXHzm8LATnWoifri93CnXoNL0IWrjgAM0WERNjI60pcs7q3hii8lFw0FaLXRcIOXMQa0jyWw=='}}
0:18:20.599105	LOG	Server ----------> DUT
0:18:20.602105	LOG	Send Test Command TxFramesCtrlReq process completed
0:18:20.606105	LOG	Check previous uplink data rate process starts
0:18:20.610107	LOG	Uplink received with expected Data Rate
0:18:20.614104	LOG	Send Test Command TxFramesCtrlReq process starts
0:18:21.019404	LOG	GPS Time updated: 1385117149614
0:18:21.020403	LOG	PULL_DATA: 02 c45d 02 0016c001ff1025bf
0:18:21.022457	LOG	PULL_ACK: 02 c45d 04
0:18:25.489385	LOG	First uplink received. Open reception window.

0:18:25.597294	LOG	PUSH_ACK: 02 6d32 01
0:18:25.600378	LOG	GPS Time from gateway: 1385117154073
0:18:25.602379	LOG	PUSH_DATA: Protocol version = 02, Token = 6d32, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3018218579, 'time': '2023-11-27T10:45:35.073654Z', 'tmms': 1385117154073, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3315, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAJAcCmyrESM/eazr3nNg='}]}
0:18:25.605381	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0724, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3af79cd8)
0:18:25.607378	LOG	Server <---------- DUT
0:18:25.609411	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0405, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: b27b1956)
0:18:25.611410	LOG	Frame command sent to the DUT
0:18:25.613376	LOG	PULL_RESP: Protocol version = 02, Token = cdba, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3019218579, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAABQTgUHl2lSLPNPRS1VX4GNAO76mfEnSDzSoOJZoRh2dXymy5s9hYyaiUiHWR2ZgHLZU0zhs8snsZVg=='}}
0:18:25.614408	LOG	Server ----------> DUT
0:18:25.618414	LOG	Send Test Command TxFramesCtrlReq process completed
0:18:25.621414	LOG	Check previous uplink data rate process starts
0:18:25.625412	LOG	Uplink received with expected Data Rate
0:18:25.630531	LOG	Send Test Command TxFramesCtrlReq process starts
0:18:30.482174	LOG	First uplink received. Open reception window.
0:18:30.584842	LOG	PUSH_ACK: 02 62bd 01
0:18:30.586810	LOG	GPS Time from gateway: 1385117159073
0:18:30.587809	LOG	PUSH_DATA: Protocol version = 02, Token = 62bd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3023218315, 'time': '2023-11-27T10:45:40.073388Z', 'tmms': 1385117159073, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3314, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAJQcCZkjToP3rvo+pjvo='}]}
0:18:30.589815	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0725, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8fa98efa)
0:18:30.590814	LOG	Server <---------- DUT
0:18:30.592815	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0406, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 389e948e)
0:18:30.594815	LOG	Frame command sent to the DUT
0:18:30.595815	LOG	PULL_RESP: Protocol version = 02, Token = 55c9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3024218315, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAABgTg+ENqWYdINoXwRT7uX/xlrY7ONfKHtFdX/KDbO8bghJ/lM7NM0IcQk70lPN2dWmIiDPjeOJ6Ujg=='}}
0:18:30.596814	LOG	Server ----------> DUT
0:18:30.600324	LOG	Send Test Command TxFramesCtrlReq process completed
0:18:30.603325	LOG	Check previous uplink data rate process starts
0:18:30.607846	LOG	Uplink received with expected Data Rate
0:18:30.611849	LOG	Send Test Command TxFramesCtrlReq process starts
0:18:31.229345	LOG	GPS Time updated: 1385117159821
0:18:31.230343	LOG	PULL_DATA: 02 c6f3 02 0016c001ff1025bf
0:18:31.232345	LOG	PULL_ACK: 02 c6f3 04

0:18:35.485384	LOG	First uplink received. Open reception window.
0:18:35.598378	LOG	PUSH_ACK: 02 4883 01
0:18:35.601386	LOG	GPS Time from gateway: 1385117164072
0:18:35.602387	LOG	PUSH_DATA: Protocol version = 02, Token = 4883, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3028218060, 'time': '2023-11-27T10:45:45.073132Z', 'tmms': 1385117164072, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3315, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAJgcCBLLJghMFesgrxfA='}]}
0:18:35.604403	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0726, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c82bc5f0)
0:18:35.605422	LOG	Server <---------- DUT
0:18:35.607385	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0407, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: a9b98d44)
0:18:35.609382	LOG	Frame command sent to the DUT
0:18:35.610890	LOG	PULL_RESP: Protocol version = 02, Token = 9416, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3029218060, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAABwTgz5AUBb+woFsSuBwmKYgepgkEfj8mJ5u7Sep8Lyqz7po9pbfVWK31u8rRx0vt3VmsEl+UqbmNRA=='}}
0:18:35.611888	LOG	Server ----------> DUT
0:18:35.614896	LOG	Send Test Command TxFramesCtrlReq process completed
0:18:35.617893	LOG	Check previous uplink data rate process starts
0:18:35.622896	LOG	Uplink received with expected Data Rate
0:18:35.625929	LOG	Send Test Command TxFramesCtrlReq process starts
0:18:40.482303	LOG	First uplink received. Open reception window.
0:18:40.591391	LOG	PUSH_ACK: 02 2785 01
0:18:40.594393	LOG	GPS Time from gateway: 1385117169072
0:18:40.596394	LOG	PUSH_DATA: Protocol version = 02, Token = 2785, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3033217805, 'time': '2023-11-27T10:45:50.072877Z', 'tmms': 1385117169072, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3314, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAJwcCRnn0Xa7w+MEzyDE='}]}
0:18:40.598898	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0727, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c133c831)
0:18:40.601948	LOG	Server <---------- DUT
0:18:40.604937	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0408, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: ab281e7b)
0:18:40.605938	LOG	Frame command sent to the DUT
0:18:40.608938	LOG	PULL_RESP: Protocol version = 02, Token = de34, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3034217805, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAACATgnB17tZzH8a/5YmtLY6Jk/4IJmC9jziWxkIN2PdNCrp8lzNrkhXbXyK/sNrF4htndmmv0qygeew=='}}
0:18:40.609937	LOG	Server ----------> DUT
0:18:40.613935	LOG	Send Test Command TxFramesCtrlReq process completed
0:18:40.617271	LOG	Check previous uplink data rate process starts
0:18:40.631820	LOG	Uplink received with expected Data Rate
0:18:40.635787	LOG	Send Test Command TxFramesCtrlReq process starts
0:18:41.239497	LOG	GPS Time updated: 1385117169829
0:18:41.240534	LOG	PULL_DATA: 02 9202 02 0016c001ff1025bf

0:18:41.241541	LOG	PULL_ACK: 02 9202 04
0:18:45.479500	LOG	#**********CURRENT BEACON SENT**********#
0:18:45.480500	LOG	PULL_RESP: Protocol version = 02, Token = 30eb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385117184000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAANo9SFAYAAAAAAAAAAA='}}
0:18:45.482502	LOG	Server ----------> DUT
0:18:45.483501	LOG	#**********#
0:18:45.493507	LOG	#**********NEXT BEACON QUEUED**********#
0:18:45.495537	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385117312000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACANo9SLNsAAAAAAAAAAA='}}
0:18:45.496504	LOG	Server ----------> DUT
0:18:45.497504	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 80368f52, CRC1: 2cdb, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385117312000
0:18:45.499540	LOG	#**********#
0:18:45.500538	LOG	Next BEACON scheduled at GPS time (ms): 1385117440000
0:18:45.502504	LOG	First uplink received. Open reception window.
0:18:45.503504	LOG	TX_ACK: 02 30eb 05 0016c001ff1025bf
0:18:45.616086	LOG	PUSH_ACK: 02 52b2 01
0:18:45.617769	LOG	GPS Time from gateway: 1385117174072
0:18:45.619273	LOG	PUSH_DATA: Protocol version = 02, Token = 52b2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3038217536, 'time': '2023-11-27T10:45:55.072607Z', 'tmms': 1385117174072, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3311, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAKAcCGhIgDQQVDNSAD9g='}]}
0:18:45.621280	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0728, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d4800fd8)
0:18:45.622278	LOG	Server <---------- DUT
0:18:45.624278	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0409, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 00b5c370)
0:18:45.626279	LOG	Frame command sent to the DUT
0:18:45.627284	LOG	PULL_RESP: Protocol version = 02, Token = afc3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3039217536, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAACQTgKs4ISBWJRtpUmPdKQgUk8T/ZEcZ6lgMHk7NbEVb0F81OjJwPgNasHjXUhfsNKVpfGgA1ALXDcA=='}}
0:18:45.628283	LOG	Server ----------> DUT
0:18:45.632794	LOG	Send Test Command TxFramesCtrlReq process completed
0:18:45.635795	LOG	Check previous uplink data rate process starts
0:18:45.639827	LOG	Uplink received with expected Data Rate
0:18:45.643370	LOG	Send Test Command TxFramesCtrlReq process starts
0:18:50.477853	LOG	First uplink received. Open reception window.
0:18:50.584571	LOG	PUSH_ACK: 02 e47d 01
0:18:50.586540	LOG	GPS Time from gateway: 1385117179072
0:18:50.588545	LOG	PUSH_DATA: Protocol version = 02, Token = e47d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3043217314, 'time': '2023-11-27T10:46:00.072382Z', 'tmms': 1385117179072, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3311, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAKQcCsPZn5ZhYh/ABe/s='}]}
0:18:50.589544	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0729, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f0017bfb)
0:18:50.591544	LOG	Server <---------- DUT
0:18:50.592544	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 040a, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 0f6921d2)
0:18:50.594543	LOG	Frame command sent to the DUT
0:18:50.595543	LOG	PULL_RESP: Protocol version = 02, Token = 11d2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3044217314, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAACgTgkjcNSPqNdnKrYr7faC30tfZncnhmzW93pSG3WHZY1zsgcC7phnP4OkyT/RYvtYhrat0zD2kh0g==''}}
0:18:50.597543	LOG	Server ----------> DUT
0:18:50.600777	LOG	Send Test Command TxFramesCtrlReq process completed
0:18:50.603774	LOG	Check previous uplink data rate process starts
0:18:50.607775	LOG	Uplink received with expected Data Rate
0:18:50.611782	LOG	Send Test Command TxFramesCtrlReq process starts
0:18:51.438935	LOG	GPS Time updated: 1385117180033
0:18:51.440922	LOG	PULL_DATA: 02 f85d 02 0016c001ff1025bf
0:18:51.442407	LOG	PULL_ACK: 02 f85d 04
0:19:00.481801	LOG	First uplink received. Open reception window.
0:19:00.586814	LOG	PUSH_ACK: 02 7446 01
0:19:00.588782	LOG	GPS Time from gateway: 1385117189071
0:19:00.589809	LOG	PUSH_DATA: Protocol version = 02, Token = 7446, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3053216805, 'time': '2023-11-27T10:46:10.071874Z', 'tmms': 1385117189071, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3309, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAKwcCpjEg1Mr/YRzMDdI='}]}
0:19:00.591813	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 072b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1ccc0dd2)
0:19:00.593780	LOG	Server <---------- DUT
0:19:00.595779	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 040b, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: b59c035d)
0:19:00.596779	LOG	Frame command sent to the DUT
0:19:00.598284	LOG	PULL_RESP: Protocol version = 02, Token = ff4f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3054216805, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAACwTgTenAnruLRZ4suj6ZUMAORyMrxOvi/MDfACQUT7px3ua3FEGo3YhQbzdUSCiYhxlXUCUftZwDXQ==''}}
0:19:00.600287	LOG	Server ----------> DUT
0:19:00.603310	LOG	Send Test Command TxFramesCtrlReq process completed
0:19:00.606293	LOG	Check previous uplink data rate process starts
0:19:00.611288	LOG	Uplink received with expected Data Rate
0:19:00.614288	LOG	Send Test Command TxFramesCtrlReq process starts
0:19:01.649642	LOG	GPS Time updated: 1385117190240
0:19:01.651642	LOG	PULL_DATA: 02 0c16 02 0016c001ff1025bf
0:19:01.652641	LOG	PULL_ACK: 02 0c16 04
0:19:05.483573	LOG	First uplink received. Open reception window.
0:19:05.594419	LOG	PUSH_ACK: 02 48bb 01

0:19:05.597387	LOG	GPS Time from gateway: 1385117194071
0:19:05.598411	LOG	PUSH_DATA: Protocol version = 02, Token = 48bb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3058216545, 'time': '2023-11-27T10:46:15.071612Z', 'tmms': 1385117194071, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.8, 'foff': -3306, 'rssi': -50, 'size': 20, 'data': 'QAAAAACALAcC18ZB//N5RoLPDnU='}]}
0:19:05.600536	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 072c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 82cf0e75)
0:19:05.601568	LOG	Server <---------- DUT
0:19:05.603536	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 040c, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: d8b1d273)
0:19:05.604569	LOG	Frame command sent to the DUT
0:19:05.606552	LOG	PULL_RESP: Protocol version = 02, Token = 04d9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3059216545, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAADATg8xPB3R2in09+z7abjJT0+yQUlmLwODyOpxfoL02HF7kOSnZBZmsZfRHkDGP5uF0ZMsmI2LHScw==''}}
0:19:05.607567	LOG	Server ----------> DUT
0:19:05.610535	LOG	Send Test Command TxFramesCtrlReq process completed
0:19:05.613533	LOG	Check previous uplink data rate process starts
0:19:05.618537	LOG	Uplink received with expected Data Rate
0:19:05.621538	LOG	Send Test Command TxFramesCtrlReq process starts
0:19:10.478349	LOG	First uplink received. Open reception window.
0:19:10.588132	LOG	PUSH_ACK: 02 bcaa 01
0:19:10.590135	LOG	GPS Time from gateway: 1385117199071
0:19:10.591137	LOG	PUSH_DATA: Protocol version = 02, Token = bcaa, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3063216282, 'time': '2023-11-27T10:46:20.071349Z', 'tmms': 1385117199071, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.8, 'foff': -3306, 'rssi': -50, 'size': 20, 'data': 'QAAAAACALQcC0ILuoPXwve6YrAo='}]}
0:19:10.593140	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 072d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ee98ac0a)
0:19:10.594139	LOG	Server <---------- DUT
0:19:10.596140	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 040d, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: df09c690)
0:19:10.597139	LOG	Frame command sent to the DUT
0:19:10.598645	LOG	PULL_RESP: Protocol version = 02, Token = 4643, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3064216282, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAADQTgEzeZFivihbPlyh4JPuIc83xMLDg+RJLPU4CkDhGoH/VFO6uplBO10547kIjSWMODWa243wnGkA==''}}
0:19:10.600683	LOG	Server ----------> DUT
0:19:10.603650	LOG	Send Test Command TxFramesCtrlReq process completed
0:19:10.606651	LOG	Check previous uplink data rate process starts
0:19:10.610686	LOG	Uplink received with expected Data Rate
0:19:10.614649	LOG	Send Test Command TxFramesCtrlReq process starts
0:19:11.859239	LOG	GPS Time updated: 1385117200452
0:19:11.860239	LOG	PULL_DATA: 02 7882 02 0016c001ff1025bf
0:19:11.862241	LOG	PULL_ACK: 02 7882 04
0:19:15.485573	LOG	First uplink received. Open reception window.

0:19:15.588050	LOG	PUSH_ACK: 02 9dc1 01
0:19:15.590016	LOG	GPS Time from gateway: 1385117204070
0:19:15.591016	LOG	PUSH_DATA: Protocol version = 02, Token = 9dc1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3068216029, 'time': '2023-11-27T10:46:25.071094Z', 'tmms': 1385117204070, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3307, 'rssi': -49, 'size': 20, 'data': 'QAAAAACALgcCe4yk8l+t6Evzr2c='}]}
0:19:15.593022	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 072e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4bf3af67)
0:19:15.594022	LOG	Server <---------- DUT
0:19:15.596022	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 040e, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 08db769f)
0:19:15.597022	LOG	Frame command sent to the DUT
0:19:15.599530	LOG	PULL_RESP: Protocol version = 02, Token = 6240, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3069216029, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAADgTg0rWMy22KkOwv0ABSx6QsIADNx9v/qqZ/9DLqmnikAczcHx/mOIkWZPLWKyaH0pdRpXo0CNt2nw==''}}
0:19:15.600531	LOG	Server ----------> DUT
0:19:15.602531	LOG	Send Test Command TxFramesCtrlReq process completed
0:19:15.605563	LOG	Check previous uplink data rate process starts
0:19:15.610529	LOG	Uplink received with expected Data Rate
0:19:15.613530	LOG	Send Test Command TxFramesCtrlReq process starts
0:19:20.483431	LOG	First uplink received. Open reception window.
0:19:20.587160	LOG	PUSH_ACK: 02 05c5 01
0:19:20.589129	LOG	GPS Time from gateway: 1385117209070
0:19:20.591129	LOG	PUSH_DATA: Protocol version = 02, Token = 05c5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3073215765, 'time': '2023-11-27T10:46:30.070828Z', 'tmms': 1385117209070, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3307, 'rssi': -49, 'size': 20, 'data': 'QAAAAACALwcCEGTcZEGVePEXcoU='}]}
0:19:20.592134	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 072f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f1177285)
0:19:20.594135	LOG	Server <---------- DUT
0:19:20.596172	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 040f, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: df0d83b1)
0:19:20.597138	LOG	Frame command sent to the DUT
0:19:20.599652	LOG	PULL_RESP: Protocol version = 02, Token = 57df, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3074215765, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAADwTgJrcNs2BV6dLvk/gUBwN+wrVP/4dpTyn72b7PE3ePjBHwtMLPao/+w9L5DraWOBVuo7Te3w2DsQ==''}}
0:19:20.601649	LOG	Server ----------> DUT
0:19:20.604651	LOG	Send Test Command TxFramesCtrlReq process completed
0:19:20.607651	LOG	Check previous uplink data rate process starts
0:19:20.612649	LOG	Uplink received with expected Data Rate
0:19:20.616656	LOG	Send Test Command TxFramesCtrlReq process starts
0:19:22.068485	LOG	GPS Time updated: 1385117210655
0:19:22.070484	LOG	PULL_DATA: 02 4697 02 0016c001ff1025bf
0:19:22.071488	LOG	PULL_ACK: 02 4697 04

0:19:25.484131	LOG	First uplink received. Open reception window.
0:19:25.591835	LOG	PUSH_ACK: 02 c798 01
0:19:25.593836	LOG	GPS Time from gateway: 1385117214070
0:19:25.594838	LOG	PUSH_DATA: Protocol version = 02, Token = c798, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3078215540, 'time': '2023-11-27T10:46:35.070605Z', 'tmms': 1385117214070, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3306, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAMAcCIWLR/8zysE6fs3g='}]}
0:19:25.596841	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0730, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4e9fb378)
0:19:25.598345	LOG	Server <---------- DUT
0:19:25.599349	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0410, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: e3026a54)
0:19:25.601383	LOG	Frame command sent to the DUT
0:19:25.602384	LOG	PULL_RESP: Protocol version = 02, Token = b51a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3079215540, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAEATg1triXuGEBo7q1ASTaqT4E76zn53gS9vxczhbkWW4CG1O9t7TDf9R8++/zeZE/NDoVX7o4wJqVA==''}}
0:19:25.604349	LOG	Server ----------> DUT
0:19:25.606383	LOG	Send Test Command TxFramesCtrlReq process completed
0:19:25.609382	LOG	Check previous uplink data rate process starts
0:19:25.614362	LOG	Uplink received with expected Data Rate
0:19:25.617403	LOG	Send Test Command TxFramesCtrlReq process starts
0:19:30.478306	LOG	First uplink received. Open reception window.
0:19:30.586382	LOG	PUSH_ACK: 02 1541 01
0:19:30.587889	LOG	GPS Time from gateway: 1385117219070
0:19:30.589904	LOG	PUSH_DATA: Protocol version = 02, Token = 1541, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3083215279, 'time': '2023-11-27T10:46:40.070343Z', 'tmms': 1385117219070, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3302, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAMQcCpjHAc6U6/WrnzYE='}]}
0:19:30.590889	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0731, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6ae7cd81)
0:19:30.592894	LOG	Server <---------- DUT
0:19:30.594895	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0411, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 806fc0bd)
0:19:30.595926	LOG	Frame command sent to the DUT
0:19:30.596894	LOG	PULL_RESP: Protocol version = 02, Token = d6f3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3084215279, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAEQTgVpOJsOD5EqhVeWEnWMTyzZoVdmbh7xyh0SLS6HAULT1hBtBeQAVQAR7lXsM3a17sMjSGgG/AvQ==''}}
0:19:30.598431	LOG	Server ----------> DUT
0:19:30.601435	LOG	Send Test Command TxFramesCtrlReq process completed
0:19:30.604434	LOG	Check previous uplink data rate process starts
0:19:30.609445	LOG	Uplink received with expected Data Rate
0:19:30.613434	LOG	Send Test Command TxFramesCtrlReq process starts
0:19:32.278749	LOG	GPS Time updated: 1385117220870
0:19:32.280717	LOG	PULL_DATA: 02 ecc2 02 0016c001ff1025bf

0:19:32.281717	LOG	PULL_ACK: 02 ecc2 04
0:19:35.479356	LOG	First uplink received. Open reception window.
0:19:35.582427	LOG	PUSH_ACK: 02 ef6f 01
0:19:35.584465	LOG	GPS Time from gateway: 1385117224069
0:19:35.585464	LOG	PUSH_DATA: Protocol version = 02, Token = ef6f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3088215059, 'time': '2023-11-27T10:46:45.070122Z', 'tmms': 1385117224069, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3304, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAMgcCa2txKROg9qRwH1k='}]}
0:19:35.587432	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0732, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a4701f59)
0:19:35.588469	LOG	Server <---------- DUT
0:19:35.590431	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0412, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 12b74465)
0:19:35.591430	LOG	Frame command sent to the DUT
0:19:35.593432	LOG	PULL_RESP: Protocol version = 02, Token = e34a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3089215059, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAEgTgv1gGBseOXyJ12OAS2CvMoeuHI/0uNKJBDOatF8kp1huD//utZHHGEbFakUc7H278roGFErdEZQ=='}}
0:19:35.594431	LOG	Server ----------> DUT
0:19:35.597443	LOG	Send Test Command TxFramesCtrlReq process completed
0:19:35.600949	LOG	Check previous uplink data rate process starts
0:19:35.604981	LOG	Uplink received with expected Data Rate
0:19:35.608947	LOG	Send Test Command TxFramesCtrlReq process starts
0:19:40.474441	LOG	First uplink received. Open reception window.
0:19:40.576873	LOG	PUSH_ACK: 02 7063 01
0:19:40.578870	LOG	GPS Time from gateway: 1385117229069
0:19:40.579870	LOG	PUSH_DATA: Protocol version = 02, Token = 7063, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3093214808, 'time': '2023-11-27T10:46:50.069870Z', 'tmms': 1385117229069, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.0, 'foff': -3297, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAMwcCqpj4a2yMeXJejHY='}]}
0:19:40.581851	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0733, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 725e8c76)
0:19:40.582836	LOG	Server <---------- DUT
0:19:40.584839	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0413, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c0c4de2d)
0:19:40.586839	LOG	Frame command sent to the DUT
0:19:40.587840	LOG	PULL_RESP: Protocol version = 02, Token = 0bce, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3094214808, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAEwTgrTwPpJmp0nIWti5h7IOTC3Ul7pQ2xkn+gB6b914I1DQZPJcAd80A6ndoXdLbDildbqvRwMTeLQ=='}}
0:19:40.589839	LOG	Server ----------> DUT
0:19:40.591839	LOG	Send Test Command TxFramesCtrlReq process completed
0:19:40.595842	LOG	Check previous uplink data rate process starts
0:19:40.601356	LOG	Uplink received with expected Data Rate
0:19:40.605384	LOG	Send Test Command TxFramesCtrlReq process starts
0:19:42.478765	LOG	GPS Time updated: 1385117231073

0:19:42.479766	LOG	PULL_DATA: 02 b57c 02 0016c001ff1025bf
0:19:42.481768	LOG	PULL_ACK: 02 b57c 04
0:19:45.481617	LOG	First uplink received. Open reception window.
0:19:45.586975	LOG	PUSH_ACK: 02 7a73 01
0:19:45.588975	LOG	GPS Time from gateway: 1385117234069
0:19:45.589976	LOG	PUSH_DATA: Protocol version = 02, Token = 7a73, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3098214535, 'time': '2023-11-27T10:46:55.069594Z', 'tmms': 1385117234069, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3296, 'rssi': -50, 'size': 20, 'data': 'QAAAAACANAcCH4Hx32n6AZ+tvJw='}]}
0:19:45.591976	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0734, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9fadbc9c)
0:19:45.592977	LOG	Server <---------- DUT
0:19:45.594982	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0414, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 33ab3379)
0:19:45.596976	LOG	Frame command sent to the DUT
0:19:45.598480	LOG	PULL_RESP: Protocol version = 02, Token = 19fc, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3099214535, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAFATg13bGi/BQG7Tgjc1ZMBBrTyl58pQHw2UvVxIxYhS4unD0Hi/2lztP8tn1Mo7DU2cSPHdRM6szeQ=='}}
0:19:45.599486	LOG	Server ----------> DUT
0:19:45.602485	LOG	Send Test Command TxFramesCtrlReq process completed
0:19:45.605485	LOG	Check previous uplink data rate process starts
0:19:45.610487	LOG	Uplink received with expected Data Rate
0:19:45.614485	LOG	Send Test Command TxFramesCtrlReq process starts
0:19:50.475761	LOG	First uplink received. Open reception window.
0:19:50.577135	LOG	PUSH_ACK: 02 f6c2 01
0:19:50.579102	LOG	GPS Time from gateway: 1385117239069
0:19:50.580607	LOG	PUSH_DATA: Protocol version = 02, Token = f6c2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3103214323, 'time': '2023-11-27T10:47:00.069383Z', 'tmms': 1385117239069, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3294, 'rssi': -50, 'size': 20, 'data': 'QAAAAACANQcCXzSFTCO59DAslFM='}]}
0:19:50.581647	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0735, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 302c9453)
0:19:50.583620	LOG	Server <---------- DUT
0:19:50.585625	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0415, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 6ce6b006)
0:19:50.586625	LOG	Frame command sent to the DUT
0:19:50.588657	LOG	PULL_RESP: Protocol version = 02, Token = 0d63, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3104214323, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAFQTg6EErpYW6Lp105GX9xtyXvSHWnF2ugCcCp+BkzlhDrT2pFkjbVGzZf6Z+OXrnZGKqdlRGbOawBg=='}}
0:19:50.589658	LOG	Server ----------> DUT
0:19:50.592627	LOG	Send Test Command TxFramesCtrlReq process completed
0:19:50.595624	LOG	Check previous uplink data rate process starts
0:19:50.599788	LOG	Uplink received with expected Data Rate
0:19:50.604902	LOG	Send Test Command TxFramesCtrlReq process starts

0:19:52.689463	LOG	GPS Time updated: 1385117241283
0:19:52.690463	LOG	PULL_DATA: 02 6da7 02 0016c001ff1025bf
0:19:52.692464	LOG	PULL_ACK: 02 6da7 04
0:19:55.476732	LOG	First uplink received. Open reception window.
0:19:55.587469	LOG	PUSH_ACK: 02 340a 01
0:19:55.589436	LOG	GPS Time from gateway: 1385117244068
0:19:55.590435	LOG	PUSH_DATA: Protocol version = 02, Token = 340a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3108214062, 'time': '2023-11-27T10:47:05.069121Z', 'tmms': 1385117244068, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.0, 'foff': -3292, 'rssi': -50, 'size': 20, 'data': 'QAAAAACANgcC3HYRgUKjxa1NtoI='}]}
0:19:55.592441	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0736, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ad4db682)
0:19:55.593439	LOG	Server <---------- DUT
0:19:55.595441	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0416, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: fcc59db2)
0:19:55.596439	LOG	Frame command sent to the DUT
0:19:55.598440	LOG	PULL_RESP: Protocol version = 02, Token = 6d53, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3109214062, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAFgTgaBch1097SOjZMofsi2Y0DnBw1AEizDwOiZOwp6jgq51vWLdAlMNrUNFB86cM+rGhE43E/MWdsg=='}}
0:19:55.599950	LOG	Server ----------> DUT
0:19:55.601949	LOG	Send Test Command TxFramesCtrlReq process completed
0:19:55.604950	LOG	Check previous uplink data rate process starts
0:19:55.609951	LOG	Uplink received with expected Data Rate
0:19:55.612984	LOG	Send Test Command TxFramesCtrlReq process starts
0:20:00.477903	LOG	First uplink received. Open reception window.
0:20:00.593391	LOG	PUSH_ACK: 02 cfaf 01
0:20:00.595395	LOG	GPS Time from gateway: 1385117249068
0:20:00.596417	LOG	PUSH_DATA: Protocol version = 02, Token = cfaf, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3113213795, 'time': '2023-11-27T10:47:10.068853Z', 'tmms': 1385117249068, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3290, 'rssi': -49, 'size': 20, 'data': 'QAAAAACANwcCX1FKfFVHMzsbbS8='}]}
0:20:00.598359	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0737, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3b1b6d2f)
0:20:00.599481	LOG	Server <---------- DUT
0:20:00.601485	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0417, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 22e5416b)
0:20:00.603476	LOG	Frame command sent to the DUT
0:20:00.604483	LOG	PULL_RESP: Protocol version = 02, Token = 732a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3114213795, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAFwTgMikCa1BnbQ2jNjvleKHDrCgjF0ThmcrmVqobxxnPOcnRCv26A+iTmgX0eMPyY+flTbpiIuVBaw=='}}
0:20:00.605481	LOG	Server ----------> DUT
0:20:00.608454	LOG	Send Test Command TxFramesCtrlReq process completed
0:20:00.611450	LOG	Check previous uplink data rate process starts
0:20:00.615496	LOG	Uplink received with expected Data Rate

0:20:00.619513	LOG	Send Test Command TxFramesCtrlReq process starts
0:20:02.698940	LOG	GPS Time updated: 1385117251289
0:20:02.700571	LOG	PULL_DATA: 02 d196 02 0016c001ff1025bf
0:20:02.702203	LOG	PULL_ACK: 02 d196 04
0:20:05.475418	LOG	First uplink received. Open reception window.
0:20:05.577020	LOG	PUSH_ACK: 02 471a 01
0:20:05.579054	LOG	GPS Time from gateway: 1385117254068
0:20:05.580022	LOG	PUSH_DATA: Protocol version = 02, Token = 471a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3118213535, 'time': '2023-11-27T10:47:15.068592Z', 'tmms': 1385117254068, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3285, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAOAcCAzpEKL+FufHtK+g='}]}
0:20:05.582026	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0738, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f1ed2be8)
0:20:05.583026	LOG	Server <---------- DUT
0:20:05.585027	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0418, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 91e3e83c)
0:20:05.586062	LOG	Frame command sent to the DUT
0:20:05.588027	LOG	PULL_RESP: Protocol version = 02, Token = ac79, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3119213535, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAGATgN7QYn9Dc+mGIgfeoY+HKRg2lfuYtdtRa3MVjiv/QXnUI0Ym1bUGdE+dnb5LNSHjcvtmbkePoPA=='}}
0:20:05.589059	LOG	Server ----------> DUT
0:20:05.592066	LOG	Send Test Command TxFramesCtrlReq process completed
0:20:05.594025	LOG	Check previous uplink data rate process starts
0:20:05.599037	LOG	Uplink received with expected Data Rate
0:20:05.602041	LOG	Send Test Command TxFramesCtrlReq process starts
0:20:10.472415	LOG	First uplink received. Open reception window.
0:20:10.583430	LOG	PUSH_ACK: 02 415d 01
0:20:10.585435	LOG	GPS Time from gateway: 1385117259068
0:20:10.586435	LOG	PUSH_DATA: Protocol version = 02, Token = 415d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3123213285, 'time': '2023-11-27T10:47:20.068341Z', 'tmms': 1385117259068, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.0, 'foff': -3285, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAOQcCZxSxUoioaMTMVHw='}]}
0:20:10.587434	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0739, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c4cc547c)
0:20:10.589439	LOG	Server <---------- DUT
0:20:10.591439	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0419, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 61fae5d5)
0:20:10.592439	LOG	Frame command sent to the DUT
0:20:10.594438	LOG	PULL_RESP: Protocol version = 02, Token = 9fe5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3124213285, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAGQTgpJkFQZJneUincdtxmYEc2FzwlfY8RSJjW4fLDQOMWOzzhLCr4TD/AZe8wkgIXgMNYJs7Yfrl1Q=='}}
0:20:10.595439	LOG	Server ----------> DUT
0:20:10.597439	LOG	Send Test Command TxFramesCtrlReq process completed
0:20:10.600982	LOG	Check previous uplink data rate process starts

0:20:10.605982	LOG	Uplink received with expected Data Rate
0:20:10.609981	LOG	Send Test Command TxFramesCtrlReq process starts
0:20:12.898132	LOG	GPS Time updated: 1385117261495
0:20:12.900130	LOG	PULL_DATA: 02 5c4a 02 0016c001ff1025bf
0:20:12.902131	LOG	PULL_ACK: 02 5c4a 04
0:20:15.478701	LOG	First uplink received. Open reception window.
0:20:15.593310	LOG	PUSH_ACK: 02 4448 01
0:20:15.595344	LOG	GPS Time from gateway: 1385117264067
0:20:15.596331	LOG	PUSH_DATA: Protocol version = 02, Token = 4448, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3128213024, 'time': '2023-11-27T10:47:25.068078Z', 'tmms': 1385117264067, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3287, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAOgcCVWz4wnc+cvzdLWI='}]}
0:20:15.597345	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 073a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fcdd2d62)
0:20:15.599822	LOG	Server <---------- DUT
0:20:15.601820	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 041a, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 8c4aa295)
0:20:15.602819	LOG	Frame command sent to the DUT
0:20:15.604819	LOG	PULL_RESP: Protocol version = 02, Token = f9f9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3129213024, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAGgTgKDWY23TpEuWW2Rv4BAsVCC/Qv9te82WC3O4VdLhVf5TyidPbw/MD37gbRLWxmakuxqePjEqilQ=='}}
0:20:15.606327	LOG	Server ----------> DUT
0:20:15.608326	LOG	Send Test Command TxFramesCtrlReq process completed
0:20:15.611327	LOG	Check previous uplink data rate process starts
0:20:15.616333	LOG	Uplink received with expected Data Rate
0:20:15.620331	LOG	Send Test Command TxFramesCtrlReq process starts
0:20:20.479043	LOG	First uplink received. Open reception window.
0:20:20.591333	LOG	PUSH_ACK: 02 0c33 01
0:20:20.593299	LOG	GPS Time from gateway: 1385117269067
0:20:20.595301	LOG	PUSH_DATA: Protocol version = 02, Token = 0c33, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3133212770, 'time': '2023-11-27T10:47:30.067825Z', 'tmms': 1385117269067, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3288, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAOwcC/XQPuz9lyfr2Rbo='}]}
0:20:20.596334	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 073b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: faf645ba)
0:20:20.597302	LOG	Server <---------- DUT
0:20:20.599846	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 041b, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: f3548916)
0:20:20.601879	LOG	Frame command sent to the DUT
0:20:20.603879	LOG	PULL_RESP: Protocol version = 02, Token = 3315, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3134212770, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAGwTgr1Cc2I+VLnnHwDvODT4n/vDtHjYYeEYC3aFgGlxFd2YiD/RUS09o5sUCBEaobUXlNd/O81SJFg=='}}
0:20:20.604880	LOG	Server ----------> DUT
0:20:20.607847	LOG	Send Test Command TxFramesCtrlReq process completed

0:20:20.609879	LOG	Check previous uplink data rate process starts
0:20:20.614443	LOG	Uplink received with expected Data Rate
0:20:20.618484	LOG	Send Test Command TxFramesCtrlReq process starts
0:20:22.908091	LOG	GPS Time updated: 1385117271496
0:20:22.910090	LOG	PULL_DATA: 02 966d 02 0016c001ff1025bf
0:20:22.911626	LOG	PULL_ACK: 02 966d 04
0:20:25.472168	LOG	First uplink received. Open reception window.
0:20:25.579975	LOG	PUSH_ACK: 02 f910 01
0:20:25.581976	LOG	GPS Time from gateway: 1385117274067
0:20:25.582978	LOG	PUSH_DATA: Protocol version = 02, Token = f910, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3138212506, 'time': '2023-11-27T10:47:35.067560Z', 'tmms': 1385117274067, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3292, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAPAcCQ72jk51eP4uYeZ4='}]}
0:20:25.584988	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 073c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8b98799e)
0:20:25.585987	LOG	Server <---------- DUT
0:20:25.587989	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 041c, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: e25fdc08)
0:20:25.589019	LOG	Frame command sent to the DUT
0:20:25.591019	LOG	PULL_RESP: Protocol version = 02, Token = a808, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3139212506, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAHATgE5LjniPhVyd7tEgqMY74gUuEOQN8p8E0iHFydTy2NzzIoFOse9ggZNZW+fFkmkvKWTaC4l/cCA=='}}
0:20:25.592020	LOG	Server ----------> DUT
0:20:25.595020	LOG	Send Test Command TxFramesCtrlReq process completed
0:20:25.596987	LOG	Check previous uplink data rate process starts
0:20:25.602504	LOG	Uplink received with expected Data Rate
0:20:25.605504	LOG	Send Test Command TxFramesCtrlReq process starts
0:20:30.480462	LOG	First uplink received. Open reception window.
0:20:30.589443	LOG	PUSH_ACK: 02 a140 01
0:20:30.591411	LOG	GPS Time from gateway: 1385117279066
0:20:30.593416	LOG	PUSH_DATA: Protocol version = 02, Token = a140, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3143212249, 'time': '2023-11-27T10:47:40.067302Z', 'tmms': 1385117279066, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3292, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAPQcCMdNjzSmJ1XGaD8I='}]}
0:20:30.594410	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 073d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 719a0fc2)
0:20:30.596443	LOG	Server <---------- DUT
0:20:30.598916	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 041d, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 6c8fcd9a)
0:20:30.600923	LOG	Frame command sent to the DUT
0:20:30.601922	LOG	PULL_RESP: Protocol version = 02, Token = a276, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3144212249, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAHQTgXeed6+Bhgwl+PT7wF+PRq2xDIqC9CFijnHZxYQHb8mq0Z7mGsybeMk4Ut/tKAwuIan4jbI/Nmg=='}}
0:20:30.603922	LOG	Server ----------> DUT

0:20:30.607933	LOG	Send Test Command TxFramesCtrlReq process completed
0:20:30.610930	LOG	Check previous uplink data rate process starts
0:20:30.615931	LOG	Uplink received with expected Data Rate
0:20:30.618927	LOG	Send Test Command TxFramesCtrlReq process starts
0:20:33.118008	LOG	GPS Time updated: 1385117281704
0:20:33.120009	LOG	PULL_DATA: 02 b7d5 02 0016c001ff1025bf
0:20:33.121979	LOG	PULL_ACK: 02 b7d5 04
0:20:35.472468	LOG	First uplink received. Open reception window.
0:20:35.579651	LOG	PUSH_ACK: 02 4a1f 01
0:20:35.581651	LOG	GPS Time from gateway: 1385117284066
0:20:35.582652	LOG	PUSH_DATA: Protocol version = 02, Token = 4a1f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3148212002, 'time': '2023-11-27T10:47:45.067055Z', 'tmms': 1385117284066, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3294, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAPgcCDFw1MebTK+KyozY='}]}
0:20:35.584657	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 073e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e2b2a336)
0:20:35.585655	LOG	Server <---------- DUT
0:20:35.587688	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 041e, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 1519e343)
0:20:35.588687	LOG	Frame command sent to the DUT
0:20:35.590698	LOG	PULL_RESP: Protocol version = 02, Token = 116c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3149212002, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAHgTgOXCrGR7XRm1B6LSjyCnnoNb2czLo6P6L9u/TB46ebQMS6H9+DNzGt+r5S1q0OYKLs8QwFRnjQw==''}}
0:20:35.591688	LOG	Server ----------> DUT
0:20:35.594655	LOG	Send Test Command TxFramesCtrlReq process completed
0:20:35.597657	LOG	Check previous uplink data rate process starts
0:20:35.602198	LOG	Uplink received with expected Data Rate
0:20:35.606176	LOG	Send Test Command TxFramesCtrlReq process starts
0:20:40.475134	LOG	First uplink received. Open reception window.
0:20:40.582651	LOG	PUSH_ACK: 02 0e1a 01
0:20:40.584622	LOG	GPS Time from gateway: 1385117289066
0:20:40.585622	LOG	PUSH_DATA: Protocol version = 02, Token = 0e1a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3153211730, 'time': '2023-11-27T10:47:50.066781Z', 'tmms': 1385117289066, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3293, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAPwcCuluZxcZLxLdjOAY='}]}
0:20:40.587627	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 073f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b7633806)
0:20:40.588627	LOG	Server <---------- DUT
0:20:40.590628	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 041f, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 72134842)
0:20:40.591626	LOG	Frame command sent to the DUT
0:20:40.593627	LOG	PULL_RESP: Protocol version = 02, Token = 3953, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3154211730, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAHwTgBwwnwDseIHdQQZclL3VviLiL0C6AJdvF8aduQEtPIRCu44rUr+aAkeeEADlZGmspRMIfchNIQg==''}}

0:20:40.594627	LOG	Server ----------> DUT
0:20:40.597643	LOG	Send Test Command TxFramesCtrlReq process completed
0:20:40.600140	LOG	Check previous uplink data rate process starts
0:20:40.605143	LOG	Uplink received with expected Data Rate
0:20:40.609142	LOG	Send Test Command TxFramesCtrlReq process starts
0:20:43.318706	LOG	GPS Time updated: 1385117291908
0:20:43.319674	LOG	PULL_DATA: 02 b016 02 0016c001ff1025bf
0:20:43.321675	LOG	PULL_ACK: 02 b016 04
0:20:45.477926	LOG	First uplink received. Open reception window.
0:20:45.586860	LOG	PUSH_ACK: 02 faf2 01
0:20:45.588826	LOG	GPS Time from gateway: 1385117294066
0:20:45.589864	LOG	PUSH_DATA: Protocol version = 02, Token = faf2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3158211475, 'time': '2023-11-27T10:47:55.066524Z', 'tmms': 1385117294066, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3292, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAQAcC3lfCYGqb3qko0k4='}]}
0:20:45.591827	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0740, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a928d24e)
0:20:45.592825	LOG	Server <---------- DUT
0:20:45.594826	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0420, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 3f155705)
0:20:45.596825	LOG	Frame command sent to the DUT
0:20:45.597870	LOG	PULL_RESP: Protocol version = 02, Token = 7232, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3159211475, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAIATgP0kbu6Wnm1PQ/gd7xyHyUHWU1x/Qy/kSOlyAhBuCbLfvWKBK9f/nmcvM+3KD7/sBF3NHPxVXBQ==''}}
0:20:45.599985	LOG	Server ----------> DUT
0:20:45.602951	LOG	Send Test Command TxFramesCtrlReq process completed
0:20:45.605950	LOG	Check previous uplink data rate process starts
0:20:45.609952	LOG	Uplink received with expected Data Rate
0:20:45.613952	LOG	Send Test Command TxFramesCtrlReq process starts
0:20:50.477521	LOG	First uplink received. Open reception window.
0:20:50.585270	LOG	PUSH_ACK: 02 7356 01
0:20:50.587236	LOG	GPS Time from gateway: 1385117299065
0:20:50.588235	LOG	PUSH_DATA: Protocol version = 02, Token = 7356, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3163211219, 'time': '2023-11-27T10:48:00.066270Z', 'tmms': 1385117299065, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3290, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAQQcCQBi0GsWM9WPMeCI='}]}
0:20:50.590241	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0741, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 63cc7822)
0:20:50.591240	LOG	Server <---------- DUT
0:20:50.593256	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0421, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: f654789f)
0:20:50.595239	LOG	Frame command sent to the DUT
0:20:50.596240	LOG	PULL_RESP: Protocol version = 02, Token = 9027, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3164211219, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data':

		'YAAAAAAAIQTgQiE9QPyrQb7i2fQ8v5VQ1RIc+Clu/fBqzcYLu1yTdaOiG1lhqPcSO3GpojjiaDvhldss9lR4nw==''}}
0:20:50.597240	LOG	Server ----------> DUT
0:20:50.600750	LOG	Send Test Command TxFramesCtrlReq process completed
0:20:50.603749	LOG	Check previous uplink data rate process starts
0:20:50.608749	LOG	Uplink received with expected Data Rate
0:20:50.612749	LOG	Send Test Command TxFramesCtrlReq process starts
0:20:53.328043	LOG	GPS Time updated: 1385117301916
0:20:53.330044	LOG	PULL_DATA: 02 3cb7 02 0016c001ff1025bf
0:20:53.331044	LOG	PULL_ACK: 02 3cb7 04
0:20:55.470926	LOG	#**********CURRENT BEACON SENT**********#
0:20:55.472926	LOG	PULL_RESP: Protocol version = 02, Token = db5f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385117312000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACANo9SLNsAAAAAAAAAAA='}}
0:20:55.474471	LOG	Server ----------> DUT
0:20:55.476470	LOG	#**********#
0:20:55.485502	LOG	#**********NEXT BEACON QUEUED**********#
0:20:55.487505	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385117440000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAN49SJDEAAAAAAAAAAA='}}
0:20:55.488500	LOG	Server ----------> DUT
0:20:55.489507	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 00378f52, CRC1: 2431, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385117440000
0:20:55.491511	LOG	#**********#
0:20:55.492510	LOG	Next BEACON scheduled at GPS time (ms): 1385117568000
0:20:55.494511	LOG	First uplink received. Open reception window.
0:20:55.495546	LOG	TX_ACK: 02 db5f 05 0016c001ff1025bf
0:20:55.604451	LOG	PUSH_ACK: 02 9e48 01
0:20:55.606502	LOG	GPS Time from gateway: 1385117304065
0:20:55.607501	LOG	PUSH_DATA: Protocol version = 02, Token = 9e48, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3168210959, 'time': '2023-11-27T10:48:05.066008Z', 'tmms': 1385117304065, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3283, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAQgcCV89ppPPRagTPWlA='}]}
0:20:55.609469	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0742, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 04cf5a50)
0:20:55.610502	LOG	Server <---------- DUT
0:20:55.612501	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0422, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 25737863)
0:20:55.613503	LOG	Frame command sent to the DUT
0:20:55.615516	LOG	PULL_RESP: Protocol version = 02, Token = 357b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3169210959, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAIgTg9dGzplsaFJs0hhikZntrAWaPT/kVfv7Q6cTbRVt6iU1Qmv5LMrXtolb+scowPP5ScmcsJXN4Yw==''}}
0:20:55.616510	LOG	Server ----------> DUT

0:20:55.620509	LOG	Send Test Command TxFramesCtrlReq process completed
0:20:55.622518	LOG	Check previous uplink data rate process starts
0:20:55.627464	LOG	Uplink received with expected Data Rate
0:20:55.630046	LOG	Send Test Command TxFramesCtrlReq process starts
0:21:00.470220	LOG	First uplink received. Open reception window.
0:21:00.581691	LOG	PUSH_ACK: 02 c480 01
0:21:00.583692	LOG	GPS Time from gateway: 1385117309065
0:21:00.584732	LOG	PUSH_DATA: Protocol version = 02, Token = c480, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3173210700, 'time': '2023-11-27T10:48:10.065749Z', 'tmms': 1385117309065, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3283, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAQwcCqMO8jLICnuOSKVo='}]}
0:21:00.586699	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0743, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e392295a)
0:21:00.587696	LOG	Server <---------- DUT
0:21:00.589732	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0423, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 2b72ff76)
0:21:00.591710	LOG	Frame command sent to the DUT
0:21:00.592696	LOG	PULL_RESP: Protocol version = 02, Token = 548b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3174210700, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAIwTgyUAkLn8BneZ1K/7LvGp9IVDYNacJaeKKIB6yYGuidxPD7Na80gVKlE4K1udaMl5fyNDrK3L/dg==''}}
0:21:00.593696	LOG	Server ----------> DUT
0:21:00.596695	LOG	Send Test Command TxFramesCtrlReq process completed
0:21:00.600833	LOG	Check previous uplink data rate process starts
0:21:00.604850	LOG	Uplink received with expected Data Rate
0:21:00.608832	LOG	Send Test Command TxFramesCtrlReq process starts
0:21:03.528385	LOG	GPS Time updated: 1385117312123
0:21:03.529385	LOG	PULL_DATA: 02 c3bd 02 0016c001ff1025bf
0:21:03.531414	LOG	PULL_ACK: 02 c3bd 04
0:21:05.475288	LOG	First uplink received. Open reception window.
0:21:05.589704	LOG	PUSH_ACK: 02 91a3 01
0:21:05.591697	LOG	GPS Time from gateway: 1385117314065
0:21:05.592669	LOG	PUSH_DATA: Protocol version = 02, Token = 91a3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3178210474, 'time': '2023-11-27T10:48:15.065522Z', 'tmms': 1385117314065, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3281, 'rssi': -49, 'size': 20, 'data': 'QAAAAACARAcChN37NmTyFQuLi9E='}]}
0:21:05.594681	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0744, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0b8b8bd1)
0:21:05.595668	LOG	Server <---------- DUT
0:21:05.597670	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0424, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 4267dfa6)
0:21:05.599242	LOG	Frame command sent to the DUT
0:21:05.600280	LOG	PULL_RESP: Protocol version = 02, Token = 3c76, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3179210474, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAJATgh+nEKdPm5Zy50I7frc8FNKLRIjn0MOlaMngDrcJoo1KKxNPL/Ec0/XGFx1ZztQCaMyoNQmffpg==''}}

0:21:05.602249	LOG	Server ----------> DUT
0:21:05.605248	LOG	Send Test Command TxFramesCtrlReq process completed
0:21:05.608281	LOG	Check previous uplink data rate process starts
0:21:05.612277	LOG	Uplink received with expected Data Rate
0:21:05.616256	LOG	Send Test Command TxFramesCtrlReq process starts
0:21:10.469938	LOG	First uplink received. Open reception window.
0:21:10.572460	LOG	PUSH_ACK: 02 ac64 01
0:21:10.574429	LOG	GPS Time from gateway: 1385117319064
0:21:10.575428	LOG	PUSH_DATA: Protocol version = 02, Token = ac64, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3183210218, 'time': '2023-11-27T10:48:20.065264Z', 'tmms': 1385117319064, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3277, 'rssi': -49, 'size': 20, 'data': 'QAAAAACARQcCMTyDIup6eI5cvBk='}]}
0:21:10.577428	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0745, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8e5cbc19)
0:21:10.578454	LOG	Server <---------- DUT
0:21:10.580430	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0425, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 3db1333c)
0:21:10.582464	LOG	Frame command sent to the DUT
0:21:10.583466	LOG	PULL_RESP: Protocol version = 02, Token = 49f8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3184210218, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAJQTgSJZ5SEZB6lXXpEGg6+jxtg+4MqttRR6h+3nLXnbavuBdyUFg71VUqdSAMgxUrRVYXIxlPbEzPA==''}}
0:21:10.585504	LOG	Server ----------> DUT
0:21:10.588471	LOG	Send Test Command TxFramesCtrlReq process completed
0:21:10.591473	LOG	Check previous uplink data rate process starts
0:21:10.595472	LOG	Uplink received with expected Data Rate
0:21:10.599643	LOG	Send Test Command TxFramesCtrlReq process starts
0:21:13.728350	LOG	GPS Time updated: 1385117322323
0:21:13.729351	LOG	PULL_DATA: 02 b34d 02 0016c001ff1025bf
0:21:13.731352	LOG	PULL_ACK: 02 b34d 04
0:21:15.471682	LOG	First uplink received. Open reception window.
0:21:15.576282	LOG	PUSH_ACK: 02 a46a 01
0:21:15.578250	LOG	GPS Time from gateway: 1385117324064
0:21:15.579250	LOG	PUSH_DATA: Protocol version = 02, Token = a46a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3188209969, 'time': '2023-11-27T10:48:25.065013Z', 'tmms': 1385117324064, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3276, 'rssi': -49, 'size': 20, 'data': 'QAAAAACARgcChqYNAXeKSNqjjmk='}]}
0:21:15.581250	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0746, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: daa38e69)
0:21:15.582250	LOG	Server <---------- DUT
0:21:15.584255	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0426, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: b69bfd4d)
0:21:15.586256	LOG	Frame command sent to the DUT
0:21:15.587255	LOG	PULL_RESP: Protocol version = 02, Token = 87ec, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3189209969, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data':

		'YAAAAAAAJgTgXXLSDXlTvPMk3qdplgOb/QyeHH/zeI5eGZLMMOp0zkRVg ZuUb/RWOvhq9fUZOaAQXl8mtpv9TQ==''}}
0:21:15.588255	LOG	Server ----------> DUT
0:21:15.591255	LOG	Send Test Command TxFramesCtrlReq process completed
0:21:15.595255	LOG	Check previous uplink data rate process starts
0:21:15.599781	LOG	Uplink received with expected Data Rate
0:21:15.603765	LOG	Send Test Command TxFramesCtrlReq process starts
0:21:20.469552	LOG	First uplink received. Open reception window.
0:21:20.570572	LOG	PUSH_ACK: 02 22ee 01
0:21:20.572536	LOG	GPS Time from gateway: 1385117329064
0:21:20.573536	LOG	PUSH_DATA: Protocol version = 02, Token = 22ee, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3193209700, 'time': '2023-11-27T10:48:30.064745Z', 'tmms': 1385117329064, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3273, 'rssi': -49, 'size': 20, 'data': 'QAAAAACARwcCXYlgVLAnd4E8isw='}]}
0:21:20.575545	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0747, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 813c8acc)
0:21:20.576536	LOG	Server <---------- DUT
0:21:20.578545	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0427, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 6e96d558)
0:21:20.579535	LOG	Frame command sent to the DUT
0:21:20.581536	LOG	PULL_RESP: Protocol version = 02, Token = e4bf, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3194209700, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAJwTgfThd8Mj3tI4L0A2GeRk4Y7tyZ44wxPmuGL2zsaW1bdqQKrx 74in+syTkWcmbgKCpPArmbpbVWA==''}}
0:21:20.582535	LOG	Server ----------> DUT
0:21:20.585542	LOG	Send Test Command TxFramesCtrlReq process completed
0:21:20.587541	LOG	Check previous uplink data rate process starts
0:21:20.592545	LOG	Uplink received with expected Data Rate
0:21:20.595539	LOG	Send Test Command TxFramesCtrlReq process starts
0:21:23.937670	LOG	GPS Time updated: 1385117332532
0:21:23.939637	LOG	PULL_DATA: 02 8931 02 0016c001ff1025bf
0:21:23.941635	LOG	PULL_ACK: 02 8931 04
0:21:25.474838	LOG	First uplink received. Open reception window.
0:21:25.578344	LOG	PUSH_ACK: 02 0858 01
0:21:25.580344	LOG	GPS Time from gateway: 1385117334064
0:21:25.581347	LOG	PUSH_DATA: Protocol version = 02, Token = 0858, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3198209478, 'time': '2023-11-27T10:48:35.064523Z', 'tmms': 1385117334064, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3270, 'rssi': -49, 'size': 20, 'data': 'QAAAAACASAcCHIL07NudFzIzBKo='}]}
0:21:25.583359	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0748, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 323304aa)
0:21:25.584363	LOG	Server <---------- DUT
0:21:25.586363	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0428, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 25b2bb80)
0:21:25.588404	LOG	Frame command sent to the DUT
0:21:25.589398	LOG	PULL_RESP: Protocol version = 02, Token = 41a3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3199209478, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size':

		64, 'data': 'YAAAAAAAKATgw4r/nX3chaVPSNi9itOgmX/vtRtgja7U0FB9nORWA3XxgN43Rc1WoYk+YwQnRVQGwTuaJbK7gA==''}}
0:21:25.590396	LOG	Server ----------> DUT
0:21:25.593366	LOG	Send Test Command TxFramesCtrlReq process completed
0:21:25.596364	LOG	Check previous uplink data rate process starts
0:21:25.600873	LOG	Uplink received with expected Data Rate
0:21:25.604874	LOG	Send Test Command TxFramesCtrlReq process starts
0:21:30.476997	LOG	First uplink received. Open reception window.
0:21:30.588035	LOG	PUSH_ACK: 02 abe1 01
0:21:30.590072	LOG	GPS Time from gateway: 1385117339063
0:21:30.591071	LOG	PUSH_DATA: Protocol version = 02, Token = abe1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3203209217, 'time': '2023-11-27T10:48:40.064260Z', 'tmms': 1385117339063, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3272, 'rssi': -49, 'size': 20, 'data': 'QAAAAACASQcCKSvTOWTa3z6IcdU='}]}
0:21:30.593038	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0749, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3e8871d5)
0:21:30.594036	LOG	Server <---------- DUT
0:21:30.596037	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0429, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 7feb7b1e)
0:21:30.597036	LOG	Frame command sent to the DUT
0:21:30.599547	LOG	PULL_RESP: Protocol version = 02, Token = 3079, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3204209217, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAKQTgfpceRRxinv7eq6DngHeMRfzTZ0ZOysK46O95aAdAXyv62OpfqW6yxj8g3TOMF+eSjOslf+t7Hg==''}}
0:21:30.600580	LOG	Server ----------> DUT
0:21:30.603547	LOG	Send Test Command TxFramesCtrlReq process completed
0:21:30.606543	LOG	Check previous uplink data rate process starts
0:21:30.610545	LOG	Uplink received with expected Data Rate
0:21:30.614544	LOG	Send Test Command TxFramesCtrlReq process starts
0:21:33.958516	LOG	GPS Time updated: 1385117342544
0:21:33.959519	LOG	PULL_DATA: 02 60e7 02 0016c001ff1025bf
0:21:33.961523	LOG	PULL_ACK: 02 60e7 04
0:21:35.469343	LOG	First uplink received. Open reception window.
0:21:35.578330	LOG	PUSH_ACK: 02 98ff 01
0:21:35.580335	LOG	GPS Time from gateway: 1385117344063
0:21:35.581335	LOG	PUSH_DATA: Protocol version = 02, Token = 98ff, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3208208956, 'time': '2023-11-27T10:48:45.063998Z', 'tmms': 1385117344063, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3273, 'rssi': -49, 'size': 20, 'data': 'QAAAAACASgcCqCdxdXLBxFDXubY='}]}
0:21:35.583336	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 074a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 50d7b9b6)
0:21:35.584341	LOG	Server <---------- DUT
0:21:35.586342	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 042a, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 73a27658)
0:21:35.588342	LOG	Frame command sent to the DUT
0:21:35.589340	LOG	PULL_RESP: Protocol version = 02, Token = 7d5a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3209208956, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF10BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAKgTg/wl8v/ENfMzz/UFikwDfrWLaMjr36ogw/75dO4tW23r8lOSrKami/vfnQwIzWSpkQC6Hc6J2WA==''}}
0:21:35.591342	LOG	Server ----------> DUT
0:21:35.594341	LOG	Send Test Command TxFramesCtrlReq process completed
0:21:35.596823	LOG	Check previous uplink data rate process starts
0:21:35.600865	LOG	Uplink received with expected Data Rate
0:21:35.604911	LOG	Send Test Command TxFramesCtrlReq process starts
0:21:40.480338	LOG	First uplink received. Open reception window.
0:21:40.595221	LOG	PUSH_ACK: 02 2f82 01
0:21:40.597185	LOG	GPS Time from gateway: 1385117349063
0:21:40.598691	LOG	PUSH_DATA: Protocol version = 02, Token = 2f82, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3213208708, 'time': '2023-11-27T10:48:50.063749Z', 'tmms': 1385117349063, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3273, 'rssi': -49, 'size': 20, 'data': 'QAAAAACASwcCoHz+pa0LPtsOo9Y='}]}
0:21:40.599731	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 074b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: db0ea3d6)
0:21:40.600730	LOG	Server <---------- DUT
0:21:40.602696	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 042b, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: b83c1d72)
0:21:40.604694	LOG	Frame command sent to the DUT
0:21:40.605694	LOG	PULL_RESP: Protocol version = 02, Token = 5bc6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3214208708, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAKwTg1vwQBuUGIl9Wkv/HXTtAQXOVs8mKWqgv3Vh79WuGQaBFRbGcRChzcs8r2JQ7ChqSaFw7uDwdcg==''}}
0:21:40.607696	LOG	Server ----------> DUT
0:21:40.609695	LOG	Send Test Command TxFramesCtrlReq process completed
0:21:40.613698	LOG	Check previous uplink data rate process starts
0:21:40.617701	LOG	Uplink received with expected Data Rate
0:21:40.621703	LOG	Send Test Command TxFramesCtrlReq process starts
0:21:43.990708	LOG	GPS Time updated: 1385117352574
0:21:43.992677	LOG	PULL_DATA: 02 55f3 02 0016c001ff1025bf
0:21:43.995681	LOG	PULL_ACK: 02 55f3 04
0:21:45.472347	LOG	First uplink received. Open reception window.
0:21:45.573561	LOG	PUSH_ACK: 02 0218 01
0:21:45.575597	LOG	GPS Time from gateway: 1385117354063
0:21:45.576602	LOG	PUSH_DATA: Protocol version = 02, Token = 0218, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3218208452, 'time': '2023-11-27T10:48:55.063493Z', 'tmms': 1385117354063, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3273, 'rssi': -49, 'size': 20, 'data': 'QAAAAACATAcCbttyTQIzvdpSS9E='}]}
0:21:45.578567	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 074c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: da524bd1)
0:21:45.579564	LOG	Server <---------- DUT
0:21:45.581568	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 042c, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: bdd947d0)
0:21:45.583564	LOG	Frame command sent to the DUT

0:21:45.584598	LOG	PULL_RESP: Protocol version = 02, Token = ddf0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3219208452, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAALATgQ084OU0m+edS4E8FW4O/LKZ9it9B+Ax2Hd1BJzQqpKpIoCzXkryO+LycRlOS4ibH8UR6vdlH0A==''}}
0:21:45.585597	LOG	Server ----------> DUT
0:21:45.589072	LOG	Send Test Command TxFramesCtrlReq process completed
0:21:45.592075	LOG	Check previous uplink data rate process starts
0:21:45.596077	LOG	Uplink received with expected Data Rate
0:21:45.599588	LOG	Send Test Command TxFramesCtrlReq process starts
0:21:50.474931	LOG	First uplink received. Open reception window.
0:21:50.580569	LOG	PUSH_ACK: 02 b193 01
0:21:50.582538	LOG	GPS Time from gateway: 1385117359062
0:21:50.583537	LOG	PUSH_DATA: Protocol version = 02, Token = b193, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3223208187, 'time': '2023-11-27T10:49:00.063228Z', 'tmms': 1385117359062, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3273, 'rssi': -49, 'size': 20, 'data': 'QAAAAACATQcC7ptXYX74uVvuntQ='}]}
0:21:50.585537	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 074d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5bee9ed4)
0:21:50.586537	LOG	Server <---------- DUT
0:21:50.588537	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 042d, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: fd1cc7f0)
0:21:50.589536	LOG	Frame command sent to the DUT
0:21:50.591537	LOG	PULL_RESP: Protocol version = 02, Token = 0eeb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3224208187, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAALQTgoeoIFsePCxG0fcAguPF7Zch2/BKYcgslDRovGx9wPYRxogD0/CsBiK3xEmU8PVyFUMWM/RzH8A==''}}
0:21:50.592536	LOG	Server ----------> DUT
0:21:50.595047	LOG	Send Test Command TxFramesCtrlReq process completed
0:21:50.598047	LOG	Check previous uplink data rate process starts
0:21:50.602594	LOG	Uplink received with expected Data Rate
0:21:50.606557	LOG	Send Test Command TxFramesCtrlReq process starts
0:21:54.158274	LOG	GPS Time updated: 1385117362746
0:21:54.160242	LOG	PULL_DATA: 02 bb5d 02 0016c001ff1025bf
0:21:54.161748	LOG	PULL_ACK: 02 bb5d 04
0:21:55.473881	LOG	First uplink received. Open reception window.
0:21:55.582305	LOG	PUSH_ACK: 02 f76e 01
0:21:55.584309	LOG	GPS Time from gateway: 1385117364062
0:21:55.585310	LOG	PUSH_DATA: Protocol version = 02, Token = f76e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3228207934, 'time': '2023-11-27T10:49:05.062974Z', 'tmms': 1385117364062, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3274, 'rssi': -49, 'size': 20, 'data': 'QAAAAACATgcCCGuN02IYnwbpFqc='}]}
0:21:55.587312	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 074e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 06e916a7)
0:21:55.588343	LOG	Server <---------- DUT
0:21:55.590333	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 042e, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: ff79d776)

0:21:55.591345	LOG	Frame command sent to the DUT
0:21:55.593310	LOG	PULL_RESP: Protocol version = 02, Token = cf8f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3229207934, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAALgTgqvcBD2O8/Bc2wTzGzlMCb1IerAG97etLlZbbbLpDNCzY4DnmuJXbZwXtp+IgUHlUP1O+/3nXdg==’}}
0:21:55.594309	LOG	Server ----------> DUT
0:21:55.597344	LOG	Send Test Command TxFramesCtrlReq process completed
0:21:55.600822	LOG	Check previous uplink data rate process starts
0:21:55.605819	LOG	Uplink received with expected Data Rate
0:21:55.608818	LOG	Send Test Command TxFramesCtrlReq process starts
0:22:00.467736	LOG	First uplink received. Open reception window.
0:22:00.569727	LOG	PUSH_ACK: 02 8a62 01
0:22:00.571727	LOG	GPS Time from gateway: 1385117369062
0:22:00.573726	LOG	PUSH_DATA: Protocol version = 02, Token = 8a62, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3233207685, 'time': '2023-11-27T10:49:10.062724Z', 'tmms': 1385117369062, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3275, 'rssi': -49, 'size': 20, 'data': 'QAAAAACATwcC9aSIY3X5AolhTVA=’}]}
0:22:00.574725	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 074f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 89614d50)
0:22:00.576751	LOG	Server <---------- DUT
0:22:00.578750	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 042f, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 4338a57a)
0:22:00.579753	LOG	Frame command sent to the DUT
0:22:00.581757	LOG	PULL_RESP: Protocol version = 02, Token = 5ca2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3234207685, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAALwTgqharuzvG2Ugtjd8n38CKPPvWuKi3DdQCG2UdJcXG3d8QA/naWtyLVbsJ+gWuPJC2dxwLQzileg==’}}
0:22:00.582758	LOG	Server ----------> DUT
0:22:00.585768	LOG	Send Test Command TxFramesCtrlReq process completed
0:22:00.588761	LOG	Check previous uplink data rate process starts
0:22:00.592795	LOG	Uplink received with expected Data Rate
0:22:00.596763	LOG	Send Test Command TxFramesCtrlReq process starts
0:22:04.167515	LOG	GPS Time updated: 1385117372762
0:22:04.169480	LOG	PULL_DATA: 02 fe92 02 0016c001ff1025bf
0:22:04.170480	LOG	PULL_ACK: 02 fe92 04
0:22:05.471581	LOG	First uplink received. Open reception window.
0:22:05.582296	LOG	PUSH_ACK: 02 ba0f 01
0:22:05.584268	LOG	GPS Time from gateway: 1385117374062
0:22:05.586269	LOG	PUSH_DATA: Protocol version = 02, Token = ba0f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3238207423, 'time': '2023-11-27T10:49:15.062461Z', 'tmms': 1385117374062, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3272, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAUAcCY9Mb3btjsPjd4ZQ=’}]}
0:22:05.587268	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0750, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f8dde194)
0:22:05.588267	LOG	Server <---------- DUT
0:22:05.590267	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0430, FOpts:), FPort: e0, FRMPayload:

		07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 13405181)
0:22:05.592269	LOG	Frame command sent to the DUT
0:22:05.593300	LOG	PULL_RESP: Protocol version = 02, Token = 09a9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3239207423, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAMATgLSpOCXfV+Twc5xzSQVaeAvr7GOCQOb1XYDQ7YJwZ8vRfSVTfUzpJMZcza0/gMepgPi5+E0BRgQ==''}}
0:22:05.595269	LOG	Server ----------> DUT
0:22:05.597300	LOG	Send Test Command TxFramesCtrlReq process completed
0:22:05.600847	LOG	Check previous uplink data rate process starts
0:22:05.604842	LOG	Uplink received with expected Data Rate
0:22:05.608843	LOG	Send Test Command TxFramesCtrlReq process starts
0:22:10.474271	LOG	First uplink received. Open reception window.
0:22:10.576890	LOG	PUSH_ACK: 02 19f6 01
0:22:10.578855	LOG	GPS Time from gateway: 1385117379061
0:22:10.579854	LOG	PUSH_DATA: Protocol version = 02, Token = 19f6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3243207161, 'time': '2023-11-27T10:49:20.062196Z', 'tmms': 1385117379061, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3271, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAUQcCs3OwNH876Sk/+mo=''}]}
0:22:10.581856	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0751, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 293ffa6a)
0:22:10.582855	LOG	Server <---------- DUT
0:22:10.584859	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0431, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: bcfb72f3)
0:22:10.585858	LOG	Frame command sent to the DUT
0:22:10.587859	LOG	PULL_RESP: Protocol version = 02, Token = 843a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3244207161, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAMQTgLrGFrkEMRMLnvelO/TQ2Zf2fyjE4YBXC8KX4bkRj2cEN77f00qMDTmMi4uFPDBdpPsDUvPty8w==''}}
0:22:10.588859	LOG	Server ----------> DUT
0:22:10.591859	LOG	Send Test Command TxFramesCtrlReq process completed
0:22:10.594862	LOG	Check previous uplink data rate process starts
0:22:10.598859	LOG	Uplink received with expected Data Rate
0:22:10.603018	LOG	Send Test Command TxFramesCtrlReq process starts
0:22:14.367957	LOG	GPS Time updated: 1385117382955
0:22:14.368924	LOG	PULL_DATA: 02 097a 02 0016c001ff1025bf
0:22:14.370924	LOG	PULL_ACK: 02 097a 04
0:22:15.470011	LOG	First uplink received. Open reception window.
0:22:15.572710	LOG	PUSH_ACK: 02 dda1 01
0:22:15.574679	LOG	GPS Time from gateway: 1385117384061
0:22:15.575678	LOG	PUSH_DATA: Protocol version = 02, Token = dda1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3248206895, 'time': '2023-11-27T10:49:25.061932Z', 'tmms': 1385117384061, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.0, 'foff': -3268, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAUgcCok96D3ekTMr5K8M=''}]}
0:22:15.577678	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0752, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: caf92bc3)
0:22:15.578678	LOG	Server <---------- DUT

0:22:15.580678	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0432, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 8094d129)
0:22:15.582677	LOG	Frame command sent to the DUT
0:22:15.583678	LOG	PULL_RESP: Protocol version = 02, Token = 4c36, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3249206895, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAMgTgVaaBXxWyjCd26vhCckSbI37LMyph5YpFHx0ypzjX7boSKDKFqHc/MnwOIB4AxVe6Q4kPgJTRKQ==\'}}
0:22:15.584682	LOG	Server ----------> DUT
0:22:15.587686	LOG	Send Test Command TxFramesCtrlReq process completed
0:22:15.590684	LOG	Check previous uplink data rate process starts
0:22:15.594683	LOG	Uplink received with expected Data Rate
0:22:15.598682	LOG	Send Test Command TxFramesCtrlReq process starts
0:22:20.469373	LOG	First uplink received. Open reception window.
0:22:20.581602	LOG	PUSH_ACK: 02 790c 01
0:22:20.583569	LOG	GPS Time from gateway: 1385117389061
0:22:20.585578	LOG	PUSH_DATA: Protocol version = 02, Token = 790c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3253206675, 'time': '2023-11-27T10:49:30.061711Z', 'tmms': 1385117389061, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3270, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAUwcCPcLvZ6ZKP+iO6Ro='}]}
0:22:20.587577	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0753, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e88ee91a)
0:22:20.589587	LOG	Server <---------- DUT
0:22:20.591577	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0433, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: fc750cc7)
0:22:20.592610	LOG	Frame command sent to the DUT
0:22:20.594579	LOG	PULL_RESP: Protocol version = 02, Token = 6e04, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3254206675, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAMwTga9QIUp5fgvs1Hs5ZM8uQ3AEyhivluRjsb0k7Gen0tlT79q2dw3YOvGd7qgite7uvf6uJ/HUMxw==\'}}
0:22:20.595610	LOG	Server ----------> DUT
0:22:20.599120	LOG	Send Test Command TxFramesCtrlReq process completed
0:22:20.602129	LOG	Check previous uplink data rate process starts
0:22:20.606126	LOG	Uplink received with expected Data Rate
0:22:20.610125	LOG	Send Test Command TxFramesCtrlReq process starts
0:22:24.377757	LOG	GPS Time updated: 1385117392970
0:22:24.378725	LOG	PULL_DATA: 02 0025 02 0016c001ff1025bf
0:22:24.381237	LOG	PULL_ACK: 02 0025 04
0:22:25.471476	LOG	First uplink received. Open reception window.
0:22:25.572911	LOG	PUSH_ACK: 02 e6b1 01
0:22:25.574879	LOG	GPS Time from gateway: 1385117394061
0:22:25.575879	LOG	PUSH_DATA: Protocol version = 02, Token = e6b1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3258206415, 'time': '2023-11-27T10:49:35.061450Z', 'tmms': 1385117394061, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3266, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAVAcC6UnG/JB1wJwjHfU='}]}
0:22:25.577880	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0754, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9c231df5)

0:22:25.578879	LOG	Server <---------- DUT
0:22:25.580879	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0434, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 416968b0)
0:22:25.582880	LOG	Frame command sent to the DUT
0:22:25.583879	LOG	PULL_RESP: Protocol version = 02, Token = b549, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3259206415, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAANATgUpuRaPX/xvLAQI5nCX7m4C1O1Bn2SfxbZbC42H+D/PEHAia9hfRtL/kUmexJIyIaLlSlQWlosA==''}}
0:22:25.584883	LOG	Server ----------> DUT
0:22:25.587888	LOG	Send Test Command TxFramesCtrlReq process completed
0:22:25.590920	LOG	Check previous uplink data rate process starts
0:22:25.595884	LOG	Uplink received with expected Data Rate
0:22:25.598884	LOG	Step 14-15
0:22:25.602386	LOG	Send Test Command RxAppCntReq process starts
0:22:30.472093	LOG	First uplink received. Open reception window.
0:22:30.583690	LOG	PUSH_ACK: 02 10b9 01
0:22:30.585697	LOG	GPS Time from gateway: 1385117399060
0:22:30.586695	LOG	PUSH_DATA: Protocol version = 02, Token = 10b9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3263206155, 'time': '2023-11-27T10:49:40.061188Z', 'tmms': 1385117399060, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3266, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAVQcCi9PwautqWDNNQUI='}]}
0:22:30.588694	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0755, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 334d4142)
0:22:30.589694	LOG	Server <---------- DUT
0:22:30.591728	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0435, FOpts:), FPort: e0, FRMPayload: 09), MIC: 9f474e3c)
0:22:30.593696	LOG	Frame command sent to the DUT
0:22:30.595728	LOG	PULL_RESP: Protocol version = 02, Token = 7257, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3264206155, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAANQTgCp9HTjw='}}
0:22:30.596728	LOG	Server ----------> DUT
0:22:30.599235	LOG	TX_ACK: 02 7257 05 0016c001ff1025bf
0:22:32.119186	LOG	First uplink received. Open reception window.
0:22:32.228978	LOG	PUSH_ACK: 02 4ce8 01
0:22:32.230949	LOG	GPS Time from gateway: 1385117400707
0:22:32.232949	LOG	PUSH_DATA: Protocol version = 02, Token = 4ce8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3264852531, 'time': '2023-11-27T10:49:41.707565Z', 'tmms': 1385117400707, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3266, 'rssi': -49, 'size': 16, 'data': 'QAAAAACAVgfglLucfOVwJA==''}]}
0:22:32.233948	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0756, FOpts:), FPort: e0, FRMPayload: 09cc02, MIC: 7ce57024)
0:22:32.235949	LOG	Server <---------- DUT
0:22:32.236946	LOG	Frame Command Payload in the Answer: 09cc02
0:22:32.241455	LOG	RX Count received by DUT: 716
0:22:32.243461	LOG	Send Test Command RxAppCntReq process completed
0:22:32.252496	LOG	End Test Step: Test packet error rate for SF10BW125 using RX1 window
0:22:32.257011	LOG	Partial Verdict: PASS
0:22:32.262044	LOG	==========
0:22:32.266008	LOG	==========

0:22:32.268542	LOG	Start Test Step: Test packet error rate for SF11BW125 using RX1 window
0:22:32.279576	LOG	Step 10-11
0:22:32.282610	LOG	Send LinkADRReq process starts
0:22:34.587770	LOG	GPS Time updated: 1385117403175
0:22:34.589735	LOG	PULL_DATA: 02 87d6 02 0016c001ff1025bf
0:22:34.590736	LOG	PULL_ACK: 02 87d6 04
0:22:35.471215	LOG	First uplink received. Open reception window.
0:22:35.581794	LOG	PUSH_ACK: 02 4a85 01
0:22:35.583761	LOG	GPS Time from gateway: 1385117404060
0:22:35.585766	LOG	PUSH_DATA: Protocol version = 02, Token = 4a85, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3268205909, 'time': '2023-11-27T10:49:45.060942Z', 'tmms': 1385117404060, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3263, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAVwcCrOGK+SkZ2unSciM='}]}
0:22:35.586771	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0757, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e9d27223)
0:22:35.587770	LOG	Server <---------- DUT
0:22:35.589770	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0436, FOpts:), FPort: 00, FRMPayload: 0310070001), MIC: ca9e209d)
0:22:35.591769	LOG	PULL_RESP: Protocol version = 02, Token = bbaf, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3270205909, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAANgQAjFh38mvKniCd'}}
0:22:35.593769	LOG	Server ----------> DUT
0:22:35.595771	LOG	TX_ACK: 02 bbaf 05 0016c001ff1025bf
0:22:40.837961	LOG	First uplink received. Open reception window.
0:22:40.942534	LOG	PUSH_ACK: 02 6804 01
0:22:40.945045	LOG	GPS Time from gateway: 1385117409430
0:22:40.947046	LOG	PUSH_DATA: Protocol version = 02, Token = 6804, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3273576311, 'time': '2023-11-27T10:49:50.431343Z', 'tmms': 1385117409430, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 10.8, 'foff': -3266, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCWAcDBwI6dPw9JqOcwENlKw=='}]}
0:22:40.948044	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0758, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: c043652b)
0:22:40.950044	LOG	Server <---------- DUT
0:22:40.951043	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:22:40.953581	LOG	Command Answer: 0307
0:22:40.960597	LOG	MAC command communication completed
0:22:40.965566	LOG	Send RXParamSetupReq process starts
0:22:44.617981	LOG	GPS Time updated: 1385117413210
0:22:44.618979	LOG	PULL_DATA: 02 94b4 02 0016c001ff1025bf
0:22:44.620981	LOG	PULL_ACK: 02 94b4 04
0:22:45.845596	LOG	First uplink received. Open reception window.
0:22:45.951633	LOG	PUSH_ACK: 02 2cae 01
0:22:45.953804	LOG	GPS Time from gateway: 1385117414430
0:22:45.955445	LOG	PUSH_DATA: Protocol version = 02, Token = 2cae, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3278575944, 'time': '2023-11-27T10:49:55.430974Z', 'tmms': 1385117414430, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.0, 'foff': -3259, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAWQcCWlt8YbT3NjmhdSw='}]}
0:22:45.956550	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0759, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 39a1752c)
0:22:45.958230	LOG	Server <---------- DUT

0:22:45.960368	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0437, FOpts:), FPort: 00, FRMPayload: 0500d2ad84), MIC: 94cd4bd6)
0:22:45.962553	LOG	PULL_RESP: Protocol version = 02, Token = bd11, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3280575944, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAANwQAk+t++maUzUvW'}}
0:22:45.963652	LOG	Server ----------> DUT
0:22:45.973475	LOG	TX_ACK: 02 bd11 05 0016c001ff1025bf
0:22:50.838866	LOG	First uplink received. Open reception window.
0:22:50.945656	LOG	PUSH_ACK: 02 aa35 01
0:22:50.947697	LOG	GPS Time from gateway: 1385117419430
0:22:50.948735	LOG	PUSH_DATA: Protocol version = 02, Token = aa35, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3283575797, 'time': '2023-11-27T10:50:00.430828Z', 'tmms': 1385117419430, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3263, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCWgcFBwJZC56/Oj10XgZqTg=='}]}
0:22:50.950703	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 075a, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 5e066a4e)
0:22:50.951701	LOG	Server <---------- DUT
0:22:50.953716	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:22:50.954703	LOG	Command Answer: 0507
0:22:50.967243	LOG	MAC command communication completed
0:22:50.971243	LOG	Step 11-12
0:22:50.983772	LOG	Send Test Command RxAppCntReq process starts
0:22:54.777764	LOG	GPS Time updated: 1385117423370
0:22:54.779764	LOG	PULL_DATA: 02 2888 02 0016c001ff1025bf
0:22:54.780733	LOG	PULL_ACK: 02 2888 04
0:22:55.846010	LOG	First uplink received. Open reception window.
0:22:55.950578	LOG	PUSH_ACK: 02 d6a1 01
0:22:55.952697	LOG	GPS Time from gateway: 1385117424430
0:22:55.953804	LOG	PUSH_DATA: Protocol version = 02, Token = d6a1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3288575533, 'time': '2023-11-27T10:50:05.430563Z', 'tmms': 1385117424430, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3255, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCWwcFBwKYUHoSYs8wc+5cVw=='}]}
0:22:55.954943	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 075b, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 73ee5c57)
0:22:55.956386	LOG	Server <---------- DUT
0:22:55.958504	LOG	MAC Command RXParamSetupAns received
0:22:55.960302	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0438, FOpts:), FPort: e0, FRMPayload: 09), MIC: 58c21609)
0:22:55.961612	LOG	Frame command sent to the DUT
0:22:55.963172	LOG	PULL_RESP: Protocol version = 02, Token = 5bf6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3289575533, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAOATgj1jCFgk='}}
0:22:55.964211	LOG	Server ----------> DUT
0:22:55.968943	LOG	TX_ACK: 02 5bf6 05 0016c001ff1025bf
0:22:58.115221	LOG	Multiple frames received. Selecting the correct frame...
0:22:58.117225	LOG	Frame selected: {'jver': 1, 'tmst': 3290848172, 'time': '2023-11-27T10:50:07.703200Z', 'tmms': 1385117426702, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3259, 'rssi': -49, 'size': 16, 'data': 'QAAAAACAXAfgSjtEF83wQg=='}
0:22:58.118227	LOG	First uplink received. Open reception window.
0:22:58.232463	LOG	PUSH_ACK: 02 6f94 01

0:22:58.234039	LOG	GPS Time from gateway: 1385117426702
0:22:58.235007	LOG	PUSH_DATA: Protocol version = 02, Token = 6f94, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3290848171, 'time': '2023-11-27T10:50:07.703199Z', 'tmms': 1385117426702, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -127, 'lsnr': -15.2, 'foff': -3257, 'rssi': -113, 'size': 16, 'data': 'QAAAAACAXAfgSjtEF83wQg=='}, {'jver': 1, 'tmst': 3290848172, 'time': '2023-11-27T10:50:07.703200Z', 'tmms': 1385117426702, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3259, 'rssi': -49, 'size': 16, 'data': 'QAAAAACAXAfgSjtEF83wQg=='}]}
0:22:58.237022	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 075c, FOpts:), FPort: e0, FRMPayload: 09cd02, MIC: 17cdf042)
0:22:58.238044	LOG	Server <---------- DUT
0:22:58.240055	LOG	Frame Command Payload in the Answer: 09cd02
0:22:58.243935	LOG	RX Count received by DUT: 717
0:22:58.245944	LOG	Send Test Command RxAppCntReq process completed
0:22:58.249942	LOG	Step 13
0:22:58.253942	LOG	Send Test Command TxFramesCtrlReq process starts
0:23:04.797372	LOG	#**********CURRENT BEACON SENT**********#
0:23:04.799341	LOG	PULL_RESP: Protocol version = 02, Token = 5133, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385117440000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAN49SJDEAAAAAAAAAAA='}}
0:23:04.800373	LOG	Server ----------> DUT
0:23:04.802340	LOG	#**********#
0:23:04.811378	LOG	#**********NEXT BEACON QUEUED**********#
0:23:04.813345	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385117568000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAN49SHOwAAAAAAAAAAA='}}
0:23:04.814379	LOG	Server ----------> DUT
0:23:04.816346	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 80378f52, CRC1: 1cec, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385117568000
0:23:04.816346	LOG	#**********#
0:23:04.818889	LOG	Next BEACON scheduled at GPS time (ms): 1385117696000
0:23:04.820888	LOG	GPS Time updated: 1385117433403
0:23:04.821886	LOG	PULL_DATA: 02 45d8 02 0016c001ff1025bf
0:23:04.823886	LOG	PULL_ACK: 02 45d8 04
0:23:04.825920	LOG	TX_ACK: 02 5133 05 0016c001ff1025bf
0:23:05.839447	LOG	First uplink received. Open reception window.
0:23:05.950735	LOG	PUSH_ACK: 02 f654 01
0:23:05.952907	LOG	GPS Time from gateway: 1385117434429
0:23:05.954920	LOG	PUSH_DATA: Protocol version = 02, Token = f654, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3298574917, 'time': '2023-11-27T10:50:15.429945Z', 'tmms': 1385117434429, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.8, 'foff': -3255, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAXQcCAhP0d3T8NAImVMo='}]}
0:23:05.956661	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 075d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 022654ca)
0:23:05.957814	LOG	Server <---------- DUT

0:23:05.960066	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0439, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: f8c383f3)
0:23:05.961711	LOG	Frame command sent to the DUT
0:23:05.962825	LOG	PULL_RESP: Protocol version = 02, Token = af5e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3299574917, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAOQTgy8gDhjIJ5GUxMPxitw/6P8F0tFhlgHKlOIsrh01w16/zFnfGrs34KWjWj3YBK0UR/z9Z+MOD8w==''}}
0:23:05.964390	LOG	Server ----------> DUT
0:23:05.966984	LOG	Send Test Command TxFramesCtrlReq process completed
0:23:05.970494	LOG	Check previous uplink data rate process starts
0:23:05.975008	LOG	Uplink received with expected Data Rate
0:23:05.979509	LOG	Send Test Command TxFramesCtrlReq process starts
0:23:10.845674	LOG	First uplink received. Open reception window.
0:23:10.946935	LOG	PUSH_ACK: 02 0dd4 01
0:23:10.948934	LOG	GPS Time from gateway: 1385117439429
0:23:10.949935	LOG	PUSH_DATA: Protocol version = 02, Token = 0dd4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3303574674, 'time': '2023-11-27T10:50:20.429701Z', 'tmms': 1385117439429, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -49, 'lsnr': 11.5, 'foff': -3250, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAXgcC46b9+PbEa7ZkdpA='}]}
0:23:10.951903	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 075e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b6647690)
0:23:10.952903	LOG	Server <---------- DUT
0:23:10.954903	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 043a, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 2d985cbc)
0:23:10.956903	LOG	Frame command sent to the DUT
0:23:10.957935	LOG	PULL_RESP: Protocol version = 02, Token = 7a97, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3304574674, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAOgTgckyhvIe5hvIE2vUhJZTJMPqzOxbcx54OA9plqWIBQn0+ex3O4/blD/RmfyS4oV3zHQXWLZhcvA==''}}
0:23:10.958935	LOG	Server ----------> DUT
0:23:10.961941	LOG	Send Test Command TxFramesCtrlReq process completed
0:23:10.964972	LOG	Check previous uplink data rate process starts
0:23:10.968939	LOG	Uplink received with expected Data Rate
0:23:10.972939	LOG	Send Test Command TxFramesCtrlReq process starts
0:23:14.947841	LOG	GPS Time updated: 1385117443531
0:23:14.948872	LOG	PULL_DATA: 02 aa39 02 0016c001ff1025bf
0:23:14.950843	LOG	PULL_ACK: 02 aa39 04
0:23:15.841984	LOG	First uplink received. Open reception window.
0:23:15.951469	LOG	PUSH_ACK: 02 1a13 01
0:23:15.953677	LOG	GPS Time from gateway: 1385117444428
0:23:15.955345	LOG	PUSH_DATA: Protocol version = 02, Token = 1a13, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3308574416, 'time': '2023-11-27T10:50:25.429441Z', 'tmms': 1385117444428, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.0, 'foff': -3248, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAXwcCikp5wQxXQyS9Yi8='}]}
0:23:15.956957	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 075f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 24bd622f)

0:23:15.958147	LOG	Server <---------- DUT
0:23:15.960331	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 043b, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 6c39816c)
0:23:15.962030	LOG	Frame command sent to the DUT
0:23:15.963086	LOG	PULL_RESP: Protocol version = 02, Token = bf6a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3309574416, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAOwTglOIqq/RQeh02U22cnRw6pZrwd9B0mC0JV/DhVbyj7VXZPevxuvPkB7BShitGRbGZ0E9ZbDmBbA==’}}
0:23:15.964794	LOG	Server ----------> DUT
0:23:15.967688	LOG	Send Test Command TxFramesCtrlReq process completed
0:23:15.970823	LOG	Check previous uplink data rate process starts
0:23:15.976177	LOG	Uplink received with expected Data Rate
0:23:15.980232	LOG	Send Test Command TxFramesCtrlReq process starts
0:23:20.846460	LOG	First uplink received. Open reception window.
0:23:20.952065	LOG	PUSH_ACK: 02 c76a 01
0:23:20.955065	LOG	GPS Time from gateway: 1385117449428
0:23:20.957067	LOG	PUSH_DATA: Protocol version = 02, Token = c76a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3313574156, 'time': '2023-11-27T10:50:30.429182Z', 'tmms': 1385117449428, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.8, 'foff': -3245, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAYAcC7UfeYU0dmcYt0XQ=’}]}
0:23:20.965073	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0760, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c62dd174)
0:23:20.968074	LOG	Server <---------- DUT
0:23:20.974072	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 043c, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: bf55785d)
0:23:20.977620	LOG	Frame command sent to the DUT
0:23:20.979624	LOG	PULL_RESP: Protocol version = 02, Token = e296, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3314574156, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAPATgC0329iDLgmHA8mE+e2AIub1ypr5C8+SH/qAJ0nfCoo8PZi7NIPqca1KPkPPnFe3S5za/v1V4XQ==’}}
0:23:20.982625	LOG	Server ----------> DUT
0:23:20.993141	LOG	Send Test Command TxFramesCtrlReq process completed
0:23:21.000137	LOG	Check previous uplink data rate process starts
0:23:21.009654	LOG	Uplink received with expected Data Rate
0:23:21.018655	LOG	Send Test Command TxFramesCtrlReq process starts
0:23:24.967121	LOG	GPS Time updated: 1385117453549
0:23:24.969137	LOG	PULL_DATA: 02 a084 02 0016c001ff1025bf
0:23:24.970123	LOG	PULL_ACK: 02 a084 04
0:23:25.840025	LOG	First uplink received. Open reception window.
0:23:25.949013	LOG	PUSH_ACK: 02 f976 01
0:23:25.951819	LOG	GPS Time from gateway: 1385117454428
0:23:25.952867	LOG	PUSH_DATA: Protocol version = 02, Token = f976, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3318573894, 'time': '2023-11-27T10:50:35.428919Z', 'tmms': 1385117454428, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.0, 'foff': -3242, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAYQcCSAs2k2opkTeRw3Y=’}]}

0:23:25.955581	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0761, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3791c376)
0:23:25.957198	LOG	Server <---------- DUT
0:23:25.958889	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 043d, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: f6d3cdb7)
0:23:25.960496	LOG	Frame command sent to the DUT
0:23:25.961932	LOG	PULL_RESP: Protocol version = 02, Token = 7467, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3319573894, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAPQTgOJ4D/As/ucV0BbEzz+rPK+x3TRir3waszbpz8Axtq8rE6bk7OiV3DnMpXP7pKmPzYn3X9tPNtw==’}}
0:23:25.962937	LOG	Server ----------> DUT
0:23:25.966820	LOG	Send Test Command TxFramesCtrlReq process completed
0:23:25.970064	LOG	Check previous uplink data rate process starts
0:23:25.973819	LOG	Uplink received with expected Data Rate
0:23:25.978629	LOG	Send Test Command TxFramesCtrlReq process starts
0:23:30.839966	LOG	First uplink received. Open reception window.
0:23:30.945034	LOG	PUSH_ACK: 02 7094 01
0:23:30.947033	LOG	GPS Time from gateway: 1385117459428
0:23:30.948033	LOG	PUSH_DATA: Protocol version = 02, Token = 7094, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3323573644, 'time': '2023-11-27T10:50:40.428668Z', 'tmms': 1385117459428, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.8, 'foff': -3243, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAYgcCzHlLC9QyrrRNK8E=’}]}
0:23:30.950033	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0762, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b44d2bc1)
0:23:30.951031	LOG	Server <---------- DUT
0:23:30.953032	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 043e, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 3c09255c)
0:23:30.955032	LOG	Frame command sent to the DUT
0:23:30.956032	LOG	PULL_RESP: Protocol version = 02, Token = 3d17, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3324573644, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAPgTgnKHPpAnYScvlrSsh4Vun6K/2IQaf0arpDvubpcvCg25kZTjLTddYJTgGvPK8xj+yBM0kPAklXA==’}}
0:23:30.958032	LOG	Server ----------> DUT
0:23:30.961038	LOG	Send Test Command TxFramesCtrlReq process completed
0:23:30.964038	LOG	Check previous uplink data rate process starts
0:23:30.968038	LOG	Uplink received with expected Data Rate
0:23:30.971037	LOG	Send Test Command TxFramesCtrlReq process starts
0:23:35.157591	LOG	GPS Time updated: 1385117463746
0:23:35.158591	LOG	PULL_DATA: 02 e968 02 0016c001ff1025bf
0:23:35.160594	LOG	PULL_ACK: 02 e968 04
0:23:35.844026	LOG	First uplink received. Open reception window.
0:23:35.956947	LOG	PUSH_ACK: 02 67e0 01
0:23:35.959132	LOG	GPS Time from gateway: 1385117464427
0:23:35.960221	LOG	PUSH_DATA: Protocol version = 02, Token = 67e0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3328573385, 'time': '2023-11-27T10:50:45.428408Z', 'tmms': 1385117464427, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.2, 'foff': -3244, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAYwcCCBn25lOPUfX32Fo='}]}
0:23:35.961952	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0763, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f5f7d85a)
0:23:35.963614	LOG	Server <---------- DUT
0:23:35.965621	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 043f, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 6037dbb0)
0:23:35.966685	LOG	Frame command sent to the DUT
0:23:35.968321	LOG	PULL_RESP: Protocol version = 02, Token = 7ea4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3329573385, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAPwTgJXpUsSwNZFgNLE9KSQwsbKLp7RpChl9LRT2BdBaocZ9k2txD8bdWuMjtrJOm6OheD2/oYDfbsA=='}}
0:23:35.969617	LOG	Server ----------> DUT
0:23:35.972715	LOG	Send Test Command TxFramesCtrlReq process completed
0:23:35.976382	LOG	Check previous uplink data rate process starts
0:23:35.980871	LOG	Uplink received with expected Data Rate
0:23:35.984634	LOG	Send Test Command TxFramesCtrlReq process starts
0:23:40.836852	LOG	First uplink received. Open reception window.
0:23:40.939657	LOG	PUSH_ACK: 02 bcef 01
0:23:40.941657	LOG	GPS Time from gateway: 1385117469427
0:23:40.943132	LOG	PUSH_DATA: Protocol version = 02, Token = bcef, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3333573136, 'time': '2023-11-27T10:50:50.428157Z', 'tmms': 1385117469427, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.5, 'foff': -3246, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAZAcCgu73WR/L/4LMCqY='}]}
0:23:40.945139	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0764, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 82cc0aa6)
0:23:40.946172	LOG	Server <---------- DUT
0:23:40.948171	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0440, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 07e32cfc)
0:23:40.950162	LOG	Frame command sent to the DUT
0:23:40.951137	LOG	PULL_RESP: Protocol version = 02, Token = ff03, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3334573136, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAQATgm+FI0ZBE8ShT/1O81uLBO/dyb250DtHxUBYXNCOUkSLIy5GKFiJUG2QBlumFqHUNBQLRB+Ms/A=='}}
0:23:40.953137	LOG	Server ----------> DUT
0:23:40.956137	LOG	Send Test Command TxFramesCtrlReq process completed
0:23:40.959139	LOG	Check previous uplink data rate process starts
0:23:40.963181	LOG	Uplink received with expected Data Rate
0:23:40.966145	LOG	Send Test Command TxFramesCtrlReq process starts
0:23:45.357153	LOG	GPS Time updated: 1385117473949
0:23:45.359154	LOG	PULL_DATA: 02 c4d5 02 0016c001ff1025bf
0:23:45.360157	LOG	PULL_ACK: 02 c4d5 04
0:23:45.841959	LOG	First uplink received. Open reception window.
0:23:45.944617	LOG	PUSH_ACK: 02 5e6e 01
0:23:45.947080	LOG	GPS Time from gateway: 1385117474427
0:23:45.948787	LOG	PUSH_DATA: Protocol version = 02, Token = 5e6e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3338572881, 'time': '2023-11-27T10:50:55.427903Z',

		'tmms': 1385117474427, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.5, 'foff': -3244, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAZQcCqdzncp6Dnlq2C7U='}]}
0:23:45.950938	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0765, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5ab60bb5)
0:23:45.952585	LOG	Server <---------- DUT
0:23:45.954757	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0441, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: de7c2fb9)
0:23:45.956397	LOG	Frame command sent to the DUT
0:23:45.957988	LOG	PULL_RESP: Protocol version = 02, Token = 7485, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3339572881, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAQQTgCKqUl+TWz1x20dSrIflk6h0z8/W/T1wNf9aoqGryLA7mwLZT4RDC1Ppt5eBdCIZ85+we3nwvuQ=='}}
0:23:45.959712	LOG	Server ----------> DUT
0:23:45.962823	LOG	Send Test Command TxFramesCtrlReq process completed
0:23:45.965578	LOG	Check previous uplink data rate process starts
0:23:45.969928	LOG	Uplink received with expected Data Rate
0:23:45.973417	LOG	Send Test Command TxFramesCtrlReq process starts
0:23:50.842566	LOG	First uplink received. Open reception window.
0:23:50.949846	LOG	PUSH_ACK: 02 814d 01
0:23:50.951814	LOG	GPS Time from gateway: 1385117479427
0:23:50.952813	LOG	PUSH_DATA: Protocol version = 02, Token = 814d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3343572614, 'time': '2023-11-27T10:51:00.427635Z', 'tmms': 1385117479427, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 8.8, 'foff': -3243, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAZgcCUgYj8cn77CjPZUk='}]}
0:23:50.954815	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0766, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 28cf6549)
0:23:50.955814	LOG	Server <---------- DUT
0:23:50.957819	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0442, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 7c1aa804)
0:23:50.959853	LOG	Frame command sent to the DUT
0:23:50.960884	LOG	PULL_RESP: Protocol version = 02, Token = 2d15, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3344572614, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAQgTg4pNZWNxd/dcjaUJNXAJfIvDQKPlIoOhF/DDMMWUJgkmAmQAf+JqasGsHIEvgdo9RGwyjfBqoBA=='}}
0:23:50.961886	LOG	Server ----------> DUT
0:23:50.964852	LOG	Send Test Command TxFramesCtrlReq process completed
0:23:50.967852	LOG	Check previous uplink data rate process starts
0:23:50.971852	LOG	Uplink received with expected Data Rate
0:23:50.976380	LOG	Send Test Command TxFramesCtrlReq process starts
0:23:55.367182	LOG	GPS Time updated: 1385117483953
0:23:55.368150	LOG	PULL_DATA: 02 b783 02 0016c001ff1025bf
0:23:55.370150	LOG	PULL_ACK: 02 b783 04
0:23:55.834796	LOG	First uplink received. Open reception window.
0:23:55.942955	LOG	PUSH_ACK: 02 ba57 01
0:23:55.944961	LOG	GPS Time from gateway: 1385117484426

0:23:55.946971	LOG	PUSH_DATA: Protocol version = 02, Token = ba57, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3348572361, 'time': '2023-11-27T10:51:05.427381Z', 'tmms': 1385117484426, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3240, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAZwcCtntMCe50dVYdvAo='}]}
0:23:55.948962	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0767, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 561dbc0a)
0:23:55.949961	LOG	Server <---------- DUT
0:23:55.951961	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0443, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 657e9e9f)
0:23:55.953960	LOG	Frame command sent to the DUT
0:23:55.955961	LOG	PULL_RESP: Protocol version = 02, Token = 0b43, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3349572361, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAQwTgGDQcDRpvRfuIz5N6av2IpWMTuy0BNZLVlFhIrObaAgJYYqz8wmnM2Ba6tbJ3zOvWrpcmZX6enw=='}}
0:23:55.956961	LOG	Server ----------> DUT
0:23:55.959967	LOG	Send Test Command TxFramesCtrlReq process completed
0:23:55.963317	LOG	Check previous uplink data rate process starts
0:23:55.967708	LOG	Uplink received with expected Data Rate
0:23:55.971553	LOG	Send Test Command TxFramesCtrlReq process starts
0:24:00.837659	LOG	First uplink received. Open reception window.
0:24:00.949741	LOG	PUSH_ACK: 02 413e 01
0:24:00.951747	LOG	GPS Time from gateway: 1385117489426
0:24:00.952709	LOG	PUSH_DATA: Protocol version = 02, Token = 413e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3353572103, 'time': '2023-11-27T10:51:10.427122Z', 'tmms': 1385117489426, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.8, 'foff': -3238, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAaAcCxaoqJZE7z23vNrM='}]}
0:24:00.954710	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0768, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6def36b3)
0:24:00.955709	LOG	Server <---------- DUT
0:24:00.957742	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0444, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: f152b6b4)
0:24:00.959779	LOG	Frame command sent to the DUT
0:24:00.960782	LOG	PULL_RESP: Protocol version = 02, Token = 0df3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3354572103, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAARATg9ybJV3B0OMQYuJSawg1qkb4AxGWFYtL3no5uq8osqGKUz7v6AOlhkZl1iOeeJygSS5VX8VK2tA=='}}
0:24:00.961780	LOG	Server ----------> DUT
0:24:00.964748	LOG	Send Test Command TxFramesCtrlReq process completed
0:24:00.967780	LOG	Check previous uplink data rate process starts
0:24:00.972746	LOG	Uplink received with expected Data Rate
0:24:00.977259	LOG	Send Test Command TxFramesCtrlReq process starts
0:24:05.577162	LOG	GPS Time updated: 1385117494166
0:24:05.579127	LOG	PULL_DATA: 02 cdab 02 0016c001ff1025bf
0:24:05.580129	LOG	PULL_ACK: 02 cdab 04
0:24:05.840826	LOG	First uplink received. Open reception window.
0:24:05.946351	LOG	PUSH_ACK: 02 cc34 01

0:24:05.948340	LOG	GPS Time from gateway: 1385117494426
0:24:05.950343	LOG	PUSH_DATA: Protocol version = 02, Token = cc34, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3358571851, 'time': '2023-11-27T10:51:15.426870Z', 'tmms': 1385117494426, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3237, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAaQcC+rgle5g4+vLIF8I='}]}
0:24:05.952340	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0769, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f2c817c2)
0:24:05.953340	LOG	Server <---------- DUT
0:24:05.955340	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0445, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 99826306)
0:24:05.957340	LOG	Frame command sent to the DUT
0:24:05.958339	LOG	PULL_RESP: Protocol version = 02, Token = 3f1e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3359571851, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAARQTgLdo9fAB0Pxlj+DMRBh2JwFZIx6KJNwAQTWzwH2RejHvoGDmfS3jngCifB4YTJA+wkdAnmYJjBg==''}}
0:24:05.960345	LOG	Server ----------> DUT
0:24:05.964346	LOG	Send Test Command TxFramesCtrlReq process completed
0:24:05.967032	LOG	Check previous uplink data rate process starts
0:24:05.971280	LOG	Uplink received with expected Data Rate
0:24:05.975226	LOG	Send Test Command TxFramesCtrlReq process starts
0:24:10.840715	LOG	First uplink received. Open reception window.
0:24:10.942099	LOG	PUSH_ACK: 02 8b88 01
0:24:10.944275	LOG	GPS Time from gateway: 1385117499426
0:24:10.945284	LOG	PUSH_DATA: Protocol version = 02, Token = 8b88, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3363571595, 'time': '2023-11-27T10:51:20.426613Z', 'tmms': 1385117499426, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.5, 'foff': -3235, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAagcCnTBDD5YNb4G3jyM='}]}
0:24:10.947281	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 076a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 81b78f23)
0:24:10.948281	LOG	Server <---------- DUT
0:24:10.950281	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0446, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 585e4071)
0:24:10.952280	LOG	Frame command sent to the DUT
0:24:10.953279	LOG	PULL_RESP: Protocol version = 02, Token = 0b1b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3364571595, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAARgTgB8SK9pGWTEdqvtNjOAbt8dXKUi8xdoqLYmR7Sks/p8id5dvlh2sQ1wlymZ24g+v0YIdQWF5AcQ==''}}
0:24:10.955279	LOG	Server ----------> DUT
0:24:10.957280	LOG	Send Test Command TxFramesCtrlReq process completed
0:24:10.961293	LOG	Check previous uplink data rate process starts
0:24:10.965291	LOG	Uplink received with expected Data Rate
0:24:10.968293	LOG	Send Test Command TxFramesCtrlReq process starts
0:24:15.786725	LOG	GPS Time updated: 1385117504372
0:24:15.788913	LOG	PULL_DATA: 02 51e7 02 0016c001ff1025bf
0:24:15.790894	LOG	PULL_ACK: 02 51e7 04
0:24:15.909583	LOG	First uplink received. Open reception window.

0:24:16.012855	LOG	PUSH_ACK: 02 47af 01
0:24:16.014366	LOG	GPS Time from gateway: 1385117504492
0:24:16.016366	LOG	PUSH_DATA: Protocol version = 02, Token = 47af, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3368637532, 'time': '2023-11-27T10:51:25.492549Z', 'tmms': 1385117504492, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.2, 'foff': -3234, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAawcCjagfv4BzzprsgiY='}]}
0:24:16.018364	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 076b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9aec8226)
0:24:16.019544	LOG	Server <---------- DUT
0:24:16.021765	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0447, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: f757590c)
0:24:16.023406	LOG	Frame command sent to the DUT
0:24:16.024508	LOG	PULL_RESP: Protocol version = 02, Token = f342, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3369637532, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAARwTglgHBQsryP5PPllNjBLBcgfPso5KsektLRY4iyEWJe8jEMYo7BnwE0pklC8V1JWNlPACV91dZDA=='}}
0:24:16.026154	LOG	Server ----------> DUT
0:24:16.029079	LOG	Send Test Command TxFramesCtrlReq process completed
0:24:16.032052	LOG	Check previous uplink data rate process starts
0:24:16.036848	LOG	Uplink received with expected Data Rate
0:24:16.040469	LOG	Send Test Command TxFramesCtrlReq process starts
0:24:20.837888	LOG	First uplink received. Open reception window.
0:24:20.943962	LOG	PUSH_ACK: 02 27d7 01
0:24:20.945962	LOG	GPS Time from gateway: 1385117509425
0:24:20.947965	LOG	PUSH_DATA: Protocol version = 02, Token = 27d7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3373571074, 'time': '2023-11-27T10:51:30.426090Z', 'tmms': 1385117509425, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.0, 'foff': -3237, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAbAcC2cZWy4OYMwBrO3E='}]}
0:24:20.948998	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 076c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 006b3b71)
0:24:20.949996	LOG	Server <---------- DUT
0:24:20.952013	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0448, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 617d9305)
0:24:20.953997	LOG	Frame command sent to the DUT
0:24:20.955543	LOG	PULL_RESP: Protocol version = 02, Token = 5e7d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3374571074, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAASATgk9Zt89wSvPG/4LQ/uR0SoinubuwQtqjvhUKmJgy9Mevcy+6r7oRjFaQSgasbF5mF80nGYX2TBQ=='}}
0:24:20.956582	LOG	Server ----------> DUT
0:24:20.959552	LOG	Send Test Command TxFramesCtrlReq process completed
0:24:20.963560	LOG	Check previous uplink data rate process starts
0:24:20.967554	LOG	Uplink received with expected Data Rate
0:24:20.970589	LOG	Send Test Command TxFramesCtrlReq process starts
0:24:25.841230	LOG	First uplink received. Open reception window.
0:24:25.949988	LOG	PUSH_ACK: 02 205a 01
0:24:25.951956	LOG	GPS Time from gateway: 1385117514425

0:24:25.952958	LOG	PUSH_DATA: Protocol version = 02, Token = 205a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3378570818, 'time': '2023-11-27T10:51:35.425832Z', 'tmms': 1385117514425, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.2, 'foff': -3234, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAbQcCIRKmiDrFQrDiD08='}]}
0:24:25.954991	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 076d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b0e20f4f)
0:24:25.955990	LOG	Server <---------- DUT
0:24:25.958463	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0449, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 78b79bfc)
0:24:25.960469	LOG	Frame command sent to the DUT
0:24:25.961468	LOG	PULL_RESP: Protocol version = 02, Token = beec, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3379570818, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAASQTgJKVQGEBDc0g0vMpzUa5Bfvo9QI4miEzitat21OH0PO3CKf5/tmc7uLnzOYSXNSzmAV7+eLeb/A=='}}
0:24:25.963468	LOG	Server ----------> DUT
0:24:25.965468	LOG	Send Test Command TxFramesCtrlReq process completed
0:24:25.968470	LOG	Check previous uplink data rate process starts
0:24:25.972468	LOG	Uplink received with expected Data Rate
0:24:25.977016	LOG	Send Test Command TxFramesCtrlReq process starts
0:24:30.833981	LOG	First uplink received. Open reception window.
0:24:30.948225	LOG	PUSH_ACK: 02 05cf 01
0:24:30.950225	LOG	GPS Time from gateway: 1385117519425
0:24:30.951227	LOG	PUSH_DATA: Protocol version = 02, Token = 05cf, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3383570562, 'time': '2023-11-27T10:51:40.425577Z', 'tmms': 1385117519425, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3231, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAbgcC1TR7GuSnUNWwykA='}]}
0:24:30.953195	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 076e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d5b0ca40)
0:24:30.954192	LOG	Server <---------- DUT
0:24:30.956195	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 044a, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 0b875565)
0:24:30.957227	LOG	Frame command sent to the DUT
0:24:30.959253	LOG	PULL_RESP: Protocol version = 02, Token = 5b12, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3384570562, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAASgTgzOZdBts7VeM7MTmi3tqEzfDLEYCeETpzHbi/BUaD6tFJZYuGwD3L8AiUyw/KNlMQiRJ0C4dVZQ=='}}
0:24:30.960226	LOG	Server ----------> DUT
0:24:30.963290	LOG	Send Test Command TxFramesCtrlReq process completed
0:24:30.966272	LOG	Check previous uplink data rate process starts
0:24:30.970270	LOG	Uplink received with expected Data Rate
0:24:30.974270	LOG	Send Test Command TxFramesCtrlReq process starts
0:24:35.838617	LOG	First uplink received. Open reception window.
0:24:35.946040	LOG	PUSH_ACK: 02 338b 01
0:24:35.948005	LOG	GPS Time from gateway: 1385117524424
0:24:35.949005	LOG	PUSH_DATA: Protocol version = 02, Token = 338b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3388570309, 'time': '2023-11-27T10:51:45.425323Z', 'tmms': 1385117524424, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.5, 'foff': -3230, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAbwcC+12VqapUJDMEOlI='}]}
0:24:35.951006	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 076f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 33043a52)
0:24:35.952005	LOG	Server <---------- DUT
0:24:35.954010	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 044b, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 8c24d827)
0:24:35.956010	LOG	Frame command sent to the DUT
0:24:35.957009	LOG	PULL_RESP: Protocol version = 02, Token = 0123, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3389570309, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAASwTgvyGQGI18o7c42bftal6Jm4r5Gz0PiQ9dS4feUxLX2eWgxuxc1INvAsby3h3/lJkdV0ekjCTYJw==''}}
0:24:35.958009	LOG	Server ----------> DUT
0:24:35.961014	LOG	Send Test Command TxFramesCtrlReq process completed
0:24:35.964011	LOG	Check previous uplink data rate process starts
0:24:35.969388	LOG	Uplink received with expected Data Rate
0:24:35.973387	LOG	Send Test Command TxFramesCtrlReq process starts
0:24:36.168190	LOG	GPS Time updated: 1385117524754
0:24:36.169583	LOG	PULL_DATA: 02 72ff 02 0016c001ff1025bf
0:24:36.171582	LOG	PULL_ACK: 02 72ff 04
0:24:40.838906	LOG	First uplink received. Open reception window.
0:24:40.954203	LOG	PUSH_ACK: 02 87e2 01
0:24:40.956171	LOG	GPS Time from gateway: 1385117529425
0:24:40.957170	LOG	PUSH_DATA: Protocol version = 02, Token = 87e2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3393570057, 'time': '2023-11-27T10:51:50.425070Z', 'tmms': 1385117529425, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.5, 'foff': -3231, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAcAcCdUIxWjMaeJCIObU='}]}
0:24:40.959175	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0770, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 908839b5)
0:24:40.961175	LOG	Server <---------- DUT
0:24:40.962175	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 044c, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 71d0314a)
0:24:40.964175	LOG	Frame command sent to the DUT
0:24:40.965175	LOG	PULL_RESP: Protocol version = 02, Token = cb57, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3394570057, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAATATgKhs48Hx0tH5qD7M+QEMxvV6scvXWgt2PYZ/bq5h1Wcb1EZj2DVnWmrjYTgNC29HUG2iYcdAxSg==''}}
0:24:40.967175	LOG	Server ----------> DUT
0:24:40.970176	LOG	Send Test Command TxFramesCtrlReq process completed
0:24:40.972746	LOG	Check previous uplink data rate process starts
0:24:40.977297	LOG	Uplink received with expected Data Rate
0:24:40.980296	LOG	Send Test Command TxFramesCtrlReq process starts
0:24:45.832883	LOG	First uplink received. Open reception window.
0:24:45.934027	LOG	PUSH_ACK: 02 cab5 01
0:24:45.936034	LOG	GPS Time from gateway: 1385117534425
0:24:45.937030	LOG	PUSH_DATA: Protocol version = 02, Token = cab5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3398569794, 'time': '2023-11-27T10:51:55.424805Z',

		'tmms': 1385117534425, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3228, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAcQcCsWRlUY63wKHHHm4='}]}
0:24:45.939041	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0771, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a1c71e6e)
0:24:45.941002	LOG	Server <---------- DUT
0:24:45.943001	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 044d, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: eb9f355a)
0:24:45.944379	LOG	Frame command sent to the DUT
0:24:45.945410	LOG	PULL_RESP: Protocol version = 02, Token = df13, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3399569794, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAATQTglWo/eCeFhh7NVeyD4U9NVyJgBAjJoUOQ7n/0VoT5sNVhKFqq7E9TUbiA9gdMVvz/a0MG6581Wg==''}}
0:24:45.947420	LOG	Server ----------> DUT
0:24:45.949377	LOG	Send Test Command TxFramesCtrlReq process completed
0:24:45.952409	LOG	Check previous uplink data rate process starts
0:24:45.956378	LOG	Uplink received with expected Data Rate
0:24:45.960379	LOG	Send Test Command TxFramesCtrlReq process starts
0:24:46.367354	LOG	GPS Time updated: 1385117534959
0:24:46.369354	LOG	PULL_DATA: 02 8820 02 0016c001ff1025bf
0:24:46.371353	LOG	PULL_ACK: 02 8820 04
0:24:50.841109	LOG	First uplink received. Open reception window.
0:24:50.952127	LOG	PUSH_ACK: 02 f7ae 01
0:24:50.954093	LOG	GPS Time from gateway: 1385117539425
0:24:50.955094	LOG	PUSH_DATA: Protocol version = 02, Token = f7ae, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3403569550, 'time': '2023-11-27T10:52:00.424562Z', 'tmms': 1385117539425, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3226, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAcgcCYSiNk5F/oomseGA='}]}
0:24:50.957109	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0772, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 89ac7860)
0:24:50.958094	LOG	Server <---------- DUT
0:24:50.960102	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 044e, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c12ff2d7)
0:24:50.962133	LOG	Frame command sent to the DUT
0:24:50.963133	LOG	PULL_RESP: Protocol version = 02, Token = 88a3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3404569550, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAATgTgewibJ/gbFcGsQbuNg1XPl3EuAd0T9mlci2x5rTVTPRoI3cvmes2vvIGzEncuKxD2YssVwS/y1w==''}}
0:24:50.965138	LOG	Server ----------> DUT
0:24:50.968103	LOG	Send Test Command TxFramesCtrlReq process completed
0:24:50.970133	LOG	Check previous uplink data rate process starts
0:24:50.975349	LOG	Uplink received with expected Data Rate
0:24:50.979377	LOG	Send Test Command TxFramesCtrlReq process starts
0:24:55.834731	LOG	First uplink received. Open reception window.
0:24:55.936982	LOG	PUSH_ACK: 02 09ce 01
0:24:55.938949	LOG	GPS Time from gateway: 1385117544424

0:24:55.939949	LOG	PUSH_DATA: Protocol version = 02, Token = 09ce, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3408569282, 'time': '2023-11-27T10:52:05.424293Z', 'tmms': 1385117544424, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3224, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAcwcCOlEV0/Zk3ELRiDw='}]}
0:24:55.941956	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0773, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 42d1883c)
0:24:55.944001	LOG	Server <---------- DUT
0:24:55.946033	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 044f, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 30df37df)
0:24:55.947031	LOG	Frame command sent to the DUT
0:24:55.949031	LOG	PULL_RESP: Protocol version = 02, Token = f7f6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3409569282, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAATwTgESAn/0ABZcqrGI0eNMsiE1zOSfYxeW8crAU4aXpXbLLlGBtc41jwQm89sGO3tNZuPOz4MN833w=='}}
0:24:55.950031	LOG	Server ----------> DUT
0:24:55.953001	LOG	Send Test Command TxFramesCtrlReq process completed
0:24:55.955999	LOG	Check previous uplink data rate process starts
0:24:55.960005	LOG	Uplink received with expected Data Rate
0:24:55.964031	LOG	Send Test Command TxFramesCtrlReq process starts
0:24:56.577343	LOG	GPS Time updated: 1385117545167
0:24:56.578342	LOG	PULL_DATA: 02 f1bb 02 0016c001ff1025bf
0:24:56.580378	LOG	PULL_ACK: 02 f1bb 04
0:25:00.832167	LOG	First uplink received. Open reception window.
0:25:00.939728	LOG	PUSH_ACK: 02 4ef9 01
0:25:00.941743	LOG	GPS Time from gateway: 1385117549424
0:25:00.943925	LOG	PUSH_DATA: Protocol version = 02, Token = 4ef9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3413569029, 'time': '2023-11-27T10:52:10.424039Z', 'tmms': 1385117549424, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3221, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAdAcC1iF1Hy2GMjRBhsk='}]}
0:25:00.944939	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0774, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 344186c9)
0:25:00.946930	LOG	Server <---------- DUT
0:25:00.947929	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0450, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 36b00c4a)
0:25:00.949928	LOG	Frame command sent to the DUT
0:25:00.950928	LOG	PULL_RESP: Protocol version = 02, Token = 11ec, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3414569029, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAUATgRAbKte9pyl9cMoppfA1O6GzxpY3w6WI2uPF+ZD1oXSEQ3wQ3CT858hz30UZSwgslBQfBNrAMSg=='}}
0:25:00.952896	LOG	Server ----------> DUT
0:25:00.955900	LOG	Send Test Command TxFramesCtrlReq process completed
0:25:00.958895	LOG	Check previous uplink data rate process starts
0:25:00.962900	LOG	Uplink received with expected Data Rate
0:25:00.966901	LOG	Send Test Command TxFramesCtrlReq process starts
0:25:05.834407	LOG	First uplink received. Open reception window.
0:25:05.936186	LOG	PUSH_ACK: 02 84e5 01

0:25:05.938152	LOG	GPS Time from gateway: 1385117554424
0:25:05.940154	LOG	PUSH_DATA: Protocol version = 02, Token = 84e5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3418568779, 'time': '2023-11-27T10:52:15.423788Z', 'tmms': 1385117554424, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3221, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAdQcC2qwk4yJsBgYCVec='}]}
0:25:05.941190	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0775, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 060255e7)
0:25:05.943191	LOG	Server <---------- DUT
0:25:05.945300	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0451, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 0d9199b2)
0:25:05.947332	LOG	Frame command sent to the DUT
0:25:05.948331	LOG	PULL_RESP: Protocol version = 02, Token = 2f39, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3419568779, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAUQTgIS5ezozjlnGvYLWTA0bQPCr8W5BZ9Fv0lZhQWz4XxBepgHNQSmZwcFMa8cvtw8QUNj8vDZGZsg==''}}
0:25:05.949333	LOG	Server ----------> DUT
0:25:05.952302	LOG	Send Test Command TxFramesCtrlReq process completed
0:25:05.955332	LOG	Check previous uplink data rate process starts
0:25:05.959298	LOG	Uplink received with expected Data Rate
0:25:05.963303	LOG	Send Test Command TxFramesCtrlReq process starts
0:25:06.786486	LOG	GPS Time updated: 1385117555376
0:25:06.788610	LOG	PULL_DATA: 02 8043 02 0016c001ff1025bf
0:25:06.789644	LOG	PULL_ACK: 02 8043 04
0:25:10.832885	LOG	#**********CURRENT BEACON SENT**********#
0:25:10.833884	LOG	PULL_RESP: Protocol version = 02, Token = 3926, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385117568000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAN49SHOwAAAAAAAAAAA='}}
0:25:10.835890	LOG	Server ----------> DUT
0:25:10.837902	LOG	#**********#
0:25:10.846941	LOG	#**********NEXT BEACON QUEUED**********#
0:25:10.847939	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385117696000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAOI9SFR0AAAAAAAAAAA='}}
0:25:10.849475	LOG	Server ----------> DUT
0:25:10.851482	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 00388f52, CRC1: 151d, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385117696000
0:25:10.853514	LOG	#**********#
0:25:10.854512	LOG	Next BEACON scheduled at GPS time (ms): 1385117824000
0:25:10.856481	LOG	First uplink received. Open reception window.
0:25:10.857481	LOG	TX_ACK: 02 3926 05 0016c001ff1025bf
0:25:10.957120	LOG	PUSH_ACK: 02 2551 01
0:25:10.959084	LOG	GPS Time from gateway: 1385117559424
0:25:10.960090	LOG	PUSH_DATA: Protocol version = 02, Token = 2551, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3423568518, 'time': '2023-11-27T10:52:20.423527Z',

		'tmms': 1385117559424, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.5, 'foff': -3223, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAdgcC37xkRZKNd9DTyLI='}]}
0:25:10.962116	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0776, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d0d3c8b2)
0:25:10.963121	LOG	Server <---------- DUT
0:25:10.965121	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0452, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 87986338)
0:25:10.966121	LOG	Frame command sent to the DUT
0:25:10.968122	LOG	PULL_RESP: Protocol version = 02, Token = 9aaf, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3424568518, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAUgTgxlHZxAED9RmclWS2SukX0/9TjvZEBnHjPQm4QLzprKhOu9wy9WAYl6mn5BkrVK5F/4p0h5hjOA=='}}
0:25:10.969121	LOG	Server ----------> DUT
0:25:10.972099	LOG	Send Test Command TxFramesCtrlReq process completed
0:25:10.975302	LOG	Check previous uplink data rate process starts
0:25:10.979332	LOG	Uplink received with expected Data Rate
0:25:10.982331	LOG	Send Test Command TxFramesCtrlReq process starts
0:25:15.832955	LOG	First uplink received. Open reception window.
0:25:15.935555	LOG	PUSH_ACK: 02 0667 01
0:25:15.937586	LOG	GPS Time from gateway: 1385117564423
0:25:15.938592	LOG	PUSH_DATA: Protocol version = 02, Token = 0667, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3428568256, 'time': '2023-11-27T10:52:25.423264Z', 'tmms': 1385117564423, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3225, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAdwcCtM1uyFg6vZTy8t0='}]}
0:25:15.940606	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0777, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 94f2f2dd)
0:25:15.941593	LOG	Server <---------- DUT
0:25:15.944135	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0453, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 8ee9513c)
0:25:15.946167	LOG	Frame command sent to the DUT
0:25:15.947167	LOG	PULL_RESP: Protocol version = 02, Token = b23e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3429568256, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAUwTgNvygYWQb940P/2bHyMAliZWQ2SHtqzSrW/YF9jc+9p+AgT5A8Ct9OCaJ0M7NM5TeY4a9julRPA=='}}
0:25:15.949166	LOG	Server ----------> DUT
0:25:15.951137	LOG	Send Test Command TxFramesCtrlReq process completed
0:25:15.954166	LOG	Check previous uplink data rate process starts
0:25:15.959134	LOG	Uplink received with expected Data Rate
0:25:15.962138	LOG	Send Test Command TxFramesCtrlReq process starts
0:25:16.996453	LOG	GPS Time updated: 1385117565587
0:25:16.998422	LOG	PULL_DATA: 02 0f12 02 0016c001ff1025bf
0:25:16.999457	LOG	PULL_ACK: 02 0f12 04
0:25:20.839268	LOG	First uplink received. Open reception window.
0:25:20.941973	LOG	PUSH_ACK: 02 c014 01
0:25:20.944059	LOG	GPS Time from gateway: 1385117569423

0:25:20.946058	LOG	PUSH_DATA: Protocol version = 02, Token = c014, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3433568009, 'time': '2023-11-27T10:52:30.423016Z', 'tmms': 1385117569423, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3232, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAeAcClmrnOqBKtIWYvOg='}]}
0:25:20.947058	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0778, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8598bce8)
0:25:20.948057	LOG	Server <---------- DUT
0:25:20.950056	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0454, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 49df0a0d)
0:25:20.952059	LOG	Frame command sent to the DUT
0:25:20.953090	LOG	PULL_RESP: Protocol version = 02, Token = 8c15, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3434568009, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAVATgS6AHGlx4UpQ1KNi1siL5O851GHbbNVqpYLwJEt83TMFU0y06Q5IjecFUkaamKf5sKc1uSd8KDQ=='}}
0:25:20.954091	LOG	Server ----------> DUT
0:25:20.957060	LOG	Send Test Command TxFramesCtrlReq process completed
0:25:20.960060	LOG	Check previous uplink data rate process starts
0:25:20.965061	LOG	Uplink received with expected Data Rate
0:25:20.968063	LOG	Send Test Command TxFramesCtrlReq process starts
0:25:25.834347	LOG	First uplink received. Open reception window.
0:25:25.950033	LOG	PUSH_ACK: 02 1ec9 01
0:25:25.952002	LOG	GPS Time from gateway: 1385117574423
0:25:25.953002	LOG	PUSH_DATA: Protocol version = 02, Token = 1ec9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3438567758, 'time': '2023-11-27T10:52:35.422764Z', 'tmms': 1385117574423, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.0, 'foff': -3232, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAeQcC9PJ9S5a32d2wwAM='}]}
0:25:25.955002	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0779, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ddb0c003)
0:25:25.956038	LOG	Server <---------- DUT
0:25:25.958034	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0455, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: d03dd37e)
0:25:25.960075	LOG	Frame command sent to the DUT
0:25:25.961045	LOG	PULL_RESP: Protocol version = 02, Token = 3421, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3439567758, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAVQTgALVkPGOQn/8q8n0CHBMkGiM7iTwQ4IS0uMQowoueIH+tzUcIADp7/uBfOm1Z3TJXiUZC0D3Tfg=='}}
0:25:25.963078	LOG	Server ----------> DUT
0:25:25.966043	LOG	Send Test Command TxFramesCtrlReq process completed
0:25:25.968076	LOG	Check previous uplink data rate process starts
0:25:25.973041	LOG	Uplink received with expected Data Rate
0:25:25.977279	LOG	Send Test Command TxFramesCtrlReq process starts
0:25:27.006603	LOG	GPS Time updated: 1385117575595
0:25:27.007590	LOG	PULL_DATA: 02 e310 02 0016c001ff1025bf
0:25:27.009569	LOG	PULL_ACK: 02 e310 04
0:25:30.829484	LOG	First uplink received. Open reception window.
0:25:30.934669	LOG	PUSH_ACK: 02 8fbf 01

0:25:30.936665	LOG	GPS Time from gateway: 1385117579422
0:25:30.937667	LOG	PUSH_DATA: Protocol version = 02, Token = 8fbf, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3443567490, 'time': '2023-11-27T10:52:40.422494Z', 'tmms': 1385117579422, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.5, 'foff': -3233, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAegcC2kC44HpM0YkrRUE='}]}
0:25:30.939662	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 077a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 892b4541)
0:25:30.940672	LOG	Server <---------- DUT
0:25:30.941638	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0456, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 2ddcba82)
0:25:30.944214	LOG	Frame command sent to the DUT
0:25:30.946214	LOG	PULL_RESP: Protocol version = 02, Token = d1f8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3444567490, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAVgTgnsOk7sljsdHcySmDn6Gk+IbG/HZYOZx1Y0ZZHmmfte2pwn2iBjDWlAhHUoNeBjWTsSuyLdy6gg==''}}
0:25:30.947214	LOG	Server ----------> DUT
0:25:30.950182	LOG	Send Test Command TxFramesCtrlReq process completed
0:25:30.953181	LOG	Check previous uplink data rate process starts
0:25:30.957181	LOG	Uplink received with expected Data Rate
0:25:30.961187	LOG	Send Test Command TxFramesCtrlReq process starts
0:25:35.902521	LOG	Multiple frames received. Selecting the correct frame...
0:25:35.904554	LOG	Frame selected: {'jver': 1, 'tmst': 3448633829, 'time': '2023-11-27T10:52:45.488834Z', 'tmms': 1385117584489, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3233, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAewcC4Fnw28uVA2WZSCA='}
0:25:35.905557	LOG	First uplink received. Open reception window.
0:25:36.020742	LOG	PUSH_ACK: 02 b8aa 01
0:25:36.022743	LOG	GPS Time from gateway: 1385117584489
0:25:36.023744	LOG	PUSH_DATA: Protocol version = 02, Token = b8aa, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3448633821, 'time': '2023-11-27T10:52:45.488826Z', 'tmms': 1385117584489, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.5, 'foff': -3174, 'rssi': -113, 'size': 20, 'data': 'QAAAAACAewcC4Fnw28uVA2WZSCA='}, {'jver': 1, 'tmst': 3448633829, 'time': '2023-11-27T10:52:45.488834Z', 'tmms': 1385117584489, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3233, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAewcC4Fnw28uVA2WZSCA='}]}
0:25:36.025778	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 077b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 65994820)
0:25:36.026778	LOG	Server <---------- DUT
0:25:36.028744	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0457, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 2e1e8229)
0:25:36.030747	LOG	Frame command sent to the DUT
0:25:36.031841	LOG	PULL_RESP: Protocol version = 02, Token = 2264, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3449633829, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAVwTgc0KkvZv55FZQxV+LDgRwtrBH+Fp2FOYiIgd5UPBWh1BIZvnzTlsnfkT1OriknsPBb+MWLh6CKQ==''}}

0:25:36.033881	LOG	Server ----------> DUT
0:25:36.036843	LOG	Send Test Command TxFramesCtrlReq process completed
0:25:36.039922	LOG	Check previous uplink data rate process starts
0:25:36.044268	LOG	Uplink received with expected Data Rate
0:25:36.048125	LOG	Send Test Command TxFramesCtrlReq process starts
0:25:37.085959	LOG	GPS Time updated: 1385117585669
0:25:37.087960	LOG	PULL_DATA: 02 5e3c 02 0016c001ff1025bf
0:25:37.088927	LOG	PULL_ACK: 02 5e3c 04
0:25:40.834005	LOG	First uplink received. Open reception window.
0:25:40.949181	LOG	PUSH_ACK: 02 8fde 01
0:25:40.951150	LOG	GPS Time from gateway: 1385117589422
0:25:40.952149	LOG	PUSH_DATA: Protocol version = 02, Token = 8fde, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3453566981, 'time': '2023-11-27T10:52:50.421985Z', 'tmms': 1385117589422, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3235, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAfAcCiDKRuTZXNipRsfA='}]}
0:25:40.954149	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 077c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2a51b1f0)
0:25:40.955149	LOG	Server <---------- DUT
0:25:40.957150	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0458, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: d1efa7e7)
0:25:40.958149	LOG	Frame command sent to the DUT
0:25:40.960154	LOG	PULL_RESP: Protocol version = 02, Token = f07d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3454566981, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAWATgORYFyQ1nLYiLLozI7xy6OCREzXMX1tDvk4+Kt9lX4tGEin/pJsqQAhnXjbGSqLBJfiLz0e+n5w=='}}
0:25:40.961154	LOG	Server ----------> DUT
0:25:40.964157	LOG	Send Test Command TxFramesCtrlReq process completed
0:25:40.967155	LOG	Check previous uplink data rate process starts
0:25:40.971155	LOG	Uplink received with expected Data Rate
0:25:40.974153	LOG	Send Test Command TxFramesCtrlReq process starts
0:25:45.837803	LOG	First uplink received. Open reception window.
0:25:45.939194	LOG	PUSH_ACK: 02 e5a5 01
0:25:45.940231	LOG	GPS Time from gateway: 1385117594422
0:25:45.941768	LOG	PUSH_DATA: Protocol version = 02, Token = e5a5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3458566715, 'time': '2023-11-27T10:52:55.421718Z', 'tmms': 1385117594422, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3232, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAfQcCeQBOpiMdV0cmYDA='}]}
0:25:45.944321	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 077d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 47266030)
0:25:45.945320	LOG	Server <---------- DUT
0:25:45.947320	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0459, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 7e867a5d)
0:25:45.949355	LOG	Frame command sent to the DUT
0:25:45.950352	LOG	PULL_RESP: Protocol version = 02, Token = 8ad2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3459566715, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data':

		'YAAAAAAAWQTgsDX7KrA5EhFqHFyQfZ43lFC4kZQwAVamIPh96XBK4h+G+RPkiQyEMVqoB2COI/AxFO4QfoZ6XQ==''}}
0:25:45.951352	LOG	Server ----------> DUT
0:25:45.954321	LOG	Send Test Command TxFramesCtrlReq process completed
0:25:45.957332	LOG	Check previous uplink data rate process starts
0:25:45.961356	LOG	Uplink received with expected Data Rate
0:25:45.964355	LOG	Send Test Command TxFramesCtrlReq process starts
0:25:47.206891	LOG	GPS Time updated: 1385117595790
0:25:47.207891	LOG	PULL_DATA: 02 c3c4 02 0016c001ff1025bf
0:25:47.209947	LOG	PULL_ACK: 02 c3c4 04
0:25:50.836493	LOG	First uplink received. Open reception window.
0:25:50.940074	LOG	PUSH_ACK: 02 94c9 01
0:25:50.942040	LOG	GPS Time from gateway: 1385117599421
0:25:50.943039	LOG	PUSH_DATA: Protocol version = 02, Token = 94c9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3463566471, 'time': '2023-11-27T10:53:00.421472Z', 'tmms': 1385117599421, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.5, 'foff': -3235, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAfgcCd3HbFqCW2xppGpw='}]}
0:25:50.945420	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 077e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1a691a9c)
0:25:50.947418	LOG	Server <---------- DUT
0:25:50.948460	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 045a, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 108ddba6)
0:25:50.950680	LOG	Frame command sent to the DUT
0:25:50.951711	LOG	PULL_RESP: Protocol version = 02, Token = 1578, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3464566471, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAWgTgpMu4dGHoEUVMZdSNX8zisCfPJBTh5Hgw6sDdwtMcPwdlzIKdIszsMIYAu5keTS5oHGO0EI3bpg==''}}
0:25:50.953680	LOG	Server ----------> DUT
0:25:50.955724	LOG	Send Test Command TxFramesCtrlReq process completed
0:25:50.958713	LOG	Check previous uplink data rate process starts
0:25:50.962717	LOG	Uplink received with expected Data Rate
0:25:50.966717	LOG	Send Test Command TxFramesCtrlReq process starts
0:25:55.834927	LOG	First uplink received. Open reception window.
0:25:55.948714	LOG	PUSH_ACK: 02 2ca4 01
0:25:55.950715	LOG	GPS Time from gateway: 1385117604421
0:25:55.952717	LOG	PUSH_DATA: Protocol version = 02, Token = 2ca4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3468566215, 'time': '2023-11-27T10:53:05.421217Z', 'tmms': 1385117604421, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3234, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAfwcCm12cPzJoT0O12fo='}]}
0:25:55.954221	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 077f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 43b5d9fa)
0:25:55.955226	LOG	Server <---------- DUT
0:25:55.957229	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 045b, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 07d507d1)
0:25:55.959228	LOG	Frame command sent to the DUT
0:25:55.960267	LOG	PULL_RESP: Protocol version = 02, Token = 44e1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3469566215, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size':

		64, 'data': 'YAAAAAAAWwTgHUU+5gaMPLcBFQtsNhb8SvOGeRzpGk0WXX8g7TXuJjcATqwAlwX+3HsK8k6N80EO0L3WB9UH0Q==''}}
0:25:55.961270	LOG	Server ----------> DUT
0:25:55.964268	LOG	Send Test Command TxFramesCtrlReq process completed
0:25:55.967264	LOG	Check previous uplink data rate process starts
0:25:55.971877	LOG	Uplink received with expected Data Rate
0:25:55.975617	LOG	Send Test Command TxFramesCtrlReq process starts
0:25:57.215875	LOG	GPS Time updated: 1385117605802
0:25:57.217843	LOG	PULL_DATA: 02 db43 02 0016c001ff1025bf
0:25:57.218843	LOG	PULL_ACK: 02 db43 04
0:26:00.827343	LOG	First uplink received. Open reception window.
0:26:00.941747	LOG	PUSH_ACK: 02 653a 01
0:26:00.944259	LOG	GPS Time from gateway: 1385117609421
0:26:00.946302	LOG	PUSH_DATA: Protocol version = 02, Token = 653a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3473565954, 'time': '2023-11-27T10:53:10.420955Z', 'tmms': 1385117609421, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.2, 'foff': -3234, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAgAcCUV8a1LB22lYWI9c='}]}
0:26:00.947301	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0780, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 561623d7)
0:26:00.949300	LOG	Server <---------- DUT
0:26:00.951299	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 045c, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 9a73b2c0)
0:26:00.952298	LOG	Frame command sent to the DUT
0:26:00.954299	LOG	PULL_RESP: Protocol version = 02, Token = b171, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3474565954, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAXATgBp2C6QQkAukrmjMxZdjoVjyTJFHMcLkWbL1bcgUwXmACFletYXY2xc1W0e8AxqTkg20vmnOywA==''}}
0:26:00.955299	LOG	Server ----------> DUT
0:26:00.959301	LOG	Send Test Command TxFramesCtrlReq process completed
0:26:00.961803	LOG	Check previous uplink data rate process starts
0:26:00.965809	LOG	Uplink received with expected Data Rate
0:26:00.969808	LOG	Send Test Command TxFramesCtrlReq process starts
0:26:05.831966	LOG	First uplink received. Open reception window.
0:26:05.934018	LOG	PUSH_ACK: 02 c468 01
0:26:05.936019	LOG	GPS Time from gateway: 1385117614421
0:26:05.938017	LOG	PUSH_DATA: Protocol version = 02, Token = c468, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3478565695, 'time': '2023-11-27T10:53:15.420695Z', 'tmms': 1385117614421, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.2, 'foff': -3235, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAgQcCv2qwKZ2wtDPAVYc='}]}
0:26:05.939017	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0781, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 33c05587)
0:26:05.940017	LOG	Server <---------- DUT
0:26:05.941985	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 045d, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: a4e43a0c)
0:26:05.944234	LOG	Frame command sent to the DUT
0:26:05.946232	LOG	PULL_RESP: Protocol version = 02, Token = eb58, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3479565695, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF11BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAXQTg8xGnk0cVV1kRY8byDK0RHXmIoi+nElUovgJHmUu4392dTOkJWAw4I5C7ebx9JziTRp4ypOQ6DA==''}}
0:26:05.947261	LOG	Server ----------> DUT
0:26:05.951226	LOG	Send Test Command TxFramesCtrlReq process completed
0:26:05.954231	LOG	Check previous uplink data rate process starts
0:26:05.958229	LOG	Uplink received with expected Data Rate
0:26:05.962230	LOG	Send Test Command TxFramesCtrlReq process starts
0:26:07.416570	LOG	GPS Time updated: 1385117616005
0:26:07.417567	LOG	PULL_DATA: 02 a9fb 02 0016c001ff1025bf
0:26:07.419537	LOG	PULL_ACK: 02 a9fb 04
0:26:10.830274	LOG	First uplink received. Open reception window.
0:26:10.945297	LOG	PUSH_ACK: 02 4562 01
0:26:10.947262	LOG	GPS Time from gateway: 1385117619420
0:26:10.948263	LOG	PUSH_DATA: Protocol version = 02, Token = 4562, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3483565442, 'time': '2023-11-27T10:53:20.420440Z', 'tmms': 1385117619420, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.8, 'foff': -3238, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAggcCmDXSMmd7nk0wEiQ='}]}
0:26:10.950265	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0782, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4d301224)
0:26:10.952263	LOG	Server <---------- DUT
0:26:10.954262	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 045e, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 86a15f11)
0:26:10.955261	LOG	Frame command sent to the DUT
0:26:10.957265	LOG	PULL_RESP: Protocol version = 02, Token = ebba, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3484565442, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAXgTg0pxSXpaHBXMKt2rsJae+rtYz83ov7xLkQFViG5Awv5M+q9swwVhhm1GVoKuV5MxQeE61hqFfEQ==''}}
0:26:10.958265	LOG	Server ----------> DUT
0:26:10.961269	LOG	Send Test Command TxFramesCtrlReq process completed
0:26:10.964265	LOG	Check previous uplink data rate process starts
0:26:10.968300	LOG	Uplink received with expected Data Rate
0:26:10.971877	LOG	Send Test Command TxFramesCtrlReq process starts
0:26:15.827149	LOG	First uplink received. Open reception window.
0:26:15.936787	LOG	PUSH_ACK: 02 a5a3 01
0:26:15.938755	LOG	GPS Time from gateway: 1385117624420
0:26:15.939755	LOG	PUSH_DATA: Protocol version = 02, Token = a5a3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3488565178, 'time': '2023-11-27T10:53:25.420177Z', 'tmms': 1385117624420, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3241, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAgwcCBzZHznB7d182oXU='}]}
0:26:15.941761	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0783, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5f36a175)
0:26:15.941761	LOG	Server <---------- DUT
0:26:15.945274	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 045f, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: aa7b0512)
0:26:15.946273	LOG	Frame command sent to the DUT

0:26:15.948273	LOG	PULL_RESP: Protocol version = 02, Token = 8112, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3489565178, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAXwTg2bx4fIxxUaqPII5757VQKP+Kz4Z6jp3kOOCVBJyzbL1TJHJ6FHYyMD2+th4z6ZQDdJ5DqnsFEg==''}}
0:26:15.949273	LOG	Server ----------> DUT
0:26:15.952275	LOG	Send Test Command TxFramesCtrlReq process completed
0:26:15.955304	LOG	Check previous uplink data rate process starts
0:26:15.959273	LOG	Uplink received with expected Data Rate
0:26:15.963277	LOG	Send Test Command TxFramesCtrlReq process starts
0:26:17.635662	LOG	GPS Time updated: 1385117626229
0:26:17.637662	LOG	PULL_DATA: 02 9e34 02 0016c001ff1025bf
0:26:17.639697	LOG	PULL_ACK: 02 9e34 04
0:26:20.828323	LOG	First uplink received. Open reception window.
0:26:20.932848	LOG	PUSH_ACK: 02 a666 01
0:26:20.934855	LOG	GPS Time from gateway: 1385117629420
0:26:20.935888	LOG	PUSH_DATA: Protocol version = 02, Token = a666, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3493564927, 'time': '2023-11-27T10:53:30.419925Z', 'tmms': 1385117629420, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.2, 'foff': -3242, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAhAcC5QbePlaDyyDoztw='}]}
0:26:20.937882	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0784, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 20e8cedc)
0:26:20.938881	LOG	Server <---------- DUT
0:26:20.940849	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0460, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 043ddbb7)
0:26:20.941881	LOG	Frame command sent to the DUT
0:26:20.944018	LOG	PULL_RESP: Protocol version = 02, Token = 8ab4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3494564927, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAYATgLgyWTQEtv0/fVR2GQjRtmOBUrAF9R6YbhJ4V0+NgnRoLCTPKnR//doDVPXZG9ICKX0eUBD3btw==''}}
0:26:20.945991	LOG	Server ----------> DUT
0:26:20.948977	LOG	Send Test Command TxFramesCtrlReq process completed
0:26:20.951989	LOG	Check previous uplink data rate process starts
0:26:20.955979	LOG	Uplink received with expected Data Rate
0:26:20.959984	LOG	Send Test Command TxFramesCtrlReq process starts
0:26:25.834093	LOG	First uplink received. Open reception window.
0:26:25.940013	LOG	PUSH_ACK: 02 2b57 01
0:26:25.942006	LOG	GPS Time from gateway: 1385117634420
0:26:25.943012	LOG	PUSH_DATA: Protocol version = 02, Token = 2b57, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3498564671, 'time': '2023-11-27T10:53:35.419668Z', 'tmms': 1385117634420, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3243, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAhQcCaSvs6h/4cUSwWLY='}]}
0:26:25.945147	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0785, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 44b058b6)
0:26:25.947112	LOG	Server <---------- DUT
0:26:25.949111	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0461, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c98e47a7)

0:26:25.950110	LOG	Frame command sent to the DUT
0:26:25.952111	LOG	PULL_RESP: Protocol version = 02, Token = e9ec, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3499564671, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAYQTgxUljhl4Zvj0Qua57WpNCFUAOvRJsJ2XZj4kVcrUF1a84Gm42paNMoJ7HCTbZIBRL8YybyY5Hpw==''}}
0:26:25.953111	LOG	Server ----------> DUT
0:26:25.956112	LOG	Send Test Command TxFramesCtrlReq process completed
0:26:25.959144	LOG	Check previous uplink data rate process starts
0:26:25.963148	LOG	Uplink received with expected Data Rate
0:26:25.966147	LOG	Send Test Command TxFramesCtrlReq process starts
0:26:27.846382	LOG	GPS Time updated: 1385117636432
0:26:27.847381	LOG	PULL_DATA: 02 3357 02 0016c001ff1025bf
0:26:27.849393	LOG	PULL_ACK: 02 3357 04
0:26:30.824765	LOG	First uplink received. Open reception window.
0:26:30.929016	LOG	PUSH_ACK: 02 aaf1 01
0:26:30.931019	LOG	GPS Time from gateway: 1385117639419
0:26:30.932001	LOG	PUSH_DATA: Protocol version = 02, Token = aaf1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3503564416, 'time': '2023-11-27T10:53:40.419411Z', 'tmms': 1385117639419, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3243, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAhgcCaNK3vZAsw3R4jL8='}]}
0:26:30.933984	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0786, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 74788cbf)
0:26:30.935021	LOG	Server <---------- DUT
0:26:30.936987	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0462, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 8dde5a53)
0:26:30.939037	LOG	Frame command sent to the DUT
0:26:30.940023	LOG	PULL_RESP: Protocol version = 02, Token = 2f7a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3504564416, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAYgTgEiHt+UuQcfM4qhozodoYkB3IJwyFukRys2/Yk8Twaj6Cr+aYyNpDvwdRgP98bK1YA6Fsjd5aUw==''}}
0:26:30.941021	LOG	Server ----------> DUT
0:26:30.944128	LOG	Send Test Command TxFramesCtrlReq process completed
0:26:30.947128	LOG	Check previous uplink data rate process starts
0:26:30.952134	LOG	Uplink received with expected Data Rate
0:26:30.955160	LOG	Send Test Command TxFramesCtrlReq process starts
0:26:35.829318	LOG	First uplink received. Open reception window.
0:26:35.940961	LOG	PUSH_ACK: 02 2c49 01
0:26:35.942929	LOG	GPS Time from gateway: 1385117644419
0:26:35.945082	LOG	PUSH_DATA: Protocol version = 02, Token = 2c49, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3508564170, 'time': '2023-11-27T10:53:45.419166Z', 'tmms': 1385117644419, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.5, 'foff': -3242, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAhwcCluGEQrLCN3soX+M='}]}
0:26:35.947082	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0787, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7b285fe3)
0:26:35.948081	LOG	Server <---------- DUT
0:26:35.950082	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0463, FOpts:), FPort: e0, FRMPayload:

		07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 3380017c)
0:26:35.952081	LOG	Frame command sent to the DUT
0:26:35.953114	LOG	PULL_RESP: Protocol version = 02, Token = 7e98, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3509564170, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAYwTgDH5k57h7BQZBsia7WvvCJDZyuc/adJ5JLpukY3xPe7+raJULvgrOhsLPo6Xze9OpE9qEM4ABfA==''}}
0:26:35.955081	LOG	Server ----------> DUT
0:26:35.958081	LOG	Send Test Command TxFramesCtrlReq process completed
0:26:35.961126	LOG	Check previous uplink data rate process starts
0:26:35.965124	LOG	Uplink received with expected Data Rate
0:26:35.968124	LOG	Send Test Command TxFramesCtrlReq process starts
0:26:38.056145	LOG	GPS Time updated: 1385117646646
0:26:38.057178	LOG	PULL_DATA: 02 faf0 02 0016c001ff1025bf
0:26:38.059146	LOG	PULL_ACK: 02 faf0 04
0:26:40.829183	LOG	First uplink received. Open reception window.
0:26:40.936182	LOG	PUSH_ACK: 02 b2a3 01
0:26:40.938149	LOG	GPS Time from gateway: 1385117649419
0:26:40.939149	LOG	PUSH_DATA: Protocol version = 02, Token = b2a3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3513563907, 'time': '2023-11-27T10:53:50.418902Z', 'tmms': 1385117649419, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3245, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAiAcCoRecEk/O0nV0FFU='}]}
0:26:40.941155	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0788, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 75741455)
0:26:40.942154	LOG	Server <---------- DUT
0:26:40.944550	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0464, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 5b42e31d)
0:26:40.946581	LOG	Frame command sent to the DUT
0:26:40.947583	LOG	PULL_RESP: Protocol version = 02, Token = 4e4d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3514563907, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAZATgEHrqKOax29LepdTiKlk9Mxf/UNLFvUFu53jveKWnENTaSJiiW9NGA6440K2Bq75smZn/W0LjHQ==''}}
0:26:40.948583	LOG	Server ----------> DUT
0:26:40.951581	LOG	Send Test Command TxFramesCtrlReq process completed
0:26:40.954546	LOG	Check previous uplink data rate process starts
0:26:40.958548	LOG	Uplink received with expected Data Rate
0:26:40.962554	LOG	Send Test Command TxFramesCtrlReq process starts
0:26:45.829357	LOG	First uplink received. Open reception window.
0:26:45.932835	LOG	PUSH_ACK: 02 0590 01
0:26:45.934851	LOG	GPS Time from gateway: 1385117654419
0:26:45.936806	LOG	PUSH_DATA: Protocol version = 02, Token = 0590, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3518563656, 'time': '2023-11-27T10:53:55.418650Z', 'tmms': 1385117654419, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3246, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAiQcC3pxWVGvofnYKcLc='}]}
0:26:45.937804	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0789, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 760a70b7)
0:26:45.939848	LOG	Server <---------- DUT

0:26:45.941842	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0465, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: b02fd6e3)
0:26:45.943378	LOG	Frame command sent to the DUT
0:26:45.944415	LOG	PULL_RESP: Protocol version = 02, Token = b0ae, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3519563656, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAZQTgkQXhwpSL8y5dmLDc0nLqx53xx4qQSn2fFQW5SKIX1rO0IF5YH9feisJQOVthxEyVfl/EsC/W4w==''}}
0:26:45.946419	LOG	Server ----------> DUT
0:26:45.948418	LOG	Send Test Command TxFramesCtrlReq process completed
0:26:45.951418	LOG	Check previous uplink data rate process starts
0:26:45.956383	LOG	Uplink received with expected Data Rate
0:26:45.959386	LOG	Send Test Command TxFramesCtrlReq process starts
0:26:48.256350	LOG	GPS Time updated: 1385117656846
0:26:48.257354	LOG	PULL_DATA: 02 9ba4 02 0016c001ff1025bf
0:26:48.259355	LOG	PULL_ACK: 02 9ba4 04
0:26:50.832362	LOG	First uplink received. Open reception window.
0:26:50.945261	LOG	PUSH_ACK: 02 c26b 01
0:26:50.947257	LOG	GPS Time from gateway: 1385117659418
0:26:50.948257	LOG	PUSH_DATA: Protocol version = 02, Token = c26b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3523563388, 'time': '2023-11-27T10:54:00.418380Z', 'tmms': 1385117659418, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3247, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAigcCyQF7jt0L7uvEfxA='}]}
0:26:50.950257	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 078a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ebc47f10)
0:26:50.951257	LOG	Server <---------- DUT
0:26:50.953290	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0466, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: e0e1a28f)
0:26:50.955304	LOG	Frame command sent to the DUT
0:26:50.956295	LOG	PULL_RESP: Protocol version = 02, Token = afda, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3524563388, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAZgTgY9t1no/XbM8eT/Epv0WedMMUvvkmJ/OzPyXAiu8Wu8u3TLf76ovuVY3PmguLWIMjHxan4OGijw==''}}
0:26:50.957258	LOG	Server ----------> DUT
0:26:50.960259	LOG	Send Test Command TxFramesCtrlReq process completed
0:26:50.963261	LOG	Check previous uplink data rate process starts
0:26:50.968261	LOG	Uplink received with expected Data Rate
0:26:50.971260	LOG	Send Test Command TxFramesCtrlReq process starts
0:26:55.889568	LOG	First uplink received. Open reception window.
0:26:56.000715	LOG	PUSH_ACK: 02 8385 01
0:26:56.002715	LOG	GPS Time from gateway: 1385117664485
0:26:56.003717	LOG	PUSH_DATA: Protocol version = 02, Token = 8385, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3528629726, 'time': '2023-11-27T10:54:05.484719Z', 'tmms': 1385117664485, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.5, 'foff': -3246, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAiwcCc4OMS9lL/jqYwlQ='}]}
0:26:56.005692	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 078b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3a98c254)

0:26:56.007203	LOG	Server <---------- DUT
0:26:56.009204	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0467, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: b0e0b7c9)
0:26:56.011203	LOG	Frame command sent to the DUT
0:26:56.012203	LOG	PULL_RESP: Protocol version = 02, Token = 5bd6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3529629726, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAZwTgxugWAwM23fISpSRId6vOqctcnEPm8QpsHRmm9Nox6n3u0DQdJPoQHk/ixWhuESWrZpKisOC3yQ==''}}
0:26:56.014220	LOG	Server ----------> DUT
0:26:56.017222	LOG	Send Test Command TxFramesCtrlReq process completed
0:26:56.020220	LOG	Check previous uplink data rate process starts
0:26:56.024227	LOG	Uplink received with expected Data Rate
0:26:56.027224	LOG	Send Test Command TxFramesCtrlReq process starts
0:26:58.325977	LOG	GPS Time updated: 1385117666921
0:26:58.327977	LOG	PULL_DATA: 02 d5ae 02 0016c001ff1025bf
0:26:58.328977	LOG	PULL_ACK: 02 d5ae 04
0:27:00.823379	LOG	First uplink received. Open reception window.
0:27:00.931629	LOG	PUSH_ACK: 02 169f 01
0:27:00.933598	LOG	GPS Time from gateway: 1385117669418
0:27:00.934596	LOG	PUSH_DATA: Protocol version = 02, Token = 169f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3533562884, 'time': '2023-11-27T10:54:10.417876Z', 'tmms': 1385117669418, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.8, 'foff': -3249, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAjAcCxi20vkqWONP8MIo='}]}
0:27:00.936605	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 078c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d3fc308a)
0:27:00.937604	LOG	Server <---------- DUT
0:27:00.939605	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0468, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: d5da1a94)
0:27:00.941604	LOG	Frame command sent to the DUT
0:27:00.941604	LOG	PULL_RESP: Protocol version = 02, Token = ae59, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3534562884, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAaATg9AIUILTX7yMzJo3SfqmO1K9zw0uFjNWeHdBTyKeaFC4NDq5xYX5ooJ59PWXdVI5TIJnn1doalA==''}}
0:27:00.944150	LOG	Server ----------> DUT
0:27:00.947151	LOG	Send Test Command TxFramesCtrlReq process completed
0:27:00.951115	LOG	Check previous uplink data rate process starts
0:27:00.955113	LOG	Uplink received with expected Data Rate
0:27:00.959112	LOG	Send Test Command TxFramesCtrlReq process starts
0:27:05.822069	LOG	First uplink received. Open reception window.
0:27:05.927447	LOG	PUSH_ACK: 02 90ee 01
0:27:05.929484	LOG	GPS Time from gateway: 1385117674418
0:27:05.930484	LOG	PUSH_DATA: Protocol version = 02, Token = 90ee, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3538562626, 'time': '2023-11-27T10:54:15.417617Z', 'tmms': 1385117674418, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.0, 'foff': -3250, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAjQcCNWIxKTSOQFmY3Oo='}]}

0:27:05.932454	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 078d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5998dcea)
0:27:05.933484	LOG	Server <---------- DUT
0:27:05.935452	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0469, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: d3a58e6f)
0:27:05.936453	LOG	Frame command sent to the DUT
0:27:05.938487	LOG	PULL_RESP: Protocol version = 02, Token = 1334, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3539562626, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAaQTgIMk/0g0ZDoUgyjgCcu6WaVE3DmQg3nqtOszlilYeJ22Ccoh8J27QtFtRZdATsvfNMeN006WObw==''}}
0:27:05.939452	LOG	Server ----------> DUT
0:27:05.941450	LOG	Send Test Command TxFramesCtrlReq process completed
0:27:05.945964	LOG	Check previous uplink data rate process starts
0:27:05.950959	LOG	Uplink received with expected Data Rate
0:27:05.953958	LOG	Send Test Command TxFramesCtrlReq process starts
0:27:08.455790	LOG	GPS Time updated: 1385117677051
0:27:08.456793	LOG	PULL_DATA: 02 38cb 02 0016c001ff1025bf
0:27:08.458797	LOG	PULL_ACK: 02 38cb 04
0:27:10.821262	LOG	First uplink received. Open reception window.
0:27:10.935726	LOG	PUSH_ACK: 02 adea 01
0:27:10.937727	LOG	GPS Time from gateway: 1385117679417
0:27:10.938728	LOG	PUSH_DATA: Protocol version = 02, Token = adea, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3543562365, 'time': '2023-11-27T10:54:20.417354Z', 'tmms': 1385117679417, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3250, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAjgcCKJvEdPekir1okiE='}]}
0:27:10.940695	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 078e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: bd689221)
0:27:10.941694	LOG	Server <---------- DUT
0:27:10.944206	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 046a, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 41621eed)
0:27:10.946206	LOG	Frame command sent to the DUT
0:27:10.947236	LOG	PULL_RESP: Protocol version = 02, Token = a94b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3544562365, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAagTg0kPwWnygDGxcBtv0N28XysRV2YhVdOGZYvcE+jjPy/e2l+FtjtkL7LAOdFpUQQ/ahC6iQWIe7Q==''}}
0:27:10.949206	LOG	Server ----------> DUT
0:27:10.952206	LOG	Send Test Command TxFramesCtrlReq process completed
0:27:10.955206	LOG	Check previous uplink data rate process starts
0:27:10.959237	LOG	Uplink received with expected Data Rate
0:27:10.962242	LOG	Send Test Command TxFramesCtrlReq process starts
0:27:15.830794	LOG	First uplink received. Open reception window.
0:27:15.932165	LOG	PUSH_ACK: 02 e174 01
0:27:15.934134	LOG	GPS Time from gateway: 1385117684417
0:27:15.935639	LOG	PUSH_DATA: Protocol version = 02, Token = e174, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3548562117, 'time': '2023-11-27T10:54:25.417107Z', 'tmms': 1385117684417, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3251, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAjwcCaTTVmZ/iHY3UgWw='}]}
0:27:15.936644	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 078f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8dd4816c)
0:27:15.938644	LOG	Server <---------- DUT
0:27:15.940644	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 046b, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: dc10186c)
0:27:15.941644	LOG	Frame command sent to the DUT
0:27:15.943148	LOG	PULL_RESP: Protocol version = 02, Token = 046c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3549562117, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAawTgPFXZn5ZYLVyrE72HaZgYfX0kiXSd07/8+TNnAsuGPcrNdTe1kJXYM9ee1LDqHinhT1I93BAYbA=='}}
0:27:15.945154	LOG	Server ----------> DUT
0:27:15.948161	LOG	Send Test Command TxFramesCtrlReq process completed
0:27:15.951156	LOG	Check previous uplink data rate process starts
0:27:15.955187	LOG	Uplink received with expected Data Rate
0:27:15.959155	LOG	Send Test Command TxFramesCtrlReq process starts
0:27:18.465987	LOG	#**********CURRENT BEACON SENT**********#
0:27:18.466987	LOG	PULL_RESP: Protocol version = 02, Token = 7ccb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385117696000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAOI9SFR0AAAAAAAAAAA='}}
0:27:18.468990	LOG	Server ----------> DUT
0:27:18.469989	LOG	#**********#
0:27:18.479532	LOG	#**********NEXT BEACON QUEUED**********#
0:27:18.481534	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385117824000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAOI9SLcAAAAAAAAAAAA='}}
0:27:18.482531	LOG	Server ----------> DUT
0:27:18.484645	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 80388f52, CRC1: 2dc0, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385117824000
0:27:18.485706	LOG	#**********#
0:27:18.487053	LOG	Next BEACON scheduled at GPS time (ms): 1385117952000
0:27:18.488593	LOG	GPS Time updated: 1385117687075
0:27:18.489877	LOG	PULL_DATA: 02 18ee 02 0016c001ff1025bf
0:27:18.491825	LOG	PULL_ACK: 02 18ee 04
0:27:18.493556	LOG	TX_ACK: 02 7ccb 05 0016c001ff1025bf
0:27:20.824901	LOG	First uplink received. Open reception window.
0:27:20.927534	LOG	PUSH_ACK: 02 99da 01
0:27:20.929530	LOG	GPS Time from gateway: 1385117689417
0:27:20.930531	LOG	PUSH_DATA: Protocol version = 02, Token = 99da, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3553561857, 'time': '2023-11-27T10:54:30.416846Z', 'tmms': 1385117689417, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.8, 'foff': -3253, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAkAcCkj1RDy7SxzX4FSw='}]}
0:27:20.932498	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0790, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 35f8152c)

0:27:20.933531	LOG	Server <---------- DUT
0:27:20.935500	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 046c, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 35deef20)
0:27:20.936530	LOG	Frame command sent to the DUT
0:27:20.937530	LOG	PULL_RESP: Protocol version = 02, Token = dd21, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3554561857, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAbATgahM1nWJYgRqJh1P7uyL+j8gulnTBvOZlVh/iZWXSJQiVZmlDrPcY6uVghN26/gv55swfNd7vIA==''}}
0:27:20.939066	LOG	Server ----------> DUT
0:27:20.943071	LOG	Send Test Command TxFramesCtrlReq process completed
0:27:20.945611	LOG	Check previous uplink data rate process starts
0:27:20.950581	LOG	Uplink received with expected Data Rate
0:27:20.954590	LOG	Send Test Command TxFramesCtrlReq process starts
0:27:25.826102	LOG	First uplink received. Open reception window.
0:27:25.928156	LOG	PUSH_ACK: 02 591c 01
0:27:25.930160	LOG	GPS Time from gateway: 1385117694416
0:27:25.931160	LOG	PUSH_DATA: Protocol version = 02, Token = 591c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3558561597, 'time': '2023-11-27T10:54:35.416585Z', 'tmms': 1385117694416, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.8, 'foff': -3252, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAkQcC86b8r7rvnkSfWQY='}]}
0:27:25.933165	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0791, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 449f5906)
0:27:25.934166	LOG	Server <---------- DUT
0:27:25.936166	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 046d, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 0e544f53)
0:27:25.938166	LOG	Frame command sent to the DUT
0:27:25.939165	LOG	PULL_RESP: Protocol version = 02, Token = a347, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3559561597, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAbQTgH7aZOXT3ITMHcV+NAKegFusAfz1IGXE8bkn8GK09bTdps467bzFzj+/+ap4ady9H2n0gDlRPUw==''}}
0:27:25.940165	LOG	Server ----------> DUT
0:27:25.943671	LOG	Send Test Command TxFramesCtrlReq process completed
0:27:25.947188	LOG	Check previous uplink data rate process starts
0:27:25.951191	LOG	Uplink received with expected Data Rate
0:27:25.955194	LOG	Send Test Command TxFramesCtrlReq process starts
0:27:28.665972	LOG	GPS Time updated: 1385117697255
0:27:28.666971	LOG	PULL_DATA: 02 5f2e 02 0016c001ff1025bf
0:27:28.668972	LOG	PULL_ACK: 02 5f2e 04
0:27:30.820490	LOG	First uplink received. Open reception window.
0:27:30.927041	LOG	PUSH_ACK: 02 36cf 01
0:27:30.930047	LOG	GPS Time from gateway: 1385117699416
0:27:30.931057	LOG	PUSH_DATA: Protocol version = 02, Token = 36cf, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3563561341, 'time': '2023-11-27T10:54:40.416328Z', 'tmms': 1385117699416, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.8, 'foff': -3249, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAkgcCeHzIBazxn4DMXGw='}]}

0:27:30.933048	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0792, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 80cc5c6c)
0:27:30.934048	LOG	Server <---------- DUT
0:27:30.936057	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 046e, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c818edde)
0:27:30.938079	LOG	Frame command sent to the DUT
0:27:30.939078	LOG	PULL_RESP: Protocol version = 02, Token = 6007, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3564561341, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAbgTg/ByDZyigQ4pLLwV3YTx4bzjg5SaZcBE3hgeuLCKm81RLQqBS93io2h/BSXYGQWRBjhimyBjt3g==''}}
0:27:30.940078	LOG	Server ----------> DUT
0:27:30.944131	LOG	Send Test Command TxFramesCtrlReq process completed
0:27:30.948128	LOG	Check previous uplink data rate process starts
0:27:30.952131	LOG	Uplink received with expected Data Rate
0:27:30.955640	LOG	Send Test Command TxFramesCtrlReq process starts
0:27:35.830116	LOG	First uplink received. Open reception window.
0:27:35.946100	LOG	PUSH_ACK: 02 6e92 01
0:27:35.948069	LOG	GPS Time from gateway: 1385117704416
0:27:35.949068	LOG	PUSH_DATA: Protocol version = 02, Token = 6e92, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3568561085, 'time': '2023-11-27T10:54:45.416072Z', 'tmms': 1385117704416, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.0, 'foff': -3252, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAkwcCtqci8sDtGzdpBPU='}]}
0:27:35.951068	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0793, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 376904f5)
0:27:35.952069	LOG	Server <---------- DUT
0:27:35.954068	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 046f, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 8f50836b)
0:27:35.955068	LOG	Frame command sent to the DUT
0:27:35.957069	LOG	PULL_RESP: Protocol version = 02, Token = df69, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3569561085, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAbwTgtfxrovFAwXpmjVqScpiT94I4xGHzfqu5jsgZRnAzzNw4N6vrm+xhpJCkli0U6/tpBra7j1CDaw==''}}
0:27:35.958573	LOG	Server ----------> DUT
0:27:35.960582	LOG	Send Test Command TxFramesCtrlReq process completed
0:27:35.963584	LOG	Check previous uplink data rate process starts
0:27:35.968618	LOG	Uplink received with expected Data Rate
0:27:35.971616	LOG	Send Test Command TxFramesCtrlReq process starts
0:27:38.685362	LOG	GPS Time updated: 1385117707271
0:27:38.687328	LOG	PULL_DATA: 02 80df 02 0016c001ff1025bf
0:27:38.688328	LOG	PULL_ACK: 02 80df 04
0:27:40.820350	LOG	First uplink received. Open reception window.
0:27:40.934875	LOG	PUSH_ACK: 02 bbb8 01
0:27:40.936876	LOG	GPS Time from gateway: 1385117709416
0:27:40.938876	LOG	PUSH_DATA: Protocol version = 02, Token = bbb8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3573560824, 'time': '2023-11-27T10:54:50.415810Z', 'tmms': 1385117709416, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.0, 'foff': -3250, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAlAcCT8wOtjnFU1TEfqk='}]}
0:27:40.939881	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0794, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 54c47ea9)
0:27:40.941880	LOG	Server <---------- DUT
0:27:40.943385	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0470, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: a89d1d04)
0:27:40.945389	LOG	Frame command sent to the DUT
0:27:40.946390	LOG	PULL_RESP: Protocol version = 02, Token = 2db7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3574560824, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAcATgxQzsSFjC/lxnETQ7FQDCj49g6gN5bXmOkk22R1jLnnPjesjGUuUgzKBcIPxU+7UrF022qJ0dBA==''}}
0:27:40.948393	LOG	Server ----------> DUT
0:27:40.951396	LOG	Send Test Command TxFramesCtrlReq process completed
0:27:40.964514	LOG	Check previous uplink data rate process starts
0:27:40.971526	LOG	Uplink received with expected Data Rate
0:27:40.978043	LOG	Send Test Command TxFramesCtrlReq process starts
0:27:45.822818	LOG	First uplink received. Open reception window.
0:27:45.928380	LOG	PUSH_ACK: 02 a218 01
0:27:45.930381	LOG	GPS Time from gateway: 1385117714415
0:27:45.932382	LOG	PUSH_DATA: Protocol version = 02, Token = a218, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3578560571, 'time': '2023-11-27T10:54:55.415556Z', 'tmms': 1385117714415, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.8, 'foff': -3252, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAlQcCVagKhrhqu1D5ViY='}]}
0:27:45.933384	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0795, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 50f95626)
0:27:45.935382	LOG	Server <---------- DUT
0:27:45.937383	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0471, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: bb478788)
0:27:45.939382	LOG	Frame command sent to the DUT
0:27:45.941383	LOG	PULL_RESP: Protocol version = 02, Token = 2b8e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3579560571, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAcQTgUfHbZ37xxiVbb4yxkl/G8OTUwira00v04hK4HNu2OlGz3UvWhyAB8xlZwk9pmy3TKFNBu0eHiA==''}}
0:27:45.944900	LOG	Server ----------> DUT
0:27:45.948899	LOG	Send Test Command TxFramesCtrlReq process completed
0:27:45.952907	LOG	Check previous uplink data rate process starts
0:27:45.957905	LOG	Uplink received with expected Data Rate
0:27:45.962903	LOG	Send Test Command TxFramesCtrlReq process starts
0:27:48.895937	LOG	GPS Time updated: 1385117717488
0:27:48.896933	LOG	PULL_DATA: 02 8c29 02 0016c001ff1025bf
0:27:48.898941	LOG	PULL_ACK: 02 8c29 04
0:27:50.828376	LOG	First uplink received. Open reception window.
0:27:50.932280	LOG	PUSH_ACK: 02 00a4 01
0:27:50.934254	LOG	GPS Time from gateway: 1385117719415
0:27:50.936286	LOG	PUSH_DATA: Protocol version = 02, Token = 00a4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3583560306, 'time': '2023-11-27T10:55:00.415290Z',

		'tmms': 1385117719415, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3254, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAlgcCkDXEVGk0qKh6xl0='}]}
0:27:50.938286	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0796, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a87ac65d)
0:27:50.939283	LOG	Server <---------- DUT
0:27:50.941280	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0472, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 4f2fe819)
0:27:50.942279	LOG	Frame command sent to the DUT
0:27:50.944391	LOG	PULL_RESP: Protocol version = 02, Token = d240, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3584560306, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAcgTgijb4LUQYc001VBWSP8sNP3fIi1rFYKx7ohz98CvChO2T8RE04CObosqSww9uk427NxDfTy/oGQ==''}}
0:27:50.946403	LOG	Server ----------> DUT
0:27:50.949389	LOG	Send Test Command TxFramesCtrlReq process completed
0:27:50.952390	LOG	Check previous uplink data rate process starts
0:27:50.956391	LOG	Uplink received with expected Data Rate
0:27:50.960390	LOG	Send Test Command TxFramesCtrlReq process starts
0:27:55.819930	LOG	First uplink received. Open reception window.
0:27:55.931151	LOG	PUSH_ACK: 02 7e71 01
0:27:55.933154	LOG	GPS Time from gateway: 1385117724415
0:27:55.934151	LOG	PUSH_DATA: Protocol version = 02, Token = 7e71, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3588560053, 'time': '2023-11-27T10:55:05.415037Z', 'tmms': 1385117724415, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3252, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAlwcC87AK7/ZmiLjRvHg='}]}
0:27:55.936152	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0797, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b8d1bc78)
0:27:55.937154	LOG	Server <---------- DUT
0:27:55.939118	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0473, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: d38d1cdd)
0:27:55.941127	LOG	Frame command sent to the DUT
0:27:55.942117	LOG	PULL_RESP: Protocol version = 02, Token = fa25, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3589560053, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAcwTgryozgWLWrh3AixTUCM2yWB/qC2F9KMvCvyavHkBdNHFXxeKWHIbc8QiM0MHMTNCRur5V040c3Q==''}}
0:27:55.943620	LOG	Server ----------> DUT
0:27:55.946638	LOG	Send Test Command TxFramesCtrlReq process completed
0:27:55.949624	LOG	Check previous uplink data rate process starts
0:27:55.953624	LOG	Uplink received with expected Data Rate
0:27:55.957625	LOG	Send Test Command TxFramesCtrlReq process starts
0:27:59.095774	LOG	GPS Time updated: 1385117727690
0:27:59.096772	LOG	PULL_DATA: 02 9f7f 02 0016c001ff1025bf
0:27:59.097779	LOG	PULL_ACK: 02 9f7f 04
0:28:00.820432	LOG	First uplink received. Open reception window.
0:28:00.929295	LOG	PUSH_ACK: 02 4e2c 01
0:28:00.931297	LOG	GPS Time from gateway: 1385117729415

0:28:00.933297	LOG	PUSH_DATA: Protocol version = 02, Token = 4e2c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3593559801, 'time': '2023-11-27T10:55:10.414784Z', 'tmms': 1385117729415, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3250, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAmAcCJVLo1ZpviFeqf4o='}]}
0:28:00.934340	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0798, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 57aa7f8a)
0:28:00.936302	LOG	Server <---------- DUT
0:28:00.938301	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0474, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 243b64cb)
0:28:00.939301	LOG	Frame command sent to the DUT
0:28:00.941300	LOG	PULL_RESP: Protocol version = 02, Token = ff44, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3594559801, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAdATgy9XhsyMrrB9/rAu3Ffi9eZkHoW4YUg1IfTR/3acQjzvRQfBMKS8bIs89cI9+/xxD3oGeJDtkyw=='}}
0:28:00.942300	LOG	Server ----------> DUT
0:28:00.945848	LOG	Send Test Command TxFramesCtrlReq process completed
0:28:00.948846	LOG	Check previous uplink data rate process starts
0:28:00.953845	LOG	Uplink received with expected Data Rate
0:28:00.956846	LOG	Step 14-15
0:28:00.960851	LOG	Send Test Command RxAppCntReq process starts
0:28:05.818355	LOG	First uplink received. Open reception window.
0:28:05.920126	LOG	PUSH_ACK: 02 23bc 01
0:28:05.922094	LOG	GPS Time from gateway: 1385117734414
0:28:05.923129	LOG	PUSH_DATA: Protocol version = 02, Token = 23bc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3598559540, 'time': '2023-11-27T10:55:15.414522Z', 'tmms': 1385117734414, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.8, 'foff': -3250, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAmQcCTDahD20ieJk3Rzs='}]}
0:28:05.925094	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0799, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9937473b)
0:28:05.926093	LOG	Server <---------- DUT
0:28:05.928144	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0475, FOpts:), FPort: e0, FRMPayload: 09), MIC: f9610ee5)
0:28:05.929181	LOG	Frame command sent to the DUT
0:28:05.931182	LOG	PULL_RESP: Protocol version = 02, Token = 1363, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3599559540, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAdQTgVflhDuU='}}
0:28:05.932182	LOG	Server ----------> DUT
0:28:05.935151	LOG	TX_ACK: 02 1363 05 0016c001ff1025bf
0:28:08.100681	LOG	First uplink received. Open reception window.
0:28:08.204334	LOG	PUSH_ACK: 02 be31 01
0:28:08.206302	LOG	GPS Time from gateway: 1385117736686
0:28:08.207302	LOG	PUSH_DATA: Protocol version = 02, Token = be31, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3600831382, 'time': '2023-11-27T10:55:17.686364Z', 'tmms': 1385117736686, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.5, 'foff': -3253, 'rssi': -50, 'size': 16, 'data': 'QAAAAACAmgfgMAazOePMaA=='}]}
0:28:08.209302	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 079a, FOpts:), FPort: e0, FRMPayload: 090903, MIC: 39e3cc68)
0:28:08.210307	LOG	Server <---------- DUT
0:28:08.212307	LOG	Frame Command Payload in the Answer: 090903

0:28:08.216340	LOG	RX Count received by DUT: 777
0:28:08.219306	LOG	Send Test Command RxAppCntReq process completed
0:28:08.229851	LOG	End Test Step: Test packet error rate for SF11BW125 using RX1 window
0:28:08.233851	LOG	Partial Verdict: PASS
0:28:08.237848	LOG	==========
0:28:08.242823	LOG	==========
0:28:08.244862	LOG	Start Test Step: Test packet error rate for SF12BW125 using RX1 window
0:28:08.257179	LOG	Step 10-11
0:28:08.260213	LOG	Send LinkADRReq process starts
0:28:09.285032	LOG	GPS Time updated: 1385117737872
0:28:09.287041	LOG	PULL_DATA: 02 bb3f 02 0016c001ff1025bf
0:28:09.288581	LOG	PULL_ACK: 02 bb3f 04
0:28:15.820176	LOG	First uplink received. Open reception window.
0:28:15.923966	LOG	PUSH_ACK: 02 1076 01
0:28:15.925966	LOG	GPS Time from gateway: 1385117744414
0:28:15.927967	LOG	PUSH_DATA: Protocol version = 02, Token = 1076, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3608559070, 'time': '2023-11-27T10:55:25.414051Z', 'tmms': 1385117744414, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3246, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAmwcC1eOzz/qJHgzeZ48='}]}
0:28:15.928973	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 079b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0cde678f)
0:28:15.930971	LOG	Server <---------- DUT
0:28:15.932972	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0476, FOpts:), FPort: 00, FRMPayload: 0300070001), MIC: b5af963d)
0:28:15.934972	LOG	PULL_RESP: Protocol version = 02, Token = c53b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3610559070, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAdgQA/FQkLE+1r5Y9'}}
0:28:15.935971	LOG	Server ----------> DUT
0:28:15.938972	LOG	TX_ACK: 02 c53b 05 0016c001ff1025bf
0:28:19.294989	LOG	GPS Time updated: 1385117747888
0:28:19.296986	LOG	PULL_DATA: 02 f7ba 02 0016c001ff1025bf
0:28:19.298562	LOG	PULL_ACK: 02 f7ba 04
0:28:21.571862	LOG	First uplink received. Open reception window.
0:28:21.679136	LOG	PUSH_ACK: 02 de9a 01
0:28:21.681138	LOG	GPS Time from gateway: 1385117750155
0:28:21.682140	LOG	PUSH_DATA: Protocol version = 02, Token = de9a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3614300143, 'time': '2023-11-27T10:55:31.155123Z', 'tmms': 1385117750155, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.0, 'foff': -3243, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCnAcDBwLol65jg9BKYWWUmg=='}]}
0:28:21.684175	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 079c, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 6165949a)
0:28:21.685176	LOG	Server <---------- DUT
0:28:21.687147	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:28:21.688171	LOG	Command Answer: 0307
0:28:21.695548	LOG	MAC command communication completed
0:28:21.701070	LOG	Send RXParamSetupReq process starts
0:28:26.409793	LOG	Multiple frames received. Selecting the correct frame...
0:28:26.410792	LOG	Frame selected: {'jver': 1, 'tmst': 3619135966, 'time': '2023-11-27T10:55:35.990945Z', 'tmms': 1385117754991, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3229, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAnQcCyQiw4opDhj2FoAI='}

0:28:26.413341	LOG	First uplink received. Open reception window.
0:28:26.523515	LOG	PUSH_ACK: 02 d2de 01
0:28:26.525482	LOG	GPS Time from gateway: 1385117754991
0:28:26.527483	LOG	PUSH_DATA: Protocol version = 02, Token = d2de, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3619135966, 'time': '2023-11-27T10:55:35.990945Z', 'tmms': 1385117754991, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3229, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAnQcCyQiw4opDhj2FoAI='}, {'jver': 1, 'tmst': 3619135966, 'time': '2023-11-27T10:55:35.990945Z', 'tmms': 1385117754991, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -124, 'lsnr': -12.0, 'foff': -3228, 'rssi': -113, 'size': 20, 'data': 'QAAAAACAnQcCyQiw4opDhj2FoAI='}]}
0:28:26.528488	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 079d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3d85a002)
0:28:26.530488	LOG	Server <---------- DUT
0:28:26.532489	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0477, FOpts:), FPort: 00, FRMPayload: 0500d2ad84), MIC: 517b5c25)
0:28:26.534488	LOG	PULL_RESP: Protocol version = 02, Token = 3377, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3621135966, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAdwQAa0lOu3pRe1wl'}}
0:28:26.535488	LOG	Server ----------> DUT
0:28:26.538179	LOG	TX_ACK: 02 3377 05 0016c001ff1025bf
0:28:29.475694	LOG	GPS Time updated: 1385117758053
0:28:29.477660	LOG	PULL_DATA: 02 1e5f 02 0016c001ff1025bf
0:28:29.479624	LOG	PULL_ACK: 02 1e5f 04
0:28:31.576195	LOG	Multiple frames received. Selecting the correct frame...
0:28:31.578172	LOG	Frame selected: {'jver': 1, 'tmst': 3624299638, 'time': '2023-11-27T10:55:41.154616Z', 'tmms': 1385117760154, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 8.2, 'foff': -3237, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCngcFBwKFU7aTaV+BI3e4xw=='}
0:28:31.580164	LOG	First uplink received. Open reception window.
0:28:31.693465	LOG	PUSH_ACK: 02 031f 01
0:28:31.695511	LOG	GPS Time from gateway: 1385117760154
0:28:31.696515	LOG	PUSH_DATA: Protocol version = 02, Token = 031f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3624299638, 'time': '2023-11-27T10:55:41.154616Z', 'tmms': 1385117760154, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 8.2, 'foff': -3237, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCngcFBwKFU7aTaV+BI3e4xw=='}, {'jver': 1, 'tmst': 3624299647, 'time': '2023-11-27T10:55:41.154625Z', 'tmms': 1385117760154, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -128, 'lsnr': -15.8, 'foff': -3266, 'rssi': -113, 'size': 22, 'data': 'QAAAAACCngcFBwKFU7aTaV+BI3e4xw=='}]}
0:28:31.698515	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 079e, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 2377b8c7)
0:28:31.699515	LOG	Server <---------- DUT
0:28:31.701551	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:28:31.702548	LOG	Command Answer: 0507
0:28:31.714673	LOG	MAC command communication completed
0:28:31.719069	LOG	Step 11-12
0:28:31.728656	LOG	Send Test Command RxAppCntReq process starts
0:28:36.570387	LOG	Multiple frames received. Selecting the correct frame...
0:28:36.571419	LOG	Frame selected: {'jver': 1, 'tmst': 3629299397, 'time': '2023-11-27T10:55:46.154374Z', 'tmms': 1385117765154, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr':

		10.2, 'foff': -3225, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCnwcFBwLkH+Fi9DnvmX0Y2g==’}
0:28:36.573388	LOG	First uplink received. Open reception window.
0:28:36.684024	LOG	PUSH_ACK: 02 b882 01
0:28:36.686025	LOG	GPS Time from gateway: 1385117765154
0:28:36.687026	LOG	PUSH_DATA: Protocol version = 02, Token = b882, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3629299397, 'time': '2023-11-27T10:55:46.154374Z', 'tmms': 1385117765154, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3225, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCnwcFBwLkH+Fi9DnvmX0Y2g==’}, {'jver': 1, 'tmst': 3629299397, 'time': '2023-11-27T10:55:46.154374Z', 'tmms': 1385117765154, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.2, 'foff': -3224, 'rssi': -113, 'size': 22, 'data': 'QAAAAACCnwcFBwLkH+Fi9DnvmX0Y2g==’}]}
0:28:36.689027	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 079f, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 997d18da)
0:28:36.690026	LOG	Server <---------- DUT
0:28:36.692025	LOG	MAC Command RXParamSetupAns received
0:28:36.692025	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0478, FOpts:), FPort: e0, FRMPayload: 09), MIC: 6bf7278b)
0:28:36.694536	LOG	Frame command sent to the DUT
0:28:36.695536	LOG	PULL_RESP: Protocol version = 02, Token = 9c0e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3630299397, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAeATg5mv3J4s=’}}
0:28:36.697536	LOG	Server ----------> DUT
0:28:36.700535	LOG	TX_ACK: 02 9c0e 05 0016c001ff1025bf
0:28:39.645260	LOG	GPS Time updated: 1385117768227
0:28:39.646258	LOG	PULL_DATA: 02 906d 02 0016c001ff1025bf
0:28:39.648305	LOG	PULL_ACK: 02 906d 04
0:28:40.091434	LOG	First uplink received. Open reception window.
0:28:40.194668	LOG	PUSH_ACK: 02 5f30 01
0:28:40.196674	LOG	GPS Time from gateway: 1385117768680
0:28:40.197668	LOG	PUSH_DATA: Protocol version = 02, Token = 5f30, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3632825004, 'time': '2023-11-27T10:55:49.679981Z', 'tmms': 1385117768680, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.5, 'foff': -3237, 'rssi': -49, 'size': 16, 'data': 'QAAAAACAoAfgXhPHME1bMQ==’}]}
0:28:40.199669	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07a0, FOpts:), FPort: e0, FRMPayload: 090a03, MIC: 304d5b31)
0:28:40.200701	LOG	Server <---------- DUT
0:28:40.202670	LOG	Frame Command Payload in the Answer: 090a03
0:28:40.206674	LOG	RX Count received by DUT: 778
0:28:40.208675	LOG	Send Test Command RxAppCntReq process completed
0:28:40.212677	LOG	Step 13
0:28:40.215695	LOG	Send Test Command TxFramesCtrlReq process starts
0:28:46.406389	LOG	Multiple frames received. Selecting the correct frame...
0:28:46.407897	LOG	Frame selected: {'jver': 1, 'tmst': 3639134940, 'time': '2023-11-27T10:55:55.989916Z', 'tmms': 1385117774990, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.5, 'foff': -3226, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAoQcC4mPO9Yr2EVRIl7s=’}
0:28:46.408897	LOG	First uplink received. Open reception window.
0:28:46.513906	LOG	PUSH_ACK: 02 ed78 01
0:28:46.515414	LOG	GPS Time from gateway: 1385117774990

0:28:46.517415	LOG	PUSH_DATA: Protocol version = 02, Token = ed78, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3639134940, 'time': '2023-11-27T10:55:55.989916Z', 'tmms': 1385117774990, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.5, 'foff': -3226, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAoQcC4mPO9Yr2EVRIl7s='}, {'jver': 1, 'tmst': 3639134941, 'time': '2023-11-27T10:55:55.989917Z', 'tmms': 1385117774990, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -124, 'lsnr': -11.8, 'foff': -3226, 'rssi': -113, 'size': 20, 'data': 'QAAAAACAoQcC4mPO9Yr2EVRIl7s='}]}
0:28:46.518414	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07a1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 544897bb)
0:28:46.519414	LOG	Server <---------- DUT
0:28:46.521414	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0479, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: f31040a8)
0:28:46.523414	LOG	Frame command sent to the DUT
0:28:46.524414	LOG	PULL_RESP: Protocol version = 02, Token = 37a4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3640134940, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAeQTgA6yEyad2tfoDlOjmPXZrsOmZwi0T0/GivY4vrloMLQ8T0knoJ/fs4idzwzbx9YTUSiMS8xBAqA=='}}
0:28:46.526414	LOG	Server ----------> DUT
0:28:46.529017	LOG	Send Test Command TxFramesCtrlReq process completed
0:28:46.531523	LOG	Check previous uplink data rate process starts
0:28:46.535524	LOG	Uplink received with expected Data Rate
0:28:46.539031	LOG	Send Test Command TxFramesCtrlReq process starts
0:28:49.675105	LOG	GPS Time updated: 1385117778257
0:28:49.676106	LOG	PULL_DATA: 02 063b 02 0016c001ff1025bf
0:28:49.678144	LOG	PULL_ACK: 02 063b 04
0:28:56.407041	LOG	First uplink received. Open reception window.
0:28:56.518066	LOG	PUSH_ACK: 02 a529 01
0:28:56.519645	LOG	GPS Time from gateway: 1385117784989
0:28:56.521610	LOG	PUSH_DATA: Protocol version = 02, Token = a529, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3649134435, 'time': '2023-11-27T10:56:05.989409Z', 'tmms': 1385117784989, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.8, 'foff': -3232, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAogcCPlcHbI0dZy7wRYo='}]}
0:28:56.522615	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07a2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2ef0458a)
0:28:56.524615	LOG	Server <---------- DUT
0:28:56.525649	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 047a, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 05f7f7aa)
0:28:56.527648	LOG	Frame command sent to the DUT
0:28:56.528648	LOG	PULL_RESP: Protocol version = 02, Token = b965, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3650134435, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAegTgZLpEIAE3lFJGnHP9cw8Su8jCI3ES8OENjEYP5VTdzHgQ+0bAYwkVXLFwytbRretY9/rUBff3qg=='}}
0:28:56.530649	LOG	Server ----------> DUT
0:28:56.532614	LOG	Send Test Command TxFramesCtrlReq process completed
0:28:56.536228	LOG	Check previous uplink data rate process starts
0:28:56.540743	LOG	Uplink received with expected Data Rate

0:28:56.543772	LOG	Send Test Command TxFramesCtrlReq process starts
0:28:59.685368	LOG	GPS Time updated: 1385117788266
0:28:59.686367	LOG	PULL_DATA: 02 f863 02 0016c001ff1025bf
0:28:59.687368	LOG	PULL_ACK: 02 f863 04
0:29:06.409111	LOG	Multiple frames received. Selecting the correct frame...
0:29:06.411079	LOG	Frame selected: {'jver': 1, 'tmst': 3659133916, 'time': '2023-11-27T10:56:15.988889Z', 'tmms': 1385117794989, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3239, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAowcCozw9c8fqHN1q9IA='}
0:29:06.412625	LOG	First uplink received. Open reception window.
0:29:06.525318	LOG	PUSH_ACK: 02 299a 01
0:29:06.526877	LOG	GPS Time from gateway: 1385117794989
0:29:06.528864	LOG	PUSH_DATA: Protocol version = 02, Token = 299a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3659133915, 'time': '2023-11-27T10:56:15.988888Z', 'tmms': 1385117794989, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -124, 'lsnr': -11.8, 'foff': -3238, 'rssi': -113, 'size': 20, 'data': 'QAAAAACAowcCozw9c8fqHN1q9IA='}, {'jver': 1, 'tmst': 3659133916, 'time': '2023-11-27T10:56:15.988889Z', 'tmms': 1385117794989, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3239, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAowcCozw9c8fqHN1q9IA='}]}
0:29:06.529898	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07a3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: dd6af480)
0:29:06.530898	LOG	Server <---------- DUT
0:29:06.532894	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 047b, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: f2e7d79a)
0:29:06.534900	LOG	Frame command sent to the DUT
0:29:06.535896	LOG	PULL_RESP: Protocol version = 02, Token = 4c5e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3660133916, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAewTgfJxVGZf65cU3wPmWLRTlgtC+D1On6JqxNLi765jsquYaF+GwTe82BfVsY16gt1Hu5bV38ufXmg=='}}
0:29:06.536894	LOG	Server ----------> DUT
0:29:06.540262	LOG	Send Test Command TxFramesCtrlReq process completed
0:29:06.542807	LOG	Check previous uplink data rate process starts
0:29:06.547813	LOG	Uplink received with expected Data Rate
0:29:06.551207	LOG	Send Test Command TxFramesCtrlReq process starts
0:29:09.894945	LOG	GPS Time updated: 1385117798471
0:29:09.895913	LOG	PULL_DATA: 02 2407 02 0016c001ff1025bf
0:29:09.897918	LOG	PULL_ACK: 02 2407 04
0:29:16.400448	LOG	Multiple frames received. Selecting the correct frame...
0:29:16.401450	LOG	Frame selected: {'jver': 1, 'tmst': 3669133404, 'time': '2023-11-27T10:56:25.988375Z', 'tmms': 1385117804988, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3240, 'rssi': -49, 'size': 20, 'data': 'QAAAAACApAcCzmhqtfM/caLvqbs='}
0:29:16.403451	LOG	First uplink received. Open reception window.
0:29:16.511257	LOG	PUSH_ACK: 02 34f6 01
0:29:16.513291	LOG	GPS Time from gateway: 1385117804988
0:29:16.514294	LOG	PUSH_DATA: Protocol version = 02, Token = 34f6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3669133396, 'time': '2023-11-27T10:56:25.988367Z', 'tmms': 1385117804988, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -126, 'lsnr': -13.5, 'foff': -3208,

		'rssi': -113, 'size': 20, 'data': 'QAAAAACApAcCzmhqtfM/caLvqbs='}, {'jver': 1, 'tmst': 3669133404, 'time': '2023-11-27T10:56:25.988375Z', 'tmms': 1385117804988, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3240, 'rssi': -49, 'size': 20, 'data': 'QAAAAACApAcCzmhqtfM/caLvqbs='}]}
0:29:16.516259	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07a4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a2efa9bb)
0:29:16.517258	LOG	Server <---------- DUT
0:29:16.519301	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 047c, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 1472ed95)
0:29:16.520291	LOG	Frame command sent to the DUT
0:29:16.522292	LOG	PULL_RESP: Protocol version = 02, Token = 2532, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3670133404, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAfATgCDCZibJkXzSxIRNUQXmZcYJHeE7gRb1MhqiB4cN1jcF3IcVcghyiil+Ab+vAqnyvYLoHFHLtlQ=='}}
0:29:16.523331	LOG	Server ----------> DUT
0:29:16.526409	LOG	Send Test Command TxFramesCtrlReq process completed
0:29:16.528917	LOG	Check previous uplink data rate process starts
0:29:16.533919	LOG	Uplink received with expected Data Rate
0:29:16.536950	LOG	Send Test Command TxFramesCtrlReq process starts
0:29:20.094684	LOG	GPS Time updated: 1385117808679
0:29:20.096665	LOG	PULL_DATA: 02 e552 02 0016c001ff1025bf
0:29:20.097652	LOG	PULL_ACK: 02 e552 04
0:29:26.410284	LOG	Multiple frames received. Selecting the correct frame...
0:29:26.412789	LOG	Frame selected: {'jver': 1, 'tmst': 3679132886, 'time': '2023-11-27T10:56:35.987856Z', 'tmms': 1385117814988, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3240, 'rssi': -49, 'size': 20, 'data': 'QAAAAACApQcCkzcVYpWFh/Mumv4='}
0:29:26.414798	LOG	#**********CURRENT BEACON SENT**********#
0:29:26.415795	LOG	PULL_RESP: Protocol version = 02, Token = 9cc7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385117824000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAOI9SLcAAAAAAAAAAAA='}}
0:29:26.417795	LOG	Server ----------> DUT
0:29:26.418796	LOG	#**********#
0:29:26.429878	LOG	#**********NEXT BEACON QUEUED**********#
0:29:26.431593	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385117952000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAOY9SJSoAAAAAAAAAAA='}}
0:29:26.433227	LOG	Server ----------> DUT
0:29:26.434493	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 00398f52, CRC1: 252a, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385117952000
0:29:26.436125	LOG	#**********#
0:29:26.437691	LOG	Next BEACON scheduled at GPS time (ms): 1385118080000
0:29:26.439242	LOG	First uplink received. Open reception window.
0:29:26.440795	LOG	TX_ACK: 02 9cc7 05 0016c001ff1025bf

0:29:26.550646	LOG	PUSH_ACK: 02 7059 01
0:29:26.557679	LOG	GPS Time from gateway: 1385117814988
0:29:26.563678	LOG	PUSH_DATA: Protocol version = 02, Token = 7059, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3679132886, 'time': '2023-11-27T10:56:35.987856Z', 'tmms': 1385117814988, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3240, 'rssi': -49, 'size': 20, 'data': 'QAAAAACApQcCkzcVYpWFh/Mumv4='}, {'jver': 1, 'tmst': 3679132886, 'time': '2023-11-27T10:56:35.987856Z', 'tmms': 1385117814988, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.2, 'foff': -3239, 'rssi': -113, 'size': 20, 'data': 'QAAAAACApQcCkzcVYpWFh/Mumv4='}]}
0:29:26.566677	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07a5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f32e9afe)
0:29:26.570700	LOG	Server <---------- DUT
0:29:26.574706	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 047d, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: cf5db4c5)
0:29:26.577707	LOG	Frame command sent to the DUT
0:29:26.579712	LOG	PULL_RESP: Protocol version = 02, Token = e325, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3680132886, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAfQTgQIFqY+0IOCFNYpXIhuOGXionOic+Wiu0vsZFqsjMwaoDg86gZiAUvL0sUMKYCZ72uNjcz120xQ==’}}
0:29:26.581750	LOG	Server ----------> DUT
0:29:26.585750	LOG	Send Test Command TxFramesCtrlReq process completed
0:29:26.589715	LOG	Check previous uplink data rate process starts
0:29:26.594748	LOG	Uplink received with expected Data Rate
0:29:26.598715	LOG	Send Test Command TxFramesCtrlReq process starts
0:29:30.154268	LOG	GPS Time updated: 1385117818702
0:29:30.156268	LOG	PULL_DATA: 02 db9d 02 0016c001ff1025bf
0:29:30.157270	LOG	PULL_ACK: 02 db9d 04
0:29:36.403059	LOG	First uplink received. Open reception window.
0:29:36.513856	LOG	PUSH_ACK: 02 963a 01
0:29:36.515362	LOG	GPS Time from gateway: 1385117824987
0:29:36.517365	LOG	PUSH_DATA: Protocol version = 02, Token = 963a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3689132376, 'time': '2023-11-27T10:56:45.987344Z', 'tmms': 1385117824987, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -85, 'lsnr': 3.5, 'foff': -3245, 'rssi': -82, 'size': 20, 'data': 'QAAAAACApgcC7VL4sKQin28BLz4='}]}
0:29:36.518398	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07a6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6f012f3e)
0:29:36.519397	LOG	Server <---------- DUT
0:29:36.521366	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 047e, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 7e202839)
0:29:36.523405	LOG	Frame command sent to the DUT
0:29:36.524404	LOG	PULL_RESP: Protocol version = 02, Token = 85a5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3690132376, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAfgTgE5/pfIF60hn9xJyAQdBa4l5OYLrpJEBwH7ajVfhmRpOui267bReJKdS85dhuSKnIA745fiAoOQ==’}}
0:29:36.526378	LOG	Server ----------> DUT
0:29:36.528404	LOG	Send Test Command TxFramesCtrlReq process completed

0:29:36.531372	LOG	Check previous uplink data rate process starts
0:29:36.536397	LOG	Uplink received with expected Data Rate
0:29:36.540886	LOG	Send Test Command TxFramesCtrlReq process starts
0:29:40.304365	LOG	GPS Time updated: 1385117828888
0:29:40.306390	LOG	PULL_DATA: 02 b3d3 02 0016c001ff1025bf
0:29:40.307400	LOG	PULL_ACK: 02 b3d3 04
0:29:46.406700	LOG	First uplink received. Open reception window.
0:29:46.518362	LOG	PUSH_ACK: 02 be58 01
0:29:46.519870	LOG	GPS Time from gateway: 1385117834987
0:29:46.521871	LOG	PUSH_DATA: Protocol version = 02, Token = be58, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3699131861, 'time': '2023-11-27T10:56:55.986828Z', 'tmms': 1385117834987, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.5, 'foff': -3242, 'rssi': -49, 'size': 20, 'data': 'QAAAAACApwcClKrex9m9F1uWOIg='}]}
0:29:46.522877	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07a7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5b963888)
0:29:46.523883	LOG	Server <---------- DUT
0:29:46.525876	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 047f, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 11e081a7)
0:29:46.527877	LOG	Frame command sent to the DUT
0:29:46.528876	LOG	PULL_RESP: Protocol version = 02, Token = 3947, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3700131861, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAfwTgHYrUiy3vqKXLbC28KqKPOnM3wrCAafEEELM8K9zAgrDF6/RKwIMAj+GEGQMHDv+iVDwTEeCBpw=='}}
0:29:46.530877	LOG	Server ----------> DUT
0:29:46.532877	LOG	Send Test Command TxFramesCtrlReq process completed
0:29:46.535875	LOG	Check previous uplink data rate process starts
0:29:46.540384	LOG	Uplink received with expected Data Rate
0:29:46.543382	LOG	Send Test Command TxFramesCtrlReq process starts
0:29:50.514875	LOG	GPS Time updated: 1385117839095
0:29:50.515874	LOG	PULL_DATA: 02 fcb6 02 0016c001ff1025bf
0:29:50.517845	LOG	PULL_ACK: 02 fcb6 04
0:29:56.401187	LOG	Multiple frames received. Selecting the correct frame...
0:29:56.403184	LOG	Frame selected: {'jver': 1, 'tmst': 3709131349, 'time': '2023-11-27T10:57:05.986314Z', 'tmms': 1385117844986, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3243, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAqAcClKLbvk8UFXrbN8g='}
0:29:56.404184	LOG	First uplink received. Open reception window.
0:29:56.506311	LOG	PUSH_ACK: 02 bb56 01
0:29:56.508866	LOG	GPS Time from gateway: 1385117844986
0:29:56.510861	LOG	PUSH_DATA: Protocol version = 02, Token = bb56, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3709131341, 'time': '2023-11-27T10:57:05.986306Z', 'tmms': 1385117844986, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -124, 'lsnr': -11.5, 'foff': -3213, 'rssi': -113, 'size': 20, 'data': 'QAAAAACAqAcClKLbvk8UFXrbN8g='}, {'jver': 1, 'tmst': 3709131349, 'time': '2023-11-27T10:57:05.986314Z', 'tmms': 1385117844986, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3243, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAqAcClKLbvk8UFXrbN8g='}]}
0:29:56.511842	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07a8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7adb37c8)

0:29:56.513867	LOG	Server <---------- DUT
0:29:56.515829	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0480, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: a634d783)
0:29:56.517865	LOG	Frame command sent to the DUT
0:29:56.520831	LOG	PULL_RESP: Protocol version = 02, Token = b0c2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3710131349, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAgATgd60XJlafbfj0dL10IvA0skPPKVL+iFS8NOmMUo/PHNtIMypFIiC6x8reIlML0QeI9RpxpjTXgw==''}}
0:29:56.521831	LOG	Server ----------> DUT
0:29:56.526230	LOG	Send Test Command TxFramesCtrlReq process completed
0:29:56.529230	LOG	Check previous uplink data rate process starts
0:29:56.535231	LOG	Uplink received with expected Data Rate
0:29:56.541742	LOG	Send Test Command TxFramesCtrlReq process starts
0:30:00.724650	LOG	GPS Time updated: 1385117849306
0:30:00.726660	LOG	PULL_DATA: 02 c092 02 0016c001ff1025bf
0:30:00.729658	LOG	PULL_ACK: 02 c092 04
0:30:06.400850	LOG	Multiple frames received. Selecting the correct frame...
0:30:06.402449	LOG	Frame selected: {'jver': 1, 'tmst': 3719130831, 'time': '2023-11-27T10:57:15.985795Z', 'tmms': 1385117854986, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.8, 'foff': -3245, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAqQcChHacI1VR+e1TX7w='}
0:30:06.404163	LOG	First uplink received. Open reception window.
0:30:06.518560	LOG	PUSH_ACK: 02 f8e4 01
0:30:06.520560	LOG	GPS Time from gateway: 1385117854986
0:30:06.521592	LOG	PUSH_DATA: Protocol version = 02, Token = f8e4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3719130831, 'time': '2023-11-27T10:57:15.985795Z', 'tmms': 1385117854986, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.8, 'foff': -3245, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAqQcChHacI1VR+e1TX7w='}, {'jver': 1, 'tmst': 3719130831, 'time': '2023-11-27T10:57:15.985795Z', 'tmms': 1385117854986, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -124, 'lsnr': -11.8, 'foff': -3244, 'rssi': -113, 'size': 20, 'data': 'QAAAAACAqQcChHacI1VR+e1TX7w='}]}
0:30:06.522631	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07a9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ed535fbc)
0:30:06.524625	LOG	Server <---------- DUT
0:30:06.525629	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0481, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 6fc23403)
0:30:06.527630	LOG	Frame command sent to the DUT
0:30:06.528629	LOG	PULL_RESP: Protocol version = 02, Token = 84a0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3720130831, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAgQTgQKH8MqVuJtW3bxacrz/+rkyo1UThXbK7apNYCot2rZQh3Bjs0n9ctURou1IIiLywBXxhb8I0Aw==''}}
0:30:06.530629	LOG	Server ----------> DUT
0:30:06.532598	LOG	Send Test Command TxFramesCtrlReq process completed
0:30:06.535283	LOG	Check previous uplink data rate process starts
0:30:06.540414	LOG	Uplink received with expected Data Rate
0:30:06.544414	LOG	Send Test Command TxFramesCtrlReq process starts

0:30:10.934316	LOG	GPS Time updated: 1385117859516
0:30:10.936283	LOG	PULL_DATA: 02 992c 02 0016c001ff1025bf
0:30:10.937282	LOG	PULL_ACK: 02 992c 04
0:30:16.400542	LOG	First uplink received. Open reception window.
0:30:16.504088	LOG	PUSH_ACK: 02 db7f 01
0:30:16.506088	LOG	GPS Time from gateway: 1385117864985
0:30:16.507172	LOG	PUSH_DATA: Protocol version = 02, Token = db7f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3729130316, 'time': '2023-11-27T10:57:25.985278Z', 'tmms': 1385117864985, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.5, 'foff': -3247, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAqgcCJGUt7BEvt1nhFvU='}]}
0:30:16.509171	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07aa, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 59e116f5)
0:30:16.510172	LOG	Server <---------- DUT
0:30:16.512205	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0482, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 76368663)
0:30:16.514205	LOG	Frame command sent to the DUT
0:30:16.515204	LOG	PULL_RESP: Protocol version = 02, Token = 790d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3730130316, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAggTgzgYfSYm9lv1MBeboQ7fWO/kqFPVoQZ7c1ApgJQQgCLvUwNT/RfS2BbPavq1TdUZ7BgsidjaGYw==''}}
0:30:16.516715	LOG	Server ----------> DUT
0:30:16.519720	LOG	Send Test Command TxFramesCtrlReq process completed
0:30:16.522760	LOG	Check previous uplink data rate process starts
0:30:16.526758	LOG	Uplink received with expected Data Rate
0:30:16.529759	LOG	Send Test Command TxFramesCtrlReq process starts
0:30:21.134122	LOG	GPS Time updated: 1385117869720
0:30:21.136124	LOG	PULL_DATA: 02 6cee 02 0016c001ff1025bf
0:30:21.137097	LOG	PULL_ACK: 02 6cee 04
0:30:26.398602	LOG	First uplink received. Open reception window.
0:30:26.507159	LOG	PUSH_ACK: 02 8979 01
0:30:26.509124	LOG	GPS Time from gateway: 1385117874985
0:30:26.510123	LOG	PUSH_DATA: Protocol version = 02, Token = 8979, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3739129811, 'time': '2023-11-27T10:57:35.984772Z', 'tmms': 1385117874985, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.5, 'foff': -3246, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAqwcCoNYBVoM1lWvhw3w='}]}
0:30:26.512129	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07ab, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6be1c37c)
0:30:26.513129	LOG	Server <---------- DUT
0:30:26.515129	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0483, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: e9bfdc4e)
0:30:26.516128	LOG	Frame command sent to the DUT
0:30:26.518129	LOG	PULL_RESP: Protocol version = 02, Token = ea45, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3740129811, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAgwTgwHFT00bwjAfj5q++EnuHSiqWnMH4pMD4paW1nxoFZ+KYJhpCQHpiUEaYm4dikCFDAQGO6b/cTg==''}}
0:30:26.519128	LOG	Server ----------> DUT

0:30:26.522211	LOG	Send Test Command TxFramesCtrlReq process completed
0:30:26.524789	LOG	Check previous uplink data rate process starts
0:30:26.529263	LOG	Uplink received with expected Data Rate
0:30:26.533262	LOG	Send Test Command TxFramesCtrlReq process starts
0:30:31.343725	LOG	GPS Time updated: 1385117879930
0:30:31.345730	LOG	PULL_DATA: 02 9fe4 02 0016c001ff1025bf
0:30:31.347696	LOG	PULL_ACK: 02 9fe4 04
0:30:36.401880	LOG	Multiple frames received. Selecting the correct frame...
0:30:36.403529	LOG	Frame selected: {'jver': 1, 'tmst': 3749129296, 'time': '2023-11-27T10:57:45.984255Z', 'tmms': 1385117884984, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.0, 'foff': -3244, 'rssi': -49, 'size': 20, 'data': 'QAAAAACArAcCbQwpxxZccoK5pqA='}
0:30:36.405670	LOG	First uplink received. Open reception window.
0:30:36.507222	LOG	PUSH_ACK: 02 3052 01
0:30:36.509223	LOG	GPS Time from gateway: 1385117884984
0:30:36.511222	LOG	PUSH_DATA: Protocol version = 02, Token = 3052, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3749129296, 'time': '2023-11-27T10:57:45.984255Z', 'tmms': 1385117884984, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.0, 'foff': -3244, 'rssi': -49, 'size': 20, 'data': 'QAAAAACArAcCbQwpxxZccoK5pqA='}, {'jver': 1, 'tmst': 3749129297, 'time': '2023-11-27T10:57:45.984256Z', 'tmms': 1385117884984, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -126, 'lsnr': -13.8, 'foff': -3244, 'rssi': -113, 'size': 20, 'data': 'QAAAAACArAcCbQwpxxZccoK5pqA='}]}
0:30:36.512222	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07ac, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 82b9a6a0)
0:30:36.513223	LOG	Server <---------- DUT
0:30:36.515221	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0484, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 6dd98bdd)
0:30:36.517222	LOG	Frame command sent to the DUT
0:30:36.519222	LOG	PULL_RESP: Protocol version = 02, Token = 214b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3750129296, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAhATgR9nzrPVPXJcNeIeNBlxnQP6LZe+2ftxega4RAwGD2lVN0XFojo3iBc4MgLu9pJk8kXNTbdmL3Q=='}}
0:30:36.520253	LOG	Server ----------> DUT
0:30:36.522882	LOG	Send Test Command TxFramesCtrlReq process completed
0:30:36.525920	LOG	Check previous uplink data rate process starts
0:30:36.529889	LOG	Uplink received with expected Data Rate
0:30:36.533889	LOG	Send Test Command TxFramesCtrlReq process starts
0:30:41.344151	LOG	GPS Time updated: 1385117889923
0:30:41.346152	LOG	PULL_DATA: 02 aab4 02 0016c001ff1025bf
0:30:41.347152	LOG	PULL_ACK: 02 aab4 04
0:30:46.397978	LOG	First uplink received. Open reception window.
0:30:46.505826	LOG	PUSH_ACK: 02 a565 01
0:30:46.507403	LOG	GPS Time from gateway: 1385117894984
0:30:46.509374	LOG	PUSH_DATA: Protocol version = 02, Token = a565, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3759128787, 'time': '2023-11-27T10:57:55.983745Z', 'tmms': 1385117894984, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3245, 'rssi': -49, 'size': 20, 'data': 'QAAAAACArQcCZGlLQdsYPs92xic='}]}

0:30:46.510404	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07ad, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: cf76c627)
0:30:46.511406	LOG	Server <---------- DUT
0:30:46.513372	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0485, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 1b5cc03f)
0:30:46.515394	LOG	Frame command sent to the DUT
0:30:46.516403	LOG	PULL_RESP: Protocol version = 02, Token = c9b2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3760128787, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAhQTggeZPpxsB1ULkSPAPg0r3SGRViKAzPH2fagc+Jkxud2AW7G86NI1/pNzhOOnctKd/67lRG1zAPw==’}}
0:30:46.517403	LOG	Server ----------> DUT
0:30:46.520372	LOG	Send Test Command TxFramesCtrlReq process completed
0:30:46.523414	LOG	Check previous uplink data rate process starts
0:30:46.528384	LOG	Uplink received with expected Data Rate
0:30:46.532068	LOG	Send Test Command TxFramesCtrlReq process starts
0:30:51.554077	LOG	GPS Time updated: 1385117900141
0:30:51.556044	LOG	PULL_DATA: 02 c3cb 02 0016c001ff1025bf
0:30:51.557044	LOG	PULL_ACK: 02 c3cb 04
0:30:56.402776	LOG	Multiple frames received. Selecting the correct frame...
0:30:56.404438	LOG	Frame selected: {'jver': 1, 'tmst': 3769128278, 'time': '2023-11-27T10:58:05.983234Z', 'tmms': 1385117904983, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.0, 'foff': -3245, 'rssi': -49, 'size': 20, 'data': 'QAAAAACArgcCzLcvOJutXEVfglQ='}
0:30:56.406463	LOG	First uplink received. Open reception window.
0:30:56.516782	LOG	PUSH_ACK: 02 a1bb 01
0:30:56.518799	LOG	GPS Time from gateway: 1385117904983
0:30:56.519798	LOG	PUSH_DATA: Protocol version = 02, Token = a1bb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3769128278, 'time': '2023-11-27T10:58:05.983234Z', 'tmms': 1385117904983, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.0, 'foff': -3245, 'rssi': -49, 'size': 20, 'data': 'QAAAAACArgcCzLcvOJutXEVfglQ='}, {'jver': 1, 'tmst': 3769128279, 'time': '2023-11-27T10:58:05.983235Z', 'tmms': 1385117904983, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.5, 'foff': -3244, 'rssi': -113, 'size': 20, 'data': 'QAAAAACArgcCzLcvOJutXEVfglQ='}]}
0:30:56.521798	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07ae, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 455f8254)
0:30:56.522801	LOG	Server <---------- DUT
0:30:56.524844	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0486, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 5b5d99f5)
0:30:56.525836	LOG	Frame command sent to the DUT
0:30:56.527836	LOG	PULL_RESP: Protocol version = 02, Token = e25b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3770128278, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAhgTgOodjzp2isQS6/y+GTCugm/50NbPXgpGF5PrTfc6McaVkau3W3jO+iBUutjYhMNfu4driW12Z9Q==’}}
0:30:56.528835	LOG	Server ----------> DUT
0:30:56.531802	LOG	Send Test Command TxFramesCtrlReq process completed
0:30:56.534497	LOG	Check previous uplink data rate process starts

0:30:56.538644	LOG	Uplink received with expected Data Rate
0:30:56.541730	LOG	Send Test Command TxFramesCtrlReq process starts
0:31:01.563868	LOG	GPS Time updated: 1385117910140
0:31:01.565850	LOG	PULL_DATA: 02 e78b 02 0016c001ff1025bf
0:31:01.566835	LOG	PULL_ACK: 02 e78b 04
0:31:06.402316	LOG	First uplink received. Open reception window.
0:31:06.507137	LOG	PUSH_ACK: 02 b965 01
0:31:06.509106	LOG	GPS Time from gateway: 1385117914982
0:31:06.510107	LOG	PUSH_DATA: Protocol version = 02, Token = b965, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3779127760, 'time': '2023-11-27T10:58:15.982715Z', 'tmms': 1385117914982, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.8, 'foff': -3235, 'rssi': -49, 'size': 20, 'data': 'QAAAAACArwcCuVN0jgNYYlaxffY='}]}
0:31:06.512105	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07af, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 56b17df6)
0:31:06.513105	LOG	Server <---------- DUT
0:31:06.515105	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0487, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: ccc8acec)
0:31:06.516105	LOG	Frame command sent to the DUT
0:31:06.518105	LOG	PULL_RESP: Protocol version = 02, Token = 79a1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3780127760, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAhwTg9K0Kn14iSSg5H7weH6rJj8usuQpWuC1R+L7UW58D8QPwtmUZCSKIk2DnHD5R/isDo6U/zMis7A=='}}
0:31:06.519104	LOG	Server ----------> DUT
0:31:06.522106	LOG	Send Test Command TxFramesCtrlReq process completed
0:31:06.525145	LOG	Check previous uplink data rate process starts
0:31:06.529143	LOG	Uplink received with expected Data Rate
0:31:06.533114	LOG	Send Test Command TxFramesCtrlReq process starts
0:31:11.764401	LOG	GPS Time updated: 1385117920343
0:31:11.765402	LOG	PULL_DATA: 02 5445 02 0016c001ff1025bf
0:31:11.766401	LOG	PULL_ACK: 02 5445 04
0:31:16.401348	LOG	Multiple frames received. Selecting the correct frame...
0:31:16.403179	LOG	Frame selected: {'jver': 1, 'tmst': 3789127245, 'time': '2023-11-27T10:58:25.982198Z', 'tmms': 1385117924982, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 8.0, 'foff': -3230, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAsAcCunxbJ2ES4AyCrGk='}
0:31:16.404727	LOG	First uplink received. Open reception window.
0:31:16.520033	LOG	PUSH_ACK: 02 9f6b 01
0:31:16.522002	LOG	GPS Time from gateway: 1385117924982
0:31:16.523014	LOG	PUSH_DATA: Protocol version = 02, Token = 9f6b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3789127245, 'time': '2023-11-27T10:58:25.982198Z', 'tmms': 1385117924982, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 8.0, 'foff': -3230, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAsAcCunxbJ2ES4AyCrGk='}, {'jver': 1, 'tmst': 3789127245, 'time': '2023-11-27T10:58:25.982198Z', 'tmms': 1385117924982, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -124, 'lsnr': -11.8, 'foff': -3229, 'rssi': -113, 'size': 20, 'data': 'QAAAAACAsAcCunxbJ2ES4AyCrGk='}]}
0:31:16.525013	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07b0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0c82ac69)
0:31:16.526013	LOG	Server <---------- DUT

0:31:16.528012	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0488, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: f16b09dd)
0:31:16.529012	LOG	Frame command sent to the DUT
0:31:16.531012	LOG	PULL_RESP: Protocol version = 02, Token = abf2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3790127245, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAiATglYmdp7CN9AKdpKShNirsT0SHTP6CC/3aHdHlKws6Fk15x4LVNeZMsrKQ1jsdjs6WuvSI8WsJ3Q==\'}}
0:31:16.532012	LOG	Server ----------> DUT
0:31:16.535013	LOG	Send Test Command TxFramesCtrlReq process completed
0:31:16.537516	LOG	Check previous uplink data rate process starts
0:31:16.541521	LOG	Uplink received with expected Data Rate
0:31:16.545559	LOG	Send Test Command TxFramesCtrlReq process starts
0:31:21.784171	LOG	GPS Time updated: 1385117930362
0:31:21.785171	LOG	PULL_DATA: 02 a9b6 02 0016c001ff1025bf
0:31:21.787173	LOG	PULL_ACK: 02 a9b6 04
0:31:26.394479	LOG	Multiple frames received. Selecting the correct frame...
0:31:26.396086	LOG	Frame selected: {'jver': 1, 'tmst': 3799126728, 'time': '2023-11-27T10:58:35.981680Z', 'tmms': 1385117934981, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3227, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAsQcCa7vcMs/L66O8WJE='}
0:31:26.397699	LOG	First uplink received. Open reception window.
0:31:26.509331	LOG	PUSH_ACK: 02 1848 01
0:31:26.511331	LOG	GPS Time from gateway: 1385117934981
0:31:26.512334	LOG	PUSH_DATA: Protocol version = 02, Token = 1848, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3799126728, 'time': '2023-11-27T10:58:35.981680Z', 'tmms': 1385117934981, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3227, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAsQcCa7vcMs/L66O8WJE='}, {'jver': 1, 'tmst': 3799126729, 'time': '2023-11-27T10:58:35.981681Z', 'tmms': 1385117934981, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -128, 'lsnr': -15.5, 'foff': -3228, 'rssi': -113, 'size': 20, 'data': 'QAAAAACAsQcCa7vcMs/L66O8WJE='}]}
0:31:26.514333	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07b1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a3bc5891)
0:31:26.515330	LOG	Server <---------- DUT
0:31:26.517330	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0489, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 0b9ca521)
0:31:26.519296	LOG	Frame command sent to the DUT
0:31:26.520330	LOG	PULL_RESP: Protocol version = 02, Token = f1dd, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3800126728, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAiQTgk2mG35vHmSn15hr2gfv4MQ6HWDVqiYHrcDHR9G0s+cBrxbIogwqvqtH4rSFhjX8jkGJLC5ylIQ==\'}}
0:31:26.521332	LOG	Server ----------> DUT
0:31:26.524334	LOG	Send Test Command TxFramesCtrlReq process completed
0:31:26.527334	LOG	Check previous uplink data rate process starts
0:31:26.531334	LOG	Uplink received with expected Data Rate
0:31:26.535230	LOG	Send Test Command TxFramesCtrlReq process starts
0:31:31.984185	LOG	GPS Time updated: 1385117940567

0:31:31.985186	LOG	PULL_DATA: 02 3644 02 0016c001ff1025bf
0:31:31.986189	LOG	PULL_ACK: 02 3644 04
0:31:36.398211	LOG	Multiple frames received. Selecting the correct frame...
0:31:36.399921	LOG	Frame selected: {'jver': 1, 'tmst': 3809126218, 'time': '2023-11-27T10:58:45.981168Z', 'tmms': 1385117944981, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3226, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAsgcCkzC3hMmHNfXouso='}
0:31:36.401798	LOG	#**********CURRENT BEACON SENT**********#
0:31:36.403247	LOG	PULL_RESP: Protocol version = 02, Token = 1896, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385117952000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAOY9SJSoAAAAAAAAAAA='}}
0:31:36.404866	LOG	Server ----------> DUT
0:31:36.406489	LOG	#**********#
0:31:36.416202	LOG	#**********NEXT BEACON QUEUED**********#
0:31:36.417914	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385118080000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAOY9SHfcAAAAAAAAAAA='}}
0:31:36.419629	LOG	Server ----------> DUT
0:31:36.421843	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 80398f52, CRC1: 1df7, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385118080000
0:31:36.422866	LOG	#**********#
0:31:36.424420	LOG	Next BEACON scheduled at GPS time (ms): 1385118208000
0:31:36.426068	LOG	First uplink received. Open reception window.
0:31:36.427181	LOG	TX_ACK: 02 1896 05 0016c001ff1025bf
0:31:36.540378	LOG	PUSH_ACK: 02 07db 01
0:31:36.542378	LOG	GPS Time from gateway: 1385117944981
0:31:36.543384	LOG	PUSH_DATA: Protocol version = 02, Token = 07db, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3809126218, 'time': '2023-11-27T10:58:45.981168Z', 'tmms': 1385117944981, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3226, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAsgcCkzC3hMmHNfXouso='}, {'jver': 1, 'tmst': 3809126226, 'time': '2023-11-27T10:58:45.981176Z', 'tmms': 1385117944981, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.2, 'foff': -3255, 'rssi': -113, 'size': 20, 'data': 'QAAAAACAsgcCkzC3hMmHNfXouso='}]}
0:31:36.545378	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07b2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f5e8baca)
0:31:36.546379	LOG	Server <---------- DUT
0:31:36.548379	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 048a, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: a2fdd61b)
0:31:36.549381	LOG	Frame command sent to the DUT
0:31:36.551347	LOG	PULL_RESP: Protocol version = 02, Token = 1651, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3810126218, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data':

		'YAAAAAAAigTgcSSJYO/masXnERNsgnai5r2GmNjzrdg7YZNIZDmAiRsBZfTc/niv8CVG4WA/1CBEwRi3ov3WGw==''}}
0:31:36.552378	LOG	Server ----------> DUT
0:31:36.555387	LOG	Send Test Command TxFramesCtrlReq process completed
0:31:36.558352	LOG	Check previous uplink data rate process starts
0:31:36.563116	LOG	Uplink received with expected Data Rate
0:31:36.566158	LOG	Send Test Command TxFramesCtrlReq process starts
0:31:42.013282	LOG	GPS Time updated: 1385117950567
0:31:42.015283	LOG	PULL_DATA: 02 aa12 02 0016c001ff1025bf
0:31:42.017285	LOG	PULL_ACK: 02 aa12 04
0:31:46.400054	LOG	Multiple frames received. Selecting the correct frame...
0:31:46.401096	LOG	Frame selected: {'jver': 1, 'tmst': 3819125707, 'time': '2023-11-27T10:58:55.980656Z', 'tmms': 1385117954980, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3229, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAswcCQSdAlBsQ6wI5sOA='}
0:31:46.403174	LOG	First uplink received. Open reception window.
0:31:46.508069	LOG	PUSH_ACK: 02 ea6d 01
0:31:46.510070	LOG	GPS Time from gateway: 1385117954980
0:31:46.511060	LOG	PUSH_DATA: Protocol version = 02, Token = ea6d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3819125707, 'time': '2023-11-27T10:58:55.980656Z', 'tmms': 1385117954980, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3229, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAswcCQSdAlBsQ6wI5sOA='}, {'jver': 1, 'tmst': 3819125708, 'time': '2023-11-27T10:58:55.980657Z', 'tmms': 1385117954980, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -126, 'lsnr': -13.8, 'foff': -3228, 'rssi': -113, 'size': 20, 'data': 'QAAAAACAswcCQSdAlBsQ6wI5sOA='}]}
0:31:46.513055	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07b3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0239b0e0)
0:31:46.514071	LOG	Server <---------- DUT
0:31:46.516071	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 048b, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 7205970c)
0:31:46.518050	LOG	Frame command sent to the DUT
0:31:46.519069	LOG	PULL_RESP: Protocol version = 02, Token = f386, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3820125707, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAiwTgiFBMZXjg5xemLGFkRG52qPGXOPJZzDMmP0xnSKnp8qAsBALBleBh5x1xta48NSA1RbyFcgWXDA==''}}
0:31:46.520071	LOG	Server ----------> DUT
0:31:46.523041	LOG	Send Test Command TxFramesCtrlReq process completed
0:31:46.526075	LOG	Check previous uplink data rate process starts
0:31:46.531049	LOG	Uplink received with expected Data Rate
0:31:46.534040	LOG	Send Test Command TxFramesCtrlReq process starts
0:31:52.183351	LOG	GPS Time updated: 1385117960760
0:31:52.185351	LOG	PULL_DATA: 02 298e 02 0016c001ff1025bf
0:31:52.186318	LOG	PULL_ACK: 02 298e 04
0:31:56.393866	LOG	First uplink received. Open reception window.
0:31:56.505324	LOG	PUSH_ACK: 02 c510 01
0:31:56.506358	LOG	GPS Time from gateway: 1385117964980
0:31:56.508685	LOG	PUSH_DATA: Protocol version = 02, Token = c510, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3829125193, 'time': '2023-11-27T10:59:05.980140Z', 'tmms': 1385117964980, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3235, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAtAcCjOmHAtu+3AK30EE='}]}
0:31:56.509686	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07b4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 02b7d041)
0:31:56.511688	LOG	Server <---------- DUT
0:31:56.512683	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 048c, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 92563e1e)
0:31:56.515186	LOG	Frame command sent to the DUT
0:31:56.516186	LOG	PULL_RESP: Protocol version = 02, Token = cda2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3830125193, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAjATgF4oCjcECyXZxoC0SMNklzRtTEvdmqI17e6B6SLSgWTIipo4IqC80EB86Zork4JLE6EBxklY+Hg==''}}
0:31:56.517187	LOG	Server ----------> DUT
0:31:56.520156	LOG	Send Test Command TxFramesCtrlReq process completed
0:31:56.523185	LOG	Check previous uplink data rate process starts
0:31:56.527199	LOG	Uplink received with expected Data Rate
0:31:56.530193	LOG	Send Test Command TxFramesCtrlReq process starts
0:32:02.393895	LOG	GPS Time updated: 1385117970980
0:32:02.394895	LOG	PULL_DATA: 02 a5ca 02 0016c001ff1025bf
0:32:02.396867	LOG	PULL_ACK: 02 a5ca 04
0:32:06.398549	LOG	First uplink received. Open reception window.
0:32:06.505154	LOG	PUSH_ACK: 02 1944 01
0:32:06.506659	LOG	GPS Time from gateway: 1385117974979
0:32:06.508666	LOG	PUSH_DATA: Protocol version = 02, Token = 1944, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3839124683, 'time': '2023-11-27T10:59:15.979629Z', 'tmms': 1385117974979, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 8.5, 'foff': -3239, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAtQcCQfhjESu2tj5eXCg='}]}
0:32:06.509670	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07b5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3e5e5c28)
0:32:06.510671	LOG	Server <---------- DUT
0:32:06.512671	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 048d, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 4e2c933a)
0:32:06.514672	LOG	Frame command sent to the DUT
0:32:06.515670	LOG	PULL_RESP: Protocol version = 02, Token = 5fac, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3840124683, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAjQTgg47ayFM4ZHr7z06wMEICYMdKICUI0QI3gcG7G4Q3xoSaLa7oRrnNYiaeU9++q+NaE9AXTiyTOg==''}}
0:32:06.517671	LOG	Server ----------> DUT
0:32:06.519671	LOG	Send Test Command TxFramesCtrlReq process completed
0:32:06.522670	LOG	Check previous uplink data rate process starts
0:32:06.527177	LOG	Uplink received with expected Data Rate
0:32:06.531181	LOG	Send Test Command TxFramesCtrlReq process starts
0:32:12.603782	LOG	GPS Time updated: 1385117981183
0:32:12.604781	LOG	PULL_DATA: 02 fb4d 02 0016c001ff1025bf
0:32:12.606784	LOG	PULL_ACK: 02 fb4d 04
0:32:16.394553	LOG	First uplink received. Open reception window.
0:32:16.497700	LOG	PUSH_ACK: 02 0b96 01

0:32:16.499702	LOG	GPS Time from gateway: 1385117984979
0:32:16.500701	LOG	PUSH_DATA: Protocol version = 02, Token = 0b96, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3849124168, 'time': '2023-11-27T10:59:25.979112Z', 'tmms': 1385117984979, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.8, 'foff': -3237, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAtgcC8En51oSYMyNPn2w='}]}
0:32:16.502706	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07b6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 234f9f6c)
0:32:16.503700	LOG	Server <---------- DUT
0:32:16.506239	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 048e, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c9d2a309)
0:32:16.508251	LOG	Frame command sent to the DUT
0:32:16.509280	LOG	PULL_RESP: Protocol version = 02, Token = e20d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3850124168, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAjgTg1FyG4r7TsjSPc3peT69v50OFRhZTSq0Hgd8miDzRUsI5OFvmhCP3ayqGWMz8vA5v56PQydKjCQ=='}}
0:32:16.511246	LOG	Server ----------> DUT
0:32:16.513246	LOG	Send Test Command TxFramesCtrlReq process completed
0:32:16.517283	LOG	Check previous uplink data rate process starts
0:32:16.521249	LOG	Uplink received with expected Data Rate
0:32:16.525247	LOG	Send Test Command TxFramesCtrlReq process starts
0:32:22.813495	LOG	GPS Time updated: 1385117991398
0:32:22.814463	LOG	PULL_DATA: 02 e9cb 02 0016c001ff1025bf
0:32:22.816464	LOG	PULL_ACK: 02 e9cb 04
0:32:26.388261	LOG	First uplink received. Open reception window.
0:32:26.496086	LOG	PUSH_ACK: 02 eaf0 01
0:32:26.498332	LOG	GPS Time from gateway: 1385117994978
0:32:26.499959	LOG	PUSH_DATA: Protocol version = 02, Token = eaf0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3859123656, 'time': '2023-11-27T10:59:35.978599Z', 'tmms': 1385117994978, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 8.8, 'foff': -3234, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAtwcCt/FneusZ3syNN78='}]}
0:32:26.501665	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07b7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: cc8d37bf)
0:32:26.502837	LOG	Server <---------- DUT
0:32:26.504706	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 048f, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: cbe8ba7d)
0:32:26.506443	LOG	Frame command sent to the DUT
0:32:26.508040	LOG	PULL_RESP: Protocol version = 02, Token = 1bce, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3860123656, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAjwTgxGXIUH81dZJ5UjCjXkU0eN/cE/OBfrEgtNmNPQLjzEPffsBP61BUPIiEy0/5RVDtIbtsy+i6fQ=='}}
0:32:26.508997	LOG	Server ----------> DUT
0:32:26.512234	LOG	Send Test Command TxFramesCtrlReq process completed
0:32:26.515372	LOG	Check previous uplink data rate process starts
0:32:26.519746	LOG	Uplink received with expected Data Rate
0:32:26.523655	LOG	Send Test Command TxFramesCtrlReq process starts
0:32:33.013773	LOG	GPS Time updated: 1385118001602

0:32:33.014772	LOG	PULL_DATA: 02 02e1 02 0016c001ff1025bf
0:32:33.016742	LOG	PULL_ACK: 02 02e1 04
0:32:36.395508	LOG	Multiple frames received. Selecting the correct frame...
0:32:36.397559	LOG	Frame selected: {'jver': 1, 'tmst': 3869123144, 'time': '2023-11-27T10:59:45.978085Z', 'tmms': 1385118004978, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3233, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAuAcCohiM6xmCWySCAOU='}
0:32:36.399606	LOG	First uplink received. Open reception window.
0:32:36.513653	LOG	PUSH_ACK: 02 6fe1 01
0:32:36.515601	LOG	GPS Time from gateway: 1385118004978
0:32:36.516600	LOG	PUSH_DATA: Protocol version = 02, Token = 6fe1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3869123144, 'time': '2023-11-27T10:59:45.978085Z', 'tmms': 1385118004978, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3233, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAuAcCohiM6xmCWySCAOU='}, {'jver': 1, 'tmst': 3869123144, 'time': '2023-11-27T10:59:45.978085Z', 'tmms': 1385118004978, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -126, 'lsnr': -13.2, 'foff': -3233, 'rssi': -113, 'size': 20, 'data': 'QAAAAACAuAcCohiM6xmCWySCAOU='}]}
0:32:36.518600	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07b8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 248200e5)
0:32:36.519600	LOG	Server <---------- DUT
0:32:36.521601	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0490, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: de901c46)
0:32:36.523605	LOG	Frame command sent to the DUT
0:32:36.524639	LOG	PULL_RESP: Protocol version = 02, Token = 2f03, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3870123144, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAkATgr6nHT2X206EBBSzIeRtrxkllVQU2R8AFEhIg+gKpQ/tyP1QM/tl2MhF7V0TFX97Aeu493pAcRg==''}}
0:32:36.525642	LOG	Server ----------> DUT
0:32:36.528653	LOG	Send Test Command TxFramesCtrlReq process completed
0:32:36.531668	LOG	Check previous uplink data rate process starts
0:32:36.536607	LOG	Uplink received with expected Data Rate
0:32:36.541116	LOG	Send Test Command TxFramesCtrlReq process starts
0:32:43.033202	LOG	GPS Time updated: 1385118011613
0:32:43.035187	LOG	PULL_DATA: 02 60b1 02 0016c001ff1025bf
0:32:43.036170	LOG	PULL_ACK: 02 60b1 04
0:32:46.395068	LOG	Multiple frames received. Selecting the correct frame...
0:32:46.397073	LOG	Frame selected: {'jver': 1, 'tmst': 3879122621, 'time': '2023-11-27T10:59:55.977561Z', 'tmms': 1385118014977, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.8, 'foff': -3233, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAuQcC3uHtQ9gPWhjgcEs='}
0:32:46.398080	LOG	First uplink received. Open reception window.
0:32:46.512305	LOG	PUSH_ACK: 02 5c05 01
0:32:46.514493	LOG	GPS Time from gateway: 1385118014977
0:32:46.516376	LOG	PUSH_DATA: Protocol version = 02, Token = 5c05, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3879122621, 'time': '2023-11-27T10:59:55.977561Z', 'tmms': 1385118014977, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -124, 'lsnr': -12.0, 'foff': -3232, 'rssi': -113, 'size': 20, 'data': 'QAAAAACAuQcC3uHtQ9gPWhjgcEs='}, {'jver': 1, 'tmst': 3879122621, 'time': '2023-11-27T10:59:55.977561Z', 'tmms':

		1385118014977, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.8, 'foff': -3233, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAuQcC3uHtQ9gPWhjgcEs='}]}
0:32:46.517413	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07b9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 18e0704b)
0:32:46.519295	LOG	Server <---------- DUT
0:32:46.521278	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0491, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 8e0e4252)
0:32:46.522390	LOG	Frame command sent to the DUT
0:32:46.524100	LOG	PULL_RESP: Protocol version = 02, Token = 1074, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3880122621, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAkQTgTtcKLDemlB9kyw8Xm91kCjiesltwddR0kW8ajT1h2ddnnhZAN7dq+1ngM1+vkJrwB6CAjg5CUg==''}}
0:32:46.525332	LOG	Server ----------> DUT
0:32:46.527842	LOG	Send Test Command TxFramesCtrlReq process completed
0:32:46.530838	LOG	Check previous uplink data rate process starts
0:32:46.534841	LOG	Uplink received with expected Data Rate
0:32:46.539350	LOG	Send Test Command TxFramesCtrlReq process starts
0:32:53.243281	LOG	GPS Time updated: 1385118021822
0:32:53.245281	LOG	PULL_DATA: 02 7b76 02 0016c001ff1025bf
0:32:53.246282	LOG	PULL_ACK: 02 7b76 04
0:32:56.390362	LOG	Multiple frames received. Selecting the correct frame...
0:32:56.392085	LOG	Frame selected: {'jver': 1, 'tmst': 3889122109, 'time': '2023-11-27T11:00:05.977047Z', 'tmms': 1385118024977, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.5, 'foff': -3237, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAugcCDswpR1pSCrJA4yc='}
0:32:56.393690	LOG	First uplink received. Open reception window.
0:32:56.504847	LOG	PUSH_ACK: 02 4ab0 01
0:32:56.506999	LOG	GPS Time from gateway: 1385118024977
0:32:56.508678	LOG	PUSH_DATA: Protocol version = 02, Token = 4ab0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3889122109, 'time': '2023-11-27T11:00:05.977047Z', 'tmms': 1385118024977, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.5, 'foff': -3237, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAugcCDswpR1pSCrJA4yc='}, {'jver': 1, 'tmst': 3889122109, 'time': '2023-11-27T11:00:05.977047Z', 'tmms': 1385118024977, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -124, 'lsnr': -12.2, 'foff': -3236, 'rssi': -113, 'size': 20, 'data': 'QAAAAACAugcCDswpR1pSCrJA4yc='}]}
0:32:56.509841	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07ba, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b240e327)
0:32:56.511505	LOG	Server <---------- DUT
0:32:56.513171	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0492, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: dd99f4f7)
0:32:56.514833	LOG	Frame command sent to the DUT
0:32:56.516443	LOG	PULL_RESP: Protocol version = 02, Token = f8b1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3890122109, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAkgTgP5awXNrkiy3z+W1phWUUrn2vqYWO+srEYGB0ovLzdcL3aqC/++4gcqiZmRVpXMTzz8c53Zn09w==''}}

0:32:56.517608	LOG	Server ----------> DUT
0:32:56.521119	LOG	Send Test Command TxFramesCtrlReq process completed
0:32:56.523121	LOG	Check previous uplink data rate process starts
0:32:56.528120	LOG	Uplink received with expected Data Rate
0:32:56.531120	LOG	Send Test Command TxFramesCtrlReq process starts
0:33:03.452919	LOG	GPS Time updated: 1385118032036
0:33:03.454886	LOG	PULL_DATA: 02 fd44 02 0016c001ff1025bf
0:33:03.455886	LOG	PULL_ACK: 02 fd44 04
0:33:06.389452	LOG	First uplink received. Open reception window.
0:33:06.500708	LOG	PUSH_ACK: 02 db92 01
0:33:06.502792	LOG	GPS Time from gateway: 1385118034976
0:33:06.504417	LOG	PUSH_DATA: Protocol version = 02, Token = db92, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3899121594, 'time': '2023-11-27T11:00:15.976531Z', 'tmms': 1385118034976, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.2, 'foff': -3238, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAuwcCVmu5YugqI/WiD7c='}]}
0:33:06.506096	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07bb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f5a20fb7)
0:33:06.507724	LOG	Server <---------- DUT
0:33:06.509383	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0493, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: e74f8a03)
0:33:06.511110	LOG	Frame command sent to the DUT
0:33:06.512771	LOG	PULL_RESP: Protocol version = 02, Token = 7d65, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3900121594, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAkwTgvl3EtkNXgCrwCWkMtc5DXCL36TgWdsZ5V2PAFxWmCXb0v8mZ/dbXE9xRH7CAqbkpX5bj50+KAw==''}}
0:33:06.514380	LOG	Server ----------> DUT
0:33:06.517003	LOG	Send Test Command TxFramesCtrlReq process completed
0:33:06.520822	LOG	Check previous uplink data rate process starts
0:33:06.525304	LOG	Uplink received with expected Data Rate
0:33:06.529118	LOG	Send Test Command TxFramesCtrlReq process starts
0:33:13.653517	LOG	GPS Time updated: 1385118042239
0:33:13.654514	LOG	PULL_DATA: 02 5ed5 02 0016c001ff1025bf
0:33:13.656485	LOG	PULL_ACK: 02 5ed5 04
0:33:16.390419	LOG	Multiple frames received. Selecting the correct frame...
0:33:16.391980	LOG	Frame selected: {'jver': 1, 'tmst': 3909121091, 'time': '2023-11-27T11:00:25.976026Z', 'tmms': 1385118044976, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.5, 'foff': -3237, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAvAcCKQQQkWmsofADLHs='}
0:33:16.393655	LOG	First uplink received. Open reception window.
0:33:16.497745	LOG	PUSH_ACK: 02 b405 01
0:33:16.500003	LOG	GPS Time from gateway: 1385118044976
0:33:16.501754	LOG	PUSH_DATA: Protocol version = 02, Token = b405, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3909121091, 'time': '2023-11-27T11:00:25.976026Z', 'tmms': 1385118044976, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.5, 'foff': -3237, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAvAcCKQQQkWmsofADLHs='}, {'jver': 1, 'tmst': 3909121091, 'time': '2023-11-27T11:00:25.976026Z', 'tmms': 1385118044976, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -13.2, 'foff': -3236, 'rssi': -113, 'size': 20, 'data': 'QAAAAACAvAcCKQQQkWmsofADLHs='}]}

0:33:16.503129	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07bc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f0032c7b)
0:33:16.504290	LOG	Server <---------- DUT
0:33:16.505931	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0494, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 7efb4354)
0:33:16.508164	LOG	Frame command sent to the DUT
0:33:16.509808	LOG	PULL_RESP: Protocol version = 02, Token = 72b6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3910121091, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAlATgfURZJdttayhBA9TVQjeovkMfdtmGr19X1mTUE9jNIU7qs/GehcS16xF3ElysCaZfUGojfvtDVA==’}}
0:33:16.511422	LOG	Server ----------> DUT
0:33:16.515246	LOG	Send Test Command TxFramesCtrlReq process completed
0:33:16.518529	LOG	Check previous uplink data rate process starts
0:33:16.522391	LOG	Uplink received with expected Data Rate
0:33:16.525519	LOG	Send Test Command TxFramesCtrlReq process starts
0:33:23.863331	LOG	GPS Time updated: 1385118052446
0:33:23.864332	LOG	PULL_DATA: 02 966b 02 0016c001ff1025bf
0:33:23.866334	LOG	PULL_ACK: 02 966b 04
0:33:26.391934	LOG	First uplink received. Open reception window.
0:33:26.494542	LOG	PUSH_ACK: 02 98b2 01
0:33:26.496727	LOG	GPS Time from gateway: 1385118054975
0:33:26.497831	LOG	PUSH_DATA: Protocol version = 02, Token = 98b2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3919120567, 'time': '2023-11-27T11:00:35.975501Z', 'tmms': 1385118054975, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.0, 'foff': -3239, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAvQcCXzYWDvxhJ/Jw5gE='}]}
0:33:26.499469	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07bd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f270e601)
0:33:26.501079	LOG	Server <---------- DUT
0:33:26.502699	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0495, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: b88749b8)
0:33:26.504424	LOG	Frame command sent to the DUT
0:33:26.505429	LOG	PULL_RESP: Protocol version = 02, Token = cbd4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3920120567, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAlQTgyOPTCSy2I+JkYa/aMYCOFVgDOh2nvQ1qDRc5vISQALzGpzFor8HlMWIlTQnrmu6YvMlnuIdJuA==’}}
0:33:26.506428	LOG	Server ----------> DUT
0:33:26.510901	LOG	Send Test Command TxFramesCtrlReq process completed
0:33:26.514954	LOG	Check previous uplink data rate process starts
0:33:26.519926	LOG	Uplink received with expected Data Rate
0:33:26.523793	LOG	Send Test Command TxFramesCtrlReq process starts
0:33:34.063120	LOG	GPS Time updated: 1385118062647
0:33:34.064120	LOG	PULL_DATA: 02 8ff4 02 0016c001ff1025bf
0:33:34.066121	LOG	PULL_ACK: 02 8ff4 04
0:33:36.385585	LOG	Multiple frames received. Selecting the correct frame...
0:33:36.386581	LOG	Frame selected: {'jver': 1, 'tmst': 3929120056, 'time': '2023-11-27T11:00:45.974988Z', 'tmms': 1385118064975, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr':

		10.8, 'foff': -3236, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAvgcCFA8fGbt2tSJRspQ='}
0:33:36.388583	LOG	First uplink received. Open reception window.
0:33:36.494341	LOG	PUSH_ACK: 02 83ec 01
0:33:36.496656	LOG	GPS Time from gateway: 1385118064975
0:33:36.498234	LOG	PUSH_DATA: Protocol version = 02, Token = 83ec, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3929120056, 'time': '2023-11-27T11:00:45.974988Z', 'tmms': 1385118064975, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3236, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAvgcCFA8fGbt2tSJRspQ='}, {'jver': 1, 'tmst': 3929120065, 'time': '2023-11-27T11:00:45.974997Z', 'tmms': 1385118064975, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -127, 'lsnr': -15.0, 'foff': -3267, 'rssi': -113, 'size': 20, 'data': 'QAAAAACAvgcCFA8fGbt2tSJRspQ='}]}
0:33:36.500366	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07be, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2251b294)
0:33:36.501978	LOG	Server <---------- DUT
0:33:36.504061	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0496, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: ce2e7ce5)
0:33:36.505664	LOG	Frame command sent to the DUT
0:33:36.507774	LOG	PULL_RESP: Protocol version = 02, Token = cd65, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3930120056, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAlgTg5Vyg2A8FLKEeoFJOBMVQtFrnzvPilFMzxjc1Vk8L0Rm67g/ELxttJnIdiqvIOlQ8EOuczi585Q=='}}
0:33:36.509340	LOG	Server ----------> DUT
0:33:36.512631	LOG	Send Test Command TxFramesCtrlReq process completed
0:33:36.515435	LOG	Check previous uplink data rate process starts
0:33:36.519713	LOG	Uplink received with expected Data Rate
0:33:36.522366	LOG	Send Test Command TxFramesCtrlReq process starts
0:33:44.272354	LOG	#**********CURRENT BEACON SENT**********#
0:33:44.274356	LOG	PULL_RESP: Protocol version = 02, Token = ff07, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385118080000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAOY9SHfcAAAAAAAAAAA='}}
0:33:44.276359	LOG	Server ----------> DUT
0:33:44.277360	LOG	#**********#
0:33:44.287359	LOG	#**********NEXT BEACON QUEUED**********#
0:33:44.288450	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385118208000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAOo9SdXMAAAAAAAAAAA='}}
0:33:44.290483	LOG	Server ----------> DUT
0:33:44.291484	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 003a8f52, CRC1: 7573, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385118208000
0:33:44.292483	LOG	#**********#
0:33:44.294475	LOG	Next BEACON scheduled at GPS time (ms): 1385118336000
0:33:44.295483	LOG	GPS Time updated: 1385118072882
0:33:44.296483	LOG	PULL_DATA: 02 6243 02 0016c001ff1025bf

0:33:44.298482	LOG	PULL_ACK: 02 6243 04
0:33:44.299481	LOG	TX_ACK: 02 ff07 05 0016c001ff1025bf
0:33:46.389364	LOG	First uplink received. Open reception window.
0:33:46.499139	LOG	PUSH_ACK: 02 af9b 01
0:33:46.501226	LOG	GPS Time from gateway: 1385118074974
0:33:46.503359	LOG	PUSH_DATA: Protocol version = 02, Token = af9b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3939119546, 'time': '2023-11-27T11:00:55.974477Z', 'tmms': 1385118074974, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 8.2, 'foff': -3237, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAvwcCwMjaRPvC+U5+ung='}]}
0:33:46.505174	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07bf, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4e7eba78)
0:33:46.507435	LOG	Server <---------- DUT
0:33:46.509526	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0497, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c9c30d4d)
0:33:46.511622	LOG	Frame command sent to the DUT
0:33:46.513510	LOG	PULL_RESP: Protocol version = 02, Token = 7fb8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3940119546, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAlwTgjfM9LwiGSt4I+mwYJMLstUuwejKIDYDl9gxhjJTM/24IJ4/WKUfDCozHihQx53qEqcjUycMNTQ==''}}
0:33:46.515894	LOG	Server ----------> DUT
0:33:46.520507	LOG	Send Test Command TxFramesCtrlReq process completed
0:33:46.523699	LOG	Check previous uplink data rate process starts
0:33:46.527342	LOG	Uplink received with expected Data Rate
0:33:46.532490	LOG	Send Test Command TxFramesCtrlReq process starts
0:33:54.282545	LOG	GPS Time updated: 1385118082867
0:33:54.284507	LOG	PULL_DATA: 02 df63 02 0016c001ff1025bf
0:33:54.285507	LOG	PULL_ACK: 02 df63 04
0:33:56.388168	LOG	Multiple frames received. Selecting the correct frame...
0:33:56.389166	LOG	Frame selected: {'jver': 1, 'tmst': 3949119040, 'time': '2023-11-27T11:01:05.973969Z', 'tmms': 1385118084974, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 8.8, 'foff': -3237, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAwAcCs7ulfIPTIudk7k8='}
0:33:56.392168	LOG	First uplink received. Open reception window.
0:33:56.495926	LOG	PUSH_ACK: 02 3fca 01
0:33:56.498899	LOG	GPS Time from gateway: 1385118084974
0:33:56.500902	LOG	PUSH_DATA: Protocol version = 02, Token = 3fca, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3949119040, 'time': '2023-11-27T11:01:05.973969Z', 'tmms': 1385118084974, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 8.8, 'foff': -3237, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAwAcCs7ulfIPTIudk7k8='}, {'jver': 1, 'tmst': 3949119041, 'time': '2023-11-27T11:01:05.973970Z', 'tmms': 1385118084974, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -126, 'lsnr': -13.2, 'foff': -3236, 'rssi': -113, 'size': 20, 'data': 'QAAAAACAwAcCs7ulfIPTIudk7k8='}]}
0:33:56.502899	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07c0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e764ee4f)
0:33:56.504898	LOG	Server <---------- DUT
0:33:56.509419	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0498, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 3322453e)

0:33:56.512163	LOG	Frame command sent to the DUT
0:33:56.513971	LOG	PULL_RESP: Protocol version = 02, Token = 86c4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3950119040, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAmATgE0ZebBuuB/fLhlnr6/jGv/NsHqv8+EpJUBRKPpt2+Jh3S6tTRW+YiQ+pTJmYrmFNIuZTMyJFPg==''}}
0:33:56.515903	LOG	Server ----------> DUT
0:33:56.519926	LOG	Send Test Command TxFramesCtrlReq process completed
0:33:56.523925	LOG	Check previous uplink data rate process starts
0:33:56.540525	LOG	Uplink received with expected Data Rate
0:33:56.549007	LOG	Send Test Command TxFramesCtrlReq process starts
0:34:04.492242	LOG	GPS Time updated: 1385118093075
0:34:04.494210	LOG	PULL_DATA: 02 a208 02 0016c001ff1025bf
0:34:04.496213	LOG	PULL_ACK: 02 a208 04
0:34:06.384706	LOG	First uplink received. Open reception window.
0:34:06.490311	LOG	PUSH_ACK: 02 9338 01
0:34:06.491821	LOG	GPS Time from gateway: 1385118094973
0:34:06.494167	LOG	PUSH_DATA: Protocol version = 02, Token = 9338, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3959118527, 'time': '2023-11-27T11:01:15.973455Z', 'tmms': 1385118094973, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.8, 'foff': -3227, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAwQcCrQmr2shMHGmu2AQ='}]}
0:34:06.495866	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07c1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 69aed804)
0:34:06.496902	LOG	Server <---------- DUT
0:34:06.499165	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0499, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 4aaf35a8)
0:34:06.500795	LOG	Frame command sent to the DUT
0:34:06.502517	LOG	PULL_RESP: Protocol version = 02, Token = a81c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3960118527, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAmQTgAgg9oE8pAkSy1YoyJn83ufpJBboUXRN0VWzXbmjffB3p0B2Ths9iR4kUzQlsKbAdidMmSq81qA==''}}
0:34:06.503567	LOG	Server ----------> DUT
0:34:06.507052	LOG	Send Test Command TxFramesCtrlReq process completed
0:34:06.509914	LOG	Check previous uplink data rate process starts
0:34:06.514750	LOG	Uplink received with expected Data Rate
0:34:06.518465	LOG	Send Test Command TxFramesCtrlReq process starts
0:34:14.702976	LOG	GPS Time updated: 1385118103292
0:34:14.703975	LOG	PULL_DATA: 02 ea0a 02 0016c001ff1025bf
0:34:14.705982	LOG	PULL_ACK: 02 ea0a 04
0:34:16.386650	LOG	Multiple frames received. Selecting the correct frame...
0:34:16.387648	LOG	Frame selected: {'jver': 1, 'tmst': 3969118011, 'time': '2023-11-27T11:01:25.972937Z', 'tmms': 1385118104973, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3221, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAwgcCo/a/CiUsNS86K8E='}
0:34:16.389615	LOG	First uplink received. Open reception window.
0:34:16.499199	LOG	PUSH_ACK: 02 337e 01
0:34:16.501362	LOG	GPS Time from gateway: 1385118104973
0:34:16.503001	LOG	PUSH_DATA: Protocol version = 02, Token = 337e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3969118011, 'time': '2023-11-27T11:01:25.972937Z',

		'tmms': 1385118104973, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3221, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAwgcCo/a/CiUsNS86K8E='}, {'jver': 1, 'tmst': 3969118011, 'time': '2023-11-27T11:01:25.972937Z', 'tmms': 1385118104973, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.0, 'foff': -3219, 'rssi': -113, 'size': 20, 'data': 'QAAAAACAwgcCo/a/CiUsNS86K8E='}]}
0:34:16.504655	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07c2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2f3a2bc1)
0:34:16.505757	LOG	Server <---------- DUT
0:34:16.508931	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 049a, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: aea99f18)
0:34:16.510497	LOG	Frame command sent to the DUT
0:34:16.512161	LOG	PULL_RESP: Protocol version = 02, Token = 4f3b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3970118011, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAmgTgw3YiYIgCenZZVbt0vOFe08qZM43829ugdj+EgxIWBsKLsfokulbxnStSVZH2dCXvRYS3rqmfGA==''}}
0:34:16.513823	LOG	Server ----------> DUT
0:34:16.517359	LOG	Send Test Command TxFramesCtrlReq process completed
0:34:16.520119	LOG	Check previous uplink data rate process starts
0:34:16.525229	LOG	Uplink received with expected Data Rate
0:34:16.531293	LOG	Send Test Command TxFramesCtrlReq process starts
0:34:24.912476	LOG	GPS Time updated: 1385118113496
0:34:24.913685	LOG	PULL_DATA: 02 dcc3 02 0016c001ff1025bf
0:34:24.915686	LOG	PULL_ACK: 02 dcc3 04
0:34:26.390904	LOG	Multiple frames received. Selecting the correct frame...
0:34:26.391897	LOG	Frame selected: {'jver': 1, 'tmst': 3979117501, 'time': '2023-11-27T11:01:35.972426Z', 'tmms': 1385118114972, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.5, 'foff': -3219, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAwwcCUjmrZHzK5AcOSsk='}
0:34:26.393900	LOG	First uplink received. Open reception window.
0:34:26.495087	LOG	PUSH_ACK: 02 7260 01
0:34:26.496754	LOG	GPS Time from gateway: 1385118114972
0:34:26.498355	LOG	PUSH_DATA: Protocol version = 02, Token = 7260, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3979117494, 'time': '2023-11-27T11:01:35.972419Z', 'tmms': 1385118114972, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -126, 'lsnr': -14.2, 'foff': -3187, 'rssi': -113, 'size': 20, 'data': 'QAAAAACAwwcCUjmrZHzK5AcOSsk='}, {'jver': 1, 'tmst': 3979117501, 'time': '2023-11-27T11:01:35.972426Z', 'tmms': 1385118114972, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.5, 'foff': -3219, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAwwcCUjmrZHzK5AcOSsk='}]}
0:34:26.500085	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07c3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 070e4ac9)
0:34:26.501594	LOG	Server <---------- DUT
0:34:26.503592	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 049b, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 8dd51e1b)
0:34:26.504592	LOG	Frame command sent to the DUT
0:34:26.506593	LOG	PULL_RESP: Protocol version = 02, Token = 023c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3980117501, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAmwTgAJ9j+y4YeiDkzMZgmXoZ3mcpOiudDM0BvqWYUqLMsMlgf9v9fEigoAg25VrulQ3PgUpxjdUeGw==''}}
0:34:26.508200	LOG	Server ----------> DUT
0:34:26.510949	LOG	Send Test Command TxFramesCtrlReq process completed
0:34:26.514074	LOG	Check previous uplink data rate process starts
0:34:26.519070	LOG	Uplink received with expected Data Rate
0:34:26.522332	LOG	Send Test Command TxFramesCtrlReq process starts
0:34:35.122380	LOG	GPS Time updated: 1385118123701
0:34:35.124348	LOG	PULL_DATA: 02 af0e 02 0016c001ff1025bf
0:34:35.125348	LOG	PULL_ACK: 02 af0e 04
0:34:36.389719	LOG	First uplink received. Open reception window.
0:34:36.501125	LOG	PUSH_ACK: 02 ac37 01
0:34:36.503191	LOG	GPS Time from gateway: 1385118124972
0:34:36.504700	LOG	PUSH_DATA: Protocol version = 02, Token = ac37, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3989116977, 'time': '2023-11-27T11:01:45.971900Z', 'tmms': 1385118124972, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.2, 'foff': -3220, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAxAcCu4SaUnLp93i1rVI='}]}
0:34:36.506216	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07c4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 78b5ad52)
0:34:36.508765	LOG	Server <---------- DUT
0:34:36.510754	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 049c, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c9ee4825)
0:34:36.513330	LOG	Frame command sent to the DUT
0:34:36.513834	LOG	PULL_RESP: Protocol version = 02, Token = fb85, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3990116977, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAnATgGNXbJA+QoIwORqk6uTr83fGOK/RJOlv5sbT8p/bAdkQixaT+fideNiQllvLFMrn6Gu3Vye5IJQ==''}}
0:34:36.515916	LOG	Server ----------> DUT
0:34:36.519288	LOG	Send Test Command TxFramesCtrlReq process completed
0:34:36.522535	LOG	Check previous uplink data rate process starts
0:34:36.527165	LOG	Uplink received with expected Data Rate
0:34:36.531172	LOG	Send Test Command TxFramesCtrlReq process starts
0:34:45.332298	LOG	GPS Time updated: 1385118133915
0:34:45.334298	LOG	PULL_DATA: 02 9bfb 02 0016c001ff1025bf
0:34:45.335299	LOG	PULL_ACK: 02 9bfb 04
0:34:46.386121	LOG	Multiple frames received. Selecting the correct frame...
0:34:46.387120	LOG	Frame selected: {'jver': 1, 'tmst': 3999116478, 'time': '2023-11-27T11:01:55.971400Z', 'tmms': 1385118134971, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3220, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAxQcCG4WV8+hTtY4eaLU='}
0:34:46.389123	LOG	First uplink received. Open reception window.
0:34:46.494727	LOG	PUSH_ACK: 02 55c2 01
0:34:46.496893	LOG	GPS Time from gateway: 1385118134971
0:34:46.497984	LOG	PUSH_DATA: Protocol version = 02, Token = 55c2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3999116476, 'time': '2023-11-27T11:01:55.971398Z', 'tmms': 1385118134971, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.0, 'foff': -3219, 'rssi': -113, 'size': 20, 'data': 'QAAAAACAxQcCG4WV8+hTtY4eaLU='}, {'jver': 1,

		'tmst': 3999116478, 'time': '2023-11-27T11:01:55.971400Z', 'tmms': 1385118134971, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3220, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAxQcCG4WV8+hTtY4eaLU='}]}
0:34:46.499624	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07c5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8e1e68b5)
0:34:46.500717	LOG	Server <---------- DUT
0:34:46.502972	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 049d, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: de0b523e)
0:34:46.504575	LOG	Frame command sent to the DUT
0:34:46.505650	LOG	PULL_RESP: Protocol version = 02, Token = fbe5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4000116478, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAnQTgjp71lEHG8FEnzAg0l96uo8ctz/O1YIE/QXcPHVzeuP9Cto+GyUta8RFNY0CTuvP/ylQ73gtSPg==’}}
0:34:46.507466	LOG	Server ----------> DUT
0:34:46.510708	LOG	Send Test Command TxFramesCtrlReq process completed
0:34:46.514270	LOG	Check previous uplink data rate process starts
0:34:46.518511	LOG	Uplink received with expected Data Rate
0:34:46.522535	LOG	Send Test Command TxFramesCtrlReq process starts
0:34:55.532683	LOG	GPS Time updated: 1385118144114
0:34:55.533683	LOG	PULL_DATA: 02 98f4 02 0016c001ff1025bf
0:34:55.535685	LOG	PULL_ACK: 02 98f4 04
0:34:56.380355	LOG	First uplink received. Open reception window.
0:34:56.495479	LOG	PUSH_ACK: 02 9e3b 01
0:34:56.497741	LOG	GPS Time from gateway: 1385118144970
0:34:56.498846	LOG	PUSH_DATA: Protocol version = 02, Token = 9e3b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4009115965, 'time': '2023-11-27T11:02:05.970885Z', 'tmms': 1385118144970, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.5, 'foff': -3222, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAxgcCyoLIe4SU9gyT33k='}]}
0:34:56.500617	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07c6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0c93df79)
0:34:56.501723	LOG	Server <---------- DUT
0:34:56.503878	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 049e, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 725555b5)
0:34:56.505334	LOG	Frame command sent to the DUT
0:34:56.506944	LOG	PULL_RESP: Protocol version = 02, Token = 44e2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4010115965, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAngTg3v6sa1ulHsCkoQRmiiLima5UpjmV6OMBPjx4+D3pLSEA3pZyXGBbVoYicwV0vSXmyy9MclVVtQ==’}}
0:34:56.508559	LOG	Server ----------> DUT
0:34:56.511399	LOG	Send Test Command TxFramesCtrlReq process completed
0:34:56.513464	LOG	Check previous uplink data rate process starts
0:34:56.518111	LOG	Uplink received with expected Data Rate
0:34:56.521952	LOG	Send Test Command TxFramesCtrlReq process starts
0:35:05.742376	LOG	GPS Time updated: 1385118154332
0:35:05.743375	LOG	PULL_DATA: 02 5e5e 02 0016c001ff1025bf
0:35:05.745375	LOG	PULL_ACK: 02 5e5e 04

0:35:06.397557	LOG	First uplink received. Open reception window.
0:35:06.510812	LOG	PUSH_ACK: 02 7b91 01
0:35:06.512410	LOG	GPS Time from gateway: 1385118154970
0:35:06.514057	LOG	PUSH_DATA: Protocol version = 02, Token = 7b91, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4019115447, 'time': '2023-11-27T11:02:15.970366Z', 'tmms': 1385118154970, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3226, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAxwcC8rhjKFjWXRaHWZY='}]}
0:35:06.515507	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07c7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 16875996)
0:35:06.517125	LOG	Server <---------- DUT
0:35:06.519374	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 049f, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: bdc95694)
0:35:06.521003	LOG	Frame command sent to the DUT
0:35:06.522246	LOG	PULL_RESP: Protocol version = 02, Token = db90, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4020115447, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAnwTgK5vDTdx+YrbgcfYPUddaSRu19QSjCp2XHcEGu0FNA+w5DlHT3eZTldIDxdpema3pjHkDvclWlA==''}}
0:35:06.523675	LOG	Server ----------> DUT
0:35:06.526066	LOG	Send Test Command TxFramesCtrlReq process completed
0:35:06.529299	LOG	Check previous uplink data rate process starts
0:35:06.533673	LOG	Uplink received with expected Data Rate
0:35:06.537758	LOG	Send Test Command TxFramesCtrlReq process starts
0:35:15.761826	LOG	GPS Time updated: 1385118164334
0:35:15.763794	LOG	PULL_DATA: 02 544e 02 0016c001ff1025bf
0:35:15.764794	LOG	PULL_ACK: 02 544e 04
0:35:16.380615	LOG	First uplink received. Open reception window.
0:35:16.492376	LOG	PUSH_ACK: 02 b803 01
0:35:16.493988	LOG	GPS Time from gateway: 1385118164969
0:35:16.495646	LOG	PUSH_DATA: Protocol version = 02, Token = b803, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4029114932, 'time': '2023-11-27T11:02:25.969849Z', 'tmms': 1385118164969, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 8.8, 'foff': -3224, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAyAcCNQKGIr6VBEWw6FU='}]}
0:35:16.497298	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07c8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 45b0e855)
0:35:16.498504	LOG	Server <---------- DUT
0:35:16.500599	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04a0, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: d7e265ae)
0:35:16.502178	LOG	Frame command sent to the DUT
0:35:16.503837	LOG	PULL_RESP: Protocol version = 02, Token = 3ddc, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4030114932, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAoATgw+7hYA510+L2tUt5+srUUB3F+m04sHRAWBGelpfydvZ0wMV9mtBK7kCmpSVXkTAeRY8B1+Jlrg==''}}
0:35:16.504930	LOG	Server ----------> DUT
0:35:16.508938	LOG	Send Test Command TxFramesCtrlReq process completed
0:35:16.512371	LOG	Check previous uplink data rate process starts
0:35:16.517264	LOG	Uplink received with expected Data Rate

0:35:16.520779	LOG	Send Test Command TxFramesCtrlReq process starts
0:35:25.952162	LOG	GPS Time updated: 1385118174541
0:35:25.953126	LOG	PULL_DATA: 02 b917 02 0016c001ff1025bf
0:35:25.955126	LOG	PULL_ACK: 02 b917 04
0:35:26.379302	LOG	First uplink received. Open reception window.
0:35:26.482701	LOG	PUSH_ACK: 02 1468 01
0:35:26.484709	LOG	GPS Time from gateway: 1385118174969
0:35:26.486684	LOG	PUSH_DATA: Protocol version = 02, Token = 1468, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4039114421, 'time': '2023-11-27T11:02:35.969337Z', 'tmms': 1385118174969, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 8.5, 'foff': -3221, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAyQcCl4tPXOFWBbQVbR4='}]}
0:35:26.488301	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07c9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b4156d1e)
0:35:26.490003	LOG	Server <---------- DUT
0:35:26.492176	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04a1, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 2033eeed)
0:35:26.493822	LOG	Frame command sent to the DUT
0:35:26.495563	LOG	PULL_RESP: Protocol version = 02, Token = 9c59, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4040114421, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAoQTgJPfNYbhbWQk/Jwdir5Yb9mhsaaw3Qkxq+avpF2MtNktsCa7pFCYMDBE69N2jf7my0BRlIDPu7Q=='}}
0:35:26.497208	LOG	Server ----------> DUT
0:35:26.500150	LOG	Send Test Command TxFramesCtrlReq process completed
0:35:26.503264	LOG	Check previous uplink data rate process starts
0:35:26.509637	LOG	Uplink received with expected Data Rate
0:35:26.513459	LOG	Send Test Command TxFramesCtrlReq process starts
0:35:36.151727	LOG	GPS Time updated: 1385118184741
0:35:36.153727	LOG	PULL_DATA: 02 4c3b 02 0016c001ff1025bf
0:35:36.154728	LOG	PULL_ACK: 02 4c3b 04
0:35:36.380270	LOG	First uplink received. Open reception window.
0:35:36.494239	LOG	PUSH_ACK: 02 dca1 01
0:35:36.496419	LOG	GPS Time from gateway: 1385118184968
0:35:36.498032	LOG	PUSH_DATA: Protocol version = 02, Token = dca1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4049113913, 'time': '2023-11-27T11:02:45.968827Z', 'tmms': 1385118184968, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.0, 'foff': -3219, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAygcCR1wFRUeaJhmA3AU='}]}
0:35:36.499726	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07ca, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1980dc05)
0:35:36.500785	LOG	Server <---------- DUT
0:35:36.502998	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04a2, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: f8e88871)
0:35:36.504696	LOG	Frame command sent to the DUT
0:35:36.505754	LOG	PULL_RESP: Protocol version = 02, Token = 2850, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4050113913, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAogTgPr8l3mMlmrkobWKqWnahN7CUZGQulTAsfn/IyP63GuVImeA2zROR6TQXlH5XxelILIoW+OiIcQ=='}}

0:35:36.507934	LOG	Server ----------> DUT
0:35:36.510711	LOG	Send Test Command TxFramesCtrlReq process completed
0:35:36.513475	LOG	Check previous uplink data rate process starts
0:35:36.517970	LOG	Uplink received with expected Data Rate
0:35:36.521513	LOG	Send Test Command TxFramesCtrlReq process starts
0:35:46.161247	LOG	GPS Time updated: 1385118194749
0:35:46.163756	LOG	PULL_DATA: 02 969c 02 0016c001ff1025bf
0:35:46.164758	LOG	PULL_ACK: 02 969c 04
0:35:46.382121	LOG	First uplink received. Open reception window.
0:35:46.493324	LOG	PUSH_ACK: 02 af93 01
0:35:46.495325	LOG	GPS Time from gateway: 1385118194968
0:35:46.497325	LOG	PUSH_DATA: Protocol version = 02, Token = af93, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4059113396, 'time': '2023-11-27T11:02:55.968309Z', 'tmms': 1385118194968, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.8, 'foff': -3219, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAywcCBidnJfIJXX55ozw='}]}
0:35:46.498324	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07cb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7e79a33c)
0:35:46.499324	LOG	Server <---------- DUT
0:35:46.502325	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04a3, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 46ed4806)
0:35:46.503323	LOG	Frame command sent to the DUT
0:35:46.505323	LOG	PULL_RESP: Protocol version = 02, Token = ec2e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4060113396, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAowTgWNgAdqmeKREi+pJF6xWC6nlU2JdXJKLVn7ULvF4au8Tf4q76HKhXjZ9E94XiGBD8JGBcRu1IBg=='}}
0:35:46.506323	LOG	Server ----------> DUT
0:35:46.509459	LOG	Send Test Command TxFramesCtrlReq process completed
0:35:46.513462	LOG	Check previous uplink data rate process starts
0:35:46.519117	LOG	Uplink received with expected Data Rate
0:35:46.522942	LOG	Send Test Command TxFramesCtrlReq process starts
0:35:56.372322	LOG	#**********CURRENT BEACON SENT**********#
0:35:56.373330	LOG	PULL_RESP: Protocol version = 02, Token = 28ec, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385118208000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAOo9SdXMAAAAAAAAAAA='}}
0:35:56.374334	LOG	Server ----------> DUT
0:35:56.376331	LOG	#**********#
0:35:56.386417	LOG	#**********NEXT BEACON QUEUED**********#
0:35:56.387448	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385118336000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAOo9STa4AAAAAAAAAAA='}}
0:35:56.388449	LOG	Server ----------> DUT
0:35:56.389448	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 803a8f52, CRC1: 4dae, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385118336000
0:35:56.391450	LOG	#**********#

0:35:56.392448	LOG	Next BEACON scheduled at GPS time (ms): 1385118464000
0:35:56.393450	LOG	GPS Time updated: 1385118204979
0:35:56.394448	LOG	PULL_DATA: 02 042c 02 0016c001ff1025bf
0:35:56.396461	LOG	PULL_ACK: 02 042c 04
0:35:56.398456	LOG	TX_ACK: 02 28ec 05 0016c001ff1025bf
0:35:56.400455	LOG	Multiple frames received. Selecting the correct frame...
0:35:56.401487	LOG	Frame selected: {'jver': 1, 'tmst': 4069112887, 'time': '2023-11-27T11:03:05.967798Z', 'tmms': 1385118204967, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.5, 'foff': -3218, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAzAcCQu0unYlC4n5NeCs='}
0:35:56.403486	LOG	First uplink received. Open reception window.
0:35:56.505400	LOG	PUSH_ACK: 02 817f 01
0:35:56.506904	LOG	GPS Time from gateway: 1385118204967
0:35:56.508910	LOG	PUSH_DATA: Protocol version = 02, Token = 817f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4069112880, 'time': '2023-11-27T11:03:05.967791Z', 'tmms': 1385118204967, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -13.0, 'foff': -3187, 'rssi': -113, 'size': 20, 'data': 'QAAAAACAzAcCQu0unYlC4n5NeCs='}, {'jver': 1, 'tmst': 4069112887, 'time': '2023-11-27T11:03:05.967798Z', 'tmms': 1385118204967, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.5, 'foff': -3218, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAzAcCQu0unYlC4n5NeCs='}]}
0:35:56.510911	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07cc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7e4d782b)
0:35:56.511911	LOG	Server <---------- DUT
0:35:56.513910	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04a4, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c82c5624)
0:35:56.515912	LOG	Frame command sent to the DUT
0:35:56.516910	LOG	PULL_RESP: Protocol version = 02, Token = 7985, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4070112887, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAApATgcEk/aj8GbWE9I+kZARF0ttAxeqrSyjHvpiBG/h7EpiCGxeMPvIGV7sxKNxdCFYgf3WnTyCxWJA=='}}
0:35:56.518911	LOG	Server ----------> DUT
0:35:56.521911	LOG	Send Test Command TxFramesCtrlReq process completed
0:35:56.525047	LOG	Check previous uplink data rate process starts
0:35:56.529481	LOG	Uplink received with expected Data Rate
0:35:56.533403	LOG	Send Test Command TxFramesCtrlReq process starts
0:36:01.377438	LOG	First uplink received. Open reception window.
0:36:01.485597	LOG	PUSH_ACK: 02 d712 01
0:36:01.487566	LOG	GPS Time from gateway: 1385118209967
0:36:01.488566	LOG	PUSH_DATA: Protocol version = 02, Token = d712, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4074112623, 'time': '2023-11-27T11:03:10.967533Z', 'tmms': 1385118209967, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 8.2, 'foff': -3216, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAzQcCGP+rLbB3lhTFhrg='}]}
0:36:01.490566	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07cd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 14c586b8)
0:36:01.491565	LOG	Server <---------- DUT
0:36:01.493570	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04a5, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: b1e14cae)

0:36:01.495570	LOG	Frame command sent to the DUT
0:36:01.496570	LOG	PULL_RESP: Protocol version = 02, Token = 5455, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4075112623, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAApQTgHQWZDo5I4E29aTdlKyEq1/kX6pPaKife79wvTKKfoV+WpdSKz+B0yBFcT4vz2m/LkpDwseFMrg==''}}
0:36:01.497570	LOG	Server ----------> DUT
0:36:01.500572	LOG	Send Test Command TxFramesCtrlReq process completed
0:36:01.503570	LOG	Check previous uplink data rate process starts
0:36:01.508731	LOG	Uplink received with expected Data Rate
0:36:01.511731	LOG	Send Test Command TxFramesCtrlReq process starts
0:36:06.532133	LOG	GPS Time updated: 1385118215122
0:36:06.533223	LOG	PULL_DATA: 02 1564 02 0016c001ff1025bf
0:36:06.535090	LOG	PULL_ACK: 02 1564 04
0:36:11.380278	LOG	Multiple frames received. Selecting the correct frame...
0:36:11.382785	LOG	Frame selected: {'jver': 1, 'tmst': 4084112111, 'time': '2023-11-27T11:03:20.967020Z', 'tmms': 1385118219967, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 10.8, 'foff': -3215, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAzgcCk+F8OsokJ44PWOs='}
0:36:11.384787	LOG	First uplink received. Open reception window.
0:36:11.496597	LOG	PUSH_ACK: 02 a62a 01
0:36:11.498612	LOG	GPS Time from gateway: 1385118219967
0:36:11.499612	LOG	PUSH_DATA: Protocol version = 02, Token = a62a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4084112111, 'time': '2023-11-27T11:03:20.967020Z', 'tmms': 1385118219967, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 10.8, 'foff': -3215, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAzgcCk+F8OsokJ44PWOs='}, {'jver': 1, 'tmst': 4084112112, 'time': '2023-11-27T11:03:20.967021Z', 'tmms': 1385118219967, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -126, 'lsnr': -13.5, 'foff': -3215, 'rssi': -114, 'size': 20, 'data': 'QAAAAACAzgcCk+F8OsokJ44PWOs='}]}
0:36:11.501612	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07ce, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8e0f58eb)
0:36:11.502612	LOG	Server <---------- DUT
0:36:11.504612	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04a6, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: ffc19225)
0:36:11.505612	LOG	Frame command sent to the DUT
0:36:11.507116	LOG	PULL_RESP: Protocol version = 02, Token = f8b5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4085112111, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAApgTg9tQJGXxjOahO7bvNcNnXpFwYFzCejO67isiGYCKih1D9fj2IeziCZ0wjxSotd7Z+2McI/8GSJQ==''}}
0:36:11.509121	LOG	Server ----------> DUT
0:36:11.512122	LOG	Send Test Command TxFramesCtrlReq process completed
0:36:11.515154	LOG	Check previous uplink data rate process starts
0:36:11.519121	LOG	Uplink received with expected Data Rate
0:36:11.522122	LOG	Send Test Command TxFramesCtrlReq process starts
0:36:16.542178	LOG	GPS Time updated: 1385118225126
0:36:16.543413	LOG	PULL_DATA: 02 ea6d 02 0016c001ff1025bf
0:36:16.545035	LOG	PULL_ACK: 02 ea6d 04
0:36:21.377252	LOG	First uplink received. Open reception window.

0:36:21.486442	LOG	PUSH_ACK: 02 ad36 01
0:36:21.488410	LOG	GPS Time from gateway: 1385118229966
0:36:21.490411	LOG	PUSH_DATA: Protocol version = 02, Token = ad36, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4094111611, 'time': '2023-11-27T11:03:30.966518Z', 'tmms': 1385118229966, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 9.5, 'foff': -3218, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAzwcC14ZJGC1CYyJD4JM='}]}
0:36:21.491409	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07cf, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2243e093)
0:36:21.493415	LOG	Server <---------- DUT
0:36:21.495415	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04a7, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: e1caedc2)
0:36:21.497415	LOG	Frame command sent to the DUT
0:36:21.498414	LOG	PULL_RESP: Protocol version = 02, Token = cc42, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4095111611, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAApwTgBQWKGbRFmslAYK2fdScH7HhwUFrDDgbMM9Q1ye3A2GOHUyyH35x+UcWP8vKT/QcYKn/o4crtwg==''}}
0:36:21.499414	LOG	Server ----------> DUT
0:36:21.503415	LOG	Send Test Command TxFramesCtrlReq process completed
0:36:21.506448	LOG	Check previous uplink data rate process starts
0:36:21.513515	LOG	Uplink received with expected Data Rate
0:36:21.517516	LOG	Send Test Command TxFramesCtrlReq process starts
0:36:26.751715	LOG	GPS Time updated: 1385118235340
0:36:26.752680	LOG	PULL_DATA: 02 d8a5 02 0016c001ff1025bf
0:36:26.754681	LOG	PULL_ACK: 02 d8a5 04
0:36:31.375164	LOG	First uplink received. Open reception window.
0:36:31.486075	LOG	PUSH_ACK: 02 41ad 01
0:36:31.488044	LOG	GPS Time from gateway: 1385118239966
0:36:31.489043	LOG	PUSH_DATA: Protocol version = 02, Token = 41ad, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4104111083, 'time': '2023-11-27T11:03:40.965989Z', 'tmms': 1385118239966, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 8.5, 'foff': -3221, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA0AcCmE1+zXdMBebwbas='}]}
0:36:31.491044	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07d0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e6f06dab)
0:36:31.492048	LOG	Server <---------- DUT
0:36:31.494049	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04a8, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 071f8a6e)
0:36:31.496049	LOG	Frame command sent to the DUT
0:36:31.497048	LOG	PULL_RESP: Protocol version = 02, Token = 6cad, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4105111083, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAqATgFFd2+TY8QpH7S051kVaXJS2NGHB4YZtIKBfNkckMI3iOBCdnKGYv5nxmGUVuFUSHBQC4Bx+Kbg==''}}
0:36:31.498048	LOG	Server ----------> DUT
0:36:31.501049	LOG	Send Test Command TxFramesCtrlReq process completed
0:36:31.504050	LOG	Check previous uplink data rate process starts
0:36:31.508558	LOG	Uplink received with expected Data Rate
0:36:31.511557	LOG	Send Test Command TxFramesCtrlReq process starts

0:36:36.961090	LOG	GPS Time updated: 1385118245552
0:36:36.963090	LOG	PULL_DATA: 02 d005 02 0016c001ff1025bf
0:36:36.965091	LOG	PULL_ACK: 02 d005 04
0:36:41.377668	LOG	First uplink received. Open reception window.
0:36:41.492135	LOG	PUSH_ACK: 02 3b51 01
0:36:41.494140	LOG	GPS Time from gateway: 1385118249965
0:36:41.496141	LOG	PUSH_DATA: Protocol version = 02, Token = 3b51, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4114110578, 'time': '2023-11-27T11:03:50.965482Z', 'tmms': 1385118249965, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 12.0, 'foff': -3222, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA0QcCwaH77/wKzIhhzz8='}]}
0:36:41.497140	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07d1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8861cf3f)
0:36:41.499141	LOG	Server <---------- DUT
0:36:41.501142	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04a9, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: eeaae604)
0:36:41.502181	LOG	Frame command sent to the DUT
0:36:41.504192	LOG	PULL_RESP: Protocol version = 02, Token = b6f0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4115110578, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAqQTgSKd40vuidw/PnRvo86e6LgLtXL3BxJEWRIDPioKtSPNlKfj3Fr6kpbCNDNvctv5TVm0j7qrmBA==''}}
0:36:41.505173	LOG	Server ----------> DUT
0:36:41.508721	LOG	Send Test Command TxFramesCtrlReq process completed
0:36:41.511747	LOG	Check previous uplink data rate process starts
0:36:41.516716	LOG	Uplink received with expected Data Rate
0:36:41.519749	LOG	Send Test Command TxFramesCtrlReq process starts
0:36:47.171257	LOG	GPS Time updated: 1385118255759
0:36:47.173257	LOG	PULL_DATA: 02 ae5c 02 0016c001ff1025bf
0:36:47.174258	LOG	PULL_ACK: 02 ae5c 04
0:36:51.377799	LOG	First uplink received. Open reception window.
0:36:51.478554	LOG	PUSH_ACK: 02 0b59 01
0:36:51.480555	LOG	GPS Time from gateway: 1385118259964
0:36:51.481555	LOG	PUSH_DATA: Protocol version = 02, Token = 0b59, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4124110061, 'time': '2023-11-27T11:04:00.964964Z', 'tmms': 1385118259964, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 9.5, 'foff': -3225, 'rssi': -52, 'size': 20, 'data': 'QAAAAACA0gcCIWDVtpukV6xi4WI='}]}
0:36:51.483585	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07d2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ac62e162)
0:36:51.484591	LOG	Server <---------- DUT
0:36:51.486602	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04aa, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 31e8b9da)
0:36:51.487590	LOG	Frame command sent to the DUT
0:36:51.489621	LOG	PULL_RESP: Protocol version = 02, Token = 1fd7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4125110061, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAqgTg1Kz9BK6A0NUrzTjG4O2DBqfhb2gpvkxFjxWFCejCKQbRuXQcAFnM690A9Anx6SdOeagyMei52g==''}}
0:36:51.490627	LOG	Server ----------> DUT

0:36:51.493596	LOG	Send Test Command TxFramesCtrlReq process completed
0:36:51.496596	LOG	Check previous uplink data rate process starts
0:36:51.500617	LOG	Uplink received with expected Data Rate
0:36:51.504174	LOG	Send Test Command TxFramesCtrlReq process starts
0:36:57.371712	LOG	GPS Time updated: 1385118265959
0:36:57.372711	LOG	PULL_DATA: 02 eb20 02 0016c001ff1025bf
0:36:57.374713	LOG	PULL_ACK: 02 eb20 04
0:37:01.382017	LOG	Multiple frames received. Selecting the correct frame...
0:37:01.384027	LOG	Frame selected: {'jver': 1, 'tmst': 4134109549, 'time': '2023-11-27T11:04:10.964449Z', 'tmms': 1385118269964, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.8, 'foff': -3223, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA0wcC9biWTzUDIFmDd+Q='}
0:37:01.386026	LOG	First uplink received. Open reception window.
0:37:01.491941	LOG	PUSH_ACK: 02 4a8a 01
0:37:01.493943	LOG	GPS Time from gateway: 1385118269964
0:37:01.494943	LOG	PUSH_DATA: Protocol version = 02, Token = 4a8a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4134109549, 'time': '2023-11-27T11:04:10.964449Z', 'tmms': 1385118269964, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.8, 'foff': -3223, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA0wcC9biWTzUDIFmDd+Q='}, {'jver': 1, 'tmst': 4134109549, 'time': '2023-11-27T11:04:10.964449Z', 'tmms': 1385118269964, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -127, 'lsnr': -13.8, 'foff': -3223, 'rssi': -114, 'size': 20, 'data': 'QAAAAACA0wcC9biWTzUDIFmDd+Q='}]}
0:37:01.496943	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07d3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 598377e4)
0:37:01.498944	LOG	Server <---------- DUT
0:37:01.500944	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04ab, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: e45e2343)
0:37:01.502947	LOG	Frame command sent to the DUT
0:37:01.504944	LOG	PULL_RESP: Protocol version = 02, Token = 4bf8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4135109549, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAqwTgxQqQaSJRQV1pZntoIdlaTRNdnK5hHofzjUMua9XdHSTTe0a0KKUWerJhrvIw3ecwjo0F5F4jQw==')}
0:37:01.506451	LOG	Server ----------> DUT
0:37:01.510458	LOG	Send Test Command TxFramesCtrlReq process completed
0:37:01.513981	LOG	Check previous uplink data rate process starts
0:37:01.518969	LOG	Uplink received with expected Data Rate
0:37:01.522967	LOG	Send Test Command TxFramesCtrlReq process starts
0:37:07.381583	LOG	GPS Time updated: 1385118275959
0:37:07.383092	LOG	PULL_DATA: 02 f70b 02 0016c001ff1025bf
0:37:07.385093	LOG	PULL_ACK: 02 f70b 04
0:37:11.378350	LOG	First uplink received. Open reception window.
0:37:11.481706	LOG	PUSH_ACK: 02 6b9f 01
0:37:11.483674	LOG	GPS Time from gateway: 1385118279963
0:37:11.484673	LOG	PUSH_DATA: Protocol version = 02, Token = 6b9f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4144109035, 'time': '2023-11-27T11:04:20.963935Z', 'tmms': 1385118279963, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.0, 'foff': -3222, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA1AcCWv1uzQWnymO7CJs='}]}

0:37:11.486675	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07d4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 63bb089b)
0:37:11.487674	LOG	Server <---------- DUT
0:37:11.489673	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04ac, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 206d2977)
0:37:11.490673	LOG	Frame command sent to the DUT
0:37:11.492678	LOG	PULL_RESP: Protocol version = 02, Token = 428a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4145109035, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAArATg0LWqwAW/5P2vgW3MTy362XdzfscAYEIFLFneD0b/s4aEM3K0Kg9uW8B+4TSDchfyAmqJIG0pdw=='}}
0:37:11.493677	LOG	Server ----------> DUT
0:37:11.496677	LOG	Send Test Command TxFramesCtrlReq process completed
0:37:11.499676	LOG	Check previous uplink data rate process starts
0:37:11.503676	LOG	Uplink received with expected Data Rate
0:37:11.507180	LOG	Send Test Command TxFramesCtrlReq process starts
0:37:17.581365	LOG	GPS Time updated: 1385118286166
0:37:17.582364	LOG	PULL_DATA: 02 4591 02 0016c001ff1025bf
0:37:17.584401	LOG	PULL_ACK: 02 4591 04
0:37:21.377601	LOG	Multiple frames received. Selecting the correct frame...
0:37:21.378600	LOG	Frame selected: {'jver': 1, 'tmst': 4154108527, 'time': '2023-11-27T11:04:30.963424Z', 'tmms': 1385118289963, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.8, 'foff': -3224, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA1QcCQVg5v/iQKwf+BpQ='}
0:37:21.380602	LOG	First uplink received. Open reception window.
0:37:21.481434	LOG	PUSH_ACK: 02 b186 01
0:37:21.483474	LOG	GPS Time from gateway: 1385118289963
0:37:21.484441	LOG	PUSH_DATA: Protocol version = 02, Token = b186, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4154108519, 'time': '2023-11-27T11:04:30.963416Z', 'tmms': 1385118289963, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -126, 'lsnr': -13.2, 'foff': -3192, 'rssi': -114, 'size': 20, 'data': 'QAAAAACA1QcCQVg5v/iQKwf+BpQ='}, {'jver': 1, 'tmst': 4154108527, 'time': '2023-11-27T11:04:30.963424Z', 'tmms': 1385118289963, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.8, 'foff': -3224, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA1QcCQVg5v/iQKwf+BpQ='}]}
0:37:21.486441	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07d5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 07fe0694)
0:37:21.487473	LOG	Server <---------- DUT
0:37:21.489441	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04ad, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: a7b47965)
0:37:21.490476	LOG	Frame command sent to the DUT
0:37:21.492478	LOG	PULL_RESP: Protocol version = 02, Token = 56f7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4155108527, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAArQTgAAq0632rCrFaWXF7gqzMujXCXim3yeb1+cACIX6hW6yioDyxmiN2dYUT60TTxBcuvuW5p7R5ZQ=='}}
0:37:21.493511	LOG	Server ----------> DUT
0:37:21.496477	LOG	Send Test Command TxFramesCtrlReq process completed
0:37:21.499482	LOG	Check previous uplink data rate process starts

0:37:21.504481	LOG	Uplink received with expected Data Rate
0:37:21.507992	LOG	Send Test Command TxFramesCtrlReq process starts
0:37:27.791074	LOG	GPS Time updated: 1385118296374
0:37:27.793043	LOG	PULL_DATA: 02 960e 02 0016c001ff1025bf
0:37:27.794043	LOG	PULL_ACK: 02 960e 04
0:37:31.373571	LOG	Multiple frames received. Selecting the correct frame...
0:37:31.374571	LOG	Frame selected: {'jver': 1, 'tmst': 4164108010, 'time': '2023-11-27T11:04:40.962907Z', 'tmms': 1385118299962, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.8, 'foff': -3224, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA1gcC3gC4wQ6h+M3SWq4='}
0:37:31.376573	LOG	First uplink received. Open reception window.
0:37:31.488004	LOG	PUSH_ACK: 02 5f3c 01
0:37:31.490054	LOG	GPS Time from gateway: 1385118299962
0:37:31.491023	LOG	PUSH_DATA: Protocol version = 02, Token = 5f3c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4164108010, 'time': '2023-11-27T11:04:40.962907Z', 'tmms': 1385118299962, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.8, 'foff': -3224, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA1gcC3gC4wQ6h+M3SWq4='}, {'jver': 1, 'tmst': 4164108011, 'time': '2023-11-27T11:04:40.962908Z', 'tmms': 1385118299962, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.0, 'foff': -3224, 'rssi': -114, 'size': 20, 'data': 'QAAAAACA1gcC3gC4wQ6h+M3SWq4='}]}
0:37:31.493061	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07d6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: cdd25aae)
0:37:31.494060	LOG	Server <---------- DUT
0:37:31.496029	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04ae, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 0e5ad1c3)
0:37:31.497060	LOG	Frame command sent to the DUT
0:37:31.499061	LOG	PULL_RESP: Protocol version = 02, Token = 3d2b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4165108010, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAArgTgKoa/k6sZWmcTYI5uUqmrUrDLv9wLJoW3/m0/Zuri0iIu1F/UXb3RQQ5Fzp4uVnNMOG9YDlrRww==''}}
0:37:31.500063	LOG	Server ----------> DUT
0:37:31.503030	LOG	Send Test Command TxFramesCtrlReq process completed
0:37:31.505028	LOG	Check previous uplink data rate process starts
0:37:31.511540	LOG	Uplink received with expected Data Rate
0:37:31.515537	LOG	Send Test Command TxFramesCtrlReq process starts
0:37:37.801314	LOG	GPS Time updated: 1385118306387
0:37:37.802315	LOG	PULL_DATA: 02 ca0d 02 0016c001ff1025bf
0:37:37.804316	LOG	PULL_ACK: 02 ca0d 04
0:37:41.375941	LOG	First uplink received. Open reception window.
0:37:41.476691	LOG	PUSH_ACK: 02 98d5 01
0:37:41.478686	LOG	GPS Time from gateway: 1385118309962
0:37:41.479654	LOG	PUSH_DATA: Protocol version = 02, Token = 98d5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4174107494, 'time': '2023-11-27T11:04:50.962388Z', 'tmms': 1385118309962, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 9.2, 'foff': -3223, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA1wcCy66ZzCePnxRzHQA='}]}
0:37:41.481653	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07d7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 14731d00)
0:37:41.482654	LOG	Server <---------- DUT

0:37:41.484653	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04af, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c9ddbb19)
0:37:41.486655	LOG	Frame command sent to the DUT
0:37:41.487686	LOG	PULL_RESP: Protocol version = 02, Token = 91ba, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4175107494, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAArwTgQrT+CLF5gxcSV6tQ4P2EvZqMhiRy4lixmrOQQtNNT3jHSMv9OXQvq/foI0Z+NYc/CZczyd27GQ==\'}}
0:37:41.488688	LOG	Server ----------> DUT
0:37:41.491653	LOG	Send Test Command TxFramesCtrlReq process completed
0:37:41.494701	LOG	Check previous uplink data rate process starts
0:37:41.499659	LOG	Uplink received with expected Data Rate
0:37:41.502658	LOG	Send Test Command TxFramesCtrlReq process starts
0:37:48.010880	LOG	GPS Time updated: 1385118316598
0:37:48.012859	LOG	PULL_DATA: 02 f624 02 0016c001ff1025bf
0:37:48.013844	LOG	PULL_ACK: 02 f624 04
0:37:51.376485	LOG	First uplink received. Open reception window.
0:37:51.481365	LOG	PUSH_ACK: 02 1540 01
0:37:51.483333	LOG	GPS Time from gateway: 1385118319961
0:37:51.484333	LOG	PUSH_DATA: Protocol version = 02, Token = 1540, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4184106985, 'time': '2023-11-27T11:05:00.961879Z', 'tmms': 1385118319961, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.2, 'foff': -3226, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA2AcCZjQ7oEhLtMFpF+g=\'}]}
0:37:51.486333	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07d8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c16917e8)
0:37:51.487332	LOG	Server <---------- DUT
0:37:51.489332	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04b0, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: d1553ec8)
0:37:51.490332	LOG	Frame command sent to the DUT
0:37:51.492327	LOG	PULL_RESP: Protocol version = 02, Token = 3dfb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4185106985, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAsATgGdr2zNjZoHPypreTDkk2uj3CPePVMKQzhzzEop2fT+vN6tuqjaKGjDh89q+e+2D1wIoy0VU+yA==\'}}
0:37:51.493332	LOG	Server ----------> DUT
0:37:51.496332	LOG	Send Test Command TxFramesCtrlReq process completed
0:37:51.499334	LOG	Check previous uplink data rate process starts
0:37:51.503332	LOG	Uplink received with expected Data Rate
0:37:51.506839	LOG	Send Test Command TxFramesCtrlReq process starts
0:37:58.211417	LOG	#**********CURRENT BEACON SENT**********#
0:37:58.212441	LOG	PULL_RESP: Protocol version = 02, Token = 44b9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385118336000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAOo9STa4AAAAAAAAAAA=\'}}
0:37:58.214410	LOG	Server ----------> DUT
0:37:58.216424	LOG	#**********#

0:37:58.225446	LOG	#**********NEXT BEACON QUEUED**********#
0:37:58.227019	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385118464000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAO49SRUQAAAAAAAAAAA='}}
0:37:58.228021	LOG	Server ----------> DUT
0:37:58.229024	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 003b8f52, CRC1: 4544, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385118464000
0:37:58.230021	LOG	#**********#
0:37:58.232021	LOG	Next BEACON scheduled at GPS time (ms): 1385118592000
0:37:58.232990	LOG	GPS Time updated: 1385118326817
0:37:58.235035	LOG	PULL_DATA: 02 75a6 02 0016c001ff1025bf
0:37:58.236024	LOG	PULL_ACK: 02 75a6 04
0:37:58.237990	LOG	TX_ACK: 02 44b9 05 0016c001ff1025bf
0:38:01.376397	LOG	First uplink received. Open reception window.
0:38:01.491844	LOG	PUSH_ACK: 02 4512 01
0:38:01.493849	LOG	GPS Time from gateway: 1385118329961
0:38:01.494851	LOG	PUSH_DATA: Protocol version = 02, Token = 4512, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4194106470, 'time': '2023-11-27T11:05:10.961361Z', 'tmms': 1385118329961, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.0, 'foff': -3223, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA2QcCXpJjFYr3bo3qdH8='}]}
0:38:01.496850	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07d9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8dea747f)
0:38:01.497849	LOG	Server <---------- DUT
0:38:01.499848	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04b1, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 117c78ff)
0:38:01.500848	LOG	Frame command sent to the DUT
0:38:01.502882	LOG	PULL_RESP: Protocol version = 02, Token = 35af, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4195106470, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAsQTgWF237/jaRY65nx2ovt79Rp2qFRKspMSbizdTtMGbcS4/jSA9LBGr2SUIZb0BqKXGq/UFEXx4/w==')}
0:38:01.503881	LOG	Server ----------> DUT
0:38:01.506850	LOG	Send Test Command TxFramesCtrlReq process completed
0:38:01.509321	LOG	Check previous uplink data rate process starts
0:38:01.514318	LOG	Uplink received with expected Data Rate
0:38:01.517288	LOG	Send Test Command TxFramesCtrlReq process starts
0:38:08.221354	LOG	GPS Time updated: 1385118336805
0:38:08.222353	LOG	PULL_DATA: 02 a4d6 02 0016c001ff1025bf
0:38:08.223354	LOG	PULL_ACK: 02 a4d6 04
0:38:11.377634	LOG	First uplink received. Open reception window.
0:38:11.485606	LOG	PUSH_ACK: 02 11e2 01
0:38:11.487576	LOG	GPS Time from gateway: 1385118339960
0:38:11.489577	LOG	PUSH_DATA: Protocol version = 02, Token = 11e2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4204105960, 'time': '2023-11-27T11:05:20.960851Z', 'tmms': 1385118339960, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.8, 'foff': -3220, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA2gcCXuj4FypuQo8VZUs='}]}

0:38:11.491576	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07da, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8f15654b)
0:38:11.492580	LOG	Server <---------- DUT
0:38:11.494581	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04b2, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 75600be4)
0:38:11.496581	LOG	Frame command sent to the DUT
0:38:11.497580	LOG	PULL_RESP: Protocol version = 02, Token = e248, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4205105960, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAsgTgcs5XZVZmS4DtEBoODEvB8ALSQrSjbdmg7uxO6auP3pEuP/q8QKimJdPeemLeSzbAZ7osdWAL5A==''}}
0:38:11.499581	LOG	Server ----------> DUT
0:38:11.502581	LOG	Send Test Command TxFramesCtrlReq process completed
0:38:11.505583	LOG	Check previous uplink data rate process starts
0:38:11.510093	LOG	Uplink received with expected Data Rate
0:38:11.514093	LOG	Send Test Command TxFramesCtrlReq process starts
0:38:18.430719	LOG	GPS Time updated: 1385118347014
0:38:18.432719	LOG	PULL_DATA: 02 f140 02 0016c001ff1025bf
0:38:18.433720	LOG	PULL_ACK: 02 f140 04
0:38:21.375647	LOG	Multiple frames received. Selecting the correct frame...
0:38:21.376648	LOG	Frame selected: {'jver': 1, 'tmst': 4214105447, 'time': '2023-11-27T11:05:30.960335Z', 'tmms': 1385118349960, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 8.8, 'foff': -3224, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA2wcCyA4ZAFkirrz9Li8='}
0:38:21.378619	LOG	First uplink received. Open reception window.
0:38:21.486668	LOG	PUSH_ACK: 02 7850 01
0:38:21.488634	LOG	GPS Time from gateway: 1385118349960
0:38:21.489633	LOG	PUSH_DATA: Protocol version = 02, Token = 7850, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4214105447, 'time': '2023-11-27T11:05:30.960335Z', 'tmms': 1385118349960, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 8.8, 'foff': -3224, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA2wcCyA4ZAFkirrz9Li8='}, {'jver': 1, 'tmst': 4214105450, 'time': '2023-11-27T11:05:30.960338Z', 'tmms': 1385118349960, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.0, 'foff': -3223, 'rssi': -114, 'size': 20, 'data': 'QAAAAACA2wcCyA4ZAFkirrz9Li8='}]}
0:38:21.491633	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07db, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: bcfd2e2f)
0:38:21.493176	LOG	Server <---------- DUT
0:38:21.494214	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04b3, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 9444b522)
0:38:21.496214	LOG	Frame command sent to the DUT
0:38:21.497217	LOG	PULL_RESP: Protocol version = 02, Token = 2d45, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4215105447, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAswTgD1nqPxi6eWqc8zdQeH8IkQlxqTX+87Qq6NowcZe8nuZSC8+eyQC7VqMedJk7gaEWqyROlES1Ig==''}}
0:38:21.499214	LOG	Server ----------> DUT
0:38:21.501213	LOG	Send Test Command TxFramesCtrlReq process completed
0:38:21.504214	LOG	Check previous uplink data rate process starts

0:38:21.508790	LOG	Uplink received with expected Data Rate
0:38:21.512788	LOG	Send Test Command TxFramesCtrlReq process starts
0:38:28.640767	LOG	GPS Time updated: 1385118357222
0:38:28.642731	LOG	PULL_DATA: 02 7c43 02 0016c001ff1025bf
0:38:28.643731	LOG	PULL_ACK: 02 7c43 04
0:38:31.368013	LOG	First uplink received. Open reception window.
0:38:31.481550	LOG	PUSH_ACK: 02 18c4 01
0:38:31.483552	LOG	GPS Time from gateway: 1385118359959
0:38:31.484516	LOG	PUSH_DATA: Protocol version = 02, Token = 18c4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4224104935, 'time': '2023-11-27T11:05:40.959823Z', 'tmms': 1385118359959, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 9.0, 'foff': -3227, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA3AcClasxZshM8mubUWM='}]}
0:38:31.486528	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07dc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6b9b5163)
0:38:31.487534	LOG	Server <---------- DUT
0:38:31.489565	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04b4, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 6d4898ae)
0:38:31.490534	LOG	Frame command sent to the DUT
0:38:31.492535	LOG	PULL_RESP: Protocol version = 02, Token = ed61, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4225104935, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAtATgsc7u41CLyM+PISFn76oTUBErDYGx6a/MS6VIEE7ihKEXrsShVEes2t/KiS0csrXdLh7GbUiYrg==''}}
0:38:31.494533	LOG	Server ----------> DUT
0:38:31.497534	LOG	Send Test Command TxFramesCtrlReq process completed
0:38:31.500535	LOG	Check previous uplink data rate process starts
0:38:31.505044	LOG	Uplink received with expected Data Rate
0:38:31.514578	LOG	Step 14-15
0:38:31.518559	LOG	Send Test Command RxAppCntReq process starts
0:38:38.840383	LOG	GPS Time updated: 1385118367431
0:38:38.842350	LOG	PULL_DATA: 02 e8ad 02 0016c001ff1025bf
0:38:38.843350	LOG	PULL_ACK: 02 e8ad 04
0:38:41.370648	LOG	Multiple frames received. Selecting the correct frame...
0:38:41.371677	LOG	Frame selected: {'jver': 1, 'tmst': 4234104426, 'time': '2023-11-27T11:05:50.959311Z', 'tmms': 1385118369959, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.0, 'foff': -3228, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA3QcCx+ZUL9Bh7TIyGaE='}
0:38:41.373646	LOG	First uplink received. Open reception window.
0:38:41.488648	LOG	PUSH_ACK: 02 4f97 01
0:38:41.490653	LOG	GPS Time from gateway: 1385118369959
0:38:41.491652	LOG	PUSH_DATA: Protocol version = 02, Token = 4f97, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4234104427, 'time': '2023-11-27T11:05:50.959312Z', 'tmms': 1385118369959, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -126, 'lsnr': -13.8, 'foff': -3227, 'rssi': -114, 'size': 20, 'data': 'QAAAAACA3QcCx+ZUL9Bh7TIyGaE='}, {'jver': 1, 'tmst': 4234104426, 'time': '2023-11-27T11:05:50.959311Z', 'tmms': 1385118369959, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.0, 'foff': -3228, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA3QcCx+ZUL9Bh7TIyGaE='}]}
0:38:41.492656	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07dd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 323219a1)

0:38:41.494655	LOG	Server <---------- DUT
0:38:41.495657	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04b5, FOpts:), FPort: e0, FRMPayload: 09), MIC: 592d3c37)
0:38:41.497655	LOG	Frame command sent to the DUT
0:38:41.498655	LOG	PULL_RESP: Protocol version = 02, Token = 2525, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4235104426, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAtQTgyVktPDc='}}
0:38:41.499656	LOG	Server ----------> DUT
0:38:41.503661	LOG	TX_ACK: 02 2525 05 0016c001ff1025bf
0:38:44.900376	LOG	Multiple frames received. Selecting the correct frame...
0:38:44.902378	LOG	Frame selected: {'jver': 1, 'tmst': 4237629853, 'time': '2023-11-27T11:05:54.484739Z', 'tmms': 1385118373484, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 8.5, 'foff': -3236, 'rssi': -51, 'size': 16, 'data': 'QAAAAACA3gfgd/I+7xXtZQ=='}
0:38:44.904379	LOG	First uplink received. Open reception window.
0:38:45.019543	LOG	PUSH_ACK: 02 3d9f 01
0:38:45.024623	LOG	GPS Time from gateway: 1385118373484
0:38:45.025645	LOG	PUSH_DATA: Protocol version = 02, Token = 3d9f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4237629844, 'time': '2023-11-27T11:05:54.484730Z', 'tmms': 1385118373484, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -114, 'lsnr': -10.5, 'foff': -28207, 'rssi': -105, 'size': 16, 'data': 'QAAAAACA3gfgd/I+7xXtZQ=='}, {'jver': 1, 'tmst': 4237629853, 'time': '2023-11-27T11:05:54.484739Z', 'tmms': 1385118373484, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 8.5, 'foff': -3236, 'rssi': -51, 'size': 16, 'data': 'QAAAAACA3gfgd/I+7xXtZQ=='}]}
0:38:45.027612	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07de, FOpts:), FPort: e0, FRMPayload: 094603, MIC: ef15ed65)
0:38:45.028644	LOG	Server <---------- DUT
0:38:45.029647	LOG	Frame Command Payload in the Answer: 094603
0:38:45.033612	LOG	RX Count received by DUT: 838
0:38:45.035645	LOG	Send Test Command RxAppCntReq process completed
0:38:45.045123	LOG	End Test Step: Test packet error rate for SF12BW125 using RX1 window
0:38:45.049124	LOG	Partial Verdict: PASS
0:38:45.053123	LOG	==========
0:38:45.058132	LOG	==========
0:38:45.060130	LOG	Start Test Step: Test packet error rate for SF7BW250 using RX1 window
0:38:45.072685	LOG	Step 10-11
0:38:45.076677	LOG	Send RXParamSetupReq process starts
0:38:48.850503	LOG	GPS Time updated: 1385118377430
0:38:48.852508	LOG	PULL_DATA: 02 a582 02 0016c001ff1025bf
0:38:48.853507	LOG	PULL_ACK: 02 a582 04
0:38:51.368637	LOG	First uplink received. Open reception window.
0:38:51.473488	LOG	PUSH_ACK: 02 b1ca 01
0:38:51.475454	LOG	GPS Time from gateway: 1385118379958
0:38:51.477971	LOG	PUSH_DATA: Protocol version = 02, Token = b1ca, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4244103917, 'time': '2023-11-27T11:06:00.958802Z', 'tmms': 1385118379958, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 7.8, 'foff': -3224, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA3wcCgi+RyaM+0T3Oe0Q='}]}
0:38:51.479965	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07df, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3dce7b44)
0:38:51.480964	LOG	Server <---------- DUT
0:38:51.482963	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04b6, FOpts:), FPort: 00, FRMPayload: 0500d2ad84), MIC: 32070df2)

0:38:51.484996	LOG	PULL_RESP: Protocol version = 02, Token = 2a81, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4246103917, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAtgQAgZntpwwyBw3y'}}
0:38:51.485994	LOG	Server ----------> DUT
0:38:51.489963	LOG	TX_ACK: 02 2a81 05 0016c001ff1025bf
0:38:56.532682	LOG	First uplink received. Open reception window.
0:38:56.643027	LOG	PUSH_ACK: 02 0d55 01
0:38:56.645030	LOG	GPS Time from gateway: 1385118385122
0:38:56.647032	LOG	PUSH_DATA: Protocol version = 02, Token = 0d55, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4249267603, 'time': '2023-11-27T11:06:06.122487Z', 'tmms': 1385118385122, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.5, 'foff': -3231, 'rssi': -51, 'size': 22, 'data': 'QAAAAACC4AcFBwJXcR/egCYV8QYDyg=='}]}
0:38:56.649073	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 07e0, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: f10603ca)
0:38:56.650070	LOG	Server <---------- DUT
0:38:56.652072	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:38:56.654073	LOG	Command Answer: 0507
0:38:56.668607	LOG	MAC command communication completed
0:38:56.672584	LOG	Send NewChannelReq process starts
0:38:59.050386	LOG	GPS Time updated: 1385118387640
0:38:59.052353	LOG	PULL_DATA: 02 a01e 02 0016c001ff1025bf
0:38:59.053354	LOG	PULL_ACK: 02 a01e 04
0:39:01.534757	LOG	First uplink received. Open reception window.
0:39:01.648708	LOG	PUSH_ACK: 02 c529 01
0:39:01.650676	LOG	GPS Time from gateway: 1385118390122
0:39:01.651676	LOG	PUSH_DATA: Protocol version = 02, Token = c529, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4254267352, 'time': '2023-11-27T11:06:11.122235Z', 'tmms': 1385118390122, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.0, 'foff': -3216, 'rssi': -51, 'size': 22, 'data': 'QAAAAACC4QcFBwIRMUvaXLnr1pFeAA=='}]}
0:39:01.653713	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 07e1, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: d6915e00)
0:39:01.654711	LOG	Server <---------- DUT
0:39:01.656709	LOG	MAC Command RXParamSetupAns received
0:39:01.657707	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04b7, FOpts:), FPort: , FRMPayload:), MIC: 814528f7)
0:39:01.659676	LOG	PULL_RESP: Protocol version = 02, Token = a153, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4256267352, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 12, 'data': 'YAAAAAAAtwSBRSj3'}}
0:39:01.660713	LOG	Server ----------> DUT
0:39:01.664185	LOG	TX_ACK: 02 a153 05 0016c001ff1025bf
0:39:06.369599	LOG	First uplink received. Open reception window.
0:39:06.473723	LOG	PUSH_ACK: 02 683d 01
0:39:06.475724	LOG	GPS Time from gateway: 1385118394957
0:39:06.476813	LOG	PUSH_DATA: Protocol version = 02, Token = 683d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4259103145, 'time': '2023-11-27T11:06:15.958028Z', 'tmms': 1385118394957, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 8.0, 'foff': -3220, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA4gcCeMWGbB9v1mmWulI='}]}
0:39:06.478814	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07e2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6996ba52)
0:39:06.479846	LOG	Server <---------- DUT

0:39:06.481846	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04b8, FOpts:), FPort: 00, FRMPayload: 070328768466), MIC: 1d0b410e)
0:39:06.483816	LOG	PULL_RESP: Protocol version = 02, Token = 8940, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4261103145, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YAAAAAAAuAQAsqwCSar5HQtBDg=='}}
0:39:06.484814	LOG	Server ----------> DUT
0:39:06.487813	LOG	TX_ACK: 02 8940 05 0016c001ff1025bf
0:39:09.210627	LOG	GPS Time updated: 1385118397799
0:39:09.212633	LOG	PULL_DATA: 02 79e4 02 0016c001ff1025bf
0:39:09.214635	LOG	PULL_ACK: 02 79e4 04
0:39:11.535029	LOG	Multiple frames received. Selecting the correct frame...
0:39:11.536029	LOG	Frame selected: {'jver': 1, 'tmst': 4264266843, 'time': '2023-11-27T11:06:21.121725Z', 'tmms': 1385118400121, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.0, 'foff': -3223, 'rssi': -51, 'size': 22, 'data': 'QAAAAACC4wcHAwJ0yEb228y/zbBOZQ=='}
0:39:11.538571	LOG	First uplink received. Open reception window.
0:39:11.639763	LOG	PUSH_ACK: 02 80d7 01
0:39:11.642046	LOG	GPS Time from gateway: 1385118400121
0:39:11.643085	LOG	PUSH_DATA: Protocol version = 02, Token = 80d7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4264266840, 'time': '2023-11-27T11:06:21.121722Z', 'tmms': 1385118400121, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -127, 'lsnr': -14.5, 'foff': -3222, 'rssi': -114, 'size': 22, 'data': 'QAAAAACC4wcHAwJ0yEb228y/zbBOZQ=='}, {'jver': 1, 'tmst': 4264266843, 'time': '2023-11-27T11:06:21.121725Z', 'tmms': 1385118400121, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.0, 'foff': -3223, 'rssi': -51, 'size': 22, 'data': 'QAAAAACC4wcHAwJ0yEb228y/zbBOZQ=='}]}
0:39:11.645052	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 07e3, FOpts: 0703), FPort: 02, FRMPayload: 00000001020000, MIC: cdb04e65)
0:39:11.646083	LOG	Server <---------- DUT
0:39:11.647083	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:39:11.649121	LOG	Command Answer: 0703
0:39:11.654123	LOG	MAC command communication completed
0:39:11.659089	LOG	Send LinkADRReq process starts
0:39:16.371673	LOG	First uplink received. Open reception window.
0:39:16.476763	LOG	PUSH_ACK: 02 f899 01
0:39:16.478730	LOG	GPS Time from gateway: 1385118404957
0:39:16.479730	LOG	PUSH_DATA: Protocol version = 02, Token = f899, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4269102649, 'time': '2023-11-27T11:06:25.957530Z', 'tmms': 1385118404957, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.5, 'foff': -3211, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA5AcCZ8V9VY71xHc9LPc='}]}
0:39:16.481730	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07e4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 773d2cf7)
0:39:16.482730	LOG	Server <---------- DUT
0:39:16.484730	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04b9, FOpts:), FPort: 00, FRMPayload: 03600f0001), MIC: 8d885328)
0:39:16.486730	LOG	PULL_RESP: Protocol version = 02, Token = 71bd, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4271102649, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAuQQAAfL8AueNiFMo'}}
0:39:16.487729	LOG	Server ----------> DUT
0:39:16.489730	LOG	TX_ACK: 02 71bd 05 0016c001ff1025bf
0:39:19.220642	LOG	GPS Time updated: 1385118407805

0:39:19.221641	LOG	PULL_DATA: 02 9c90 02 0016c001ff1025bf
0:39:19.223642	LOG	PULL_ACK: 02 9c90 04
0:39:20.065134	LOG	First uplink received. Open reception window.
0:39:20.178362	LOG	PUSH_ACK: 02 a784 01
0:39:20.180393	LOG	GPS Time from gateway: 1385118408666
0:39:20.181365	LOG	PUSH_DATA: Protocol version = 02, Token = a784, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4272812120, 'time': '2023-11-27T11:06:29.667000Z', 'tmms': 1385118408666, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3232, 'rssi': -51, 'size': 22, 'data': 'QAAAAACC5QcDBwLo17UDbWFBIGvbgQ==\'}]}
0:39:20.183366	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 07e5, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 206bdb81)
0:39:20.185373	LOG	Server <---------- DUT
0:39:20.186427	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:39:20.188405	LOG	Command Answer: 0307
0:39:20.194372	LOG	MAC command communication completed
0:39:20.198574	LOG	Step 11-12
0:39:20.209574	LOG	Send Test Command RxAppCntReq process starts
0:39:25.066991	LOG	First uplink received. Open reception window.
0:39:25.180829	LOG	PUSH_ACK: 02 3df6 01
0:39:25.182830	LOG	GPS Time from gateway: 1385118413666
0:39:25.183830	LOG	PUSH_DATA: Protocol version = 02, Token = 3df6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4277811758, 'time': '2023-11-27T11:06:34.666638Z', 'tmms': 1385118413666, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.8, 'foff': -3217, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA5gcC10YDTZ0nwJ74gAI=\'}]}
0:39:25.185831	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07e6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9ef88002)
0:39:25.186869	LOG	Server <---------- DUT
0:39:25.188835	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04ba, FOpts:), FPort: e0, FRMPayload: 09), MIC: 219f1fc6)
0:39:25.189834	LOG	Frame command sent to the DUT
0:39:25.191834	LOG	PULL_RESP: Protocol version = 02, Token = 2f1e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4278811758, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAugTghCGfH8Y='}}
0:39:25.192837	LOG	Server ----------> DUT
0:39:25.195346	LOG	TX_ACK: 02 2f1e 05 0016c001ff1025bf
0:39:26.134877	LOG	First uplink received. Open reception window.
0:39:26.249887	LOG	PUSH_ACK: 02 1b5d 01
0:39:26.251856	LOG	GPS Time from gateway: 1385118414734
0:39:26.252855	LOG	PUSH_DATA: Protocol version = 02, Token = 1b5d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4278879394, 'time': '2023-11-27T11:06:35.734272Z', 'tmms': 1385118414734, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3217, 'rssi': -51, 'size': 16, 'data': 'QAAAAACA5wfgVfBUy/RJag==\'}]}
0:39:26.254393	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07e7, FOpts:), FPort: e0, FRMPayload: 094703, MIC: cbf4496a)
0:39:26.255431	LOG	Server <---------- DUT
0:39:26.256971	LOG	Frame Command Payload in the Answer: 094703
0:39:26.261010	LOG	RX Count received by DUT: 839
0:39:26.264014	LOG	Send Test Command RxAppCntReq process completed
0:39:26.268016	LOG	Step 13
0:39:26.271007	LOG	Send Test Command TxFramesCtrlReq process starts
0:39:29.390178	LOG	GPS Time updated: 1385118417990

0:39:29.391179	LOG	PULL_DATA: 02 bb58 02 0016c001ff1025bf
0:39:29.393179	LOG	PULL_ACK: 02 bb58 04
0:39:30.157241	LOG	First uplink received. Open reception window.
0:39:30.265771	LOG	PUSH_ACK: 02 dbae 01
0:39:30.267770	LOG	GPS Time from gateway: 1385118418764
0:39:30.268770	LOG	PUSH_DATA: Protocol version = 02, Token = dbae, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4282909467, 'time': '2023-11-27T11:06:39.764346Z', 'tmms': 1385118418764, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3232, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA6AcCy7EJxoPU8q86RAY='}]}
0:39:30.270739	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07e8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: af3a4406)
0:39:30.271737	LOG	Server <-------------------- DUT
0:39:30.273756	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04bb, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: d7c63076)
0:39:30.275778	LOG	Frame command sent to the DUT
0:39:30.276783	LOG	PULL_RESP: Protocol version = 02, Token = 6577, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4283909467, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAuwTg8Y+APsmXZd4MUyHxCQZfd6puVy6zl3MZblg2WXDlf0s8 M7VP6GWhY56wWemHDQq/QbjqBpj3jV/FkErl7oPpNuVxJe1BX4R3aUghqR/Sr g9mMkq7QFhwG7E0OcVljc9qA/x0pO/Py1XWvY5pfIz0CkkLKnn5HyR5pjy7bzE JSbgiohQgZQB1neh8AEGOE7DMyrHXuPvf+Zcx6bGnrIYknm07wnxSE+oc9Mda 5xNo1AZ0RtUpO2gprn3KwFptwUCBN8JlHjZatn8zCLCiScdITErm4SKIXb5Xzsg OkLAq5G8ESrgupT04Vy0P/9SPHZ2OGP3XxjB2'}}
0:39:30.277775	LOG	Server --------------------> DUT
0:39:30.280775	LOG	Send Test Command TxFramesCtrlReq process completed
0:39:30.283776	LOG	Check previous uplink data rate process starts
0:39:30.288250	LOG	Uplink received with expected Data Rate
0:39:30.292259	LOG	Send Test Command TxFramesCtrlReq process starts
0:39:35.066454	LOG	First uplink received. Open reception window.
0:39:35.169636	LOG	PUSH_ACK: 02 2ae8 01
0:39:35.171636	LOG	GPS Time from gateway: 1385118423666
0:39:35.172636	LOG	PUSH_DATA: Protocol version = 02, Token = 2ae8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4287811250, 'time': '2023-11-27T11:06:44.666128Z', 'tmms': 1385118423666, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3232, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA6QcCrAMum21FMpWtGfY='}]}
0:39:35.174638	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07e9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 95ad19f6)
0:39:35.176638	LOG	Server <-------------------- DUT
0:39:35.178636	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04bc, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010

		1010101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 03e529c4)
0:39:35.179640	LOG	Frame command sent to the DUT
0:39:35.181641	LOG	PULL_RESP: Protocol version = 02, Token = 5ae0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4288811250, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAvATgXm1PEvYTccRiDi9yEgxHvPceQd0btG+sWCPn2ddLgXiwIxmBRSxurO1Z7XdmrhM8lAscvEHXdUUXpmFV4siobAac2y1eOUim+4MS1sRHwdZuEnLCkDAZE46pREbmt9eL8lVOSHDoYqGXmXQ+a9mcDSvnLM5Gaf2GW39WpyjddKz9FnoSI+JIdj9m9wynHhxjI2DbLKL39f1SSVXxE5LgSRPvQscJ8HiJwCy3epoGo0MvCqAfw8qEjaAAWQyWKUWXBl74/gZOzn6zP8gDvphWJbtskIxYXCExL2aU+V3+0fsvDR3NE3GfNdugVJIumQytjicD5SnE'}}
0:39:35.182640	LOG	Server --------------------> DUT
0:39:35.185651	LOG	Send Test Command TxFramesCtrlReq process completed
0:39:35.188642	LOG	Check previous uplink data rate process starts
0:39:35.193643	LOG	Uplink received with expected Data Rate
0:39:35.197157	LOG	Send Test Command TxFramesCtrlReq process starts
0:39:39.590247	LOG	GPS Time updated: 1385118428190
0:39:39.591280	LOG	PULL_DATA: 02 03ca 02 0016c001ff1025bf
0:39:39.593248	LOG	PULL_ACK: 02 03ca 04
0:39:40.060535	LOG	First uplink received. Open reception window.
0:39:40.175849	LOG	PUSH_ACK: 02 063b 01
0:39:40.177817	LOG	GPS Time from gateway: 1385118428665
0:39:40.178817	LOG	PUSH_DATA: Protocol version = 02, Token = 063b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4292810988, 'time': '2023-11-27T11:06:49.665865Z', 'tmms': 1385118428665, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3217, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA6gcCTrO6kVKVOuR+eqU='}]}
0:39:40.180823	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07ea, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e47e7aa5)
0:39:40.181827	LOG	Server <-------------------- DUT
0:39:40.183837	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04bd, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 3dbf95cc)
0:39:40.185827	LOG	Frame command sent to the DUT
0:39:40.186827	LOG	PULL_RESP: Protocol version = 02, Token = f4cb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4293810988, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAvQTgxCA5dZArOLSkk7Wd4lw8Pu5bDVEJC9/S41CYXgoDdOBDahNqRjkWL9f4Dqk3K6SV5rJSptOI02Bb6rFLbel66ieJ06HDTRFkvR/k9un9fy0mJf5OQGjSyHlHu9sIG5qAP64/4n/ifQ4snMUu4yKwjHomOOS3jDJaJaQ3Pnqp4BnbqgDY7MrwDaEw070DZbHDMz7l6dC+1GBoHckwSsqAtQ5oCaCgPgS4ohkcXG59sx8XKDkVdKutzRJk2uVkptTr45u3Qo6uKFNYMcAIfr+4VddKOanup7YaiDRygmRdOzGz/QuY4e+cL9K+R6pHuan06D09v5XM'}}
0:39:40.187827	LOG	Server --------------------> DUT
0:39:40.190829	LOG	Send Test Command TxFramesCtrlReq process completed
0:39:40.192827	LOG	Check previous uplink data rate process starts

0:39:40.198368	LOG	Uplink received with expected Data Rate
0:39:40.201372	LOG	Send Test Command TxFramesCtrlReq process starts
0:39:45.063360	LOG	First uplink received. Open reception window.
0:39:45.169246	LOG	PUSH_ACK: 02 f3cb 01
0:39:45.171214	LOG	GPS Time from gateway: 1385118433665
0:39:45.172241	LOG	PUSH_DATA: Protocol version = 02, Token = f3cb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2843423, 'time': '2023-11-27T11:06:54.665594Z', 'tmms': 1385118433665, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.8, 'foff': -3232, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA6wcCwqs9KEY2WX+Nmn4='}]}
0:39:45.174250	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07eb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7f8d9a7e)
0:39:45.175246	LOG	Server <-------------------- DUT
0:39:45.177723	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04be, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 8685f575)
0:39:45.178723	LOG	Frame command sent to the DUT
0:39:45.179759	LOG	PULL_RESP: Protocol version = 02, Token = dc14, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3843423, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAvgTg7HXofvpdF2ckZTEpbcmbqjQUzLw2t6Z3OaVSVvw4GsRZLhWlIlZ2OHhsap6rfxdYjiPE4cYJmjizBNLPoUzDWsjPFLM+mIXQXNU/QrUpyhSjrIa0as8cdDy2rLsfx1QDDo+jT6UWGwHKO8NqEt5RhOHmBFTDGk1zTwY8alvMCIMHPJ3lW60ID6cD+N+zXn/klLeJJfivV0454d0ee4Ns66MYkcWVIp80ObkqJxz9YRxSq4XnWQM+Iv0chLEI9SM0NzcQ7PxBNeFDNqXv45HEfnaE/viWZQoT+liSXqoygvG2wu6kei8T8sPZb2bKPpMWkjOGhfV1'}}
0:39:45.181761	LOG	Server --------------------> DUT
0:39:45.183763	LOG	Send Test Command TxFramesCtrlReq process completed
0:39:45.187729	LOG	Check previous uplink data rate process starts
0:39:45.191727	LOG	Uplink received with expected Data Rate
0:39:45.195237	LOG	Send Test Command TxFramesCtrlReq process starts
0:39:49.800301	LOG	GPS Time updated: 1385118438402
0:39:49.801299	LOG	PULL_DATA: 02 645b 02 0016c001ff1025bf
0:39:49.803301	LOG	PULL_ACK: 02 645b 04
0:39:50.064401	LOG	First uplink received. Open reception window.
0:39:50.169327	LOG	PUSH_ACK: 02 08de 01
0:39:50.171335	LOG	GPS Time from gateway: 1385118438665
0:39:50.172295	LOG	PUSH_DATA: Protocol version = 02, Token = 08de, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 7843170, 'time': '2023-11-27T11:06:59.665342Z', 'tmms': 1385118438665, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3232, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA7AcCkJtoBw/s2JE8GCQ='}]}
0:39:50.174332	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07ec, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 913c1824)
0:39:50.175296	LOG	Server <-------------------- DUT
0:39:50.177297	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04bf, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101010

		101), MIC: cd27b36b)
0:39:50.179296	LOG	Frame command sent to the DUT
0:39:50.180802	LOG	PULL_RESP: Protocol version = 02, Token = 0e83, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 8843170, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAvwTgGwKjrGaB5465r8TYf9Pi4M7Z85vlgMTaka9XkXaO3FX6YmS2qmcBwPllw9mg3sa2mV3j2TCaSsKcCB78r9+T2D+93Cf+wU6seovhv385Joc5r69FToLxQ+hMbUH4vEjy0pdtME0DjQB28FSouwnZMdaBn66JuQzWy6Kx1PsXNqu15tM/HjEGwxHtbiEqCG3Aj7Lfs0ZAnAWCUeXNl9jM1Ujxs6kFDZfN7X4ZGAjrDY1i3WwCFYp5CNY9qaGsJItdB+6LSpxlFR8p62WsOm6+0s7BEkHmcnFkE6HJwA4WkPjP2Y52ff6YKUz4EpWH3D6wOJzNJ7Nr'}}
0:39:50.182807	LOG	Server --------------------> DUT
0:39:50.185807	LOG	Send Test Command TxFramesCtrlReq process completed
0:39:50.188807	LOG	Check previous uplink data rate process starts
0:39:50.192809	LOG	Uplink received with expected Data Rate
0:39:50.197319	LOG	Send Test Command TxFramesCtrlReq process starts
0:39:55.066463	LOG	First uplink received. Open reception window.
0:39:55.173682	LOG	PUSH_ACK: 02 4089 01
0:39:55.175682	LOG	GPS Time from gateway: 1385118443664
0:39:55.176650	LOG	PUSH_DATA: Protocol version = 02, Token = 4089, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 12842912, 'time': '2023-11-27T11:07:04.665083Z', 'tmms': 1385118443664, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3232, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA7QcClnKKsv3Rr1ANKro='}]}
0:39:55.178650	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07ed, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 500d2aba)
0:39:55.179682	LOG	Server <-------------------- DUT
0:39:55.181651	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04c0, FOpts:), FPort: e0, FRMPayload: 070001), MIC: e2a58bb7)
0:39:55.183683	LOG	Frame command sent to the DUT
0:39:55.185153	LOG	PULL_RESP: Protocol version = 02, Token = 8f24, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 13842912, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAwATgo8Wmo19bKvGiFyQO8R4ngxne3RFU2/GedCCtyOXTi7S2zUy6CWu5TuM/UvH5nVifkr8HdSIuQZJk27hq/vAWKtW4O9qoU3PCQeYTe0gmDDvaXlWGDhs1kiVsa7whBLUQo5v+4wcdKDifeahm1oh0zDfuzwKhittGTbxFDitsNqVJrNq9eskI5NkNxtvQqYzp8i+/OctENJfOJVBlXLk2k8MsrTKY+B3wIzFW5CfczZ1yqkBdCDhpof80rcikG0C+Zgiaz5lgDj/Qn3wPk38eDF6oLSPjAI4jSER2cRfW+22h0NcROkP/zi7FRAntqOTaXqTipYu3'}}
0:39:55.186157	LOG	Server --------------------> DUT
0:39:55.189157	LOG	Send Test Command TxFramesCtrlReq process completed
0:39:55.193163	LOG	Check previous uplink data rate process starts
0:39:55.197735	LOG	Uplink received with expected Data Rate
0:39:55.201704	LOG	Send Test Command TxFramesCtrlReq process starts

0:39:59.819651	LOG	GPS Time updated: 1385118448417
0:39:59.821738	LOG	PULL_DATA: 02 b538 02 0016c001ff1025bf
0:39:59.823739	LOG	PULL_ACK: 02 b538 04
0:40:00.056439	LOG	First uplink received. Open reception window.
0:40:00.170466	LOG	PUSH_ACK: 02 c8c9 01
0:40:00.172431	LOG	GPS Time from gateway: 1385118448664
0:40:00.174432	LOG	PUSH_DATA: Protocol version = 02, Token = c8c9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 17842659, 'time': '2023-11-27T11:07:09.664829Z', 'tmms': 1385118448664, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.8, 'foff': -3232, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA7gcCQriShesN9jnBiwQ='}]}
0:40:00.175437	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07ee, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 39c18b04)
0:40:00.176473	LOG	Server <-------------------- DUT
0:40:00.178436	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04c1, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: beff5691)
0:40:00.180471	LOG	Frame command sent to the DUT
0:40:00.181469	LOG	PULL_RESP: Protocol version = 02, Token = 7fde, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 18842659, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAwQTgpBubxzoROJo5S5dnVieZF7tEB3sd2FDdKpXcMkOBVj4S4E jnxAhqX/U8b0+YbU1egVp7wh8xxtyFJoLERDz88/9CerIVz9Y/Qw9SiZi6xY0Neh fUdW2HWkJkXZQWnKGo0I5OgFwmfkvW9jZHKoh/K3akd4rWobHuRpT1PWD u4mz+PkKJpLKBfTKUE/nLwRxUHxVmXIdnSCDwd63unzATLxrJKSeuVe8b/Bf X4n2cVKj7OHqsMfY7zcK42jkOfJDVphNMEO/24DW5mmreyauwAlQTdFt2eoL qyOhHsW7wEHwD3igS/w6yhebLMbCXsBu8+dO+/1aR'}}
0:40:00.183448	LOG	Server --------------------> DUT
0:40:00.185440	LOG	Send Test Command TxFramesCtrlReq process completed
0:40:00.188437	LOG	Check previous uplink data rate process starts
0:40:00.192943	LOG	Uplink received with expected Data Rate
0:40:00.197453	LOG	Send Test Command TxFramesCtrlReq process starts
0:40:05.064302	LOG	First uplink received. Open reception window.
0:40:05.178405	LOG	PUSH_ACK: 02 d605 01
0:40:05.180371	LOG	GPS Time from gateway: 1385118453664
0:40:05.181371	LOG	PUSH_DATA: Protocol version = 02, Token = d605, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 22842391, 'time': '2023-11-27T11:07:14.664560Z', 'tmms': 1385118453664, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3232, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA7wcCtu231Fgi4TP/7ts='}]}
0:40:05.183370	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07ef, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 33ffeedb)
0:40:05.184370	LOG	Server <-------------------- DUT
0:40:05.186371	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04c2, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101

		0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 6ecee4ea)
0:40:05.188370	LOG	Frame command sent to the DUT
0:40:05.189371	LOG	PULL_RESP: Protocol version = 02, Token = 1c43, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 23842391, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAwgTguqR392pfltc+pvvnUu+U6r8nRsHYorPyCjBC6ZTjuoHwQf0fgIuWyXDLeUKDNm/7Wo9c7pMm3K2Fo4RGZeCHzLeViVd1Fejj42zWBNEZ7LkH11os3bsLgJVicBHAN5YTxZDZyduF6+MIHqaATpu+nnsFa8/99VnYPXdyNZXPZC1e0o4CyIelRuFMkwjI1ALXx61m3G13AvkpWylVbc/UkTYZeILKdZoEhCPeQg7/9VeGJ4ONgqkvzVpLNysyqjECFJuzg5aHLZahYU1YNsegBn+BKShUGifmI/MCKQBgIO+iJKTz+u3/PBBso44/L8h410BuzuTq'}}
0:40:05.190370	LOG	Server --------------------> DUT
0:40:05.193370	LOG	Send Test Command TxFramesCtrlReq process completed
0:40:05.196338	LOG	Check previous uplink data rate process starts
0:40:05.200337	LOG	Uplink received with expected Data Rate
0:40:05.204336	LOG	Send Test Command TxFramesCtrlReq process starts
0:40:10.019882	LOG	#**************************CURRENT BEACON SENT**************************#
0:40:10.021851	LOG	PULL_RESP: Protocol version = 02, Token = 2d11, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385118464000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAO49SRUQAAAAAAAAAAAA='}}
0:40:10.022850	LOG	Server --------------------> DUT
0:40:10.024855	LOG	#**#
0:40:10.033896	LOG	#**************************NEXT BEACON QUEUED***************************#
0:40:10.035863	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385118592000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAO49SfZkAAAAAAAAAAAA='}}
0:40:10.036896	LOG	Server --------------------> DUT
0:40:10.038400	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 803b8f52, CRC1: 7d99, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385118592000
0:40:10.039410	LOG	#**#
0:40:10.041438	LOG	Next BEACON scheduled at GPS time (ms): 1385118720000
0:40:10.042406	LOG	GPS Time updated: 1385118458642
0:40:10.044405	LOG	PULL_DATA: 02 c0f1 02 0016c001ff1025bf
0:40:10.045404	LOG	PULL_ACK: 02 c0f1 04
0:40:10.047438	LOG	TX_ACK: 02 2d11 05 0016c001ff1025bf
0:40:10.058963	LOG	First uplink received. Open reception window.
0:40:10.161021	LOG	PUSH_ACK: 02 637b 01
0:40:10.163543	LOG	GPS Time from gateway: 1385118458664
0:40:10.164552	LOG	PUSH_DATA: Protocol version = 02, Token = 637b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 27842145, 'time': '2023-11-27T11:07:19.664313Z', 'tmms': 1385118458664, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3232, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA8AcCoTLYsyijewvGvIs='}]}
0:40:10.166549	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07f0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0bc6bc8b)

0:40:10.167548	LOG	Server <-------------------- DUT
0:40:10.169549	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04c3, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 784e1e97)
0:40:10.170548	LOG	Frame command sent to the DUT
0:40:10.172582	LOG	PULL_RESP: Protocol version = 02, Token = e7f2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 28842145, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAwwTg+awMnh+nRBL4sK1L4lvIuo+ESGfoEYL6v+zOdoZqno4xs8 kWTBHopXkTk+EJl7uyuSNEY0vYW+WQcO+9FnWjgUxlzll0BTo4FWrfmjz/mT CXE5Bn+NzuAR34j0XnoE0CUrHYh4GJORZ8QwlfJlm6I57xGBxCavaKEpjyA/N HPpC7VpX/8JgAQoaH21fC0V9KdMWHo4Qb5myqYZxHNzQV3567nS4uT2P7O MKKLw9+gIFhOuuTb2LkXuBI/m2kZzXCKVGWmkeA/jpn1scTBszdHKOocVSo n5WvgjWSgaTUXXf+SS+REiz6fZar1rUh0NVeD/t4Th6X'}}
0:40:10.173582	LOG	Server --------------------> DUT
0:40:10.176549	LOG	Send Test Command TxFramesCtrlReq process completed
0:40:10.179499	LOG	Check previous uplink data rate process starts
0:40:10.183656	LOG	Uplink received with expected Data Rate
0:40:10.186665	LOG	Send Test Command TxFramesCtrlReq process starts
0:40:15.065290	LOG	First uplink received. Open reception window.
0:40:15.171572	LOG	PUSH_ACK: 02 4a5f 01
0:40:15.173539	LOG	GPS Time from gateway: 1385118463663
0:40:15.174570	LOG	PUSH_DATA: Protocol version = 02, Token = 4a5f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 32841877, 'time': '2023-11-27T11:07:24.664045Z', 'tmms': 1385118463663, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3232, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA8QcCtJ6cvwnfVPMh4Ao='}]}
0:40:15.176538	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07f1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f321e00a)
0:40:15.177571	LOG	Server <-------------------- DUT
0:40:15.179539	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04c4, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: d0b37c71)
0:40:15.180575	LOG	Frame command sent to the DUT
0:40:15.182573	LOG	PULL_RESP: Protocol version = 02, Token = 5f72, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 33841877, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAxATgPY2NE6B0Iexib0I3E5IKh+Q/6FNn47JNAWfMlgmY3jwSnF MQUZlDZfQoyTgaXzXQE0RoGppSZ605PkwJGKja8wQbzz18bGzSARkHu26pR FZZIywItMQrGOqaGYiEOARM4AZVbFdWP49ShzzOrr2anb48V906GnQ2FlISc CVKEG4OEK6Yqrdx6qyty/ENG1jBkilKhpeW7ZqDW93D3Hragn0EpBeqvb9sxkf

		SFqdAyFYpX70GaHbk/dxEZbzp2jsQ5xX/nhUN9/+buQZW5Z65mtosxS2b0nCuuAs7JuojCWLirFMEXBqjFpy0QiqI0Q6+lz7Qs3xx'}}
0:40:15.183576	LOG	Server --------------------> DUT
0:40:15.186544	LOG	Send Test Command TxFramesCtrlReq process completed
0:40:15.189545	LOG	Check previous uplink data rate process starts
0:40:15.193543	LOG	Uplink received with expected Data Rate
0:40:15.196702	LOG	Send Test Command TxFramesCtrlReq process starts
0:40:20.064348	LOG	First uplink received. Open reception window.
0:40:20.177400	LOG	PUSH_ACK: 02 db25 01
0:40:20.179430	LOG	GPS Time from gateway: 1385118468663
0:40:20.180435	LOG	PUSH_DATA: Protocol version = 02, Token = db25, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 37841626, 'time': '2023-11-27T11:07:29.663793Z', 'tmms': 1385118468663, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3232, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA8gcCTzD++Rg9byFFZSI='}]}
0:40:20.182438	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07f2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 21456522)
0:40:20.184436	LOG	Server <-------------------- DUT
0:40:20.185468	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04c5, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 7d6ed191)
0:40:20.187468	LOG	Frame command sent to the DUT
0:40:20.188467	LOG	PULL_RESP: Protocol version = 02, Token = f87f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 38841626, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAxQTgvZgkdNro1B1P06bdsLbBEFCeSxkMl3Ji+lTQlpo5d3AyK7xXDd/gtWYVnTozr+nsruzEQpu9tItjewZDnfkg13tZ+xdzyYMJxYtAkO48spcB+WVmsZ1NzWrCa3WjP2fhMpCWio0VzUu7jmbLxgyf40nMafIN8KA1ZFxyaLs7CLWTburimSRtaiTz/u7QZaTzxgCmGkeQ2m9fw0XWuQe9GiCji9NywP5ljy6Apy0MvzItQptIqIWzHDCNCoB2PJqBs/TefctfZ028k4epo+6+t6uXbg/0u0niqkhOa49zbQXem5AgtnkfW3BdQUwO+3sz72p9btGR'}}
0:40:20.190481	LOG	Server --------------------> DUT
0:40:20.192436	LOG	Send Test Command TxFramesCtrlReq process completed
0:40:20.195597	LOG	Check previous uplink data rate process starts
0:40:20.200564	LOG	Uplink received with expected Data Rate
0:40:20.203565	LOG	Send Test Command TxFramesCtrlReq process starts
0:40:25.056165	LOG	First uplink received. Open reception window.
0:40:25.167282	LOG	PUSH_ACK: 02 0d11 01
0:40:25.169252	LOG	GPS Time from gateway: 1385118473663
0:40:25.170278	LOG	PUSH_DATA: Protocol version = 02, Token = 0d11, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 42841363, 'time': '2023-11-27T11:07:34.663529Z', 'tmms': 1385118473663, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3232, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA8wcCy1e4JR7WLEjY+9I='}]}
0:40:25.172269	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07f3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 48d8fbd2)
0:40:25.173282	LOG	Server <-------------------- DUT
0:40:25.175274	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04c6, FOpts:), FPort: e0, FRMPayload:

		070001), MIC: b393cbf3)
0:40:25.177283	LOG	Frame command sent to the DUT
0:40:25.178283	LOG	PULL_RESP: Protocol version = 02, Token = e990, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 43841363, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAxgTgoKdtk1GgfjxXseibK34x6/QDF1NgxBPxXo/xqHOP2dP0PaLfpoo+Kwi+Aba9H+zwYk7RU80Jn/+WRq/4HKfX6S+QdJ+jmIGljV5mgcRGaA4rNrfCPjc4F+iani33ZmvRCsFnmXAn3FkxUK8YSGQnw3ZZ1jQL9s27DU7HaHl3tPp0XdCoe61a4GsAPjqIMapFXzO/WyqzrFj/QbPXkBWKzMcJ1+5XRlWPtOyUb9XlEG+kbFCZkcRPYl7exQ03u/5AajMfFo9tvHeKvOejS7iFfICAO1ygLVe+v+icPZnWJADy/gxonyFhQF36s2J2wN6S0rOzk8vz'}}
0:40:25.180288	LOG	Server --------------------> DUT
0:40:25.183287	LOG	Send Test Command TxFramesCtrlReq process completed
0:40:25.185320	LOG	Check previous uplink data rate process starts
0:40:25.190286	LOG	Uplink received with expected Data Rate
0:40:25.193319	LOG	Send Test Command TxFramesCtrlReq process starts
0:40:30.059422	LOG	First uplink received. Open reception window.
0:40:30.166506	LOG	PUSH_ACK: 02 4cc3 01
0:40:30.168544	LOG	GPS Time from gateway: 1385118478663
0:40:30.169508	LOG	PUSH_DATA: Protocol version = 02, Token = 4cc3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 47841097, 'time': '2023-11-27T11:07:39.663262Z', 'tmms': 1385118478663, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.8, 'foff': -3232, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA9AcCpcG6iojGnIhDLEQ='}]}
0:40:30.171522	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07f4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 88432c44)
0:40:30.172507	LOG	Server <-------------------- DUT
0:40:30.174506	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04c7, FOpts:), FPort: e0, FRMPayload: 070001), MIC: eb8867ba)
0:40:30.176506	LOG	Frame command sent to the DUT
0:40:30.177540	LOG	PULL_RESP: Protocol version = 02, Token = 2136, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 48841097, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAxwTgXPTM9jjkdF7fDk7QcSLTXciEMVQYsOklQ48mbswCXS4TMflhBSp84IMWU/UAO4HhtGetNR9KBHQj0dZylTNx6AjqnQn/2jioMa/KKtfTUMmI730iLu9Lti1BBFRLeb+B1YvVWqsiBQBMBGXJcPn4vPEP6O+aFVwJHQ6AW6INEOsS6C1fUOJb560fN0v67lHXpPc6MYzi9Aw/fpXY0Ntp7O5Xx2g7XIRyBRO1UTW5NMD1WjFI5PGI9zUWIX0Ks5lbPJd5C/4kC2Ef7xx1JyXydwnfvc0TAMQv/L2aje9sTji0FQsUgeXtKdQNCwQKuSvquEfriGe6'}}
0:40:30.178540	LOG	Server --------------------> DUT
0:40:30.181544	LOG	Send Test Command TxFramesCtrlReq process completed

0:40:30.184573	LOG	Check previous uplink data rate process starts
0:40:30.189569	LOG	Uplink received with expected Data Rate
0:40:30.192581	LOG	Send Test Command TxFramesCtrlReq process starts
0:40:30.390156	LOG	GPS Time updated: 1385118478994
0:40:30.391155	LOG	PULL_DATA: 02 deb1 02 0016c001ff1025bf
0:40:30.392160	LOG	PULL_ACK: 02 deb1 04
0:40:35.053432	LOG	First uplink received. Open reception window.
0:40:35.167706	LOG	PUSH_ACK: 02 1fe6 01
0:40:35.169703	LOG	GPS Time from gateway: 1385118483662
0:40:35.170671	LOG	PUSH_DATA: Protocol version = 02, Token = 1fe6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 52840843, 'time': '2023-11-27T11:07:44.663007Z', 'tmms': 1385118483662, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3232, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA9QcC+jPYo4odb2lQ2BQ='}]}
0:40:35.172678	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07f5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6950d814)
0:40:35.173671	LOG	Server <-------------------- DUT
0:40:35.175671	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04c8, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 46149ef7)
0:40:35.177671	LOG	Frame command sent to the DUT
0:40:35.178672	LOG	PULL_RESP: Protocol version = 02, Token = 11c3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 53840843, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAyATgC/h7s2hs3KNU6M3Nv10FmBxlZPNHnyzG/OIB9pzweqPVA 8PPuo3iEJxnWKfhZwr/RvZnKFXjpoLSzVu3vzg+uRtvcjyemZ/OuA4eHOQJSyrN lKs0V/wynzls936nKocz9Eltl9Eylnf1BnJk2mjdNyBpJcxwIuG67fE4L+N8bG+Fo+j cL9Ex0tDKRGt1lw//QMcMNufrzOlZAcp35/+Q+BIDliL94dq0WI4h8Zz5Y6p27m uB3rdpbBzI70j2U4rCBSQSuQna9oWITNpziQ42BoGyTEfl3sTBx9i+oKrFI267Oi hQa71Vl1PAlzDQux0eZWRGFJ73'}}
0:40:35.180674	LOG	Server --------------------> DUT
0:40:35.182674	LOG	Send Test Command TxFramesCtrlReq process completed
0:40:35.185676	LOG	Check previous uplink data rate process starts
0:40:35.190676	LOG	Uplink received with expected Data Rate
0:40:35.193675	LOG	Send Test Command TxFramesCtrlReq process starts
0:40:40.063317	LOG	First uplink received. Open reception window.
0:40:40.178297	LOG	PUSH_ACK: 02 8f5f 01
0:40:40.180265	LOG	GPS Time from gateway: 1385118488662
0:40:40.181266	LOG	PUSH_DATA: Protocol version = 02, Token = 8f5f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 57840580, 'time': '2023-11-27T11:07:49.662742Z', 'tmms': 1385118488662, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3247, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA9gcC57Uq46qMUeD+8vM='}]}
0:40:40.183300	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07f6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e0fef2f3)
0:40:40.184299	LOG	Server <-------------------- DUT
0:40:40.186311	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04c9, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010

		101), MIC: 15406009)
0:40:40.188300	LOG	Frame command sent to the DUT
0:40:40.189300	LOG	PULL_RESP: Protocol version = 02, Token = d658, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 58840580, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAyQTgp1Mx29W3U1RbX0Jjlo24uzdgS/B/lOBI9pTBoO1u2vY8l8NYjfUrAZErZI1ELC1jUsfxPOm0pGrnqE3E2Y3PfpTRHdQ2QAEItUmhPRSZNT30bkGJtb0GMHOR0ZjZx8mzqk6y+tTOR8W3tCIUtLN/PNLnQ3sk2uwef1JEZLW/iQcgmCioIg25ktWB+1HwVbMOl0gHiGYQ+dJm2HkPUm7HBDqOF58J99sjQ9/f/N1LFb4RZ5SW7Ma++bgMHQl5zONlJU2UKhLN2Q62eNzuXW5ig6MBOIYYrYmn+tVe2P9sau7ia9Xkvr/VBLcYUauTPXPc/IwVQGAJ'}}
0:40:40.190300	LOG	Server --------------------> DUT
0:40:40.193277	LOG	Send Test Command TxFramesCtrlReq process completed
0:40:40.195820	LOG	Check previous uplink data rate process starts
0:40:40.200833	LOG	Uplink received with expected Data Rate
0:40:40.203854	LOG	Send Test Command TxFramesCtrlReq process starts
0:40:40.400673	LOG	GPS Time updated: 1385118488998
0:40:40.405673	LOG	PULL_DATA: 02 6f44 02 0016c001ff1025bf
0:40:40.411672	LOG	PULL_ACK: 02 6f44 04
0:40:45.059544	LOG	First uplink received. Open reception window.
0:40:45.168152	LOG	PUSH_ACK: 02 9791 01
0:40:45.170181	LOG	GPS Time from gateway: 1385118493662
0:40:45.171154	LOG	PUSH_DATA: Protocol version = 02, Token = 9791, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 62840321, 'time': '2023-11-27T11:07:54.662484Z', 'tmms': 1385118493662, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3232, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA9wcC+tKWT/LHXUJ9Gnc='}]}
0:40:45.173154	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07f7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 427d1a77)
0:40:45.174153	LOG	Server <-------------------- DUT
0:40:45.176153	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04ca, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 25a77120)
0:40:45.178153	LOG	Frame command sent to the DUT
0:40:45.179154	LOG	PULL_RESP: Protocol version = 02, Token = b590, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 63840321, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAygTgFUfRi1yPa2c17H4bA5CYXP89pyleI0HzPfliHfPNAm9yV7TWL7PgMYV7T61o6E9lQqL/lVEPS6zIj4lwfhdUHlJg+JJLCr81K1T3q3aW6JywSYw85kRokvd/eZLG4TxsxYe+6CHgDmQfUM3cXTxMV8voRmMwq7TtUQEzJAHZ0/u8vw++/7K/4IV9llbJ0H7mYP1RDSjbRrU9QzLol7TqdyLI5GTus6vatctybQd

		NhJOPeOMVuTuxKvoI8pi7UQfalwgerjlBIwjaP2y3GkmXoMYC/Oal3wmbohBJqrVjcGd5E0sYtAKgyM35mKTzGbvAG3Alp3Eg'}}
0:40:45.181158	LOG	Server --------------------> DUT
0:40:45.184158	LOG	Send Test Command TxFramesCtrlReq process completed
0:40:45.187160	LOG	Check previous uplink data rate process starts
0:40:45.191160	LOG	Uplink received with expected Data Rate
0:40:45.194661	LOG	Send Test Command TxFramesCtrlReq process starts
0:40:50.060615	LOG	First uplink received. Open reception window.
0:40:50.175258	LOG	PUSH_ACK: 02 9660 01
0:40:50.177260	LOG	GPS Time from gateway: 1385118498662
0:40:50.178259	LOG	PUSH_DATA: Protocol version = 02, Token = 9660, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 67840064, 'time': '2023-11-27T11:07:59.662226Z', 'tmms': 1385118498662, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 15.0, 'foff': -3247, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA+AcCkb5+tMXBpaG4Ahw='}]}
0:40:50.180332	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07f8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a1b8021c)
0:40:50.181331	LOG	Server <-------------------- DUT
0:40:50.183299	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04cb, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 3df553b8)
0:40:50.184331	LOG	Frame command sent to the DUT
0:40:50.186332	LOG	PULL_RESP: Protocol version = 02, Token = b17e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 68840064, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAywTgpw+n/UJIF26gn2J1MyRjGa+RIm5Vi3YrezLtbFBkWBKg65DMclzwW/BqQ6+wTT6M+sXwN5tPLaezT6MisqSudTHG21sSjYJyM4ZGPNQw8UwmjuRStd47w7N7tV4YyS3+yP0dcfG5/KwsbRdNjMyB1owA/J4n48NzPYXdpsAD2+DgA5oPe9CybIqEXxlwhSivxJ8qcamzH9OsYQcOE39Tv9eDMgZ/F/tDFcD7a5OELF0eiC3Wd8yoUvHUMXpxUwtUsU0vOXz/fS1ZOOF4aRh4K5KGyyF9iXtq3eGB6Mu32gOjy4ozJjX1eiDa4JTU7gLN2Hg99VO4'}}
0:40:50.187333	LOG	Server --------------------> DUT
0:40:50.190332	LOG	Send Test Command TxFramesCtrlReq process completed
0:40:50.193332	LOG	Check previous uplink data rate process starts
0:40:50.198429	LOG	Uplink received with expected Data Rate
0:40:50.201462	LOG	Send Test Command TxFramesCtrlReq process starts
0:40:50.399340	LOG	GPS Time updated: 1385118499001
0:40:50.401307	LOG	PULL_DATA: 02 5b6c 02 0016c001ff1025bf
0:40:50.402307	LOG	PULL_ACK: 02 5b6c 04
0:40:55.058061	LOG	First uplink received. Open reception window.
0:40:55.172172	LOG	PUSH_ACK: 02 651b 01
0:40:55.174173	LOG	GPS Time from gateway: 1385118503661
0:40:55.175138	LOG	PUSH_DATA: Protocol version = 02, Token = 651b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 72839807, 'time': '2023-11-27T11:08:04.661968Z', 'tmms': 1385118503661, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3247, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA+QcCoSxPFAP344g1Y9w='}]}
0:40:55.177188	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07f9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 883563dc)

0:40:55.178171	LOG	Server <-------------------- DUT
0:40:55.180178	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04cc, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 1d21a572)
0:40:55.182209	LOG	Frame command sent to the DUT
0:40:55.183208	LOG	PULL_RESP: Protocol version = 02, Token = 3e11, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 73839807, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAzATgL9ONcKhLdkLlh3s8ZyWO9pPE/xKq3/to7vZbPc0o4zetHf4UAMqYNrdQ1n+6K3unCBC1EWAZtGKYFapcu3YyYyH3m3FNfvbD2n+g0769/G5oBb5PFfyqlNwMuuT1S61IgeQWQ7toel94SICbUVopUtac1puzKkBUY9XdYtjcVlRT8sguiKQEqkjOqZHnliEhsuTCaQ4Guy85YDFHQ115q6VQVFayYxsdLiLxIOYPYJ90r7y3ImIdMP1K6R7YgirOd65TReLyzgI67RWrfUYV9oyfRMVMCrvqY8v+4vxPtoDXflmAgdvH+BaZR8VC6WXsiI8dIaVy'}}
0:40:55.184209	LOG	Server --------------------> DUT
0:40:55.187177	LOG	Send Test Command TxFramesCtrlReq process completed
0:40:55.190178	LOG	Check previous uplink data rate process starts
0:40:55.194683	LOG	Uplink received with expected Data Rate
0:40:55.197720	LOG	Send Test Command TxFramesCtrlReq process starts
0:41:00.059016	LOG	First uplink received. Open reception window.
0:41:00.163587	LOG	PUSH_ACK: 02 96a7 01
0:41:00.165624	LOG	GPS Time from gateway: 1385118508661
0:41:00.166592	LOG	PUSH_DATA: Protocol version = 02, Token = 96a7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 77839545, 'time': '2023-11-27T11:08:09.661705Z', 'tmms': 1385118508661, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3247, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA+gcCmhBuAsJuvuRXoFY='}]}
0:41:00.168593	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07fa, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e457a056)
0:41:00.169625	LOG	Server <-------------------- DUT
0:41:00.171591	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04cd, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 5b2780a4)
0:41:00.173591	LOG	Frame command sent to the DUT
0:41:00.174624	LOG	PULL_RESP: Protocol version = 02, Token = 5f0b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 78839545, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAzQTguaa0iNgJyB6oAyUAhH//7qwS5/yqzuEeQuPG9wd4UTn9r3+hKCJmkjwNjDp1dn7kI0rhDMkcWq9fENm1m5M5ropVOQN1Q110ZZtFVuc2KTkRSYKH7UcdaIkn0XOTrytFJAkb0QZdfqEKAnm8NNugUtycKu5GF7hI+qMmIRzgOEjNTzzbvUopo2/L/GKaTToISYCMAqaiq/fIqtmqAoRnMkDXQbbQGWPZglkf

		IC0kNaTPwhWqc/pXMDXxG7emiQO85OPq2C7gs8n3AS2P0I63eXLqdPfIXud/m rszaSOGmSrQmvRkqcB9YxIGWM7EOQrvqCBbJ4Ck'}}
0:41:00.175631	LOG	Server --------------------> DUT
0:41:00.178593	LOG	Send Test Command TxFramesCtrlReq process completed
0:41:00.181638	LOG	Check previous uplink data rate process starts
0:41:00.186600	LOG	Uplink received with expected Data Rate
0:41:00.189632	LOG	Send Test Command TxFramesCtrlReq process starts
0:41:00.589332	LOG	GPS Time updated: 1385118509191
0:41:00.591346	LOG	PULL_DATA: 02 2871 02 0016c001ff1025bf
0:41:00.592374	LOG	PULL_ACK: 02 2871 04
0:41:05.061925	LOG	First uplink received. Open reception window.
0:41:05.172407	LOG	PUSH_ACK: 02 cc35 01
0:41:05.174408	LOG	GPS Time from gateway: 1385118513661
0:41:05.175409	LOG	PUSH_DATA: Protocol version = 02, Token = cc35, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 82839297, 'time': '2023-11-27T11:08:14.661456Z', 'tmms': 1385118513661, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3247, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA+wcCMnQHnlqmQcl1vD4='}]}
0:41:05.177419	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07fb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c975bc3e)
0:41:05.178410	LOG	Server <-------------------- DUT
0:41:05.180434	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04ce, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: a5603f6d)
0:41:05.182443	LOG	Frame command sent to the DUT
0:41:05.183449	LOG	PULL_RESP: Protocol version = 02, Token = f4b5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 83839297, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAzgTgKqqzDSE5ZSoYxBPuW3FR/tctIsvvUW8OldbU+izGrdtDUYoi dTelHZF1efbnbg6IWITINWkXyHag4IioJBwrNnDGkZ8T+PDFbOMpqPgCLyDj/ ZU7KUx9TOykptisvm8QR6ZalY6gZDlq3b07NkLiSFPWh3QvJ5v+00jcYLr9A7n 8+aGOAsIAh/vpy+PRNbvl2ZGwxyE7h4StJtqZpxIgSGzMgzwopwD+mBpqrhadF CWGAqWeMwH56cbWu1NpE6twSuARnHHH04urP9V+c6oUhLDj3tX6ZSqf2Vn hVE1tgCjjTiX1iY50roz1bUsT7TEohLulYD9t'}}
0:41:05.184448	LOG	Server --------------------> DUT
0:41:05.187443	LOG	Send Test Command TxFramesCtrlReq process completed
0:41:05.190416	LOG	Check previous uplink data rate process starts
0:41:05.194414	LOG	Uplink received with expected Data Rate
0:41:05.198631	LOG	Send Test Command TxFramesCtrlReq process starts
0:41:10.052456	LOG	First uplink received. Open reception window.
0:41:10.155913	LOG	PUSH_ACK: 02 77d9 01
0:41:10.157914	LOG	GPS Time from gateway: 1385118518661
0:41:10.158915	LOG	PUSH_DATA: Protocol version = 02, Token = 77d9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 87839027, 'time': '2023-11-27T11:08:19.661184Z', 'tmms': 1385118518661, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3247, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA/AcC4rCQGqja6QuHbSY='}]}
0:41:10.160915	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07fc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0b876d26)

0:41:10.161418	LOG	Server <-------------------- DUT
0:41:10.163930	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04cf, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: d061ea27)
0:41:10.165939	LOG	Frame command sent to the DUT
0:41:10.167937	LOG	PULL_RESP: Protocol version = 02, Token = 3d45, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 88839027, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAzwTgX6P21fiphJo9paaorQWYungnk3AzIxTR2fgOQRMacQ6PGKI eeyz53KSSTY5xSufPLrqg36/mnwnQ2yzuWh1kHH8hzxJJ4Rs3cVCNmQskqGfG2 PBoNVpanIgeZicPxYVkpUAsfSR3Wj009LG4S4tQLyMk9xZv0rNu2zB8Zqv1qeB DVv3Wx7rQE0TKj/w1TGjFtLWW2FHz8BjHx+mzyqHMT8kS8l44TCypuoQV9t XbEZN08+6AK50mzJ7lil5eqRXj/5FX5l6b1mqJnkIb5fldXXKMTy6JZ6dPGvqzoC RkVDut1Ly6IXa7YfeMk8xYwjhcG57QYeon'}}
0:41:10.168971	LOG	Server --------------------> DUT
0:41:10.171940	LOG	Send Test Command TxFramesCtrlReq process completed
0:41:10.174938	LOG	Check previous uplink data rate process starts
0:41:10.178969	LOG	Uplink received with expected Data Rate
0:41:10.183009	LOG	Send Test Command TxFramesCtrlReq process starts
0:41:10.799557	LOG	GPS Time updated: 1385118519408
0:41:10.800588	LOG	PULL_DATA: 02 4648 02 0016c001ff1025bf
0:41:10.802555	LOG	PULL_ACK: 02 4648 04
0:41:15.059958	LOG	First uplink received. Open reception window.
0:41:15.171852	LOG	PUSH_ACK: 02 ec93 01
0:41:15.173816	LOG	GPS Time from gateway: 1385118523660
0:41:15.174818	LOG	PUSH_DATA: Protocol version = 02, Token = ec93, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 92838775, 'time': '2023-11-27T11:08:24.660933Z', 'tmms': 1385118523660, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3247, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA/QcCx3omtX4kpJApSsg='}]}
0:41:15.176855	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07fd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 90294ac8)
0:41:15.177854	LOG	Server <-------------------- DUT
0:41:15.179828	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04d0, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 163fe661)
0:41:15.181826	LOG	Frame command sent to the DUT
0:41:15.182826	LOG	PULL_RESP: Protocol version = 02, Token = a512, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 93838775, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA0ATgcGfTr029n4JRfsuP2LBfmIfzkWITzXM/JRaDR3yzxWgWySZ

		l0lUZdmWdDPf958jVFXKuBIYMwfD5+c9LTrD4a5743dC3d+CR6tncjdHQpRuz xjst6yCLX1AwxvgizOa8a+xjFzN5VUvH80flD2zHGvkmItAKlaRiiDxmIOPPBtTa zIQO7B+qRTfbdJ4dx8z8q8n67HG0wnfTWNRPqWN0ihL9KdNkd/bDU/MBkcz/k QcXaKoPOLeydZTIBpHMvbk1JUnGlbWe+f/v2VSNQlYcVVjfMm1eqKBev0ldo TwSqNMOZ5jIKs/vDQyGpCkWXWEuv1IWP+Zh'}}
0:41:15.184825	LOG	Server --------------------> DUT
0:41:15.186827	LOG	Send Test Command TxFramesCtrlReq process completed
0:41:15.189859	LOG	Check previous uplink data rate process starts
0:41:15.193826	LOG	Uplink received with expected Data Rate
0:41:15.198374	LOG	Send Test Command TxFramesCtrlReq process starts
0:41:20.061744	LOG	First uplink received. Open reception window.
0:41:20.175210	LOG	PUSH_ACK: 02 0bca 01
0:41:20.177175	LOG	GPS Time from gateway: 1385118528660
0:41:20.179177	LOG	PUSH_DATA: Protocol version = 02, Token = 0bca, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 97838516, 'time': '2023-11-27T11:08:29.660673Z', 'tmms': 1385118528660, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3247, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA/gcCTsFlFzQAwkwlhyA='}]}
0:41:20.180215	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07fe, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4c258720)
0:41:20.181182	LOG	Server <-------------------- DUT
0:41:20.183181	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04d1, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: b5b9998e)
0:41:20.185215	LOG	Frame command sent to the DUT
0:41:20.186215	LOG	PULL_RESP: Protocol version = 02, Token = 103a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 98838516, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA0QTguNySL5NZBYmdqYoureoXfEJm57nqTLMSnu0a0Uq8iOLS MhXwFseCyMxH4XbiDMwQWpROg9tKf9JIvuon8DgET3EsJdz7leyNH5re2PEE zZr0GBWEkYkeekNGIbio+Uu35CzZT7Wn4CyfOQtjlgKDbfscjuC/WLXthoiQQP xfMdzWptPaYXe/QIyjp0eTroPyHmgKf6AIWYJi8pta9KW+93hkpLGIAqefs2GnR uPHHSCxiPCCsSLi0igEwHeyNyxebZWith3m+79MkQZAoHkDyar6TKO/gBd2k DXj9NsAwPncZSQVtS+7QDZlJf2Gk73ThyW1uZmO'}}
0:41:20.188215	LOG	Server --------------------> DUT
0:41:20.190204	LOG	Send Test Command TxFramesCtrlReq process completed
0:41:20.193182	LOG	Check previous uplink data rate process starts
0:41:20.197690	LOG	Uplink received with expected Data Rate
0:41:20.201691	LOG	Send Test Command TxFramesCtrlReq process starts
0:41:20.824150	LOG	GPS Time updated: 1385118529423
0:41:20.827154	LOG	PULL_DATA: 02 442a 02 0016c001ff1025bf
0:41:20.830149	LOG	PULL_ACK: 02 442a 04
0:41:25.060618	LOG	First uplink received. Open reception window.
0:41:25.168641	LOG	PUSH_ACK: 02 b1d3 01
0:41:25.170609	LOG	GPS Time from gateway: 1385118533660
0:41:25.171608	LOG	PUSH_DATA: Protocol version = 02, Token = b1d3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 102838254, 'time': '2023-11-27T11:08:34.660410Z', 'tmms': 1385118533660, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.8, 'foff': -3247, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA/wcCUzWTN0BIlkwAlCY='}]}
0:41:25.173609	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 07ff, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4c009426)
0:41:25.175114	LOG	Server <-------------------- DUT
0:41:25.177119	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04d2, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: c6f1064c)
0:41:25.178119	LOG	Frame command sent to the DUT
0:41:25.180123	LOG	PULL_RESP: Protocol version = 02, Token = 7b37, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 103838254, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA0gTgwBgjG7RoOyZYDEy1o/6ZjWo+rxxnqjDvs6VSKT8js1OKtJo WpJE2osrytCiI/WkEVlDPUcZv8+DQKGT3Hk7usdjWpB/SXp03n5JXsbZ7zYV9h ExkKHxtn4YH2aqK1xH24xb5wUJysD9RmN3wDpXxJ9xKowPo6yylnBFqHBN9 kpo3KOOf+dB1bEKhGeAsGZno3sSxlpPuz/NXtTZOKyOJTlqBipcnwpcQ38i7sw Lq9NaHNzlsJjn+loouYvtcbGHjjaNgOsUOMaPjC9F/acY2Dh1xvxn7RSxGk5O9cr ZnTfJpNG7IeVD5oawPAUspGIRG7WTG8QZM'}}
0:41:25.181124	LOG	Server --------------------> DUT
0:41:25.183124	LOG	Send Test Command TxFramesCtrlReq process completed
0:41:25.187141	LOG	Check previous uplink data rate process starts
0:41:25.191156	LOG	Uplink received with expected Data Rate
0:41:25.194662	LOG	Send Test Command TxFramesCtrlReq process starts
0:41:30.058672	LOG	First uplink received. Open reception window.
0:41:30.170478	LOG	PUSH_ACK: 02 1721 01
0:41:30.172447	LOG	GPS Time from gateway: 1385118538659
0:41:30.173484	LOG	PUSH_DATA: Protocol version = 02, Token = 1721, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 107837996, 'time': '2023-11-27T11:08:39.660151Z', 'tmms': 1385118538659, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3247, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAAAgCxvf9fGHfPEulHJg='}]}
0:41:30.175480	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0800, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4ba51c98)
0:41:30.176448	LOG	Server <-------------------- DUT
0:41:30.178448	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04d3, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: efc556b4)
0:41:30.180474	LOG	Frame command sent to the DUT
0:41:30.181916	LOG	PULL_RESP: Protocol version = 02, Token = 3583, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 108837996, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data':

		'YAAAAAAA0wTgf08H3cqHr/9BugSJA35vcYKLGrb1VwOxQPYz29vAzgWPPZBNcs/mOt4f0PVWxalwSxEl1aRSnQl2wZ6IW/b53vNNelkEmZFfRT+ohpPm6hl7OuDA//rysXQg8oLLsFy791x9VbaSdEvqHqoQUeHP7Cryj3nWC5QfbDt4sNfC1kNEh6CVv6qsK4CGi08XhXj4m4Mp+ZnvyteEcrjr03k50MQyfBtS0ts2FJ3Vwk6nYyinMb/69wr3oxvuAlgWuROwqln5gWx6ZXyC/X3YFDjeqy0rUB/E9lJVnbrxkGHiy1ofIqEy1yXTcII5qOyLzU57cDXvxVa0'}}
0:41:30.182913	LOG	Server --------------------> DUT
0:41:30.185915	LOG	Send Test Command TxFramesCtrlReq process completed
0:41:30.188914	LOG	Check previous uplink data rate process starts
0:41:30.192950	LOG	Uplink received with expected Data Rate
0:41:30.197526	LOG	Send Test Command TxFramesCtrlReq process starts
0:41:31.019323	LOG	GPS Time updated: 1385118539621
0:41:31.020324	LOG	PULL_DATA: 02 b2ad 02 0016c001ff1025bf
0:41:31.022325	LOG	PULL_ACK: 02 b2ad 04
0:41:35.056709	LOG	First uplink received. Open reception window.
0:41:35.172537	LOG	PUSH_ACK: 02 810d 01
0:41:35.174538	LOG	GPS Time from gateway: 1385118543659
0:41:35.175539	LOG	PUSH_DATA: Protocol version = 02, Token = 810d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 112837734, 'time': '2023-11-27T11:08:44.659888Z', 'tmms': 1385118543659, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3247, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAAQgCjpre9g8z/SIx+jo='}]}
0:41:35.177572	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0801, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2231fa3a)
0:41:35.178572	LOG	Server <-------------------- DUT
0:41:35.180539	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04d4, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 15b5372b)
0:41:35.182584	LOG	Frame command sent to the DUT
0:41:35.183577	LOG	PULL_RESP: Protocol version = 02, Token = a155, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 113837734, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA1ATg67DcAqzJ3u7KHZEmJkopKIBHmeIIBjkpjH4+uSyLFC+78RTMTsSbnVUVFF6nHpU5Dwv7/IPu+aiIcw6hW0zy+1064B2k4DnR42hy/WDm4QSXar0ZIwkldjRQvbBm3SPPYgZaUS+Ez4GbfxpR8Xu0K/eWVCt5qC68B3d8p6LmC2uZkcq+1/NRe0lZ0faqC3xctGzxNg21OvDG1JeIclAIbYhh87OkfbS7PJsXVhwn9k9Qv+fAcX1jt0B/RKRzZwhcE6wbZBhg184gVqDqrO35pLGFMuKw2idT48x1D17kz41ZIgLsy9Bf1jj4NjPGXCMi0wcVtTcr'}}
0:41:35.185114	LOG	Server --------------------> DUT
0:41:35.187120	LOG	Send Test Command TxFramesCtrlReq process completed
0:41:35.190118	LOG	Check previous uplink data rate process starts
0:41:35.194622	LOG	Uplink received with expected Data Rate
0:41:35.198626	LOG	Send Test Command TxFramesCtrlReq process starts
0:41:40.054124	LOG	First uplink received. Open reception window.
0:41:40.164398	LOG	PUSH_ACK: 02 19e6 01
0:41:40.166367	LOG	GPS Time from gateway: 1385118548659
0:41:40.167366	LOG	PUSH_DATA: Protocol version = 02, Token = 19e6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 117837483, 'time': '2023-11-27T11:08:49.659635Z', 'tmms': 1385118548659, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3247, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAAggC7uGlVK46FCD1dmc='}]}
0:41:40.169379	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0802, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 20f57667)
0:41:40.170366	LOG	Server <-------------------- DUT
0:41:40.172367	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04d5, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 6294ddf9)
0:41:40.174366	LOG	Frame command sent to the DUT
0:41:40.175366	LOG	PULL_RESP: Protocol version = 02, Token = dce0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 118837483, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA1QTgJpskJVQkmSz4TAsitasB8yTPMq8rP+X+JJcm/WWOteBhrfhNhnXQGT42fImWXQXSjzpH9t2vz4eYGZZnjcrb5WObSd+AKVX2eCt4onAnUe/nIUJD+5m0SsF15znviZbhxugvYSSncTrTdiian/NEGuC/qrsdGjjeDOM31pVcXX9g1tuq89LTxHMinq89pCkH99cirMvkI35C2Je2FDe2Fnc6YoC3l4Z6ipTVRLDUCg29bEMaNvw8u8WNHD7SkzBXORhy+BHhs7yHjwiMf5kVlg1ma7zCMImFDX0aiDkOpFj2xQBWsOe4lhI14l6D41iX+ZRilN35'}}
0:41:40.176371	LOG	Server --------------------> DUT
0:41:40.179373	LOG	Send Test Command TxFramesCtrlReq process completed
0:41:40.182371	LOG	Check previous uplink data rate process starts
0:41:40.187370	LOG	Uplink received with expected Data Rate
0:41:40.190369	LOG	Send Test Command TxFramesCtrlReq process starts
0:41:41.228895	LOG	GPS Time updated: 1385118549834
0:41:41.230895	LOG	PULL_DATA: 02 2877 02 0016c001ff1025bf
0:41:41.231863	LOG	PULL_ACK: 02 2877 04
0:41:45.057292	LOG	First uplink received. Open reception window.
0:41:45.162429	LOG	PUSH_ACK: 02 afbe 01
0:41:45.163425	LOG	GPS Time from gateway: 1385118553659
0:41:45.165638	LOG	PUSH_DATA: Protocol version = 02, Token = afbe, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 122837230, 'time': '2023-11-27T11:08:54.659383Z', 'tmms': 1385118553659, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.8, 'foff': -3247, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAAwgCV1VpbFouiP/4DUY='}]}
0:41:45.166639	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0803, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fff80d46)
0:41:45.168637	LOG	Server <-------------------- DUT
0:41:45.170606	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04d6, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: eace7c29)
0:41:45.171637	LOG	Frame command sent to the DUT

0:41:45.173637	LOG	PULL_RESP: Protocol version = 02, Token = f918, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 123837230, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA1gTgYGRivrnO1ddAp2llG2WWDaySaxN6KM+Dt5eJbFd2/cQdDohf8YJlShrycwSA0qZMjzd4ds0d/OZhdu/YitQ24Vq3beSPTeCWJ7hudYkF+ThopUwytbzYOLYDkM6tKk2xJ8avGRB5G0m758sKJAHR+ytiKk4fozbj4y6+7dOasKADei+XDDQQgLrGKtGYuO5ndiVQYJr/R3u0j8YPEwwSsS64a3dAiO7+yHsBQ+8CbxvXioe0bt60r+XW/RI/eSfvakF6TcrLIBqyCrdtl9nFmrOO2Y7BgJ+pn0v9SJdv+GpFiUm5MNryIrAauih6t2jkTg/qznwp'}}
0:41:45.174637	LOG	Server --------------------> DUT
0:41:45.177623	LOG	Send Test Command TxFramesCtrlReq process completed
0:41:45.180619	LOG	Check previous uplink data rate process starts
0:41:45.184618	LOG	Uplink received with expected Data Rate
0:41:45.188610	LOG	Send Test Command TxFramesCtrlReq process starts
0:41:50.057644	LOG	First uplink received. Open reception window.
0:41:50.163189	LOG	PUSH_ACK: 02 2feb 01
0:41:50.164698	LOG	GPS Time from gateway: 1385118558658
0:41:50.166699	LOG	PUSH_DATA: Protocol version = 02, Token = 2feb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 127836969, 'time': '2023-11-27T11:08:59.659121Z', 'tmms': 1385118558658, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 15.0, 'foff': -3247, 'rssi': -51, 'size': 20, 'data': 'QAAAAACABAgC1LrJUjArrlvhp18='}]}
0:41:50.167698	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0804, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5be1a75f)
0:41:50.168698	LOG	Server <-------------------- DUT
0:41:50.170698	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04d7, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 4178b37f)
0:41:50.172698	LOG	Frame command sent to the DUT
0:41:50.173698	LOG	PULL_RESP: Protocol version = 02, Token = 4a93, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 128836969, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA1wTgAL9+CuT7S5OGWUKxjKQOEwSSx5mbQTIt1dVrvSH/c7H5QG9Eg7eAu0ZyKMggK9L37gFAcxitGy8aEMOXTMD3DADsFoE0f88SPiudTOHnSFsQHydugxxvZ1khPZzkEpGQnTeeC2D4H1jWeqjPGqzI2rHiSqXyxl+tlWB10yJUOtbhZqRFOez3NvCCBYVkH91/zlg3g1YAJM1zY9NdrdAb4X2B9ZpLpnQYbRWyDw9XDPeB27vme5mLGwf5N9kDv24nFz4/1ZJq7EQz59AHXICWnYUYMNydYX6JlhRNHGY9qXdxvJwCRsQ5m3cfg3UGZj7P8N5BeLN/'}}
0:41:50.175699	LOG	Server --------------------> DUT
0:41:50.178697	LOG	Send Test Command TxFramesCtrlReq process completed
0:41:50.181306	LOG	Check previous uplink data rate process starts
0:41:50.185575	LOG	Uplink received with expected Data Rate
0:41:50.188587	LOG	Send Test Command TxFramesCtrlReq process starts
0:41:51.429362	LOG	GPS Time updated: 1385118560030
0:41:51.430876	LOG	PULL_DATA: 02 0ca7 02 0016c001ff1025bf
0:41:51.433084	LOG	PULL_ACK: 02 0ca7 04
0:41:55.049410	LOG	First uplink received. Open reception window.
0:41:55.158375	LOG	PUSH_ACK: 02 c453 01

0:41:55.160376	LOG	GPS Time from gateway: 1385118563658
0:41:55.161345	LOG	PUSH_DATA: Protocol version = 02, Token = c453, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 132836700, 'time': '2023-11-27T11:09:04.658851Z', 'tmms': 1385118563658, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.8, 'foff': -3247, 'rssi': -51, 'size': 20, 'data': 'QAAAAACABQgCDkHMw5BlYUQwzJk='}]}
0:41:55.163345	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0805, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4430cc99)
0:41:55.164466	LOG	Server <-------------------- DUT
0:41:55.166431	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04d8, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: abddf092)
0:41:55.169432	LOG	Frame command sent to the DUT
0:41:55.170431	LOG	PULL_RESP: Protocol version = 02, Token = 80ff, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 133836700, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA2ATgT+lK1XqtczqfeGucYrfP+fLqiX0bNbVwimuCW4Rz84u0HeIvGL64Ty9unAcfO4iFqxZHDm1n6UDc3Jf0azeaq4tHBgkpOxww3SjE6WVfeGGgRatyqUav0gMH4aN8DG3x+kgHwLqVOjKSM4370VnFFQbz6HFZA23z0zBMdo9QrnAxxYGlTr6hZt1GY43oFTPzf5LHQjlf8/yndrbLyhmeP7c1Oi31v14rWKK2iJ7Gu/CTnAH4oB78GVhjEy9Ood1Ex+Csgx7gfIcdi1/4uteeZKC5WtZnH/0dVEPfLa2mkMpNy/RH4peu8gdy545rxeav8ISr3fCS'}}
0:41:55.172431	LOG	Server --------------------> DUT
0:41:55.174430	LOG	Send Test Command TxFramesCtrlReq process completed
0:41:55.177431	LOG	Check previous uplink data rate process starts
0:41:55.182447	LOG	Uplink received with expected Data Rate
0:41:55.185435	LOG	Send Test Command TxFramesCtrlReq process starts
0:42:00.058483	LOG	First uplink received. Open reception window.
0:42:00.161388	LOG	PUSH_ACK: 02 e6fa 01
0:42:00.163356	LOG	GPS Time from gateway: 1385118568658
0:42:00.164865	LOG	PUSH_DATA: Protocol version = 02, Token = e6fa, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 137836446, 'time': '2023-11-27T11:09:09.658596Z', 'tmms': 1385118568658, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.8, 'foff': -3247, 'rssi': -51, 'size': 20, 'data': 'QAAAAACABggC6MtpjkFGVJFrft4='}]}
0:42:00.165864	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0806, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 916b7ede)
0:42:00.167878	LOG	Server <-------------------- DUT
0:42:00.169864	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04d9, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: b0d342a5)
0:42:00.170864	LOG	Frame command sent to the DUT

0:42:00.172864	LOG	PULL_RESP: Protocol version = 02, Token = 78d1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 138836446, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA2QTgZB84M1ha8TDvUzyTkidTEHmAF2c6uJVzTtzpZwxd/ENFz8GmCEQIrlKs58NN8UgI4Qki/5q5YW5eD5t7rly4Ay83tZip1aTKosw08Af+OYEhYidyFe90ndny/88oj4RrSANhPlSTHqZQQBk2gyk8OWpio/zoPo3If9Kvvnj9qkTqM8hMtxfaQHZMirgqBXWL17WiTMGcUo6LaymKEEEE3ke494eBwffGGNSSnie6ikKSapDshCo62FepuULkS9cYtl5je7mIKQlO7Rq6q8ENo4B5qNGewKH86XWKbv3XNxDPbxF8cFNQmzJX68kg4TsfkJSw00Kl'}}
0:42:00.173864	LOG	Server --------------------> DUT
0:42:00.176865	LOG	Send Test Command TxFramesCtrlReq process completed
0:42:00.178863	LOG	Check previous uplink data rate process starts
0:42:00.183867	LOG	Uplink received with expected Data Rate
0:42:00.186868	LOG	Send Test Command TxFramesCtrlReq process starts
0:42:01.638704	LOG	GPS Time updated: 1385118570238
0:42:01.640705	LOG	PULL_DATA: 02 7b2a 02 0016c001ff1025bf
0:42:01.641708	LOG	PULL_ACK: 02 7b2a 04
0:42:05.052896	LOG	First uplink received. Open reception window.
0:42:05.160263	LOG	PUSH_ACK: 02 252c 01
0:42:05.162230	LOG	GPS Time from gateway: 1385118573658
0:42:05.163734	LOG	PUSH_DATA: Protocol version = 02, Token = 252c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 142836181, 'time': '2023-11-27T11:09:14.658330Z', 'tmms': 1385118573658, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3247, 'rssi': -51, 'size': 20, 'data': 'QAAAAACABwgC8sq/uel0lPHpR7M='}]}
0:42:05.164738	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0807, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f1e947b3)
0:42:05.166739	LOG	Server <-------------------- DUT
0:42:05.168739	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04da, FOpts:), FPort: e0, FRMPayload: 0700010), MIC: cae4428d)
0:42:05.169739	LOG	Frame command sent to the DUT
0:42:05.170738	LOG	PULL_RESP: Protocol version = 02, Token = f78e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 143836181, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA2gTgJFTSYsOEv6saQT7yxLMfM0oR0mZqymsC4NSvFRims7iToOOPpB6o+LJExRTMIkNjm7nhoaCTWskU5PlcTzjtbdcvAlA46Cf63GIQz/3grj2y1puBfgko0NZFffQqKxYKQtnbVymwuSFzwX6eje8kPyKPjqXYJCZRspM2ofyO5OmcN59VE0Wjg2ZceTaVLJczEqc4pp8vkAy07rT1c3HzQUF9SF6mm2QhVioMdtPAh66J5cwzFihMSGiIrecj9/RIcATV81d5po2RiKZ8o+RetcRQAeCWP8cPytBWQ/NiJdjiY5jFQle8PCxOBuEagMvFlgfK5EKN'}}
0:42:05.172739	LOG	Server --------------------> DUT
0:42:05.174739	LOG	Send Test Command TxFramesCtrlReq process completed
0:42:05.178789	LOG	Check previous uplink data rate process starts
0:42:05.182778	LOG	Uplink received with expected Data Rate
0:42:05.186778	LOG	Send Test Command TxFramesCtrlReq process starts
0:42:10.057530	LOG	First uplink received. Open reception window.
0:42:10.166653	LOG	PUSH_ACK: 02 fdae 01

0:42:10.168621	LOG	GPS Time from gateway: 1385118578657
0:42:10.169621	LOG	PUSH_DATA: Protocol version = 02, Token = fdae, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 147835926, 'time': '2023-11-27T11:09:19.658073Z', 'tmms': 1385118578657, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.8, 'foff': -3278, 'rssi': -51, 'size': 20, 'data': 'QAAAAACACAgCGVb+YAxQGRjkSeE='}]}
0:42:10.171622	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0808, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 18e449e1)
0:42:10.173621	LOG	Server <-------------------- DUT
0:42:10.175621	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04db, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 9354a57a)
0:42:10.176620	LOG	Frame command sent to the DUT
0:42:10.178621	LOG	PULL_RESP: Protocol version = 02, Token = c0b9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 148835926, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA2wTgSv+IPFDYL08d6pbbbLxbYtLD+bvY43VWNIIGL7xmHvj4Trv/WlX3uVrRITHreo2UjfcaYWOq+SRei+KaxhZqEFVtAXsyRGfIN3biwpMH2V7H2eU2S1M6BAQfDtRIpKnKdDl0U9kaP3bn25DYR1wHxGO5u+FDYlCyID12290gY6SSmCDCXi6YmrMp8xQVIQ29N45lRD9om2VTof4smsl17RGuKL/D6emQP3Klp4Xg90mexgDH/xwResrWlzyj/FUIu2D5MHOmiJP+w6Q0LubB0ij0JBZozWRT4IPR2HNP+NEZ0vIl/Nnz8IO5iGYv/Eleer+TVKV6'}}
0:42:10.179621	LOG	Server --------------------> DUT
0:42:10.182631	LOG	Send Test Command TxFramesCtrlReq process completed
0:42:10.185659	LOG	Check previous uplink data rate process starts
0:42:10.190626	LOG	Uplink received with expected Data Rate
0:42:10.193696	LOG	Send Test Command TxFramesCtrlReq process starts
0:42:11.649091	LOG	GPS Time updated: 1385118580249
0:42:11.650091	LOG	PULL_DATA: 02 4d14 02 0016c001ff1025bf
0:42:11.652095	LOG	PULL_ACK: 02 4d14 04
0:42:15.047552	LOG	#***************************CURRENT BEACON SENT***************************#
0:42:15.049566	LOG	PULL_RESP: Protocol version = 02, Token = 8997, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385118592000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAO49SfZkAAAAAAAAAAA='}}
0:42:15.050554	LOG	Server --------------------> DUT
0:42:15.052526	LOG	#**#
0:42:15.062594	LOG	#***************************NEXT BEACON QUEUED***************************#
0:42:15.064566	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385118720000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAPI9S1cEAAAAAAAAAAA='}}
0:42:15.065594	LOG	Server --------------------> DUT
0:42:15.066597	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 003c8f52, CRC1: d5c1, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385118720000

0:42:15.068595	LOG	#**#
0:42:15.069594	LOG	Next BEACON scheduled at GPS time (ms): 1385118848000
0:42:15.070712	LOG	First uplink received. Open reception window.
0:42:15.072681	LOG	TX_ACK: 02 8997 05 0016c001ff1025bf
0:42:15.178519	LOG	PUSH_ACK: 02 cfff 01
0:42:15.183529	LOG	GPS Time from gateway: 1385118583657
0:42:15.188529	LOG	PUSH_DATA: Protocol version = 02, Token = cfff, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 152835664, 'time': '2023-11-27T11:09:24.657812Z', 'tmms': 1385118583657, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3247, 'rssi': -51, 'size': 20, 'data': 'QAAAAACACQgCSGECWDXb78PnPmM='}]}
0:42:15.192529	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0809, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c3e73e63)
0:42:15.195123	LOG	Server <-------------------- DUT
0:42:15.199137	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04dc, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 6f6b6dae)
0:42:15.202169	LOG	Frame command sent to the DUT
0:42:15.205171	LOG	PULL_RESP: Protocol version = 02, Token = 4e88, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 153835664, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA3ATgDXlyPsVsedWC1EQY6/9n1/2dhs0Ld6QjFbWNoyUAbukLFFMFkt02lCe1LSvtUZcruy3SawTVhNJdyCKqHD9QnSRoItGk5aaNA7lBX+okN9wnSKsn0Kw1mQ5mdCZE2qzsei+SVNk7F+aIp1gXEuQnILm5obOxvO/eqyYIPFH42XNzWqSnViBNn/7M3DnWVvZdyb94d0SlwfGu/0O7n1iLLvaiApc8ejiyPZCNww45kbLSHNPvkucb1gxQOFaV48rUHnn6tgztskJCLPw148D3BxMVEkk7s9NPYbWKJYyUnFnpB0rC27K6mgIDJ/W8lBXfEd9va22u'}}
0:42:15.207167	LOG	Server --------------------> DUT
0:42:15.211171	LOG	Send Test Command TxFramesCtrlReq process completed
0:42:15.214176	LOG	Check previous uplink data rate process starts
0:42:15.220209	LOG	Uplink received with expected Data Rate
0:42:15.224182	LOG	Send Test Command TxFramesCtrlReq process starts
0:42:20.050613	LOG	First uplink received. Open reception window.
0:42:20.166825	LOG	PUSH_ACK: 02 c250 01
0:42:20.168784	LOG	GPS Time from gateway: 1385118588657
0:42:20.169785	LOG	PUSH_DATA: Protocol version = 02, Token = c250, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 157835411, 'time': '2023-11-27T11:09:29.657558Z', 'tmms': 1385118588657, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3247, 'rssi': -51, 'size': 20, 'data': 'QAAAAACACggCw/KlHIMzzHMltSo='}]}
0:42:20.171787	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 080a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7325b52a)
0:42:20.172824	LOG	Server <-------------------- DUT
0:42:20.174786	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04dd, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101

		10101010101010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 9ba379b9)
0:42:20.176786	LOG	Frame command sent to the DUT
0:42:20.177786	LOG	PULL_RESP: Protocol version = 02, Token = 32c8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 158835411, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA3QTgW9GfKh/c/Wk3+q1APgenS5+Aquh1tP/dIIpESFEObes6qdWjww9R/ST5zRMppFGiN+UIVow80C2CYa1eOQzpUrFyshP1XhFvQIWwh5ST3xhdPWnaQlWSccu0Jgr6Yf8ljP14G7s0zsPl19WZXjg4SuWX4kOF5HgcaIGBK+dNpVrpslqSJ7Llpp/sFad//cEb3xcWURmEj4b6wSZDoAF3jaRWQV8MHO+G5I8JqhJvaFujhuxOMYrTn+RW2B4K45b4s8wNG6d+CKVMbf/nt0zHQrc2YGSG0rTEpvSmsGHqEJxXpGGEXnaJY4ySKRHn29o+GFWbo3m5'}}
0:42:20.179786	LOG	Server --------------------> DUT
0:42:20.182791	LOG	Send Test Command TxFramesCtrlReq process completed
0:42:20.184790	LOG	Check previous uplink data rate process starts
0:42:20.189791	LOG	Uplink received with expected Data Rate
0:42:20.192790	LOG	Send Test Command TxFramesCtrlReq process starts
0:42:21.858633	LOG	GPS Time updated: 1385118590465
0:42:21.860630	LOG	PULL_DATA: 02 0cdb 02 0016c001ff1025bf
0:42:21.861629	LOG	PULL_ACK: 02 0cdb 04
0:42:25.054460	LOG	First uplink received. Open reception window.
0:42:25.169437	LOG	PUSH_ACK: 02 3734 01
0:42:25.171438	LOG	GPS Time from gateway: 1385118593657
0:42:25.172440	LOG	PUSH_DATA: Protocol version = 02, Token = 3734, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 162835156, 'time': '2023-11-27T11:09:34.657302Z', 'tmms': 1385118593657, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3247, 'rssi': -51, 'size': 20, 'data': 'QAAAAACACwgC68TH5f0jk6qpHvY='}]}
0:42:25.174440	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 080b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: aaa91ef6)
0:42:25.176440	LOG	Server <-------------------- DUT
0:42:25.177440	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04de, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 1115f4c6)
0:42:25.179439	LOG	Frame command sent to the DUT
0:42:25.180444	LOG	PULL_RESP: Protocol version = 02, Token = c9ef, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 163835156, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA3gTgmnSQ6+KcOK8bD17qDEixhOrPz+DC5pGAkNufCSYvLht2NOAoPY1nsxRX/G22x8i6Qa8E3oL51w3S/sZJvgDvshN8rW7/svDHVx92XuCfblHDV+vma+xwA7nCHr8rltzzEWmxq26q8uYJlGBX9ZS3K+XashGpy+FQry16jaCSyah13RDHt86H6YT9wLW8ybc1wLt+HY2kCcpd76iBBy78t7FY8dadPK+T1yTV0cDdjd5sIBNX6NtB6YMl45v/RXkBshFD6u5qPleYYfT0lrKh/P7nf+mdr4ij7X632x0ZtcQ3dM7u9Hp35jQbvsvL+CeZuOMRFfTG'}}
0:42:25.182444	LOG	Server --------------------> DUT

0:42:25.185445	LOG	Send Test Command TxFramesCtrlReq process completed
0:42:25.187444	LOG	Check previous uplink data rate process starts
0:42:25.192448	LOG	Uplink received with expected Data Rate
0:42:25.195959	LOG	Send Test Command TxFramesCtrlReq process starts
0:42:30.047209	LOG	First uplink received. Open reception window.
0:42:30.149595	LOG	PUSH_ACK: 02 f271 01
0:42:30.151564	LOG	GPS Time from gateway: 1385118598656
0:42:30.152594	LOG	PUSH_DATA: Protocol version = 02, Token = f271, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 167834899, 'time': '2023-11-27T11:09:39.657044Z', 'tmms': 1385118598656, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3247, 'rssi': -51, 'size': 20, 'data': 'QAAAAACADAgC5haXwYs/HeDzcEs='}]}
0:42:30.154564	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 080c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e0f3704b)
0:42:30.156571	LOG	Server <-------------------- DUT
0:42:30.158569	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04df, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 5824694f)
0:42:30.160571	LOG	Frame command sent to the DUT
0:42:30.161570	LOG	PULL_RESP: Protocol version = 02, Token = 5a32, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 168834899, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA3wTgIe99a3/l8h/Vubx+aPnDqZHdJJ8RRsORwbPa9zlr5OwAlT2wqrs9XJZBcSMWc79Wnd0Z0QB3MY2icEc5AwMlksPsgkEL8zL3eKYDi3jLfikD7EQh+D7AvZ3fCrOgIf8h95TJ4Oa+fOOn8pTF+sb7SlgQVVpXwD0ayjl7nZLGLA4S5CodnRICwQB3WyN7p3tsmjFVbjZYfkojaVcUqhv8A5xSAo1o5kz0N//Rd9DvlZDIQ5mNnWgxgt83WEytu5vOdXzLaz3Pu3sTyg2dgbz3kVMVQJwZSPyaQ6jmtb/lzNTWzB/X3AjHDgju0+DFSIxhbq9YJGlP'}}
0:42:30.162602	LOG	Server --------------------> DUT
0:42:30.165703	LOG	Send Test Command TxFramesCtrlReq process completed
0:42:30.168736	LOG	Check previous uplink data rate process starts
0:42:30.173714	LOG	Uplink received with expected Data Rate
0:42:30.176746	LOG	Send Test Command TxFramesCtrlReq process starts
0:42:32.049497	LOG	GPS Time updated: 1385118600658
0:42:32.051145	LOG	PULL_DATA: 02 bd21 02 0016c001ff1025bf
0:42:32.052661	LOG	PULL_ACK: 02 bd21 04
0:42:35.049026	LOG	First uplink received. Open reception window.
0:42:35.151510	LOG	PUSH_ACK: 02 5cc9 01
0:42:35.153510	LOG	GPS Time from gateway: 1385118603656
0:42:35.154509	LOG	PUSH_DATA: Protocol version = 02, Token = 5cc9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 172834633, 'time': '2023-11-27T11:09:44.656777Z', 'tmms': 1385118603656, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 15.0, 'foff': -3247, 'rssi': -51, 'size': 20, 'data': 'QAAAAACADQgC6H0/UIQ+53132kk='}]}
0:42:35.156478	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 080d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7d77da49)
0:42:35.157517	LOG	Server <-------------------- DUT
0:42:35.159530	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04e0, FOpts:), FPort: e0, FRMPayload:

		070001), MIC: 3359034e)
0:42:35.161516	LOG	Frame command sent to the DUT
0:42:35.162517	LOG	PULL_RESP: Protocol version = 02, Token = a591, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 173834633, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA4ATgt8UN2Gru61quZrHtZ3NAAMPWdvaf1S9c2Bv3kwvvUBalW6fOA4LzhR9RyiJKvZkdB7FNcu+HIxK4XepzinYMylRXs9ksO8IJFh7urwam0T9qydbyVM2k5T2uzoCuJnT9sZjL7qLtZJG9vXD0FxS49PCQXc/j/D4wcMRnAInqVLNXyzt6MGYepwGIAjmnsAV6oMARw3av9fIElz18Gv4wNJK6fpxd+Qug+kphsD2jpHGse3BN5R76Tl1/K8vDWSJ0dmAxrAIHSZ8aZ1319ilVz1vtQu1bqyEdEjxP+Zolxs7C/AsXr1MZJnK859KCcbmWKRozWQNO'}}
0:42:35.164653	LOG	Server --------------------> DUT
0:42:35.167624	LOG	Send Test Command TxFramesCtrlReq process completed
0:42:35.170620	LOG	Check previous uplink data rate process starts
0:42:35.174619	LOG	Uplink received with expected Data Rate
0:42:35.178621	LOG	Send Test Command TxFramesCtrlReq process starts
0:42:40.046378	LOG	First uplink received. Open reception window.
0:42:40.151876	LOG	PUSH_ACK: 02 c820 01
0:42:40.153384	LOG	GPS Time from gateway: 1385118608656
0:42:40.155385	LOG	PUSH_DATA: Protocol version = 02, Token = c820, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 177834383, 'time': '2023-11-27T11:09:49.656525Z', 'tmms': 1385118608656, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3247, 'rssi': -50, 'size': 20, 'data': 'QAAAAACADggCvVfDsaKBEfW3GbU='}]}
0:42:40.156384	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 080e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f5b719b5)
0:42:40.158389	LOG	Server <-------------------- DUT
0:42:40.160394	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04e1, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 78171244)
0:42:40.162393	LOG	Frame command sent to the DUT
0:42:40.163899	LOG	PULL_RESP: Protocol version = 02, Token = b5e3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 178834383, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA4QTgaHykPqcTyFt+o56W9J1QLXaOMuRoV9klyWDrpoTIsjSX9oxjYu0xM4AvD0cDeWCl7OA4NOC6mohBxclXuzKfOZrdi6NKu7Bmpq5W3fb41YlO23n8DaAGocWNBn0yTPH6JtEEJ+lg1S81qJuRFxF3aE5vMYLndGTUI0OYFa7XyLjQi9VWld9oklTDc5xIYHp3NteAIPvG2k8UtjIDojqJU5LxU+utKU/h2kGRw1554Ma2cSaP35AEPt2BEfGHCSWCDbevmRjO3Jc1QUKASS6BK5RkXD1qkAqAbEUO6IaILsQxwm/a7gN9WQONp9BVCY62xY54FxJE'}}
0:42:40.164906	LOG	Server --------------------> DUT
0:42:40.168908	LOG	Send Test Command TxFramesCtrlReq process completed

0:42:40.170938	LOG	Check previous uplink data rate process starts
0:42:40.175907	LOG	Uplink received with expected Data Rate
0:42:40.178939	LOG	Send Test Command TxFramesCtrlReq process starts
0:42:42.258277	LOG	GPS Time updated: 1385118610868
0:42:42.260282	LOG	PULL_DATA: 02 1cb7 02 0016c001ff1025bf
0:42:42.261279	LOG	PULL_ACK: 02 1cb7 04
0:42:45.047618	LOG	First uplink received. Open reception window.
0:42:45.154403	LOG	PUSH_ACK: 02 d102 01
0:42:45.156404	LOG	GPS Time from gateway: 1385118613656
0:42:45.157914	LOG	PUSH_DATA: Protocol version = 02, Token = d102, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 182834111, 'time': '2023-11-27T11:09:54.656254Z', 'tmms': 1385118613656, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.8, 'foff': -3278, 'rssi': -51, 'size': 20, 'data': 'QAAAAACADwgCy+5hNp16Y33rYn4='}]}
0:42:45.158916	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 080f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7deb627e)
0:42:45.160954	LOG	Server <-------------------- DUT
0:42:45.161947	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04e2, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 4726d1fd)
0:42:45.164492	LOG	Frame command sent to the DUT
0:42:45.165492	LOG	PULL_RESP: Protocol version = 02, Token = 1dff, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 183834111, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA4gTgY7yIeIBZdqLgVfk+IWjdWp//EJI+JVKDQ/cVEK6iMyCKL1DmAeIUjF+TL1qm+O4l32FfV8xDHNCS3kUKYUknT97i69wk4ohaLc0fX0SmciV976wVvyVv87rGG8sMAUA7+VKcC0/ooUQlVHRGrZLkNeYad8H2j8Ga/1/rKhMb6xPO8MLRLfIjo1zPGe5gXBhMXEqaoybOJhFkQmujgcBEuEFAuIGi4GcT0MFmLcyOfu6y9rpmS6aCtCTr+L2if/aubGhLL+rhMwSAD36oM2acJY08nOd/JsYtizZii+wiA9yQ6Sxs/evxpcfI+aJ4IyTyNvBHJtH9'}}
0:42:45.167493	LOG	Server --------------------> DUT
0:42:45.170492	LOG	Send Test Command TxFramesCtrlReq process completed
0:42:45.173524	LOG	Check previous uplink data rate process starts
0:42:45.177524	LOG	Uplink received with expected Data Rate
0:42:45.181501	LOG	Send Test Command TxFramesCtrlReq process starts
0:42:50.052734	LOG	First uplink received. Open reception window.
0:42:50.153428	LOG	PUSH_ACK: 02 b24d 01
0:42:50.155396	LOG	GPS Time from gateway: 1385118618655
0:42:50.156395	LOG	PUSH_DATA: Protocol version = 02, Token = b24d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 187833857, 'time': '2023-11-27T11:09:59.655999Z', 'tmms': 1385118618655, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 15.0, 'foff': -3278, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAEAgCsKFlid2kb9TG90c='}]}
0:42:50.158396	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0810, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d4c6f747)
0:42:50.159395	LOG	Server <-------------------- DUT
0:42:50.162430	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04e3, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010101010101010

		10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: c8190752)
0:42:50.163506	LOG	Frame command sent to the DUT
0:42:50.165513	LOG	PULL_RESP: Protocol version = 02, Token = 3866, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 188833857, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA4wTgj4vd+zGhC6bxcsIAAL2sejNyYZ5GbX54DhpMtmXdJIQMDmF+Q0OlWNVTRSVBUMT10vyRo64PdKjA+6OUO7hcuF3JmFqTYPrPECIb3TlId5UnFzr6SxXvbkbhYBbsPCXgMFpI5brY9tCTFboFZ1H8TZCDVKCZIWGmIE+NB9pzHrgkNFZvM1Y5VNIDMMeGUSTpw/Cx5qbrehZiJhlExXUGIvvZbNZ8BTJrRIGfodDgeh6bz18Qv0Mt4YL4L4ZZIRC/5ZrLdz97qfHDh0qTRf5uXB5mng1Vc5n3G4hfM/fRzZWO8s/l0PgCKbqsML9nSoBFryXIGQdS'}}
0:42:50.166511	LOG	Server ----------> DUT
0:42:50.170512	LOG	Send Test Command TxFramesCtrlReq process completed
0:42:50.172511	LOG	Check previous uplink data rate process starts
0:42:50.177512	LOG	Uplink received with expected Data Rate
0:42:50.180516	LOG	Send Test Command TxFramesCtrlReq process starts
0:42:52.268895	LOG	GPS Time updated: 1385118620871
0:42:52.269925	LOG	PULL_DATA: 02 2cd7 02 0016c001ff1025bf
0:42:52.271922	LOG	PULL_ACK: 02 2cd7 04
0:42:55.046176	LOG	First uplink received. Open reception window.
0:42:55.156121	LOG	PUSH_ACK: 02 7929 01
0:42:55.158123	LOG	GPS Time from gateway: 1385118623655
0:42:55.160130	LOG	PUSH_DATA: Protocol version = 02, Token = 7929, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 192833597, 'time': '2023-11-27T11:10:04.655738Z', 'tmms': 1385118623655, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.8, 'foff': -3278, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAEQgCCrpGFscwop630jk='}]}
0:42:55.162134	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0811, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9eb7d239)
0:42:55.162134	LOG	Server <---------- DUT
0:42:55.165682	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04e4, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 8d62c630)
0:42:55.166677	LOG	Frame command sent to the DUT
0:42:55.169225	LOG	PULL_RESP: Protocol version = 02, Token = 00a9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 193833597, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA5ATgAc/ABVFYRwamre7nnY4eFUINUtJeN0h0PUAxxreeCW8InkfdEJuYikRzr31g2cXspH7byzOhAFGXoUkur6624OGn8EeOOHVWqE3CwMKn4WHvVqbQFQKevnYIqSeCcbyy59QlnSUsr2XpftrcT7prFRnMAa/DUxxSDksc9a7tI4Xe/LJpNGBX3CnRjLeRSqGVf9zkDIBWgYkULCj4Gq7BDxL4rpxMwuHFVI7

		XLrYLMp+IIAEQNHO+iQI6vA4RQDMDZCPFPx0MTa1FahNR1MHrYcRpZnznUTZZQdKYLUTtXHOZPH+KzCEuIYlmiKA7dtWSnV6NYsYw'}}
0:42:55.170221	LOG	Server --------------------> DUT
0:42:55.174190	LOG	Send Test Command TxFramesCtrlReq process completed
0:42:55.177190	LOG	Check previous uplink data rate process starts
0:42:55.181244	LOG	Uplink received with expected Data Rate
0:42:55.184224	LOG	Send Test Command TxFramesCtrlReq process starts
0:43:00.052954	LOG	First uplink received. Open reception window.
0:43:00.166106	LOG	PUSH_ACK: 02 3e55 01
0:43:00.168072	LOG	GPS Time from gateway: 1385118628655
0:43:00.169072	LOG	PUSH_DATA: Protocol version = 02, Token = 3e55, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 197833340, 'time': '2023-11-27T11:10:09.655480Z', 'tmms': 1385118628655, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3278, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAEggCw/45ij9Uq491OA8='}]}
0:43:00.171072	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0812, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8f75380f)
0:43:00.172072	LOG	Server <-------------------- DUT
0:43:00.173576	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04e5, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 6031cde0)
0:43:00.175582	LOG	Frame command sent to the DUT
0:43:00.176582	LOG	PULL_RESP: Protocol version = 02, Token = 8977, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 198833340, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA5QTgkloDPbsj4FWY4FiolStacqMOljwDaQk8dBvLpxitiLezOcChikM76TFlWctDJP2REjvQ+pBHrFWhEgsO9+qndz7YCQtgJLGPOf65iEj9h3sA2tuaqUKiLvqW2zfb4JqHv2i/xO0+C+5EClLUhPpm2T4JZQQkCqZzMbzLxAefpmkmhuXojmCx7kqC8t+wqXnuyv8DzxB+2MpjxIhiP16g5ilBk8FkM4JGxubLHK5lXx2Q+xbXHU6u+gB/HKBsmvp+1L6gOWvHW1t1ezyo3tVzGAHDytftPPYdVJMqVtyk6b9JjE1fAFNXqigxFfbJLH3XkjlgMc3g'}}
0:43:00.178582	LOG	Server --------------------> DUT
0:43:00.180586	LOG	Send Test Command TxFramesCtrlReq process completed
0:43:00.183623	LOG	Check previous uplink data rate process starts
0:43:00.188605	LOG	Uplink received with expected Data Rate
0:43:00.191642	LOG	Send Test Command TxFramesCtrlReq process starts
0:43:02.278705	LOG	GPS Time updated: 1385118630880
0:43:02.279738	LOG	PULL_DATA: 02 c500 02 0016c001ff1025bf
0:43:02.281703	LOG	PULL_ACK: 02 c500 04
0:43:05.044608	LOG	First uplink received. Open reception window.
0:43:05.154660	LOG	PUSH_ACK: 02 a5d1 01
0:43:05.156626	LOG	GPS Time from gateway: 1385118633654
0:43:05.157624	LOG	PUSH_DATA: Protocol version = 02, Token = a5d1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 202833078, 'time': '2023-11-27T11:10:14.655217Z', 'tmms': 1385118633654, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.8, 'foff': -3278, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAEwgCNdGLGA7zRW5rO/U='}]}
0:43:05.159637	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0813, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6e6b3bf5)

0:43:05.161643	LOG	Server <-------------------- DUT
0:43:05.163642	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04e6, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 9e35047f)
0:43:05.165235	LOG	Frame command sent to the DUT
0:43:05.166219	LOG	PULL_RESP: Protocol version = 02, Token = 18c9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 203833078, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA5gTg2yuUQ5OH82DgPfKQaa7Ow+yw0mGi+HD3EZsWch0qkC/psvRhk31cot9GMnTE97mqRu2BEKaSE5M+O5RNJBFHgEUmbaOyQrCedQdjN9Cecu+Q6m5j4Qbj3BDhexvnjXYjb44xYbxAd1QEFbPa00WJzmZ4UyeysMBVXIIFMo15865dAKeGXx4bEvgWvFCgbpEA6udKxF7IfyiZLfSWlA8EmioRJEsQOGlySht6EYGmK50fifsfd3RYqVfP0c7KDDkQIwFiPaKka+42hLfXVGQOmx2Eae+UxmD/YbeShb/ptTsVO6gaSbqnF5FSk0ToLXf6onueNQR/'}}
0:43:05.168218	LOG	Server --------------------> DUT
0:43:05.171188	LOG	Send Test Command TxFramesCtrlReq process completed
0:43:05.174219	LOG	Check previous uplink data rate process starts
0:43:05.178724	LOG	Uplink received with expected Data Rate
0:43:05.181788	LOG	Send Test Command TxFramesCtrlReq process starts
0:43:10.048775	LOG	First uplink received. Open reception window.
0:43:10.157621	LOG	PUSH_ACK: 02 dbdc 01
0:43:10.159589	LOG	GPS Time from gateway: 1385118638654
0:43:10.160589	LOG	PUSH_DATA: Protocol version = 02, Token = dbdc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 207832821, 'time': '2023-11-27T11:10:19.654958Z', 'tmms': 1385118638654, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.8, 'foff': -3278, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAFAgCvy6Sm5AITqNR764='}]}
0:43:10.162591	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0814, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a351efae)
0:43:10.163597	LOG	Server <-------------------- DUT
0:43:10.166602	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04e7, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: ef15c666)
0:43:10.167601	LOG	Frame command sent to the DUT
0:43:10.169606	LOG	PULL_RESP: Protocol version = 02, Token = 92e9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 208832821, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA5wTgnNi7XI3OxbYz39FoYs+Lfjplr5BEZEEXD6q7bIvtIly6wiQT6DIJrtZhSOEswhvRYS20Ey414SN8ctXfHcnU1iRpCS/TKJtU3vuXXZ5kQEDH5EdKmVdrS3n7+69GKkOp7SzjxixEBvkQLTLvxTrVynL+VSCkeOfIgTt5TYZZEbUYmv7CU657/t3qjsGFnXRi51Pwn6CNpz8ftFzLW6QUEm98jQm7TozQ1Lfwsf0qS

		n6PN8nJPVCqw9KXp3/UXVQUiNiqoZD+BJ/+ZTJXNH5ykZbmwr1ht5la1pbav0h942tUpHReOeOGJ+BlELmP0RL2R6fvFcZm'}}
0:43:10.170605	LOG	Server --------------------> DUT
0:43:10.172606	LOG	Send Test Command TxFramesCtrlReq process completed
0:43:10.175606	LOG	Check previous uplink data rate process starts
0:43:10.180606	LOG	Uplink received with expected Data Rate
0:43:10.184121	LOG	Send Test Command TxFramesCtrlReq process starts
0:43:12.478260	LOG	GPS Time updated: 1385118641084
0:43:12.479261	LOG	PULL_DATA: 02 052e 02 0016c001ff1025bf
0:43:12.481260	LOG	PULL_ACK: 02 052e 04
0:43:15.054949	LOG	First uplink received. Open reception window.
0:43:15.164473	LOG	PUSH_ACK: 02 c2f7 01
0:43:15.166440	LOG	GPS Time from gateway: 1385118643654
0:43:15.167440	LOG	PUSH_DATA: Protocol version = 02, Token = c2f7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 212832562, 'time': '2023-11-27T11:10:24.654700Z', 'tmms': 1385118643654, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3278, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAFQgCnC5DfSD01682BWU='}]}
0:43:15.169441	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0815, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: af360565)
0:43:15.170439	LOG	Server <-------------------- DUT
0:43:15.172444	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04e8, FOpts:), FPort: e0, FRMPayload: 070001), MIC: b65e33e1)
0:43:15.173444	LOG	Frame command sent to the DUT
0:43:15.175444	LOG	PULL_RESP: Protocol version = 02, Token = 5f3d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 213832562, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA6ATg4EdQnhhPR+GUQVXw8665zELaVEdzEQ+4eASYbFmssBaoepjmJl9nf/D5X2xBqeYIFNyKEs2m8q1YDw3tZV95pllp9fv9eIjbLL/DH0OeUzSerhx5wIm6A58WEdQ2jznvKwwaUcbeJOFULISeOlEnbKPSP0dOAuscNkKKadMX9ONp3/ITOQwiQgPjm0OrZeOUBrlG+SmDPpCr8MYueMBCAfXEjfbQIr1C9QtBcoPI70Iq3jUzYnuxpUvO2M4gB+T/8HMmrECPK5P6spbJ9UBDShsBnu6hcaks3ty8YKcQwef84E5COFvzvcsbj+0CJ05Iku62XjPh'}}
0:43:15.176443	LOG	Server --------------------> DUT
0:43:15.179444	LOG	Send Test Command TxFramesCtrlReq process completed
0:43:15.182446	LOG	Check previous uplink data rate process starts
0:43:15.186920	LOG	Uplink received with expected Data Rate
0:43:15.189872	LOG	Send Test Command TxFramesCtrlReq process starts
0:43:20.050544	LOG	First uplink received. Open reception window.
0:43:20.152832	LOG	PUSH_ACK: 02 9f7f 01
0:43:20.154798	LOG	GPS Time from gateway: 1385118648654
0:43:20.155798	LOG	PUSH_DATA: Protocol version = 02, Token = 9f7f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 217832308, 'time': '2023-11-27T11:10:29.654445Z', 'tmms': 1385118648654, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3278, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAFggCX99pIxYjp2seAa0='}]}
0:43:20.157800	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0816, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6b1e01ad)

0:43:20.158806	LOG	Server <-------------------- DUT
0:43:20.160843	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04e9, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 868b5b1e)
0:43:20.161844	LOG	Frame command sent to the DUT
0:43:20.164355	LOG	PULL_RESP: Protocol version = 02, Token = 3607, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 218832308, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA6QTgf976JJntyvCmAExEVmg4KqcpMt7Ocx5YKYrp8lzcTaHB/2aqbyhCRCZSYFJZ6+RT7m8MnOx+XM1KKub1NJF7C/rybXGOJRXmk93awUgTWkFmjufhe3SKGhuROfxBgQ9OoH9mZs2cWJpvaNDZvLpnCPgtdaa5F6cOUEFLGMbuW27M3+YQQz3Veaa6nJVE23lEnkuRzwyj9f175W4syz/7tGVx5c9z9a7awJDncxvQ9YffekWC0oki0DhB5erm1mTViqRSqzbblMzG0KHTzXLM2CgrvTicvjpaYcM7sW4X8RI6m8VOs9aeEu1MRBH9TjjpS1aGi1se'}}
0:43:20.166353	LOG	Server --------------------> DUT
0:43:20.169353	LOG	Send Test Command TxFramesCtrlReq process completed
0:43:20.171352	LOG	Check previous uplink data rate process starts
0:43:20.176354	LOG	Uplink received with expected Data Rate
0:43:20.179393	LOG	Send Test Command TxFramesCtrlReq process starts
0:43:22.687826	LOG	GPS Time updated: 1385118651291
0:43:22.689794	LOG	PULL_DATA: 02 19fb 02 0016c001ff1025bf
0:43:22.690793	LOG	PULL_ACK: 02 19fb 04
0:43:25.049181	LOG	First uplink received. Open reception window.
0:43:25.161397	LOG	PUSH_ACK: 02 49e1 01
0:43:25.163364	LOG	GPS Time from gateway: 1385118653653
0:43:25.164873	LOG	PUSH_DATA: Protocol version = 02, Token = 49e1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 222832055, 'time': '2023-11-27T11:10:34.654191Z', 'tmms': 1385118653653, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3278, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAFwgC7WF2RCpHOttJzNk='}]}
0:43:25.165875	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0817, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: db49ccd9)
0:43:25.167901	LOG	Server <-------------------- DUT
0:43:25.169906	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04ea, FOpts:), FPort: e0, FRMPayload: 070001), MIC: c5030f34)
0:43:25.170907	LOG	Frame command sent to the DUT
0:43:25.172905	LOG	PULL_RESP: Protocol version = 02, Token = e97b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 223832055, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA6gTgSH/8vfbWccmkBEsc4RvsogYII3DJrqYxKXUJ3gSUFEPKM0

		w/9LzhtYjkOGK0/JDJD7UClIk+xGwK0g1Hx6U1BtxmIzg9/kWS//VjR9AWKmD wcsEyCdzkAu8t+YatRWcK00/iEXMFaxHpOaI9VHM4QFAoH7kJwE4UscjTolSZ mg4tBEXc5L7Ejgb9GLmS9tRCTsSaU0igcV2GBNr9R4yFzGYLw7quxWCTKbhx EVKxQmk00rj0lfFPOjvSTyha6puH9BQYwxher0asVXHgyVS95evigb3FQLbLyu T6p2hxJQ9rH2hU5kFP7cY1jCA+sSTyh2PFAw80'}}
0:43:25.173905	LOG	Server ----------> DUT
0:43:25.175917	LOG	Send Test Command TxFramesCtrlReq process completed
0:43:25.178872	LOG	Check previous uplink data rate process starts
0:43:25.183894	LOG	Uplink received with expected Data Rate
0:43:25.186876	LOG	Send Test Command TxFramesCtrlReq process starts
0:43:30.046905	LOG	First uplink received. Open reception window.
0:43:30.155649	LOG	PUSH_ACK: 02 99ed 01
0:43:30.157613	LOG	GPS Time from gateway: 1385118658653
0:43:30.158646	LOG	PUSH_DATA: Protocol version = 02, Token = 99ed, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 227831786, 'time': '2023-11-27T11:10:39.653921Z', 'tmms': 1385118658653, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3278, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAGAgC5CyIQRgjYNnNJuk='}]}
0:43:30.160616	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0818, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d9cd26e9)
0:43:30.161638	LOG	Server <---------- DUT
0:43:30.163648	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04eb, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 101010101010101), MIC: d710eaee)
0:43:30.165771	LOG	Frame command sent to the DUT
0:43:30.167770	LOG	PULL_RESP: Protocol version = 02, Token = 97e5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 228831786, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA6wTgo2wWdF1MjbaHxCuxvJs6K4Lw7gz2TSJo75X2Sd5m+mQ5Q D+oH4LC3M0uQm+yXd13imEckqdgjXmkBNBAQ8tmspig7edK+Rz6gfWi7ptiba oFpaKX+6obHMTpHToPN+CXqy6RStJTspMqzXxezZRlxUwunmqz5RWkFkP9C F2ky/UyCJpq7ipaqHjNAS/bmBEFewXcueuuOd20LE0p81i/SPYU1ngiz7IvqWVd4 vz33qJkmdbpdrXIPSJvebc0B3WZOWPg0K8Itp+aJA422LVBDsjtHgLWNT9ooOl LezHJ5qIwz8sguWiHsxjqo55wR1PszAjXEOru'}}
0:43:30.168769	LOG	Server ----------> DUT
0:43:30.171745	LOG	Send Test Command TxFramesCtrlReq process completed
0:43:30.174738	LOG	Check previous uplink data rate process starts
0:43:30.179735	LOG	Uplink received with expected Data Rate
0:43:30.182740	LOG	Send Test Command TxFramesCtrlReq process starts
0:43:32.898059	LOG	GPS Time updated: 1385118661505
0:43:32.900027	LOG	PULL_DATA: 02 684b 02 0016c001ff1025bf
0:43:32.901027	LOG	PULL_ACK: 02 684b 04
0:43:35.049800	LOG	First uplink received. Open reception window.
0:43:35.160175	LOG	PUSH_ACK: 02 3a94 01
0:43:35.162174	LOG	GPS Time from gateway: 1385118663653
0:43:35.163679	LOG	PUSH_DATA: Protocol version = 02, Token = 3a94, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 232831527, 'time': '2023-11-27T11:10:44.653661Z', 'tmms': 1385118663653, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3278, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAGQgC2MMOftED2g+rWsg='}]}
0:43:35.164685	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0819, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0fab5ac8)
0:43:35.166685	LOG	Server <-------------------- DUT
0:43:35.168683	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04ec, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 685bfa83)
0:43:35.169682	LOG	Frame command sent to the DUT
0:43:35.171684	LOG	PULL_RESP: Protocol version = 02, Token = adab, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 233831527, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA7ATgF0zaolGdA6z169fgnbTQc31VlBMH8jB9EzKupoJ8fV5jN8g WsbFek6Gk3IWoGNSoD21YAQYvLYV7vwveg9xaJ5B7mGOYYa//41jGvp9e0Q qsMFnJQrEtti2wNI/+uxkiM2ixcXFZxSEsmVtOjXw0bfB5TUplT5x0+26OX3Jlbqy CvJ8DBcIele3V5yT0Y54zCVnPsJBZ+yEHmZy+bisyYxyRWGtU55/MxZuC5J11x Wp7ki4rWRX9DUKSDRrF52mW7Vu0PVWjGLkIDm4X/ZISf7YOKO+xJ7vLVC WcIWHNXza0Gz7+SETmMD0CYTEcIfVm99ZoW/qD'}}
0:43:35.172683	LOG	Server --------------------> DUT
0:43:35.175683	LOG	Send Test Command TxFramesCtrlReq process completed
0:43:35.178716	LOG	Check previous uplink data rate process starts
0:43:35.183723	LOG	Uplink received with expected Data Rate
0:43:35.186721	LOG	Send Test Command TxFramesCtrlReq process starts
0:43:40.051627	LOG	First uplink received. Open reception window.
0:43:40.158629	LOG	PUSH_ACK: 02 22b3 01
0:43:40.160598	LOG	GPS Time from gateway: 1385118668653
0:43:40.161597	LOG	PUSH_DATA: Protocol version = 02, Token = 22b3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 237831274, 'time': '2023-11-27T11:10:49.653407Z', 'tmms': 1385118668653, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3278, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAGggCk3jfpabTq+qNsnU='}]}
0:43:40.164103	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 081a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ea8db275)
0:43:40.165109	LOG	Server <-------------------- DUT
0:43:40.167140	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04ed, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: ac063b44)
0:43:40.169141	LOG	Frame command sent to the DUT
0:43:40.171144	LOG	PULL_RESP: Protocol version = 02, Token = 5604, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 238831274, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data':

		'YAAAAAAA7QTgpzYUoHWTm4DJCOoynb/Dc1Rtj0q6BgyR1oxOXInKc1YcAGtqqgnWXS1cslimT5m3rFZQGunyvLfe3m8sgTB7rzFnUVD0GLbkA96OG2OMCjp6UupHg9z4f09BjN/k6JweIXHZJx/nr6+CR2nMnuz7g5UDDmCPb6tcGhL9KgIPh9NSGotE4U7zCuCEXpAVlah1lXMibRv2YbwhrHAaqrW53J8V53AuR+AcgakNuCrmCReM3QsbClv9Kg1tmEsN8I0LMOimt0XMoysTCziLbsYu/GOyGfdZ43ErA6xUOVGLDGjTgMLZU8P35ya6coL1Bwx5dqGsBjtE'}}
0:43:40.172144	LOG	Server --------------------> DUT
0:43:40.175151	LOG	Send Test Command TxFramesCtrlReq process completed
0:43:40.178143	LOG	Check previous uplink data rate process starts
0:43:40.182180	LOG	Uplink received with expected Data Rate
0:43:40.186147	LOG	Send Test Command TxFramesCtrlReq process starts
0:43:43.107839	LOG	GPS Time updated: 1385118671710
0:43:43.109806	LOG	PULL_DATA: 02 bea7 02 0016c001ff1025bf
0:43:43.110807	LOG	PULL_ACK: 02 bea7 04
0:43:45.047387	LOG	First uplink received. Open reception window.
0:43:45.162536	LOG	PUSH_ACK: 02 7afc 01
0:43:45.164005	LOG	GPS Time from gateway: 1385118673652
0:43:45.166009	LOG	PUSH_DATA: Protocol version = 02, Token = 7afc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 242831018, 'time': '2023-11-27T11:10:54.653149Z', 'tmms': 1385118673652, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.8, 'foff': -3278, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAGwgCHUtx8R9ODKcuquQ='}]}
0:43:45.167011	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 081b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a72eaae4)
0:43:45.169009	LOG	Server <-------------------- DUT
0:43:45.171009	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04ee, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 98d3b120)
0:43:45.172009	LOG	Frame command sent to the DUT
0:43:45.174015	LOG	PULL_RESP: Protocol version = 02, Token = 93ec, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 243831018, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA7gTgrB+xBpOlYyYCOLWZngz6FTLtKjjYlWJ/fMfHZZtg/ctF+Hjr0wRyHw0E/lM7llCMmGkQfNBUuSUvPbJwuAK4koYSFt/ygdYSHorcrYiRVVEZxRHC6Ka4b6m6PGcLvZcWGJxFSdUgFDBx0yHO6PJSF+nMPZRHqmMDZcy/BDXyd1aTDjBUyjf7khlzdRrHPTol6xWFwXtYOstvssAO7f7DI3PkoZ4x69jTpYQGsK5OZoNOQLqIlkQl6tDunxabwOW+x+XLzRy9MsiNg0JjnP7CkTrkOLt2tI5Qc6KtE9sneDbHj7GWtZjy4hmpwrd0nuXCB3eY07Eg'}}
0:43:45.175009	LOG	Server --------------------> DUT
0:43:45.178008	LOG	Send Test Command TxFramesCtrlReq process completed
0:43:45.181013	LOG	Check previous uplink data rate process starts
0:43:45.185012	LOG	Uplink received with expected Data Rate
0:43:45.189012	LOG	Send Test Command TxFramesCtrlReq process starts
0:43:50.042684	LOG	First uplink received. Open reception window.
0:43:50.147366	LOG	PUSH_ACK: 02 fc3f 01
0:43:50.149404	LOG	GPS Time from gateway: 1385118678652
0:43:50.150371	LOG	PUSH_DATA: Protocol version = 02, Token = fc3f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 247830755, 'time': '2023-11-27T11:10:59.652887Z', 'tmms': 1385118678652, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3278, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAHAgC5WsJUM16p4F/GcE='}]}
0:43:50.152371	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 081c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 817f19c1)
0:43:50.153375	LOG	Server <-------------------- DUT
0:43:50.156381	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04ef, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 27480bdf)
0:43:50.157413	LOG	Frame command sent to the DUT
0:43:50.159381	LOG	PULL_RESP: Protocol version = 02, Token = 8689, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 248830755, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA7wTg5bxA0Ky9UVy9xm2GR7mws7zCvYZbslXu25NQc6l3UNXM7RIJf1r2Mm0BFlhMepN/4wuvK5wYrmAc3FcCFXfq8sFvin6vLmEiL3fnPjE3N0fQCpLh4SXJTwMWvrTQFPbEeSPuV0IKOQYVwqhifsSTLObOQo392qBcGlIIPLUEYk5H7pkfAzWt5AwDUv5/WcFALDmA7dgyMksliyU6gAy95LHkSKQOdZOQPZ8+L/ySo7y97nqCR4Gb8v0rq6PKtNZTck+yW5L9m64JCOP6NXXuhyK8ejnctuWYQlH7fPJ81Q22rTD7MlXRJ1tnv8aDHQHYZpQnSAvf'}}
0:43:50.160412	LOG	Server --------------------> DUT
0:43:50.163386	LOG	Send Test Command TxFramesCtrlReq process completed
0:43:50.165895	LOG	Check previous uplink data rate process starts
0:43:50.170894	LOG	Uplink received with expected Data Rate
0:43:50.174895	LOG	Send Test Command TxFramesCtrlReq process starts
0:43:53.308354	LOG	GPS Time updated: 1385118681917
0:43:53.309356	LOG	PULL_DATA: 02 fca2 02 0016c001ff1025bf
0:43:53.311321	LOG	PULL_ACK: 02 fca2 04
0:43:55.045461	LOG	First uplink received. Open reception window.
0:43:55.156349	LOG	PUSH_ACK: 02 11d7 01
0:43:55.158383	LOG	GPS Time from gateway: 1385118683652
0:43:55.159351	LOG	PUSH_DATA: Protocol version = 02, Token = 11d7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 252830490, 'time': '2023-11-27T11:11:04.652621Z', 'tmms': 1385118683652, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 15.0, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAHQgC39P7qO/AW1jlkqM='}]}
0:43:55.161350	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 081d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 58e592a3)
0:43:55.163355	LOG	Server <-------------------- DUT
0:43:55.164865	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04f0, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 7083bb68)
0:43:55.166865	LOG	Frame command sent to the DUT

0:43:55.168865	LOG	PULL_RESP: Protocol version = 02, Token = 3d80, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 253830490, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA8ATguQx3tS01Pfqo8gok4t1u1DX602jAN7yxgemfuULPLw5WiDCgh7oGo1azNnO6W/7w/0jmHHK3nUXpHEvaygwDZfNe8u33SlZefI2e0qQ1WQe+cYgTPoUbJLTlxogzdKo2PnsTAaQe93esNo22ziT+h0eoYA0M4A5bzB7jF9pnRLSjPYJ+UeulIrUGvn6wsyUF3EEmx2B4ibcz/ZI0zbhuDKmbAM+PhXCCnLma9/mnMAOaB4BYoi3ZHb/w+xRTxNItdILKJHOBlqSzLLBvcbRHeiKx7DCoQ959Rlw45VvPGUCXsSmZIPczRHTa1ovcgiL4aYlwg7to'}}
0:43:55.169865	LOG	Server --------------------> DUT
0:43:55.172865	LOG	Send Test Command TxFramesCtrlReq process completed
0:43:55.175887	LOG	Check previous uplink data rate process starts
0:43:55.179897	LOG	Uplink received with expected Data Rate
0:43:55.183902	LOG	Send Test Command TxFramesCtrlReq process starts
0:44:00.044842	LOG	First uplink received. Open reception window.
0:44:00.146094	LOG	PUSH_ACK: 02 0541 01
0:44:00.148094	LOG	GPS Time from gateway: 1385118688652
0:44:00.149132	LOG	PUSH_DATA: Protocol version = 02, Token = 0541, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 257830244, 'time': '2023-11-27T11:11:09.652374Z', 'tmms': 1385118688652, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3278, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAHggCeWxD+KTsLIaTFoM='}]}
0:44:00.151102	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 081e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 86931683)
0:44:00.152133	LOG	Server <-------------------- DUT
0:44:00.154100	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04f1, FOpts:), FPort: e0, FRMPayload: 070001), MIC: c956ac29)
0:44:00.156100	LOG	Frame command sent to the DUT
0:44:00.157099	LOG	PULL_RESP: Protocol version = 02, Token = 7416, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 258830244, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA8QTgPhX3apmxyOvRFU89tVPiCoAc18cp3wB0urxhCkyK3eBG+vnKDg+lIUVJqsM7J+fPb08kGh/k7DMpBgKjB/e3MxHdXfM6w4iR72T68PoW6YJtcTogn/8TQixENfKjGD5jmuseRcl731JlkLriSHQePd+nb5au6DJPLsM0UlaFU5JGnfsFBF1b2Z/cBSrvVVyyIDB2H2zEH7XjoCe31lUCyuiOxbv8l35aQJza3TJ9Rbx5xF7/gpu2VnVSfsi7/JOfUIhtkBH3yrLLtPwm6fQkGwhL4Dlelr/vxHf0JiHakCAxQFFqMoKPCSPBc7EKPLMuj3XJVqwp'}}
0:44:00.158097	LOG	Server --------------------> DUT
0:44:00.161099	LOG	Send Test Command TxFramesCtrlReq process completed
0:44:00.164649	LOG	Check previous uplink data rate process starts
0:44:00.169646	LOG	Uplink received with expected Data Rate
0:44:00.172645	LOG	Send Test Command TxFramesCtrlReq process starts
0:44:03.317615	LOG	GPS Time updated: 1385118691925
0:44:03.319582	LOG	PULL_DATA: 02 0ea4 02 0016c001ff1025bf
0:44:03.320583	LOG	PULL_ACK: 02 0ea4 04
0:44:05.047201	LOG	First uplink received. Open reception window.
0:44:05.161171	LOG	PUSH_ACK: 02 c027 01

0:44:05.162168	LOG	GPS Time from gateway: 1385118693651
0:44:05.164679	LOG	PUSH_DATA: Protocol version = 02, Token = c027, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 262829974, 'time': '2023-11-27T11:11:14.652103Z', 'tmms': 1385118693651, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.8, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAHwgCT7ZLILTa15RcTx0='}]}
0:44:05.165679	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 081f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 945c4f1d)
0:44:05.167679	LOG	Server <-------------------- DUT
0:44:05.168713	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04f2, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 13cae73f)
0:44:05.170711	LOG	Frame command sent to the DUT
0:44:05.172679	LOG	PULL_RESP: Protocol version = 02, Token = 740a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 263829974, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA8gTgsCc34x0yWnD+Ud5z1o+d8UhJPNZBj6wS3fCsXV6RG0rWKyHjdvunAW5HZdyivRYzXF32dv5cHAkeJBs34dUMJG96o2TJTIxDTgk2q9ZZPIE/hXaKNjg2+Yj7PrUpAy7OM64Kfua9V9Hu6ZaZLrE6+EVkA7XHr2DZQsQK83UI5Z0Zs806peVMhEW/Fz/zfsaDvqje/D+SZoh4fHFOkVPnjT01rN4M1lxYXexxJ9lMJhxgT2jo2P87rAEkECstqHeq8g0H9HJghTVUg0tuE2YI7LA+8O2zmW6E0AExQgeMNwtAwVCqy4nQIS5bpgQgF9npu54Tyuc/'}}
0:44:05.173678	LOG	Server --------------------> DUT
0:44:05.176712	LOG	Send Test Command TxFramesCtrlReq process completed
0:44:05.179717	LOG	Check previous uplink data rate process starts
0:44:05.183753	LOG	Uplink received with expected Data Rate
0:44:05.187727	LOG	Send Test Command TxFramesCtrlReq process starts
0:44:10.044429	LOG	First uplink received. Open reception window.
0:44:10.147203	LOG	PUSH_ACK: 02 9f09 01
0:44:10.149246	LOG	GPS Time from gateway: 1385118698651
0:44:10.151245	LOG	PUSH_DATA: Protocol version = 02, Token = 9f09, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 267829725, 'time': '2023-11-27T11:11:19.651853Z', 'tmms': 1385118698651, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3278, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAIAgCvg+UXC2udmK4/LI='}]}
0:44:10.152245	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0820, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 62b8fcb2)
0:44:10.154252	LOG	Server <-------------------- DUT
0:44:10.156282	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04f3, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 5f9c2e11)
0:44:10.157281	LOG	Frame command sent to the DUT

0:44:10.159252	LOG	PULL_RESP: Protocol version = 02, Token = 585e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 268829725, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA8wTg4C0B0u+68yTzdKEzCOcuy/hlL/BD1CeLQIEnSe8QL5xbnzVIHAta3CJF1T0/7ww9mOe1rLjhk/LjsrvzmuAvqQQ2nSQDkqkQf1tVrIwOiySi0yM75eSpH5Ak0y1F7FaMtbNBjzVFfsgE15yBp8Rj+dEhmg73+9Dg6Zp4XwCY/fGmXqJr/9RnLUyIVXuJbFKAoLjG74sNhZxNNFM/yyM3HMvV0f1Om50wqpy8kXv5PC3ZJ/Nb6PspW4fIFUOwgwN7odNcO/F9QTBrfZEnGhjVxEp5AIqZk74qwd8KNH0LnqCfDirmOpZiadvlFtsHibRQTBRfnC4R'}}
0:44:10.160282	LOG	Server --------------------> DUT
0:44:10.162251	LOG	Send Test Command TxFramesCtrlReq process completed
0:44:10.165759	LOG	Check previous uplink data rate process starts
0:44:10.170759	LOG	Uplink received with expected Data Rate
0:44:10.173760	LOG	Send Test Command TxFramesCtrlReq process starts
0:44:13.517901	LOG	GPS Time updated: 1385118702124
0:44:13.518899	LOG	PULL_DATA: 02 08bb 02 0016c001ff1025bf
0:44:13.520867	LOG	PULL_ACK: 02 08bb 04
0:44:15.049611	LOG	First uplink received. Open reception window.
0:44:15.156848	LOG	PUSH_ACK: 02 6fa1 01
0:44:15.158883	LOG	GPS Time from gateway: 1385118703651
0:44:15.159883	LOG	PUSH_DATA: Protocol version = 02, Token = 6fa1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 272829462, 'time': '2023-11-27T11:11:24.651588Z', 'tmms': 1385118703651, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAIQgCGwRwjGnoLzGqvDQ='}]}
0:44:15.161852	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0821, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 31aabc34)
0:44:15.163357	LOG	Server <-------------------- DUT
0:44:15.165398	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04f4, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 7cc39a22)
0:44:15.167395	LOG	Frame command sent to the DUT
0:44:15.168395	LOG	PULL_RESP: Protocol version = 02, Token = 15db, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 273829462, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA9ATgQqRxpwcCbRXEk9R3tJlzO0bHNXC4FcqmbPf4mZOyFmK+3qwYFBnOTYsA2cCP6cYdLlUnPXOVgaX9rghRO22ALLidp9RAmj7deFZy0ODKUv8cmjEVD1Tr8LvORU255x3S0A4VunSVbGiHXWFmAO8Kv0BjeXM1Y/hmhP4UNzj4jEcyEAeWcSFOVx+D70Dm0Em+X03Xn3Pvxfk2IZIx8i5CWCgoo8ZY8AHEdhaBdEwq5M1OgPjF2rbf8H+ENiT+ragZ9I81DJP4Jm3Sv33WAwHyHIptypq30LmRNNRJrIjf08VlVnrzDR0oSbVKnvMV0kFSpJR8w5oi'}}
0:44:15.169395	LOG	Server --------------------> DUT
0:44:15.172365	LOG	Send Test Command TxFramesCtrlReq process completed
0:44:15.175364	LOG	Check previous uplink data rate process starts
0:44:15.179397	LOG	Uplink received with expected Data Rate
0:44:15.182433	LOG	Send Test Command TxFramesCtrlReq process starts
0:44:20.049082	LOG	First uplink received. Open reception window.
0:44:20.160935	LOG	PUSH_ACK: 02 a8d7 01

0:44:20.161932	LOG	GPS Time from gateway: 1385118708651
0:44:20.164513	LOG	PUSH_DATA: Protocol version = 02, Token = a8d7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 277829198, 'time': '2023-11-27T11:11:29.651325Z', 'tmms': 1385118708651, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAIggC0+rythxDwA+Oq+I='}]}
0:44:20.165510	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0822, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0f8eabe2)
0:44:20.166511	LOG	Server <-------------------- DUT
0:44:20.169474	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04f5, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: ce6ef1ed)
0:44:20.170510	LOG	Frame command sent to the DUT
0:44:20.172476	LOG	PULL_RESP: Protocol version = 02, Token = 7502, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 278829198, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA9QTg0d/1evuUpOBFDK+TlSLEG0IElHsLHlVM0lqFXFG985dqW LHXvOUmyoeCdqrU6/d/BWHlyfaQbMg0oz6wnRkQZYR9+cjSGAtVXe+bsPdfx ZZVTDpvJxEXtMhDKfXRebxGv1upQw+eAoc5UPOPPsuzn6lKtYWfF67OKQZ XY14SC8QM+feogx7X2C1kgXs8UG4+FxcCJ+FMeXAd2psqVPQYf2I23WSxxB I5rfPSDcDAniwwLiVy8wn1xYGFMj3it0VQKuwk6gHWbGpE5k7SA8ochjzdz2f/i 7Ez8BV1b36PIdsNnUb129dAOrrizI91RS3A72nObvHt'}}
0:44:20.174479	LOG	Server --------------------> DUT
0:44:20.176474	LOG	Send Test Command TxFramesCtrlReq process completed
0:44:20.179474	LOG	Check previous uplink data rate process starts
0:44:20.184480	LOG	Uplink received with expected Data Rate
0:44:20.187477	LOG	Send Test Command TxFramesCtrlReq process starts
0:44:23.528068	LOG	#***************************CURRENT BEACON SENT***************************#
0:44:23.529069	LOG	PULL_RESP: Protocol version = 02, Token = c5d7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385118720000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAPI9S1cEAAAAAAAAAAAA='}}
0:44:23.531037	LOG	Server --------------------> DUT
0:44:23.532319	LOG	#** ******#
0:44:23.542541	LOG	#***************************NEXT BEACON QUEUED***************************#
0:44:23.543542	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385118848000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAPI9S7RwAAAAAAAAAAAA='}}
0:44:23.544542	LOG	Server --------------------> DUT
0:44:23.546546	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 803c8f52, CRC1: ed1c, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385118848000
0:44:23.547546	LOG	#** ******#
0:44:23.548546	LOG	Next BEACON scheduled at GPS time (ms): 1385118976000

0:44:23.550547	LOG	GPS Time updated: 1385118712153
0:44:23.551547	LOG	PULL_DATA: 02 ece2 02 0016c001ff1025bf
0:44:23.553547	LOG	PULL_ACK: 02 ece2 04
0:44:23.554546	LOG	TX_ACK: 02 c5d7 05 0016c001ff1025bf
0:44:25.049721	LOG	First uplink received. Open reception window.
0:44:25.164627	LOG	PUSH_ACK: 02 6b0e 01
0:44:25.166629	LOG	GPS Time from gateway: 1385118713650
0:44:25.167629	LOG	PUSH_DATA: Protocol version = 02, Token = 6b0e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 282828938, 'time': '2023-11-27T11:11:34.651064Z', 'tmms': 1385118713650, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAIwgCf4ejTHB1H43KHLM='}]}
0:44:25.169629	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0823, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8dca1cb3)
0:44:25.170628	LOG	Server <-------------------- DUT
0:44:25.172627	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04f6, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 1189d04b)
0:44:25.173627	LOG	Frame command sent to the DUT
0:44:25.175631	LOG	PULL_RESP: Protocol version = 02, Token = 7f55, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 283828938, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA9gTgR81vlhcwn71tecPoaCdS9q0hwTVBbmChVj17QZdVLfUINpCobYGt+ebrZVCdm+Qst9NMUE/gmbURvcFmoYI3jxYqOW25wucrj5AYuOg8u5SmLl1FYUxtfy0SxfQl8Z63O1dokisnpF/Mccb8TE0ZYmpSw0zQlIpD9Gzp2yQeucMiuPJwD3jAyZ5UOYPwf9vohtnY9q9xb3t1aUU0IZhvwASMrWuJvO14UVS4hyH7u3jfvWU5jWR0n4+Vr4bgRmQhzecIi/3qXnse3EtyqQlLmVP/C/QzzMf6xrqWlMKIhuAW2E2r7GZjbc/Re5Ed5gSZT3MRidBL'}}
0:44:25.176629	LOG	Server --------------------> DUT
0:44:25.180633	LOG	Send Test Command TxFramesCtrlReq process completed
0:44:25.182632	LOG	Check previous uplink data rate process starts
0:44:25.187631	LOG	Uplink received with expected Data Rate
0:44:25.190634	LOG	Step 14-15
0:44:25.193633	LOG	Send Test Command RxAppCntReq process starts
0:44:30.044888	LOG	First uplink received. Open reception window.
0:44:30.149087	LOG	PUSH_ACK: 02 b60f 01
0:44:30.151054	LOG	GPS Time from gateway: 1385118718650
0:44:30.152053	LOG	PUSH_DATA: Protocol version = 02, Token = b60f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 287828678, 'time': '2023-11-27T11:11:39.650803Z', 'tmms': 1385118718650, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3278, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAJAgCeu2Xs0DOnxXUfNM='}]}
0:44:30.153066	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0824, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 15d47cd3)
0:44:30.155086	LOG	Server <-------------------- DUT
0:44:30.156086	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04f7, FOpts:), FPort: e0, FRMPayload: 09), MIC: f1994d0c)
0:44:30.158078	LOG	Frame command sent to the DUT

0:44:30.160053	LOG	PULL_RESP: Protocol version = 02, Token = 8dd9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 288828678, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAA9wTgIPGZTQw='}}
0:44:30.161052	LOG	Server ----------> DUT
0:44:30.163556	LOG	TX_ACK: 02 8dd9 05 0016c001ff1025bf
0:44:31.112640	LOG	First uplink received. Open reception window.
0:44:31.214743	LOG	PUSH_ACK: 02 25b2 01
0:44:31.216710	LOG	GPS Time from gateway: 1385118719718
0:44:31.217710	LOG	PUSH_DATA: Protocol version = 02, Token = 25b2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 288896695, 'time': '2023-11-27T11:11:40.718820Z', 'tmms': 1385118719718, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.8, 'foff': -3293, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAJQjgf5goyte62g=='}]}
0:44:31.219710	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0825, FOpts:), FPort: e0, FRMPayload: 098403, MIC: cad7bada)
0:44:31.220748	LOG	Server <---------- DUT
0:44:31.222716	LOG	Frame Command Payload in the Answer: 098403
0:44:31.226253	LOG	RX Count received by DUT: 900
0:44:31.228260	LOG	Send Test Command RxAppCntReq process completed
0:44:31.236258	LOG	Step 16-17
0:44:31.240257	LOG	Send LinkADRReq process starts
0:44:33.727520	LOG	GPS Time updated: 1385118722333
0:44:33.729485	LOG	PULL_DATA: 02 4f21 02 0016c001ff1025bf
0:44:33.730486	LOG	PULL_ACK: 02 4f21 04
0:44:35.043791	LOG	First uplink received. Open reception window.
0:44:35.154257	LOG	PUSH_ACK: 02 5460 01
0:44:35.156258	LOG	GPS Time from gateway: 1385118723650
0:44:35.157259	LOG	PUSH_DATA: Protocol version = 02, Token = 5460, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 292828429, 'time': '2023-11-27T11:11:44.650553Z', 'tmms': 1385118723650, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAJggCo6ZP+8Ug3dmB4tY='}]}
0:44:35.159259	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0826, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d981e2d6)
0:44:35.161298	LOG	Server <---------- DUT
0:44:35.162296	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04f8, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: 9ade5f43)
0:44:35.164838	LOG	PULL_RESP: Protocol version = 02, Token = 211f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 293828429, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAA+AQACUSR6NSa3l9D'}}
0:44:35.166874	LOG	Server ----------> DUT
0:44:35.168842	LOG	TX_ACK: 02 211f 05 0016c001ff1025bf
0:44:40.076993	LOG	First uplink received. Open reception window.
0:44:40.184131	LOG	PUSH_ACK: 02 f9d3 01
0:44:40.186130	LOG	GPS Time from gateway: 1385118728678
0:44:40.187098	LOG	PUSH_DATA: Protocol version = 02, Token = f9d3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 297856564, 'time': '2023-11-27T11:11:49.678687Z', 'tmms': 1385118728678, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3293, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCJwgDBwLM8g9wwUyTbacOsg=='}]}
0:44:40.189097	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0827, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 6da70eb2)
0:44:40.191102	LOG	Server <---------- DUT

0:44:40.192101	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:44:40.194100	LOG	Command Answer: 0307
0:44:40.201610	LOG	MAC command communication completed
0:44:40.204610	LOG	Send NewChannelReq process starts
0:44:43.797363	LOG	GPS Time updated: 1385118732399
0:44:43.799344	LOG	PULL_DATA: 02 76fe 02 0016c001ff1025bf
0:44:43.800331	LOG	PULL_ACK: 02 76fe 04
0:44:45.068804	LOG	First uplink received. Open reception window.
0:44:45.174914	LOG	PUSH_ACK: 02 1484 01
0:44:45.176914	LOG	GPS Time from gateway: 1385118733678
0:44:45.177916	LOG	PUSH_DATA: Protocol version = 02, Token = 1484, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 302856194, 'time': '2023-11-27T11:11:54.678316Z', 'tmms': 1385118733678, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3293, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAKAgC8wPCLjwfOlyk0Pc='}]}
0:44:45.179916	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0828, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5ca4d0f7)
0:44:45.181926	LOG	Server <---------- DUT
0:44:45.182916	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04f9, FOpts:), FPort: 00, FRMPayload: 070300000050), MIC: 2df9d12d)
0:44:45.185425	LOG	PULL_RESP: Protocol version = 02, Token = 0da9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 303856194, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YAAAAAAA+QQAjHc2ad9vLfnRLQ=='}}
0:44:45.186424	LOG	Server ----------> DUT
0:44:45.189047	LOG	TX_ACK: 02 0da9 05 0016c001ff1025bf
0:44:50.068405	LOG	First uplink received. Open reception window.
0:44:50.179162	LOG	PUSH_ACK: 02 a3d4 01
0:44:50.181130	LOG	GPS Time from gateway: 1385118738677
0:44:50.182130	LOG	PUSH_DATA: Protocol version = 02, Token = a3d4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 307856065, 'time': '2023-11-27T11:11:59.678185Z', 'tmms': 1385118738677, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3293, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCKQgHAwLdGWSNbsenq/lG5g=='}]}
0:44:50.184131	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0829, FOpts: 0703), FPort: 02, FRMPayload: 00000001020000, MIC: abf946e6)
0:44:50.186130	LOG	Server <---------- DUT
0:44:50.188130	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:44:50.189166	LOG	Command Answer: 0703
0:44:50.193739	LOG	MAC command communication completed
0:44:50.199247	LOG	End Test Step: Test packet error rate for SF7BW250 using RX1 window
0:44:50.204246	LOG	Partial Verdict: PASS
0:44:50.207247	LOG	==========
0:44:50.212252	LOG	==========
0:44:50.214251	LOG	Start Test Step: Test packet error rate for FSK50 using RX1 window
0:44:50.226313	LOG	Step 10-11
0:44:50.233319	LOG	Send RXParamSetupReq process starts
0:44:54.007835	LOG	GPS Time updated: 1385118742615
0:44:54.008835	LOG	PULL_DATA: 02 ab42 02 0016c001ff1025bf
0:44:54.010834	LOG	PULL_ACK: 02 ab42 04
0:44:55.069834	LOG	First uplink received. Open reception window.
0:44:55.179965	LOG	PUSH_ACK: 02 deb4 01
0:44:55.181975	LOG	GPS Time from gateway: 1385118743677

0:44:55.182969	LOG	PUSH_DATA: Protocol version = 02, Token = deb4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 312855713, 'time': '2023-11-27T11:12:04.677832Z', 'tmms': 1385118743677, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3293, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAKggCpukdADRON+ui33A='}]}
0:44:55.184971	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 082a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: eba2df70)
0:44:55.186985	LOG	Server <---------- DUT
0:44:55.187984	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04fa, FOpts:), FPort: 00, FRMPayload: 0500d2ad84), MIC: d52703c3)
0:44:55.190017	LOG	PULL_RESP: Protocol version = 02, Token = e190, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 314855713, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAA+gQAgTvHjKDVJwPD'}}
0:44:55.191018	LOG	Server ----------> DUT
0:44:55.193591	LOG	TX_ACK: 02 e190 05 0016c001ff1025bf
0:45:00.072969	LOG	First uplink received. Open reception window.
0:45:00.177272	LOG	PUSH_ACK: 02 55a5 01
0:45:00.179239	LOG	GPS Time from gateway: 1385118748677
0:45:00.180243	LOG	PUSH_DATA: Protocol version = 02, Token = 55a5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 317855592, 'time': '2023-11-27T11:12:09.677712Z', 'tmms': 1385118748677, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3305, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCKwgFBwKFj/VKnBrSREUjzQ=='}]}
0:45:00.182244	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 082b, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 444523cd)
0:45:00.184253	LOG	Server <---------- DUT
0:45:00.185254	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:45:00.187254	LOG	Command Answer: 0507
0:45:00.199760	LOG	MAC command communication completed
0:45:00.203266	LOG	Send NewChannelReq process starts
0:45:04.216830	LOG	GPS Time updated: 1385118752821
0:45:04.218798	LOG	PULL_DATA: 02 2442 02 0016c001ff1025bf
0:45:04.220799	LOG	PULL_ACK: 02 2442 04
0:45:05.067997	LOG	First uplink received. Open reception window.
0:45:05.180795	LOG	PUSH_ACK: 02 878f 01
0:45:05.182763	LOG	GPS Time from gateway: 1385118753677
0:45:05.183763	LOG	PUSH_DATA: Protocol version = 02, Token = 878f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 322855328, 'time': '2023-11-27T11:12:14.677447Z', 'tmms': 1385118753677, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3293, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCLAgFBwJi7aTe2zi4TqN0Zg=='}]}
0:45:05.185765	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 082c, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 4ea37466)
0:45:05.187781	LOG	Server <---------- DUT
0:45:05.189776	LOG	MAC Command RXParamSetupAns received
0:45:05.190808	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04fb, FOpts:), FPort: , FRMPayload:), MIC: 87e32f73)
0:45:05.192776	LOG	PULL_RESP: Protocol version = 02, Token = a0c1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 324855328, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 12, 'data': 'YAAAAAAA+wSH4y9z'}}
0:45:05.193811	LOG	Server ----------> DUT
0:45:05.196894	LOG	TX_ACK: 02 a0c1 05 0016c001ff1025bf
0:45:10.073119	LOG	First uplink received. Open reception window.

0:45:10.185713	LOG	PUSH_ACK: 02 501d 01
0:45:10.187682	LOG	GPS Time from gateway: 1385118758676
0:45:10.188681	LOG	PUSH_DATA: Protocol version = 02, Token = 501d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 327854964, 'time': '2023-11-27T11:12:19.677082Z', 'tmms': 1385118758676, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACALQgCIowjunsXWzbmBRk='}]}
0:45:10.190682	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 082d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 36e60519)
0:45:10.192726	LOG	Server <---------- DUT
0:45:10.193724	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04fc, FOpts:), FPort: 00, FRMPayload: 070428768477), MIC: 762bb771)
0:45:10.195807	LOG	PULL_RESP: Protocol version = 02, Token = 8a45, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 329854964, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YAAAAAAA/AQACnmAXsbTdiu3cQ=='}}
0:45:10.197848	LOG	Server ----------> DUT
0:45:10.199844	LOG	TX_ACK: 02 8a45 05 0016c001ff1025bf
0:45:14.407456	LOG	GPS Time updated: 1385118763009
0:45:14.408455	LOG	PULL_DATA: 02 b906 02 0016c001ff1025bf
0:45:14.410463	LOG	PULL_ACK: 02 b906 04
0:45:15.071098	LOG	First uplink received. Open reception window.
0:45:15.174316	LOG	PUSH_ACK: 02 2cde 01
0:45:15.176286	LOG	GPS Time from gateway: 1385118763676
0:45:15.177284	LOG	PUSH_DATA: Protocol version = 02, Token = 2cde, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 332854843, 'time': '2023-11-27T11:12:24.676960Z', 'tmms': 1385118763676, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3305, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCLggHAwL6b9reDqXQmlJCsQ=='}]}
0:45:15.179285	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 082e, FOpts: 0703), FPort: 02, FRMPayload: 00000001020000, MIC: 9a5242b1)
0:45:15.180290	LOG	Server <---------- DUT
0:45:15.182293	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:45:15.183328	LOG	Command Answer: 0703
0:45:15.188955	LOG	MAC command communication completed
0:45:15.192987	LOG	Send LinkADRReq process starts
0:45:20.073810	LOG	First uplink received. Open reception window.
0:45:20.178056	LOG	PUSH_ACK: 02 b97b 01
0:45:20.180093	LOG	GPS Time from gateway: 1385118768676
0:45:20.181060	LOG	PUSH_DATA: Protocol version = 02, Token = b97b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 337854476, 'time': '2023-11-27T11:12:29.676592Z', 'tmms': 1385118768676, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACALwgCy2xKRkpE2Rb7UIQ='}]}
0:45:20.183061	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 082f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 16fb5084)
0:45:20.184101	LOG	Server <---------- DUT
0:45:20.186059	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04fd, FOpts:), FPort: 00, FRMPayload: 0370170001), MIC: d224062b)
0:45:20.188098	LOG	PULL_RESP: Protocol version = 02, Token = a994, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 339854476, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAA/QQAeLDET7nSJAYr'}}
0:45:20.189093	LOG	Server ----------> DUT
0:45:20.191782	LOG	TX_ACK: 02 a994 05 0016c001ff1025bf

0:45:24.596938	LOG	GPS Time updated: 1385118773199
0:45:24.598938	LOG	PULL_DATA: 02 000d 02 0016c001ff1025bf
0:45:24.599938	LOG	PULL_ACK: 02 000d 04
0:45:25.022939	LOG	First uplink received. Open reception window.
0:45:25.131042	LOG	PUSH_ACK: 02 dbf9 01
0:45:25.132545	LOG	GPS Time from gateway: 1385118773625
0:45:25.134549	LOG	PUSH_DATA: Protocol version = 02, Token = dbf9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 342803810, 'time': '2023-11-27T11:12:34.625926Z', 'tmms': 1385118773625, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -60, 'size': 22, 'data': 'QAAAAACCMAgDBwLFyJLbENPrAyF42Q==\'}]}
0:45:25.135550	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0830, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 032178d9)
0:45:25.137549	LOG	Server <---------- DUT
0:45:25.138548	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:45:25.140548	LOG	Command Answer: 0307
0:45:25.147548	LOG	MAC command communication completed
0:45:25.151553	LOG	Step 11-12
0:45:25.161551	LOG	Send Test Command RxAppCntReq process starts
0:45:30.013712	LOG	First uplink received. Open reception window.
0:45:30.118694	LOG	PUSH_ACK: 02 f7f4 01
0:45:30.120662	LOG	GPS Time from gateway: 1385118778624
0:45:30.121662	LOG	PUSH_DATA: Protocol version = 02, Token = f7f4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 347803120, 'time': '2023-11-27T11:12:39.625235Z', 'tmms': 1385118778624, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAMQgCczAmp1tP2vK9bDo=\'}]}
0:45:30.123663	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0831, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f2bd6c3a)
0:45:30.124661	LOG	Server <---------- DUT
0:45:30.126662	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04fe, FOpts:), FPort: e0, FRMPayload: 09), MIC: fa34f20d)
0:45:30.128166	LOG	Frame command sent to the DUT
0:45:30.129171	LOG	PULL_RESP: Protocol version = 02, Token = 4990, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 348803120, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 14, 'data': 'YAAAAAAA/gTgU/o08g0='}}
0:45:30.130171	LOG	Server ----------> DUT
0:45:30.132678	LOG	TX_ACK: 02 4990 05 0016c001ff1025bf
0:45:31.028316	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:45:31.029818	LOG	Previous uplink Frame type (FType): 011
0:45:31.030827	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:45:31.032824	LOG	Previous uplink Frame type (FType): 011
0:45:32.797881	LOG	First uplink received. Open reception window.
0:45:32.902771	LOG	PUSH_ACK: 02 c982 01
0:45:32.904772	LOG	GPS Time from gateway: 1385118781405
0:45:32.905738	LOG	PUSH_DATA: Protocol version = 02, Token = c982, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 350583711, 'time': '2023-11-27T11:12:42.405825Z', 'tmms': 1385118781405, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -67, 'size': 16, 'data': 'QAAAAACAMgjg8aYeQjjmfw==\'}]}
0:45:32.906737	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0832, FOpts:), FPort: e0, FRMPayload: 098503, MIC: 4238e67f)
0:45:32.908747	LOG	Server <---------- DUT
0:45:32.910743	LOG	Frame Command Payload in the Answer: 098503

0:45:32.914949	LOG	RX Count received by DUT: 901
0:45:32.916948	LOG	Send Test Command RxAppCntReq process completed
0:45:32.920950	LOG	Step 13
0:45:32.924948	LOG	Send Test Command TxFramesCtrlReq process starts
0:45:34.747062	LOG	GPS Time updated: 1385118783355
0:45:34.749052	LOG	PULL_DATA: 02 dda7 02 0016c001ff1025bf
0:45:34.750038	LOG	PULL_ACK: 02 dda7 04
0:45:40.012624	LOG	First uplink received. Open reception window.
0:45:40.117137	LOG	PUSH_ACK: 02 36da 01
0:45:40.119175	LOG	GPS Time from gateway: 1385118788624
0:45:40.120144	LOG	PUSH_DATA: Protocol version = 02, Token = 36da, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 357802609, 'time': '2023-11-27T11:12:49.624722Z', 'tmms': 1385118788624, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACAMwgCpKWcBAaSAwfolsw='}]}
0:45:40.122143	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0833, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 07e896cc)
0:45:40.123190	LOG	Server <-------------------- DUT
0:45:40.125147	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 04ff, FOpts:), FPort: e0, FRMPayload: 070001), MIC: f671fe10)
0:45:40.127147	LOG	Frame command sent to the DUT
0:45:40.129150	LOG	PULL_RESP: Protocol version = 02, Token = a782, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 358802609, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAA/wTgLtlSkWsAkIkEBKhvq8G57zcDb21a8iRDa7QpLhBtAzAAVYDS9P6oulnvHgASQLIWTfN4mTFVukTfuHG+1RDSV7jZRenCJ2DSZcX5Lng9E5ABKfiid2fViHJ75vftFHxsrwtbzmH/Pj9fy0zNAZJq9JXeuyLBObcaOJ3L4bMnPDFavJS2BFE1sBopQ7vL3u18g10LrS8b19XImO5TRu6LxDO3te0wqGST7OZFjM2tZC6MbaAzLM1Edil9boMub2qbRokD7bZoPb08+cemLctdDdRsrWuORL3rRcD+zxjx+gIiw8vTzmEyEtJYUeqfVonpHjb2cf4Q'}}
0:45:40.130148	LOG	Server --------------------> DUT
0:45:40.133660	LOG	Send Test Command TxFramesCtrlReq process completed
0:45:40.136655	LOG	Check previous uplink data rate process starts
0:45:40.141161	LOG	Uplink received with expected Data Rate
0:45:40.145164	LOG	Send Test Command TxFramesCtrlReq process starts
0:45:41.062455	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:45:41.064455	LOG	Previous uplink Frame type (FType): 011
0:45:41.066455	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:45:41.068463	LOG	Previous uplink Frame type (FType): 011
0:45:44.957059	LOG	GPS Time updated: 1385118793569
0:45:44.958059	LOG	PULL_DATA: 02 8018 02 0016c001ff1025bf
0:45:44.960026	LOG	PULL_ACK: 02 8018 04
0:45:45.014088	LOG	First uplink received. Open reception window.
0:45:45.123256	LOG	PUSH_ACK: 02 cd07 01
0:45:45.125224	LOG	GPS Time from gateway: 1385118793624
0:45:45.126222	LOG	PUSH_DATA: Protocol version = 02, Token = cd07, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 362802292, 'time': '2023-11-27T11:12:54.624404Z', 'tmms': 1385118793624, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu':

		'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACANAgCiGzBffl7ze0HELw='}]}
0:45:45.128221	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0834, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ed0710bc)
0:45:45.129222	LOG	Server <-------------------- DUT
0:45:45.131222	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0500, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: cd7f1f22)
0:45:45.132725	LOG	Frame command sent to the DUT
0:45:45.134731	LOG	PULL_RESP: Protocol version = 02, Token = 245d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 363802292, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAAAXgRCFi8UkhpkgxKFhfT/bybV9RKJPjdIyBLdDqavRLkmHj5o4PjGSCP1HH5tLJrY5st0AswKarhiPL3X+uMoWpXiZVjw7vsypvGNJ10kKT9M/IKlVkD+H4SDslnA0x7hVFqU2QizIFMCYdXS/kSPGfulQ11wd/MruoGI0Y/hEl0mFRhcGFqGoicur1/ClI4CQ9agp/9JWsT6TJV3DqV1QhSlOYkdV1+MmMx6Wt3GTJZobvGbc7bX5nPPvezL6iQBCkX8eFY118hyr7Mei4DVIuz+xypfPBzH8X5PJmwexM8g3dOExQvD1S8ew7+bZTd18W8pPNfx8i'}}
0:45:45.135730	LOG	Server --------------------> DUT
0:45:45.139734	LOG	Send Test Command TxFramesCtrlReq process completed
0:45:45.142625	LOG	Check previous uplink data rate process starts
0:45:45.146591	LOG	Uplink received with expected Data Rate
0:45:45.149672	LOG	Send Test Command TxFramesCtrlReq process starts
0:45:46.067765	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:45:46.069764	LOG	Previous uplink Frame type (FType): 011
0:45:46.073107	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:45:46.074095	LOG	Previous uplink Frame type (FType): 011
0:45:50.017370	LOG	First uplink received. Open reception window.
0:45:50.120881	LOG	PUSH_ACK: 02 2460 01
0:45:50.122849	LOG	GPS Time from gateway: 1385118798623
0:45:50.123848	LOG	PUSH_DATA: Protocol version = 02, Token = 2460, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 367802028, 'time': '2023-11-27T11:12:59.624139Z', 'tmms': 1385118798623, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACANQgCEFmKDb1rsfeYOZk='}]}
0:45:50.125851	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0835, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f7983999)
0:45:50.126856	LOG	Server <-------------------- DUT
0:45:50.128890	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0501, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 7d5e3fd9)
0:45:50.130856	LOG	Frame command sent to the DUT

0:45:50.132360	LOG	PULL_RESP: Protocol version = 02, Token = 2f5c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 368802028, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAAQXgzxTr6RIQR6TH+2oqRwvE5kb+Dh2uNcrzOVgJrL4w8MkW XHN0bO//Ossz+P2AvbrWp2bdCywB5a624Ibc8ueBqz27Y1PAo6v5uSq+ofN+soe hTxEcLVYdbuXWiVMsZF7H+jpclX7ELm+f+Fyp/xOHKEuXE1QTByWL/OLib BjTdeTfDUQSynVQxDwsJCT0WfnHyswZWpw+01BpJWggOCPXmJvBRXf05S/ GjxTGQ7mS05lEVKU/cRFiJyWdkXzuGHS6pn0u3YoxD5mKsbIgpivID905j8TxS cSF/DYzoGCn8vSThkGIusa6nIjvwdh5d6lZ8YR9Xj/Z'}}
0:45:50.134374	LOG	Server ----------> DUT
0:45:50.137409	LOG	Send Test Command TxFramesCtrlReq process completed
0:45:50.140408	LOG	Check previous uplink data rate process starts
0:45:50.144375	LOG	Uplink received with expected Data Rate
0:45:50.147406	LOG	Send Test Command TxFramesCtrlReq process starts
0:45:51.060777	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:45:51.062771	LOG	Previous uplink Frame type (FType): 011
0:45:51.064739	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:45:51.066794	LOG	Previous uplink Frame type (FType): 011
0:45:55.012596	LOG	First uplink received. Open reception window.
0:45:55.115832	LOG	PUSH_ACK: 02 3fdd 01
0:45:55.117838	LOG	GPS Time from gateway: 1385118803623
0:45:55.118837	LOG	PUSH_DATA: Protocol version = 02, Token = 3fdd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 372801780, 'time': '2023-11-27T11:13:04.623889Z', 'tmms': 1385118803623, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACANggC2/DjPSQA03wFvOk='}]}
0:45:55.120838	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0836, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7c05bce9)
0:45:55.121836	LOG	Server <---------- DUT
0:45:55.123842	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0502, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101), MIC: 9f3502aa)
0:45:55.125842	LOG	Frame command sent to the DUT
0:45:55.126841	LOG	PULL_RESP: Protocol version = 02, Token = eb36, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 373801780, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAAgXgYAsyqH8w0YEL+L01WVm17swOXeKe9kDMh/AcuJgVIoS z8CffBjzeTmHu+un2jxPrDOG/OTz8z5wD0qmS35EF1IqqK3gchZTGOfdMDfX2v C9y4sn/EIf+9RZNG1nAcI/Cqzbb9jLxlPqmrA7a3hPccTKeC3tRvV4y2aH7smTkY cQiF5Js4z43QqlI5z+BHWoi16RqZUwPeSXBpqaLqFm+ipcXmRlpUhOs9jWKdn DU0W119FzdPFhfym93sOdcp2DGdsbcepTssPM7SuOdBKCbluWBXPLiYURrP9 69NNNG5YRzcFW1t/RMWVjIxIq/mCQgNiCfNQKq'}}
0:45:55.128840	LOG	Server ----------> DUT
0:45:55.130841	LOG	Send Test Command TxFramesCtrlReq process completed
0:45:55.134388	LOG	Check previous uplink data rate process starts
0:45:55.139384	LOG	Uplink received with expected Data Rate
0:45:55.142387	LOG	Send Test Command TxFramesCtrlReq process starts
0:45:56.067386	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:45:56.069900	LOG	Previous uplink Frame type (FType): 011
0:45:56.070905	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA

0:45:56.072907	LOG	Previous uplink Frame type (FType): 011
0:46:00.019311	LOG	First uplink received. Open reception window.
0:46:00.134157	LOG	PUSH_ACK: 02 fa2f 01
0:46:00.136126	LOG	GPS Time from gateway: 1385118808623
0:46:00.137125	LOG	PUSH_DATA: Protocol version = 02, Token = fa2f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 377801511, 'time': '2023-11-27T11:13:09.623621Z', 'tmms': 1385118808623, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACANwgCEMUTzkSuQJW0W9o='}]}
0:46:00.139126	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0837, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 95b45bda)
0:46:00.141127	LOG	Server <-------------------- DUT
0:46:00.142157	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0503, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: dd336d46)
0:46:00.144164	LOG	Frame command sent to the DUT
0:46:00.145157	LOG	PULL_RESP: Protocol version = 02, Token = f050, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 378801511, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAAwXgvl1btGEuQE3IS69wpYTyY3J1YLj7nCmXf4uxo+39B691noi EziVyNemVnFuRNpodh+2BumMQ+PIXwy3IUUqygTwvMf2uQGafll0BCIPtUJR GyhD5gtivNI7/rjSteH0KI2vWq7K9IIYXHFqqjr1tR7r3xrdagtuuKz/9toRDKOB6fo rXwICqkJzjtppT0aqLOGPEMeV5qGztL75+z16p3KF4kCxKAdxhOa9ZJSAEzLR U4Tkuq6XKaKAGIVS5+DgC9JFmmdBwaFOBpqYWsz0mUxsri9LzyrEXtT8UvG TBX+kuoD5JcmhhXsap5QlEZuN2rJvdM21G'}}
0:46:00.147195	LOG	Server --------------------> DUT
0:46:00.150167	LOG	Send Test Command TxFramesCtrlReq process completed
0:46:00.153163	LOG	Check previous uplink data rate process starts
0:46:00.157160	LOG	Uplink received with expected Data Rate
0:46:00.160663	LOG	Send Test Command TxFramesCtrlReq process starts
0:46:01.063256	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:46:01.065279	LOG	Previous uplink Frame type (FType): 011
0:46:01.067262	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:46:01.068261	LOG	Previous uplink Frame type (FType): 011
0:46:05.020355	LOG	First uplink received. Open reception window.
0:46:05.123475	LOG	PUSH_ACK: 02 ca89 01
0:46:05.125442	LOG	GPS Time from gateway: 1385118813623
0:46:05.126440	LOG	PUSH_DATA: Protocol version = 02, Token = ca89, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 382801255, 'time': '2023-11-27T11:13:14.623364Z', 'tmms': 1385118813623, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAOAgCsnCzHjwCdB/HAOA='}]}
0:46:05.128442	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0838, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1fc700e0)
0:46:05.129446	LOG	Server <-------------------- DUT
0:46:05.131448	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0504, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010

		1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 18609d78)
0:46:05.132959	LOG	Frame command sent to the DUT
0:46:05.134964	LOG	PULL_RESP: Protocol version = 02, Token = 54b3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 383801255, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAABAXge0QTrf5Q4naTXInDlCalYRZ/9st12Q6YxVS/7MbJ78Z8o5nH Ssv/DDW7CEpt3llUPYBCzXh623HagBNhWuDcitfWHykyOBt/TtQmdhyPSbaZ7 xYGA6kCkcUqmC5El2SNL3t0ONQVIQZS4SgL5rdmOYTXcFt9lan8XnhpxYUhz 6dPdpzeQ/x24VI6q6JTE5Pspl0eEoPupJbGexYk5jlUFQ7XbYsZvM8lUJKQn/Eku 2KcoixGbLCxJlUM0pDqBo79bZpqBitLMNftMReF1Vu9O6OKL741Wwd4HpE/u ZBvdZj3uRnmv6Lc3wtPYWQNiKn6pYQYYJ14'}}
0:46:05.135964	LOG	Server --------------------> DUT
0:46:05.138963	LOG	Send Test Command TxFramesCtrlReq process completed
0:46:05.141966	LOG	Check previous uplink data rate process starts
0:46:05.145963	LOG	Uplink received with expected Data Rate
0:46:05.148965	LOG	Send Test Command TxFramesCtrlReq process starts
0:46:06.062818	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:46:06.064819	LOG	Previous uplink Frame type (FType): 011
0:46:06.066325	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:46:06.068337	LOG	Previous uplink Frame type (FType): 011
0:46:10.020557	LOG	First uplink received. Open reception window.
0:46:10.132476	LOG	PUSH_ACK: 02 8124 01
0:46:10.134480	LOG	GPS Time from gateway: 1385118818622
0:46:10.136483	LOG	PUSH_DATA: Protocol version = 02, Token = 8124, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 387800996, 'time': '2023-11-27T11:13:19.623104Z', 'tmms': 1385118818622, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACAOQgChTIrNMO5YfKVJKA='}]}
0:46:10.137483	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0839, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f29524a0)
0:46:10.139494	LOG	Server <-------------------- DUT
0:46:10.141514	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0505, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 75aafb76)
0:46:10.142514	LOG	Frame command sent to the DUT
0:46:10.144513	LOG	PULL_RESP: Protocol version = 02, Token = b2f4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 388800996, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAABQXgYH1o0Kd1hof8DJK/viDFG7bG5DsmvUNN3oN0YfLY3+KZ 1u75BV4q2iOdsK+YlySiSr7xNOKQEjMXOYQyxl7xvfH/g0HGWbJ37MkKRynA oDQ4HgvglntBHbAFPTj/G+iqIGGsCUB3jS9Ofd+I3xHix4e470CGWhZU9kAede UV/e9xXt5CVRNsUCeED2CgEV1luB1ygnoBbtBt1rEPJN8YazS2MWKLGMgm5 CL/KGOlnt0QdKe2YNGV59PRn7UaViVUc7y7SljqQCLANgG19E1OleCgDMXx NZlSv+q6Gpea+tw3tqgsuyr1wJZX1kgdma34JDp1qvt2'}}
0:46:10.145514	LOG	Server --------------------> DUT
0:46:10.148523	LOG	Send Test Command TxFramesCtrlReq process completed

0:46:10.151529	LOG	Check previous uplink data rate process starts
0:46:10.155530	LOG	Uplink received with expected Data Rate
0:46:10.159529	LOG	Send Test Command TxFramesCtrlReq process starts
0:46:11.058648	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:46:11.059647	LOG	Previous uplink Frame type (FType): 011
0:46:11.061643	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:46:11.063615	LOG	Previous uplink Frame type (FType): 011
0:46:15.015408	LOG	First uplink received. Open reception window.
0:46:15.126414	LOG	PUSH_ACK: 02 3ce1 01
0:46:15.128381	LOG	GPS Time from gateway: 1385118823622
0:46:15.129380	LOG	PUSH_DATA: Protocol version = 02, Token = 3ce1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 392800732, 'time': '2023-11-27T11:13:24.622839Z', 'tmms': 1385118823622, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAOggCWiqaqv7ySC2nOd0='}]}
0:46:15.131381	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 083a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2da739dd)
0:46:15.132386	LOG	Server <-------------------- DUT
0:46:15.134391	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0506, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 4b32fec9)
0:46:15.136391	LOG	Frame command sent to the DUT
0:46:15.138392	LOG	PULL_RESP: Protocol version = 02, Token = e0b4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 393800732, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAABgXgE+pci+y8m4JM1Znpg56rOOPNTnxLRX8aeUZ+DjNEOweo MZY3Q1s7eCbkH3tudoyvlMhaTPQNllrN3YwmL9dJxlJJr2fMG/ZN3p9Aulmd8x ApmsonMa5Fc6GQheVHfGnhSoXSB1GW5CQK9uk7AWC8ScSoJqX7EEigT0Jh gkCOjvBMzx0TntmdPpWkRpZpKtNhaP4fOtFzfQ3yVBRN54xG2s5zyxiYR9MX pSYd8oPWq5ym1ADxCxrfAKR6ap8cAff1lSdsGrfI7wovWYAl0J1vEWfuOGbZn 1j5BZGKIjpukScZkOJ/VlX+Q+EeI+y41Zmv1l5LMv7J'}}
0:46:15.139391	LOG	Server --------------------> DUT
0:46:15.142391	LOG	Send Test Command TxFramesCtrlReq process completed
0:46:15.145392	LOG	Check previous uplink data rate process starts
0:46:15.149463	LOG	Uplink received with expected Data Rate
0:46:15.152462	LOG	Send Test Command TxFramesCtrlReq process starts
0:46:16.059582	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:46:16.060613	LOG	Previous uplink Frame type (FType): 011
0:46:16.062581	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:46:16.063582	LOG	Previous uplink Frame type (FType): 011
0:46:20.019572	LOG	First uplink received. Open reception window.
0:46:20.135079	LOG	PUSH_ACK: 02 4424 01
0:46:20.137080	LOG	GPS Time from gateway: 1385118828622
0:46:20.138080	LOG	PUSH_DATA: Protocol version = 02, Token = 4424, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 397800475, 'time': '2023-11-27T11:13:29.622581Z', 'tmms': 1385118828622, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAOwgCrlWUmzyaPrzIOPc='}]}
0:46:20.140049	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 083b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: bcc838f7)

0:46:20.141079	LOG	Server <-------------------- DUT
0:46:20.143080	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0507, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 634e896e)
0:46:20.144079	LOG	Frame command sent to the DUT
0:46:20.146048	LOG	PULL_RESP: Protocol version = 02, Token = 68ac, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 398800475, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAABwXg6PLumg+rBQHQn1q8/ppYUbzPHejZz5oJL6zERLB8evMIVc tCuaESblrdkVJLR5oTNkhO1uQWDdAiBYc33LuDEX02Pxis6hzYkqgLTmebnJT wIruH+DDDpaDHq8myCBiekFpPOFoWKuGlxDYtby2FnT9ZgEt/A7O8fkfdmDlf h0syxQYzKxjhrPIuii3ZKTsKOFtddQsXpAORFTcx+RpGsw/YNIthq3afKbaG6DF b5Lyi4bkjAVNHy1NfieCV6nBofIdhlvkvPUDS9pr3XtkShEqadjncFZpb/XD7Ue5d YzSy4ofLjUBcfczwY1s/1hkPnwtjTolu'}}
0:46:20.147047	LOG	Server --------------------> DUT
0:46:20.150049	LOG	Send Test Command TxFramesCtrlReq process completed
0:46:20.153049	LOG	Check previous uplink data rate process starts
0:46:20.158100	LOG	Uplink received with expected Data Rate
0:46:20.161050	LOG	Send Test Command TxFramesCtrlReq process starts
0:46:21.062618	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:46:21.064634	LOG	Previous uplink Frame type (FType): 011
0:46:21.066639	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:46:21.068657	LOG	Previous uplink Frame type (FType): 011
0:46:25.014306	LOG	First uplink received. Open reception window.
0:46:25.116443	LOG	PUSH_ACK: 02 014b 01
0:46:25.118415	LOG	GPS Time from gateway: 1385118833621
0:46:25.119414	LOG	PUSH_DATA: Protocol version = 02, Token = 014b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 402800214, 'time': '2023-11-27T11:13:34.622319Z', 'tmms': 1385118833621, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAPAgCXfurcQmcfa5klXg='}]}
0:46:25.121416	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 083c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ae649578)
0:46:25.122420	LOG	Server <-------------------- DUT
0:46:25.124425	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0508, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: fcd0014d)
0:46:25.126459	LOG	Frame command sent to the DUT
0:46:25.127458	LOG	PULL_RESP: Protocol version = 02, Token = 6b0b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 403800214, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAACAXgEw/RyW8cnMl3BThrDLhjxzd7tJIJzjlFFVGBLEmu79ZePxn3 6YRqi3BDKlvkEFJKzhZRNqf9S4mkBR+u3BwcJnuu9JmwAVl+yzGccmTcSSEl

		whvzcJBan+B3oP4ZIQg4Q1qBbIX/HJ8ugnd7ewtQ2Tqco8RjVanc/A7R9Ei6T8WfcYdd0Bw5LSbSOOToRwGbl02nXBRwGj4ZRvAtF77LercVyCrz+KLrHbqczhZyiLO3wuQpoRDAFvGiNM4ErqAlYwDko4GMCNgAJS29KkroYwVq7UeppvMBGpuJdY6KewaFpD8yaRtiM8bZwBriVK/pzGj80AFN'}}
0:46:25.129463	LOG	Server --------------------> DUT
0:46:25.131458	LOG	Send Test Command TxFramesCtrlReq process completed
0:46:25.135584	LOG	Check previous uplink data rate process starts
0:46:25.139582	LOG	Uplink received with expected Data Rate
0:46:25.142621	LOG	Send Test Command TxFramesCtrlReq process starts
0:46:25.336154	LOG	GPS Time updated: 1385118833943
0:46:25.338157	LOG	PULL_DATA: 02 c2ec 02 0016c001ff1025bf
0:46:25.339157	LOG	PULL_ACK: 02 c2ec 04
0:46:26.065108	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:46:26.067106	LOG	Previous uplink Frame type (FType): 011
0:46:26.069116	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:46:26.070635	LOG	Previous uplink Frame type (FType): 011
0:46:29.904422	LOG	#***************************CURRENT BEACON SENT***************************#
0:46:29.906421	LOG	PULL_RESP: Protocol version = 02, Token = 74e5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385118848000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAPI9S7RwAAAAAAAAAAAA='}}
0:46:29.907389	LOG	Server --------------------> DUT
0:46:29.909510	LOG	#**#
0:46:29.919009	LOG	#***************************NEXT BEACON QUEUED***************************#
0:46:29.921009	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385118976000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAPY9S5fYAAAAAAAAAAAA='}}
0:46:29.922009	LOG	Server --------------------> DUT
0:46:29.923012	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 003d8f52, CRC1: e5f6, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385118976000
0:46:29.925009	LOG	#**#
0:46:29.926009	LOG	Next BEACON scheduled at GPS time (ms): 1385119104000
0:46:29.927009	LOG	TX_ACK: 02 74e5 05 0016c001ff1025bf
0:46:30.018580	LOG	First uplink received. Open reception window.
0:46:30.129145	LOG	PUSH_ACK: 02 2978 01
0:46:30.131161	LOG	GPS Time from gateway: 1385118838621
0:46:30.132663	LOG	PUSH_DATA: Protocol version = 02, Token = 2978, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 407799962, 'time': '2023-11-27T11:13:39.622065Z', 'tmms': 1385118838621, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAPQgCRzhZA2fl2XiDRic='}]}
0:46:30.133668	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 083d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 78834627)
0:46:30.135677	LOG	Server <-------------------- DUT
0:46:30.137669	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0509, FOpts:), FPort: e0, FRMPayload: 070001

		0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: ef1651fc)
0:46:30.139667	LOG	Frame command sent to the DUT
0:46:30.140668	LOG	PULL_RESP: Protocol version = 02, Token = 6612, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 408799962, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAACQXg6GtHVzbiLHmsAdNOtI/xKsV6zHV7yrASzbSxcNti9YYGsw SRxUwMQYwhwA+PAgKpnWwHk1F8Lw2iCibb+/cOHMmi8eSIGmQuDk2OYs h3UaofiV+FieGiFb4TtFHhbuJETWYFhGM1yxMkjwaphEdGg3k68GxFmWikON QK/aUBOTViYd+yGW88sZrEBN7+AFmizMMUqFfr43S64nRfq2EQxz09cVBIaE ZjgrQMbwnFY8PSQ7TOCqcyugvaFYa7DFKdtqVcy6wQtZraPKUgG4kIOzdqKX m3d8D9/l+U3vyc5BTllP/slQ2U4dccWAKzfKlKQuHvFlH8'}}
0:46:30.142702	LOG	Server --------------------> DUT
0:46:30.145675	LOG	Send Test Command TxFramesCtrlReq process completed
0:46:30.148996	LOG	Check previous uplink data rate process starts
0:46:30.154009	LOG	Uplink received with expected Data Rate
0:46:30.157005	LOG	Send Test Command TxFramesCtrlReq process starts
0:46:31.055792	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:46:31.057758	LOG	Previous uplink Frame type (FType): 011
0:46:31.058758	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:46:31.059758	LOG	Previous uplink Frame type (FType): 011
0:46:35.012561	LOG	First uplink received. Open reception window.
0:46:35.114425	LOG	PUSH_ACK: 02 0110 01
0:46:35.116387	LOG	GPS Time from gateway: 1385118843621
0:46:35.117387	LOG	PUSH_DATA: Protocol version = 02, Token = 0110, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 412799704, 'time': '2023-11-27T11:13:44.621808Z', 'tmms': 1385118843621, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAPggC4DrM0zld/aZsZwU='}]}
0:46:35.119394	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 083e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a66c6705)
0:46:35.120399	LOG	Server <-------------------- DUT
0:46:35.122399	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 050a, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 1184f183)
0:46:35.124399	LOG	Frame command sent to the DUT
0:46:35.125399	LOG	PULL_RESP: Protocol version = 02, Token = 75a7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 413799704, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAACgXgbSMj/hw+vSLDbsfJ6+dzNySSfrpVAx+QZ8m52lNi/RsFhnM 0772Brt93E/WsE0UzOLVFDpz6SJSE0zAEQr2tYpO5omirFoNMUHllO5M0wEnx 8+cINpdBGR0oxYgqH0KQO55hxwYxyIKfwV340inHR+G5Uz3eGFXF7yg0qfblk 9l3184QNNBS81x9SdwwcXprEL/pIJzStSqQ9wegywe8r3DmZnz9p5xCIAIOasW9 IvbeCU8pcohoxpkiAlptt0zy5jwxgTLqsEsGxeEqCRRieUORQ0dnRoULDNCteKU vy9NQO59QGfUdS5/cVxTFRonaOhURhPGD'}}
0:46:35.127399	LOG	Server --------------------> DUT
0:46:35.130433	LOG	Send Test Command TxFramesCtrlReq process completed
0:46:35.132904	LOG	Check previous uplink data rate process starts

0:46:35.137911	LOG	Uplink received with expected Data Rate
0:46:35.140942	LOG	Send Test Command TxFramesCtrlReq process starts
0:46:35.547510	LOG	GPS Time updated: 1385118844156
0:46:35.548538	LOG	PULL_DATA: 02 9a31 02 0016c001ff1025bf
0:46:35.550539	LOG	PULL_ACK: 02 9a31 04
0:46:36.056103	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:46:36.058132	LOG	Previous uplink Frame type (FType): 011
0:46:36.059139	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:46:36.061110	LOG	Previous uplink Frame type (FType): 011
0:46:40.013646	LOG	First uplink received. Open reception window.
0:46:40.120913	LOG	PUSH_ACK: 02 55ac 01
0:46:40.122914	LOG	GPS Time from gateway: 1385118848621
0:46:40.123915	LOG	PUSH_DATA: Protocol version = 02, Token = 55ac, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 417799450, 'time': '2023-11-27T11:13:49.621553Z', 'tmms': 1385118848621, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACAPwgCesVya4Ga99rdcaQ='}]}
0:46:40.125915	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 083f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: dadd71a4)
0:46:40.126920	LOG	Server <-------------------- DUT
0:46:40.128926	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 050b, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 40c3d187)
0:46:40.130947	LOG	Frame command sent to the DUT
0:46:40.132428	LOG	PULL_RESP: Protocol version = 02, Token = 68a5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 418799450, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAACwXg2zEY55fAztCb75wwFsFyTb8TTgDjL9eLfdUgPE0RvYblyOt MCPRFq4BL/rfTHSU0IoAqjA7OEz3wVSnuvC9DU/3YBHnvD1z0+00KZcF1c8I 4xVgZHbjAJ1Basn/MzpJ0/o+jB4fYgYJ1gITcRCRUPT7i5ynTX8gqi3gMtIhjQsoIu SQHSUKDSdgg3Fn+ia4o5K274h6JKeDXOsPxA8lFiY64CCUIAJrVbW53P8G1p kzLP5ebTKd4Gq+C+Vt5bosW0/c74ktR0hH3EtZbKqefzavRfVWcsxzZ5lWoGUSc P9tIj7GoO+FjR5dq/I2puyMQE8hAw9GH'}}
0:46:40.134314	LOG	Server --------------------> DUT
0:46:40.137365	LOG	Send Test Command TxFramesCtrlReq process completed
0:46:40.140707	LOG	Check previous uplink data rate process starts
0:46:40.144770	LOG	Uplink received with expected Data Rate
0:46:40.148771	LOG	Send Test Command TxFramesCtrlReq process starts
0:46:41.061034	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:46:41.063057	LOG	Previous uplink Frame type (FType): 011
0:46:41.065058	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:46:41.067070	LOG	Previous uplink Frame type (FType): 011
0:46:45.017427	LOG	First uplink received. Open reception window.
0:46:45.118581	LOG	PUSH_ACK: 02 8e26 01
0:46:45.120549	LOG	GPS Time from gateway: 1385118853620
0:46:45.121549	LOG	PUSH_DATA: Protocol version = 02, Token = 8e26, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 422799185, 'time': '2023-11-27T11:13:54.621287Z', 'tmms': 1385118853620, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu':

		'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAQAgCRRpjMJDRklEj5RM='}]}
0:46:45.123552	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0840, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5123e513)
0:46:45.124552	LOG	Server <-------------------- DUT
0:46:45.126556	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 050c, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 73e91129)
0:46:45.128590	LOG	Frame command sent to the DUT
0:46:45.129587	LOG	PULL_RESP: Protocol version = 02, Token = 877b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 423799185, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAADAXgTY56aMN9v6lQ9L9SUKkut0LzC1ebtSkUjigNRRD43SUktjg B0Ytlw41osKv6QVfK/BoMNpcf9RucMimvhI7V5GORYutb/1dafKmkAw5tKEjX xgk+7wDk6pEebTRin96bvdO8S5Pw1nif4P8opNpNgWOjRr7dpbH12wMBytgII5v GmlWtvp/2tw+uSHCV4enMYLNLhwVvHN7vZYbnDHYvfmyF+4KHbiR9eevkO lfMoj8pICIolP7875SsqQX43SrpQrEwTIOFVqXMGzizVsImSTgVWPLJJuzwiBW boKBllSQ0XVLyHhmcq2IGOA9FM5QSErhz6REp'}}
0:46:45.131592	LOG	Server --------------------> DUT
0:46:45.134140	LOG	Send Test Command TxFramesCtrlReq process completed
0:46:45.137169	LOG	Check previous uplink data rate process starts
0:46:45.142138	LOG	Uplink received with expected Data Rate
0:46:45.145169	LOG	Send Test Command TxFramesCtrlReq process starts
0:46:45.756755	LOG	GPS Time updated: 1385118854359
0:46:45.758257	LOG	PULL_DATA: 02 748d 02 0016c001ff1025bf
0:46:45.759277	LOG	PULL_ACK: 02 748d 04
0:46:46.054853	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:46:46.055911	LOG	Previous uplink Frame type (FType): 011
0:46:46.057879	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:46:46.058879	LOG	Previous uplink Frame type (FType): 011
0:46:50.010288	LOG	First uplink received. Open reception window.
0:46:50.121544	LOG	PUSH_ACK: 02 b1d2 01
0:46:50.123578	LOG	GPS Time from gateway: 1385118858620
0:46:50.124579	LOG	PUSH_DATA: Protocol version = 02, Token = b1d2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 427798926, 'time': '2023-11-27T11:13:59.621027Z', 'tmms': 1385118858620, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAQQgCDmGPgKCkehJQVqo='}]}
0:46:50.126548	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0841, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 125056aa)
0:46:50.127556	LOG	Server <-------------------- DUT
0:46:50.129592	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 050d, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101

		0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 491b35c3)
0:46:50.131554	LOG	Frame command sent to the DUT
0:46:50.132586	LOG	PULL_RESP: Protocol version = 02, Token = 67ae, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 428798926, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAADQXgYCs3AOosdDh+SXVy/De0XBEpFAMyjLJM8tZcl02gx/PKSvN4PL4J7LyuBanQ65uRGxsP/L+0rX0dgFty7q+5rw8rK/yTzNtlG1ukr6V4gasnqEJWY0y8qQmlwFzFoGmm5YUBHfTKFaQuXs2LTNihXBJi66vE3E+ymZiFdr12ne78NGhuFSZx7Bt95naOiR/8p70JmDu+O8o0CWQiUjI63S2SFm6sEJ/11et8Ru0Ea92hCq1F1Olj32D36L00Nd/mRyAD989l9VMUvIplgizYqEIvdEg5DGGGiajFnN9fUYxmR2nROZWBDpBZAvGHJqttfO9JGzXD'}}
0:46:50.134728	LOG	Server --------------------> DUT
0:46:50.137690	LOG	Send Test Command TxFramesCtrlReq process completed
0:46:50.140687	LOG	Check previous uplink data rate process starts
0:46:50.144685	LOG	Uplink received with expected Data Rate
0:46:50.147686	LOG	Send Test Command TxFramesCtrlReq process starts
0:46:51.061470	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:46:51.063477	LOG	Previous uplink Frame type (FType): 011
0:46:51.065475	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:46:51.067480	LOG	Previous uplink Frame type (FType): 011
0:46:55.016636	LOG	First uplink received. Open reception window.
0:46:55.123644	LOG	PUSH_ACK: 02 1dfd 01
0:46:55.125610	LOG	GPS Time from gateway: 1385118863620
0:46:55.126643	LOG	PUSH_DATA: Protocol version = 02, Token = 1dfd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 432798670, 'time': '2023-11-27T11:14:04.620770Z', 'tmms': 1385118863620, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAQggCCUWebdk0sO0Ng68='}]}
0:46:55.128612	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0842, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ed0d83af)
0:46:55.129644	LOG	Server <-------------------- DUT
0:46:55.132645	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 050e, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: c40bf149)
0:46:55.134744	LOG	Frame command sent to the DUT
0:46:55.135743	LOG	PULL_RESP: Protocol version = 02, Token = 5ad8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 433798670, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAADgXgysAqqCl7hmMnyVSzAe4zWCgg4AEb2B5C+IvRR/luhDxwqOBPyzetciV6o0eU6LVorWbTVoMCI84/zPoXQs5jE5EXEIhr5CLZ7LpqZ9IlcSVTAju7dFZEyyIr8L9rxGGZbiyFMUdeJYzEAmTXBqb9p5RI/VnwHgyQxym0nLvqvB1647Yqpfjtbknn0dCVd4jambHT+oZQ9HlEn7oLE/4CQV0KPrpjk6uCi3UjZYoC9A99EPkyhZcrc0Ob12BaVIAokgIWlzL40rCsrBJqmC3VZWnbjdF8mGoMO5zVRvprgZhOAUs0RMJOkfzc6MobKPNP4B/EC/FJ'}}
0:46:55.137742	LOG	Server --------------------> DUT
0:46:55.140742	LOG	Send Test Command TxFramesCtrlReq process completed
0:46:55.142743	LOG	Check previous uplink data rate process starts
0:46:55.147776	LOG	Uplink received with expected Data Rate
0:46:55.150813	LOG	Send Test Command TxFramesCtrlReq process starts

0:46:55.766501	LOG	GPS Time updated: 1385118864370
0:46:55.767501	LOG	PULL_DATA: 02 9f10 02 0016c001ff1025bf
0:46:55.770545	LOG	PULL_ACK: 02 9f10 04
0:46:56.056060	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:46:56.057087	LOG	Previous uplink Frame type (FType): 011
0:46:56.059054	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:46:56.061064	LOG	Previous uplink Frame type (FType): 011
0:47:00.028106	LOG	First uplink received. Open reception window.
0:47:00.140550	LOG	PUSH_ACK: 02 cfbb 01
0:47:00.142516	LOG	GPS Time from gateway: 1385118868620
0:47:00.143515	LOG	PUSH_DATA: Protocol version = 02, Token = cfbb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 437798401, 'time': '2023-11-27T11:14:09.620500Z', 'tmms': 1385118868620, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACAQwgC81HbnhG4g+PUYVE='}]}
0:47:00.145517	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0843, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e3d46151)
0:47:00.146515	LOG	Server <-------------------- DUT
0:47:00.148515	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 050f, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 03b09b76)
0:47:00.150520	LOG	Frame command sent to the DUT
0:47:00.151520	LOG	PULL_RESP: Protocol version = 02, Token = ee29, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 438798401, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAADwXgdQNSNzylybjvBQ6sGrZ6E8FGSndARPD0Rm7pwYD6LBdqYxov/g1f8oimZ+9n0+GeRfxT3UNGVZFKOnDYqncKqUSMnjDxHAylzo45Mfbe++42kqapwwRvBI/+k6q27Eb872gplUlg0+xcBpPtbB7SKh+Ng5XL8MdV0vhpftqjUBVhu1LobjRYPkEXmbYNu5X+/kFA8Xo1ydPiZcSYAnWkjDQHRwIep+P54Z4hTtrSZc5J17hyWX+GJ/AFlHe+ywhtw0iGM2FQPQ0BTRQ9eAKpoxMHjJFXtzi71bwp44e4XNXcNS92+265xeyxS5R9wyZBlZMDsJt2'}}
0:47:00.153520	LOG	Server --------------------> DUT
0:47:00.156522	LOG	Send Test Command TxFramesCtrlReq process completed
0:47:00.159519	LOG	Check previous uplink data rate process starts
0:47:00.164059	LOG	Uplink received with expected Data Rate
0:47:00.168076	LOG	Send Test Command TxFramesCtrlReq process starts
0:47:01.057781	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:47:01.059771	LOG	Previous uplink Frame type (FType): 011
0:47:01.061770	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:47:01.063772	LOG	Previous uplink Frame type (FType): 011
0:47:05.009471	LOG	First uplink received. Open reception window.
0:47:05.111587	LOG	PUSH_ACK: 02 cbaf 01
0:47:05.113555	LOG	GPS Time from gateway: 1385118873619
0:47:05.114559	LOG	PUSH_DATA: Protocol version = 02, Token = cbaf, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 442798153, 'time': '2023-11-27T11:14:14.620250Z', 'tmms': 1385118873619, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACARAgCCgCkqgsfR+WhWOY='}]}
0:47:05.116561	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0844, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e5a158e6)

0:47:05.117560	LOG	Server <-------------------- DUT
0:47:05.119560	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0510, FOpts:), FPort: e0, FRMPayload: 070001), MIC: cc474b46)
0:47:05.121560	LOG	Frame command sent to the DUT
0:47:05.122559	LOG	PULL_RESP: Protocol version = 02, Token = 5f39, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 443798153, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAEAXgMzJM/CvM3Tla6yiNyP4JAoTvVW6/flpHm4uE4tchwF472Wg9Y7uiSsGZFCIXxIuk9AD0eiZxWwPHZpjeD3ei0MEJir49nTeJtNy19bwuaTczJQvbGaRlBz9b9vyTHjdiOil8dGt9owJJrCQiFUeoj4Zg1/b4KRsNLvF8LKTrfoHDtUJFFOcvN5XVMscfwq/DH346cWjJA7s1eBPUdpyIk/TTtyw3gWOHgvyYiAz8pW34wVj1UgvRRppoDfMVWZYR22fEs+nplXVU0S/chcSyc0gS0vURdf/XFO8s27cxjr50qB7G7Gyv5QBPduMo+NQOMNbMR0tG'}}
0:47:05.124560	LOG	Server --------------------> DUT
0:47:05.127560	LOG	Send Test Command TxFramesCtrlReq process completed
0:47:05.130069	LOG	Check previous uplink data rate process starts
0:47:05.134617	LOG	Uplink received with expected Data Rate
0:47:05.137614	LOG	Send Test Command TxFramesCtrlReq process starts
0:47:05.966671	LOG	GPS Time updated: 1385118874575
0:47:05.967673	LOG	PULL_DATA: 02 0163 02 0016c001ff1025bf
0:47:05.969673	LOG	PULL_ACK: 02 0163 04
0:47:06.053148	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:47:06.055126	LOG	Previous uplink Frame type (FType): 011
0:47:06.056130	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:47:06.058132	LOG	Previous uplink Frame type (FType): 011
0:47:10.011487	LOG	First uplink received. Open reception window.
0:47:10.118412	LOG	PUSH_ACK: 02 10e8 01
0:47:10.120381	LOG	GPS Time from gateway: 1385118878619
0:47:10.121380	LOG	PUSH_DATA: Protocol version = 02, Token = 10e8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 447797896, 'time': '2023-11-27T11:14:19.619994Z', 'tmms': 1385118878619, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACARQgCO/3x/8ddyjfb/Go='}]}
0:47:10.123382	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0845, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 37dbfc6a)
0:47:10.124388	LOG	Server <-------------------- DUT
0:47:10.126394	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0511, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 222154a1)
0:47:10.128430	LOG	Frame command sent to the DUT
0:47:10.129427	LOG	PULL_RESP: Protocol version = 02, Token = f191, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 448797896, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000,

		'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAEQXgvYeHPC68u3tzJqBF6wFKHcIUmVCuDjsKiIwpMHrAPe0J9UvPbnTPc99GHLwzCAxpOjzJm4Z9V3bxFpohn4dkiz+p4w2vNjCsYyh8WHems710KEpAbjLlunu4kK6NmNWvIsyBDM0qXhMzCJ6zlCdrUnuPN/hwgHJgn189TMO/Vv5mmLlYTcYIfZxrhwQ6xOzptSSmWukcQCVqkcRBX0spDYv3gH3I5WRji87GLCsCcyC9Kj3VOMSrmLxHoM61t2FZ4eQ2UfFB3MqNNtPpAfPfQC1uz4mGj4LDcc6tGf7t7AaxBoreM+sEz4Y88PNxdojcJwkiIVSh'}}
0:47:10.131431	LOG	Server --------------------> DUT
0:47:10.134530	LOG	Send Test Command TxFramesCtrlReq process completed
0:47:10.137135	LOG	Check previous uplink data rate process starts
0:47:10.142101	LOG	Uplink received with expected Data Rate
0:47:10.145100	LOG	Send Test Command TxFramesCtrlReq process starts
0:47:11.052558	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:47:11.053557	LOG	Previous uplink Frame type (FType): 011
0:47:11.054592	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:47:11.056634	LOG	Previous uplink Frame type (FType): 011
0:47:15.006195	LOG	First uplink received. Open reception window.
0:47:15.122793	LOG	PUSH_ACK: 02 0f5c 01
0:47:15.124795	LOG	GPS Time from gateway: 1385118883619
0:47:15.125828	LOG	PUSH_DATA: Protocol version = 02, Token = 0f5c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 452797632, 'time': '2023-11-27T11:14:24.619729Z', 'tmms': 1385118883619, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACARggCr9/GVQiJdUI0VUc='}]}
0:47:15.127797	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0846, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 42345547)
0:47:15.128843	LOG	Server <-------------------- DUT
0:47:15.130803	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0512, FOpts:), FPort: e0, FRMPayload: 070001), MIC: e2aa9a83)
0:47:15.132339	LOG	Frame command sent to the DUT
0:47:15.134378	LOG	PULL_RESP: Protocol version = 02, Token = 8512, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 453797632, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAEgXgDDSKkNPM1JjE9YcvGc0TfzX3z+nWLQb7geMAXVCQ1if5Vv5bZWRT7qJUv4nYxyt7JId7sDAmz4m266JCNNTOYVvGFeRtRGjTOXKz4X8IF22GbUW+1e4ZnajPi/gNXSVtJ4i2iTYTltvceL/Hy1mrI0KpMP5e8yf0OElvbPeHo69pOt2QddpU4IX7RNJKvuJ7rhzqWGb2hB4zO4jRAasJbUAdERB1Ah22Nn3BHbwMdYLQUl8UTE3oTo9UcqqTiYB+6tmHVN+F+xh85mLtcQhkMwprfTHFJUFgT92GP6U422KSEqrTT4fBl2WzV1NT2LP3ZtPiqpqD'}}
0:47:15.135377	LOG	Server --------------------> DUT
0:47:15.138378	LOG	Send Test Command TxFramesCtrlReq process completed
0:47:15.140926	LOG	Check previous uplink data rate process starts
0:47:15.145930	LOG	Uplink received with expected Data Rate
0:47:15.148936	LOG	Send Test Command TxFramesCtrlReq process starts
0:47:15.976368	LOG	GPS Time updated: 1385118884589
0:47:15.977406	LOG	PULL_DATA: 02 2b63 02 0016c001ff1025bf
0:47:15.979374	LOG	PULL_ACK: 02 2b63 04
0:47:16.065350	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:47:16.066354	LOG	Previous uplink Frame type (FType): 011

0:47:16.068354	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:47:16.069858	LOG	Previous uplink Frame type (FType): 011
0:47:20.009470	LOG	First uplink received. Open reception window.
0:47:20.121882	LOG	PUSH_ACK: 02 3550 01
0:47:20.123849	LOG	GPS Time from gateway: 1385118888619
0:47:20.124848	LOG	PUSH_DATA: Protocol version = 02, Token = 3550, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 457797379, 'time': '2023-11-27T11:14:29.619475Z', 'tmms': 1385118888619, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACARwgCi9ZrDWYMXWeVTzs='}]}
0:47:20.126850	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0847, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 67954f3b)
0:47:20.127856	LOG	Server <-------------------- DUT
0:47:20.129862	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0513, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 2f487c2b)
0:47:20.130861	LOG	Frame command sent to the DUT
0:47:20.133371	LOG	PULL_RESP: Protocol version = 02, Token = 427c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 458797379, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAEwXgUzQIUGwLhVU0PYKK2ItHZ1SaUyzSQiIPPBr06s6R3pH4p 6k6mCJs+9y4CED68eh63mOjW/B8sO3YjjqFDVJXYk5BpwBDKRj333hn811Tea tmcK+UQDi2aG2XyNnClRwVqhSm9MSSy6tfwo9Sa8sz1KHzZ0thQmNB+TG5B h8j7TtEBfZZq1yHWiDhCHxE6bh+GRSCz7yG1Nx39vllB4kEZX/nrU8ckYsBeW n69l3534x25tbzdAB/7f5rJWlic3nMe/Vudo8Xs4UsENjsnjyfdt0SgVyhniEYQfDfi W0nQ39rh8Mt61AfOgvs2FRtnTctmuwvSHwr'}}
0:47:20.135371	LOG	Server --------------------> DUT
0:47:20.138372	LOG	Send Test Command TxFramesCtrlReq process completed
0:47:20.141371	LOG	Check previous uplink data rate process starts
0:47:20.145370	LOG	Uplink received with expected Data Rate
0:47:20.148877	LOG	Send Test Command TxFramesCtrlReq process starts
0:47:21.054323	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:47:21.055328	LOG	Previous uplink Frame type (FType): 011
0:47:21.057334	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:47:21.059337	LOG	Previous uplink Frame type (FType): 011
0:47:25.012750	LOG	First uplink received. Open reception window.
0:47:25.115235	LOG	PUSH_ACK: 02 4d2f 01
0:47:25.117200	LOG	GPS Time from gateway: 1385118893618
0:47:25.118206	LOG	PUSH_DATA: Protocol version = 02, Token = 4d2f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 462797118, 'time': '2023-11-27T11:14:34.619213Z', 'tmms': 1385118893618, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACASAgCjNvYBy9RW5FANT8='}]}
0:47:25.120206	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0848, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9140353f)
0:47:25.121211	LOG	Server <-------------------- DUT
0:47:25.123246	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0514, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101

		01010101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 40a0f37d)
0:47:25.125249	LOG	Frame command sent to the DUT
0:47:25.126245	LOG	PULL_RESP: Protocol version = 02, Token = 9311, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 463797118, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAFAXgZIzy6vhVeML68Ky9kmOKrJJpI4lhO6/9n3vy29H16nh4S/zgxaeta2EDo4lg4fIDsO8In3y/hJUJs7Sp37Itg1MbN4kSWZyXhQbo1XmdQeVP3FYdXpYX/0vhv/koQI93LXIi5HEBJJDi7CtKYK0D9YuY7lhvu07sGHT3kbFKBlEDuwLQqyQSNzoM5s+ql2lVzZLeCQBNNGqzLqNtB+9aCNnzD5q7KVxt3lrnIZu25Kv29NPuWIFyjZey1ep30nstYggIJw0WvLZLSSzdby8OtdXh4RITJyQ119mTn2VT/irJ7JTHqqiycYgpnoHk6arHu2NAoPN9'}}
0:47:25.128246	LOG	Server --------------------> DUT
0:47:25.130247	LOG	Send Test Command TxFramesCtrlReq process completed
0:47:25.133721	LOG	Check previous uplink data rate process starts
0:47:25.137727	LOG	Uplink received with expected Data Rate
0:47:25.141726	LOG	Send Test Command TxFramesCtrlReq process starts
0:47:26.057918	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:47:26.059912	LOG	Previous uplink Frame type (FType): 011
0:47:26.061917	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:47:26.063912	LOG	Previous uplink Frame type (FType): 011
0:47:26.176064	LOG	GPS Time updated: 1385118894782
0:47:26.177066	LOG	PULL_DATA: 02 8761 02 0016c001ff1025bf
0:47:26.179074	LOG	PULL_ACK: 02 8761 04
0:47:30.028638	LOG	First uplink received. Open reception window.
0:47:30.143782	LOG	PUSH_ACK: 02 1c7a 01
0:47:30.145750	LOG	GPS Time from gateway: 1385118898618
0:47:30.146750	LOG	PUSH_DATA: Protocol version = 02, Token = 1c7a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 467796846, 'time': '2023-11-27T11:14:39.618940Z', 'tmms': 1385118898618, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACASQgCcdJGa3TkfhUUTkQ='}]}
0:47:30.148750	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0849, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 15144e44)
0:47:30.149753	LOG	Server <-------------------- DUT
0:47:30.151784	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0515, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 610b188b)
0:47:30.153783	LOG	Frame command sent to the DUT
0:47:30.154786	LOG	PULL_RESP: Protocol version = 02, Token = 8ae2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 468796846, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAFQXg/LCjtKmOkn+pDoJrpjxkGCr8e9k8pS2caWnFORdIdsg7x5Ap9RBGs2DDq3BDKNgWgLGtIFrau0mShzRkVIc5+8TtcuwCeyfLF6jxyHXRPQFWJpeJZuVtVekGYEcs4VauJyFuG6Jzm5eC37wn/6W7+Kcx6EnzlhPje9AV8SFtBIE8Daajxd8AiNV614CptgPKcDaS+TDLSbfDDbMI0VI2edcIZYIY+m6j4SUwmN+N

		nT+A3yq4QvSEIXquzhqD+5A1Ab+alOi+Fs6SYTdRU3xt4JdKDJ9+Oyg6xTZkw5x307zOSIyiDrNeudekVv4NHrpZqCZhCxiL'}}
0:47:30.155783	LOG	Server --------------------> DUT
0:47:30.159347	LOG	Send Test Command TxFramesCtrlReq process completed
0:47:30.162332	LOG	Check previous uplink data rate process starts
0:47:30.166875	LOG	Uplink received with expected Data Rate
0:47:30.169874	LOG	Send Test Command TxFramesCtrlReq process starts
0:47:31.053719	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:47:31.054719	LOG	Previous uplink Frame type (FType): 011
0:47:31.055719	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:47:31.057725	LOG	Previous uplink Frame type (FType): 011
0:47:35.012696	LOG	First uplink received. Open reception window.
0:47:35.120687	LOG	PUSH_ACK: 02 2928 01
0:47:35.122688	LOG	GPS Time from gateway: 1385118903618
0:47:35.123689	LOG	PUSH_DATA: Protocol version = 02, Token = 2928, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 472796585, 'time': '2023-11-27T11:14:44.618678Z', 'tmms': 1385118903618, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACASggCSJAHw4XM/BtXLsI='}]}
0:47:35.125657	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 084a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1b572ec2)
0:47:35.126664	LOG	Server <-------------------- DUT
0:47:35.128697	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0516, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 6c3135f7)
0:47:35.130703	LOG	Frame command sent to the DUT
0:47:35.131695	LOG	PULL_RESP: Protocol version = 02, Token = e66f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 473796585, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAFgXg2DukOIrg/3ZyshvwyAV02ASqK8xgGFXbHKKqAkD4MeR8F5oBHlN9QrtitWeIGIX3f0AGwOcVpSNUSkzoQ5qYZ/vVcvQTeAm9STb+LFJVy0FwPEuzoSlClJ5/S6SWcOQ+YQPi7Y9WvjIrzTjQI6VfvXEzhD1q0jgbase1Y9UMnjSzuHzSIBMrTpjltTfmIymbwrjS8GugN4nEk1DeMjNK3X2YZN9b7cfFcNO3W+NFM2NRDXaWzXHaaplB0Ij5GjT7tuTDT0FKnE0/QF3Z6HdGrL+aCSkOszNlD+BohkB9XFLMfLoQmhMLSTsYcPQiX2u+xR5sMTX3'}}
0:47:35.132695	LOG	Server --------------------> DUT
0:47:35.135831	LOG	Send Test Command TxFramesCtrlReq process completed
0:47:35.138831	LOG	Check previous uplink data rate process starts
0:47:35.142800	LOG	Uplink received with expected Data Rate
0:47:35.146800	LOG	Send Test Command TxFramesCtrlReq process starts
0:47:36.052169	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:47:36.054185	LOG	Previous uplink Frame type (FType): 011
0:47:36.055166	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:47:36.057174	LOG	Previous uplink Frame type (FType): 011
0:47:36.386137	LOG	GPS Time updated: 1385118904993
0:47:36.387166	LOG	PULL_DATA: 02 7f5a 02 0016c001ff1025bf
0:47:36.389136	LOG	PULL_ACK: 02 7f5a 04
0:47:40.009231	LOG	First uplink received. Open reception window.
0:47:40.118640	LOG	PUSH_ACK: 02 dd66 01

0:47:40.120641	LOG	GPS Time from gateway: 1385118908618
0:47:40.121610	LOG	PUSH_DATA: Protocol version = 02, Token = dd66, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 477796332, 'time': '2023-11-27T11:14:49.618424Z', 'tmms': 1385118908618, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACASwgCUFlUovIiMDvWKbI='}]}
0:47:40.123610	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 084b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3bd629b2)
0:47:40.124647	LOG	Server <-------------------- DUT
0:47:40.126607	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0517, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 3aa62b46)
0:47:40.128642	LOG	Frame command sent to the DUT
0:47:40.129641	LOG	PULL_RESP: Protocol version = 02, Token = 79bb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 478796332, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAFwXgQrRsfYv++GGGjMPFppgWpiNOokssve535m7hW4cBnlEZ20G/ehMECLqrvHsRZ2tBctfvtM03ekhOZhtY3af5fX2+MKFZ906E/DVH5sB4gqm5qdTwD9nJivuvgvRN8K4Y/zCyF14xB/DYHxM17U2LqmxOJ57WP5e2WSTRtX+R73emcwK2+z190e/EKmds062wjKh5HpkB6QxCErd0zx+ooYwdJNtz97fcfUFQjjaxv0cQwDPKAnN11qnvaFRaK9bOl8lyAgymhrnBIpxuTkt3S3+ORCJCUMJ/PZCzzOrRYlVLC6SVSwJICm88uNmS9evD2BI6pitG'}}
0:47:40.130640	LOG	Server --------------------> DUT
0:47:40.134154	LOG	Send Test Command TxFramesCtrlReq process completed
0:47:40.137156	LOG	Check previous uplink data rate process starts
0:47:40.142152	LOG	Uplink received with expected Data Rate
0:47:40.145152	LOG	Send Test Command TxFramesCtrlReq process starts
0:47:41.055103	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:47:41.057108	LOG	Previous uplink Frame type (FType): 011
0:47:41.059114	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:47:41.061120	LOG	Previous uplink Frame type (FType): 011
0:47:45.009844	LOG	First uplink received. Open reception window.
0:47:45.117171	LOG	PUSH_ACK: 02 c224 01
0:47:45.119210	LOG	GPS Time from gateway: 1385118913617
0:47:45.120209	LOG	PUSH_DATA: Protocol version = 02, Token = c224, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 482796079, 'time': '2023-11-27T11:14:54.618169Z', 'tmms': 1385118913617, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACATAgCx3hvvgQJitAo3+k='}]}
0:47:45.122176	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 084c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d028dfe9)
0:47:45.123181	LOG	Server <-------------------- DUT
0:47:45.125181	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0518, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101

		01010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: e6fd0276)
0:47:45.127216	LOG	Frame command sent to the DUT
0:47:45.128219	LOG	PULL_RESP: Protocol version = 02, Token = 3b54, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 483796079, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAGAXgH+oWUmrQPEwM/OtoEF9Ztm0wFkk6mzTUaAZ1uhzWW/Oi2vk629Pl6GTVC4OPh4nPt+1I2p3XiIuWm0fyW9XPPzoA24ZPUTbte/1cluzGOq/CR8/V11QeO1Rv/qWqQMCkgc0yx7+NbOm19cTK9nOj9N2A13DEYthApIIse1/uAaNj+aZSEVNN/v3OkF4YFg/fFQvWcPhICdN3mv9wCbuM5ANkYHis6FCeSE05/hLXQyK2MtBOQCndJuphoud0WUKMPrb2EEB42ogwSpQHRfH+mRsGhWSwwKLcwelt7EpVzD3bewzAqY+Cj9XID77Nwk4IZsHm/QJ2'}}
0:47:45.130216	LOG	Server --------------------> DUT
0:47:45.132723	LOG	Send Test Command TxFramesCtrlReq process completed
0:47:45.136729	LOG	Check previous uplink data rate process starts
0:47:45.140729	LOG	Uplink received with expected Data Rate
0:47:45.143728	LOG	Send Test Command TxFramesCtrlReq process starts
0:47:46.056964	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:47:46.058620	LOG	Previous uplink Frame type (FType): 011
0:47:46.060746	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:47:46.062404	LOG	Previous uplink Frame type (FType): 011
0:47:46.595635	LOG	GPS Time updated: 1385118915203
0:47:46.597635	LOG	PULL_DATA: 02 0184 02 0016c001ff1025bf
0:47:46.598636	LOG	PULL_ACK: 02 0184 04
0:47:50.012206	LOG	First uplink received. Open reception window.
0:47:50.114277	LOG	PUSH_ACK: 02 2791 01
0:47:50.116245	LOG	GPS Time from gateway: 1385118918617
0:47:50.117244	LOG	PUSH_DATA: Protocol version = 02, Token = 2791, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 487795817, 'time': '2023-11-27T11:14:59.617908Z', 'tmms': 1385118918617, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAAACATQgCBVLgmGwx25F8VSU='}]}
0:47:50.119251	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 084d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 917c5525)
0:47:50.120257	LOG	Server <-------------------- DUT
0:47:50.122263	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0519, FOpts:), FPort: e0, FRMPayload: 070001), MIC: a54cf368)
0:47:50.124263	LOG	Frame command sent to the DUT
0:47:50.125262	LOG	PULL_RESP: Protocol version = 02, Token = d395, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 488795817, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAGQXgbgiDj4iFrZoEFiy7KMWtreehI0C18POg9E0iVE0z59f7Npg+8wtt6oeychEEvsLLWeGGZ4RLwK+bbN3iFGeVMRbfXwJ3TXJRvPdZZ2lL5gSAn1828v1RZ1pKHNr7mzjvyKiju5HVCrobKRD+yEeBNA7tJGZA+ZK/2Fn3ZfAGMdu7RE24TYC/dSTjRVD0Al97uB4A3FPuJo2IFjyFrtzWOJoMf8x0XdkBcXscv5QOf0oYlR6IvzGQGL9/UbVmKAWod0HDI+NhT23Fw45yqVVW+auGRo2ejTCLO57Sb+QRd9g593B0AqLzGQwM28fPquXuyHSlTPNo'}}
0:47:50.127262	LOG	Server --------------------> DUT
0:47:50.130262	LOG	Send Test Command TxFramesCtrlReq process completed

0:47:50.133778	LOG	Check previous uplink data rate process starts
0:47:50.137775	LOG	Uplink received with expected Data Rate
0:47:50.141775	LOG	Send Test Command TxFramesCtrlReq process starts
0:47:51.053010	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:47:51.055041	LOG	Previous uplink Frame type (FType): 011
0:47:51.056082	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:47:51.058047	LOG	Previous uplink Frame type (FType): 011
0:47:55.005670	LOG	First uplink received. Open reception window.
0:47:55.107415	LOG	PUSH_ACK: 02 c03b 01
0:47:55.109415	LOG	GPS Time from gateway: 1385118923617
0:47:55.110415	LOG	PUSH_DATA: Protocol version = 02, Token = c03b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 492795559, 'time': '2023-11-27T11:15:04.617649Z', 'tmms': 1385118923617, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACATggC5c4kEUJEhNycnGM='}]}
0:47:55.112418	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 084e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: dc9c9c63)
0:47:55.113416	LOG	Server <-------------------- DUT
0:47:55.115449	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 051a, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: ecb4cee9)
0:47:55.117450	LOG	Frame command sent to the DUT
0:47:55.118488	LOG	PULL_RESP: Protocol version = 02, Token = 1244, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 493795559, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAGgXgQ3L/+w4Zhpw0cKpwttakyE47ML7INWnTx0QDdtvM+18sQDtE4MoGO26+JlpoiNZmsJFg5mbo+5N/OBX9wjmERf7QEuMqCnXgM8RaliZCBsnBPj7wYgSnYe0qDaGNZhmTBJrY5UOVJStRU9PZYm0OkYEGju2GwO+NzHe0cLKQgAAahFO2QWu1UvNNAX8Hn2RUy+WXKQqSnvGR6WfWz2D0c6L9SXOqQ4m46h3W6LPx+tSFEUFlqvKrEIdS345eD6j4/XlsGW2FFcCYn6LYEx81LtIiVv8OCdnHjwid6aX3txhIPQQ+TeWBBJJME2LKv1sjSGHstM7p'}}
0:47:55.119493	LOG	Server --------------------> DUT
0:47:55.122459	LOG	Send Test Command TxFramesCtrlReq process completed
0:47:55.125488	LOG	Check previous uplink data rate process starts
0:47:55.129456	LOG	Uplink received with expected Data Rate
0:47:55.133029	LOG	Send Test Command TxFramesCtrlReq process starts
0:47:56.059865	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:47:56.061864	LOG	Previous uplink Frame type (FType): 011
0:47:56.063866	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:47:56.065866	LOG	Previous uplink Frame type (FType): 011
0:47:56.795606	LOG	GPS Time updated: 1385118925408
0:47:56.797574	LOG	PULL_DATA: 02 9c1f 02 0016c001ff1025bf
0:47:56.798575	LOG	PULL_ACK: 02 9c1f 04
0:48:00.037661	LOG	First uplink received. Open reception window.
0:48:00.149446	LOG	PUSH_ACK: 02 9ac5 01
0:48:00.151450	LOG	GPS Time from gateway: 1385118928616
0:48:00.152446	LOG	PUSH_DATA: Protocol version = 02, Token = 9ac5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 497795294, 'time': '2023-11-27T11:15:09.617383Z', 'tmms': 1385118928616, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu':

		'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACATwgCPqK7Rxj5pSDu7fI='}]}
0:48:00.154448	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 084f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 20eeedf2)
0:48:00.155449	LOG	Server <-------------------- DUT
0:48:00.157448	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 051b, FOpts:), FPort: e0, FRMPayload: 070001), MIC: dd89736a)
0:48:00.159446	LOG	Frame command sent to the DUT
0:48:00.160449	LOG	PULL_RESP: Protocol version = 02, Token = 4aa1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 498795294, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAGwXgV1EMG2Z5nud98Uf4AXsQ701NqW7tcaywm1xKnpz1GyI+AxycmuedaZW7AI0YK+5wEt5pdX7HCCLG4Imcrk0vwm8xzsGycV4f+sFdQm6yshSXr55eaR3PEBjYyHlohpifidFDK1QjRpeH1Oa26edZ4dMckQp4lFw6MJ0oWPdUb4BiRjMtY79YgeiDr6PMGv98lPlg2IvxYyJE4wN/kkBoQ3i5K4Up0oTFjhbETdCrzJSTznmwVd1cPpUAdDvBYiHTpa0kkCHrxC6ccIU1En+P2rXK2tbxITaskRE0xVyEe42Lf5t9v34MwVlh4wGbEmrZf1bdiXNq'}}
0:48:00.162453	LOG	Server --------------------> DUT
0:48:00.164995	LOG	Send Test Command TxFramesCtrlReq process completed
0:48:00.167994	LOG	Check previous uplink data rate process starts
0:48:00.172996	LOG	Uplink received with expected Data Rate
0:48:00.175996	LOG	Send Test Command TxFramesCtrlReq process starts
0:48:01.054488	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:48:01.055525	LOG	Previous uplink Frame type (FType): 011
0:48:01.057494	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:48:01.059494	LOG	Previous uplink Frame type (FType): 011
0:48:05.012424	LOG	First uplink received. Open reception window.
0:48:05.121462	LOG	PUSH_ACK: 02 ede9 01
0:48:05.123430	LOG	GPS Time from gateway: 1385118933616
0:48:05.124430	LOG	PUSH_DATA: Protocol version = 02, Token = ede9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 502795042, 'time': '2023-11-27T11:15:14.617130Z', 'tmms': 1385118933616, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAUAgCL3Z2vfiPZZaTArQ='}]}
0:48:05.126431	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0850, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 969302b4)
0:48:05.127439	LOG	Server <-------------------- DUT
0:48:05.129444	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 051c, FOpts:), FPort: e0, FRMPayload: 070001), MIC: c169f36f)
0:48:05.131443	LOG	Frame command sent to the DUT

0:48:05.132948	LOG	PULL_RESP: Protocol version = 02, Token = 4f72, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 503795042, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAHAXgbB0Ccb8OelfiUZvWK1Pv8VCy44CI6IvCOOV4ZOGQLn//uEoSatZavM6pAIC3F2Bbo6SefaXXT9SvI7BNdy1ebgs/dmz0VBweFsmdaRoAX6n8HG04DJE4QJAwL8ijZraLoIPKu7//tS2uWe1s7Ldtus1lp8a4enUfDsESb6+kH2YzK1xWENVyVYERY+CVCxNR0lctdWzroyOc/LbJFbPVrR2fAvmZizjxgngd+DMKA8A3vpo4nP6pN/GO64fk/ehProxHX5jeKnejZtd6lVzPb5RQs/zXFJPG74385ffYYse15U1xXUhk5xBUprVKyLKgnEnBafNv'}}
0:48:05.133954	LOG	Server --------------------> DUT
0:48:05.136953	LOG	Send Test Command TxFramesCtrlReq process completed
0:48:05.139953	LOG	Check previous uplink data rate process starts
0:48:05.144953	LOG	Uplink received with expected Data Rate
0:48:05.147986	LOG	Send Test Command TxFramesCtrlReq process starts
0:48:06.050038	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:48:06.051038	LOG	Previous uplink Frame type (FType): 011
0:48:06.053039	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:48:06.054038	LOG	Previous uplink Frame type (FType): 011
0:48:06.815974	LOG	GPS Time updated: 1385118935419
0:48:06.816973	LOG	PULL_DATA: 02 4495 02 0016c001ff1025bf
0:48:06.818978	LOG	PULL_ACK: 02 4495 04
0:48:10.005099	LOG	First uplink received. Open reception window.
0:48:10.120556	LOG	PUSH_ACK: 02 d33c 01
0:48:10.122524	LOG	GPS Time from gateway: 1385118938616
0:48:10.123524	LOG	PUSH_DATA: Protocol version = 02, Token = d33c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 507794780, 'time': '2023-11-27T11:15:19.616867Z', 'tmms': 1385118938616, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAUQgCzXw2/2US9IbHhvA='}]}
0:48:10.125525	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0851, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 86c786f0)
0:48:10.126532	LOG	Server <-------------------- DUT
0:48:10.128537	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 051d, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 7d3b6ba7)
0:48:10.130537	LOG	Frame command sent to the DUT
0:48:10.131536	LOG	PULL_RESP: Protocol version = 02, Token = 7990, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 508794780, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAHQXg9L/Peg4uEo2AkwQs+BYmDlORAuJLswk2U6HNcmecMsXaD2zrfXdDQ0nZYeQtjsPlzwZ3iWjZYDZx3pTJT7GEHKz9DDS3bEImG2w6r+ocT0+CExLu5cqlJ+pRkBphSuDhlBfNBisIev5QpwPWVLRBoNJZ68y4d1vURFkekg2v1AZg4DUhi1y1tvWf508godZ4vmJG35045M2YBV52XGJaeLP87Nq9+mGn7XU936ztwX1TLlNQn45JQ7aRznrxOjLsGrhp6ctwnG8hT07jvrB17EGQYEMgtlf/H3jixBI7XxTjNyoNEkpUiPrirt97wSFKLAV9O2un'}}
0:48:10.133040	LOG	Server --------------------> DUT
0:48:10.136045	LOG	Send Test Command TxFramesCtrlReq process completed
0:48:10.139044	LOG	Check previous uplink data rate process starts
0:48:10.143077	LOG	Uplink received with expected Data Rate
0:48:10.147045	LOG	Send Test Command TxFramesCtrlReq process starts

0:48:11.058737	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:48:11.060736	LOG	Previous uplink Frame type (FType): 011
0:48:11.062738	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:48:11.064737	LOG	Previous uplink Frame type (FType): 011
0:48:15.013410	LOG	First uplink received. Open reception window.
0:48:15.122356	LOG	PUSH_ACK: 02 60d0 01
0:48:15.124358	LOG	GPS Time from gateway: 1385118943616
0:48:15.125357	LOG	PUSH_DATA: Protocol version = 02, Token = 60d0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 512794523, 'time': '2023-11-27T11:15:24.616609Z', 'tmms': 1385118943616, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAUggCwyvnS73QVN7yyTQ='}]}
0:48:15.127325	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0852, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: def2c934)
0:48:15.128366	LOG	Server <-------------------- DUT
0:48:15.130334	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 051e, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 8fdf3b5d)
0:48:15.132840	LOG	Frame command sent to the DUT
0:48:15.133847	LOG	PULL_RESP: Protocol version = 02, Token = d900, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 513794523, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAHgXgwramYFwfcD0YMLORJrMkW+mfNOEKraWh9SKIlevZ6bQbGcZI7039Z745pIjDISniTWVThkIGKzBgnyRZ69eCPHcdVbjl0LFyIRp7xB0eR49VUoCEkQ0lV87gAHI9go8uyiX9ULsIhiwS84tafeyW50z8loCovuSFAizYDOAf6awdH/daek3qIEU38JZKH48wImT9MjNwyFCHIkL8z0P49UBXv3beOZSbA9qxAtZB1wv6RBaVjNDziRAmMfFpECmjgSJelWGHeKKb+qzn8boLuhWyvJ+vWdUQyq+3ryY6xi09CgUD4DAozz7qYifTempSEEqP3ztd'}}
0:48:15.135877	LOG	Server --------------------> DUT
0:48:15.138847	LOG	Send Test Command TxFramesCtrlReq process completed
0:48:15.141847	LOG	Check previous uplink data rate process starts
0:48:15.145882	LOG	Uplink received with expected Data Rate
0:48:15.148845	LOG	Send Test Command TxFramesCtrlReq process starts
0:48:16.055085	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:48:16.057109	LOG	Previous uplink Frame type (FType): 011
0:48:16.059120	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:48:16.061150	LOG	Previous uplink Frame type (FType): 011
0:48:16.825422	LOG	GPS Time updated: 1385118945428
0:48:16.827422	LOG	PULL_DATA: 02 5493 02 0016c001ff1025bf
0:48:16.828422	LOG	PULL_ACK: 02 5493 04
0:48:20.007722	LOG	First uplink received. Open reception window.
0:48:20.112292	LOG	PUSH_ACK: 02 f22c 01
0:48:20.114297	LOG	GPS Time from gateway: 1385118948615
0:48:20.115298	LOG	PUSH_DATA: Protocol version = 02, Token = f22c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 517794255, 'time': '2023-11-27T11:15:29.616339Z', 'tmms': 1385118948615, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAUwgC0wQFmP5XuOeMRmA='}]}
0:48:20.117300	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0853, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e78c4660)

0:48:20.118305	LOG	Server <-------------------- DUT
0:48:20.121304	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 051f, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 6e657c71)
0:48:20.122304	LOG	Frame command sent to the DUT
0:48:20.124304	LOG	PULL_RESP: Protocol version = 02, Token = c883, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 518794255, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAHwXgHR4N8MAZT93DpyGUnttRM3dKrBQyqQYCYCP+OJk22HZowELXvM0hVnUWMFGcPudN8aeTYKY8tLDwKXAckg+6MeHjWuj/P6/X7MyL9iSJU0jGWanuvTAUksHFkzsmmXjSHt3PGVtNqxM9bn5YMpp9jL3XKiiYdOt966kWqqE0+NbxmRaiDttEJFsRYSXEITBIB5OOpe4vZpJ/39Y+69osRYKjtdGdCBPQZWEHw/VwsNk2aBlItP0Qzaj/yn61LTxJ+fbgy/Aw3S0QVbrM1rQPF89xVVTIflAq4QQxNLiaHSqg2P1KuIYi0pti4DmToELqmEpuZXxx'}}
0:48:20.125303	LOG	Server --------------------> DUT
0:48:20.128306	LOG	Send Test Command TxFramesCtrlReq process completed
0:48:20.131306	LOG	Check previous uplink data rate process starts
0:48:20.135866	LOG	Uplink received with expected Data Rate
0:48:20.139866	LOG	Send Test Command TxFramesCtrlReq process starts
0:48:21.054010	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:48:21.056060	LOG	Previous uplink Frame type (FType): 011
0:48:21.058065	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:48:21.060066	LOG	Previous uplink Frame type (FType): 011
0:48:25.010766	LOG	First uplink received. Open reception window.
0:48:25.112962	LOG	PUSH_ACK: 02 67c1 01
0:48:25.114929	LOG	GPS Time from gateway: 1385118953615
0:48:25.115929	LOG	PUSH_DATA: Protocol version = 02, Token = 67c1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 522793997, 'time': '2023-11-27T11:15:34.616080Z', 'tmms': 1385118953615, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACAVAgC/dHBEQl5dCtnyJs='}]}
0:48:25.117931	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0854, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2b67c89b)
0:48:25.119443	LOG	Server <-------------------- DUT
0:48:25.121476	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0520, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 60745482)
0:48:25.122443	LOG	Frame command sent to the DUT
0:48:25.124441	LOG	PULL_RESP: Protocol version = 02, Token = 0ee1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 523793997, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAIAXgw7jXETUHSPNhwqjmqYKx9kSYOkX1hwz/RkL24y/H63hy9kB4A8RxqTCGCwIFJ12H/c+9LRbrk/3OEgD8eRkPkVXkhO2viQJQJI4FnrIY74x

		Yl917QRhsfK015IX0ySKFR7tzDXECI3gLYvuM61dUfHIEOGX2MG7NobwQPJ ACI66RE86TD4iD0CXm97GANi85opbsdH3bFbua0Vtl0KgC3bFDzrmcMO8sEe+ quIz0T6v8bfwwGq0Nf9HWvSko3PhTPjoeCzZ7fwkwWy3+Qv0PSNssigijXWCIQ 2GMPkP5wpzQSkio0uTZinBnQEgHJd+cynFgdFSC'}}
0:48:25.125443	LOG	Server ----------> DUT
0:48:25.128479	LOG	Send Test Command TxFramesCtrlReq process completed
0:48:25.131474	LOG	Check previous uplink data rate process starts
0:48:25.135950	LOG	Uplink received with expected Data Rate
0:48:25.138982	LOG	Send Test Command TxFramesCtrlReq process starts
0:48:26.056972	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:48:26.058971	LOG	Previous uplink Frame type (FType): 011
0:48:26.060977	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:48:26.062998	LOG	Previous uplink Frame type (FType): 011
0:48:27.015346	LOG	GPS Time updated: 1385118955620
0:48:27.017329	LOG	PULL_DATA: 02 e198 02 0016c001ff1025bf
0:48:27.018314	LOG	PULL_ACK: 02 e198 04
0:48:30.038655	LOG	First uplink received. Open reception window.
0:48:30.150649	LOG	PUSH_ACK: 02 5d5a 01
0:48:30.152650	LOG	GPS Time from gateway: 1385118958615
0:48:30.153651	LOG	PUSH_DATA: Protocol version = 02, Token = 5d5a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 527793747, 'time': '2023-11-27T11:15:39.615831Z', 'tmms': 1385118958615, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAVQgCaLB1sagTXm5I/8g='}]}
0:48:30.155668	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0855, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6e48ffc8)
0:48:30.157718	LOG	Server <---------- DUT
0:48:30.159716	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0521, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101), MIC: cb1dc747)
0:48:30.160718	LOG	Frame command sent to the DUT
0:48:30.162719	LOG	PULL_RESP: Protocol version = 02, Token = d9a6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 528793747, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAIQXgA9/OGQwwOh5eIWwh1HCrJBDIRd6Jz6VgWU5maxsQS4c2 yhkEKgJADDm5eoC/vD41TPr2+D/xANkbMZccvI/eko+q4IZw0Dl+VaRTVpNf/x UkU5ziFIynG5aON1cr/MpSkRQlIfMArzM/qbRrnNA/vsw6md2NFu5AZCrvTxAk FcadBONz7QVpbiFAje9mMomvc4EfG4hP1y8LDTkx03u1eogkQcugomCR+4q5p 5iRUtDAnnw0OOljdAnBExNZ9eNlQiBjeUdfQ2pOoe9bhwc21fDEZB5Qt6vEMW H2W83hasDbBoldZLWxap8+Yp4Lv+KW4SHLHcdH'}}
0:48:30.163713	LOG	Server ----------> DUT
0:48:30.166806	LOG	Send Test Command TxFramesCtrlReq process completed
0:48:30.169798	LOG	Check previous uplink data rate process starts
0:48:30.174832	LOG	Uplink received with expected Data Rate
0:48:30.177799	LOG	Send Test Command TxFramesCtrlReq process starts
0:48:31.050834	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:48:31.052833	LOG	Previous uplink Frame type (FType): 011
0:48:31.054834	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:48:31.055840	LOG	Previous uplink Frame type (FType): 011

0:48:35.011856	LOG	First uplink received. Open reception window.
0:48:35.123677	LOG	PUSH_ACK: 02 43f6 01
0:48:35.125643	LOG	GPS Time from gateway: 1385118963615
0:48:35.126642	LOG	PUSH_DATA: Protocol version = 02, Token = 43f6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 532793489, 'time': '2023-11-27T11:15:44.615572Z', 'tmms': 1385118963615, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAVggCihr3/xF0ZQoFBGA='}]}
0:48:35.128147	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0856, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0a050460)
0:48:35.130179	LOG	Server <-------------------- DUT
0:48:35.131192	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0522, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 32887e16)
0:48:35.133741	LOG	Frame command sent to the DUT
0:48:35.135738	LOG	PULL_RESP: Protocol version = 02, Token = d1ed, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 533793489, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAIgXgpDI1J1MnRQN9y0eeFm65de0U2n92Yl8KXWROpGIkHaKpW+IFcv35ErdlT7qsJuo/KfUoT9ol7TLFYWP9jSI9nHsPFPGTN4AKtO0v/V/FWRhAFa5xVxm16ybai1/+1gMvx4L2tEwpClrajRfoaN+hTm5eEl8x9PVpm5Ocr3AB0/SM0aNbD7vvwOxVcUbyMvat06eyhu0itoEzsLo8tTmWbd19e/VSBO8cTHoEsNRgOw/0bMaVeezcpULIGDc7lxuM/gyASwUvqiWDB3Hvlv63AkQpmJszh1u1XfO1pWJtRiAjq90rzu2fDlWgfk6gLrlHEbQyiH4W'}}
0:48:35.136738	LOG	Server --------------------> DUT
0:48:35.139739	LOG	Send Test Command TxFramesCtrlReq process completed
0:48:35.142739	LOG	Check previous uplink data rate process starts
0:48:35.146775	LOG	Uplink received with expected Data Rate
0:48:35.149744	LOG	Send Test Command TxFramesCtrlReq process starts
0:48:36.055119	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:48:36.057126	LOG	Previous uplink Frame type (FType): 011
0:48:36.059125	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:48:36.061124	LOG	Previous uplink Frame type (FType): 011
0:48:37.025507	LOG	GPS Time updated: 1385118965629
0:48:37.026507	LOG	PULL_DATA: 02 8b8a 02 0016c001ff1025bf
0:48:37.028508	LOG	PULL_ACK: 02 8b8a 04
0:48:40.002395	LOG	#***************************CURRENT BEACON SENT***************************#
0:48:40.004393	LOG	PULL_RESP: Protocol version = 02, Token = 35f8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385118976000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAPY9S5fYAAAAAAAAAAAA='}}
0:48:40.005393	LOG	Server --------------------> DUT
0:48:40.006395	LOG	#**#
0:48:40.016939	LOG	#***************************NEXT BEACON QUEUED***************************#
0:48:40.017939	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385119104000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu':

		'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAPY9S3SsAAAAAAAAAAAA='}}
0:48:40.019976	LOG	Server --------------------> DUT
0:48:40.020976	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 803d8f52, CRC1: dd2b, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385119104000
0:48:40.021977	LOG	#***#
0:48:40.022976	LOG	Next BEACON scheduled at GPS time (ms): 1385119232000
0:48:40.024976	LOG	First uplink received. Open reception window.
0:48:40.025976	LOG	TX_ACK: 02 35f8 05 0016c001ff1025bf
0:48:40.132587	LOG	PUSH_ACK: 02 c40c 01
0:48:40.138041	LOG	GPS Time from gateway: 1385118968614
0:48:40.141041	LOG	PUSH_DATA: Protocol version = 02, Token = c40c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 537793235, 'time': '2023-11-27T11:15:49.615317Z', 'tmms': 1385118968614, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAVwgCWK1Q56s89le0Hw0='}]}
0:48:40.144041	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0857, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 57b41f0d)
0:48:40.146038	LOG	Server <-------------------- DUT
0:48:40.149046	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0523, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 6649292a)
0:48:40.152048	LOG	Frame command sent to the DUT
0:48:40.154083	LOG	PULL_RESP: Protocol version = 02, Token = 6ff4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 538793235, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAIwXghg+VhZzMoGmCI/I8ahJYFjzM2g1RkmWs/f+m1P2u1EftJZVm4wejAra8q5T0ktFEzaXwwAbLyw+05a01d2pm+uBp3cTYJfL+bCv32QnU3ThGRws6a1LrYqqNLvurzURISpdlRpv8wOm1lYMUMZevn2n87dQbwHZmFbqV+/lADpMVso6loFOuFiXIqOSfu4lf+IyD3VjVziaJ3MlCLdlcJctNLKWdWLKbCyT61k6+n49ZS15rpfsvSV0pxlU8V9pNm9ly7eu/am1Y5dWTvksfRSJfCfmcf4SNYGB/JdvCqxicQAlSf5hIN8wtw9z8jlrCK8VmSSkq'}}
0:48:40.156047	LOG	Server --------------------> DUT
0:48:40.159068	LOG	Send Test Command TxFramesCtrlReq process completed
0:48:40.163045	LOG	Check previous uplink data rate process starts
0:48:40.168174	LOG	Uplink received with expected Data Rate
0:48:40.171950	LOG	Send Test Command TxFramesCtrlReq process starts
0:48:41.052094	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:48:41.054092	LOG	Previous uplink Frame type (FType): 011
0:48:41.056098	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:48:41.057102	LOG	Previous uplink Frame type (FType): 011
0:48:45.009763	LOG	First uplink received. Open reception window.
0:48:45.116990	LOG	PUSH_ACK: 02 dc8c 01
0:48:45.118995	LOG	GPS Time from gateway: 1385118973614
0:48:45.119995	LOG	PUSH_DATA: Protocol version = 02, Token = dc8c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 542792969, 'time': '2023-11-27T11:15:54.615050Z', 'tmms': 1385118973614, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu':

		'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAWAgCjQSBRkvKhccdGUc='}]}
0:48:45.121996	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0858, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c71d1947)
0:48:45.123002	LOG	Server <-------------------- DUT
0:48:45.125008	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0524, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: e7928297)
0:48:45.127008	LOG	Frame command sent to the DUT
0:48:45.128008	LOG	PULL_RESP: Protocol version = 02, Token = 4662, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 543792969, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAJAXgCgNKMaTQ1DnP5nK8/XIdx6jj62W+IB5/YTFlMQnF3EalYxR459burxqd9NiR+yIzPl1ts3cpLHQ8ijkBklnCMwwHiSBrgYp5H8e7KlE5sYeSMzRD/Da8KNhSOIdVg0kMNjN38vYjFcjkbAOaMFVkHLSzXeTwEVmcwvDyriUC9lIoBMVMrQbJrDf70a4rQ6pt4bs4remezswJ4SgS/b6Hq9amVEixqnMkGvvOb18izYlQfas3c4lV6jJGX+IzOfWeKYY4Il0agBkus9DPcBXsLhQ/waq4Yiu/ulzmvmS6uTNlzhxJELbqEK/GbvZXZN4dzs7nkoKX'}}
0:48:45.130008	LOG	Server --------------------> DUT
0:48:45.132513	LOG	Send Test Command TxFramesCtrlReq process completed
0:48:45.135519	LOG	Check previous uplink data rate process starts
0:48:45.140103	LOG	Uplink received with expected Data Rate
0:48:45.144076	LOG	Send Test Command TxFramesCtrlReq process starts
0:48:46.053718	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:48:46.055692	LOG	Previous uplink Frame type (FType): 011
0:48:46.057696	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:48:46.059707	LOG	Previous uplink Frame type (FType): 011
0:48:47.225598	LOG	GPS Time updated: 1385118975830
0:48:47.227146	LOG	PULL_DATA: 02 2078 02 0016c001ff1025bf
0:48:47.228753	LOG	PULL_ACK: 02 2078 04
0:48:50.005304	LOG	First uplink received. Open reception window.
0:48:50.113365	LOG	PUSH_ACK: 02 5d28 01
0:48:50.115365	LOG	GPS Time from gateway: 1385118978614
0:48:50.116365	LOG	PUSH_DATA: Protocol version = 02, Token = 5d28, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 547792713, 'time': '2023-11-27T11:15:59.614793Z', 'tmms': 1385118978614, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACAWQgCVMDfABG/OkA3IWs='}]}
0:48:50.117366	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0859, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4037216b)
0:48:50.119375	LOG	Server <-------------------- DUT
0:48:50.121375	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0525, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101

		01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 716a2786)
0:48:50.122374	LOG	Frame command sent to the DUT
0:48:50.124375	LOG	PULL_RESP: Protocol version = 02, Token = 5a02, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 548792713, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAJQXgACOfzDtY8GJlNxgYVTAnujqgMqcVTGUexRcRm4WncHZf6PWskja1/Dvs34FBliy+ZgM46iwR6SqTe0uOnd3Xb/cnAGahsZYpI+V3AUMxxNSD89dpBPljZp5BMORVPtiX+hdOrQZZrEoQt77sU0hA8WQDH3eLkplTtnxWusCxRDU6ZTY+FeDgnd+EtZeYr63BjN6PTilirh/NsuJXpLfbWyvwMLYpkpTptlnMOV+KGzc0OXOSz+lqkUnilu5x1GEFKnol8GvFDh7eiAUw21lTSq24AXw4FxhP88OqowsUk5VwavCy2gt9kbZyjs5Onc5xlVJxaieG'}}
0:48:50.125375	LOG	Server --------------------> DUT
0:48:50.128375	LOG	Send Test Command TxFramesCtrlReq process completed
0:48:50.131375	LOG	Check previous uplink data rate process starts
0:48:50.135882	LOG	Uplink received with expected Data Rate
0:48:50.139884	LOG	Send Test Command TxFramesCtrlReq process starts
0:48:51.051697	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:48:51.052696	LOG	Previous uplink Frame type (FType): 011
0:48:51.054697	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:48:51.056705	LOG	Previous uplink Frame type (FType): 011
0:48:55.011468	LOG	First uplink received. Open reception window.
0:48:55.112027	LOG	PUSH_ACK: 02 e926 01
0:48:55.114029	LOG	GPS Time from gateway: 1385118983614
0:48:55.115029	LOG	PUSH_DATA: Protocol version = 02, Token = e926, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 552792446, 'time': '2023-11-27T11:16:04.614525Z', 'tmms': 1385118983614, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACAWggCtBZb6N0Svt8cW1U='}]}
0:48:55.116996	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 085a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: df1c5b55)
0:48:55.118005	LOG	Server <-------------------- DUT
0:48:55.120010	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0526, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: f8fb70e1)
0:48:55.122044	LOG	Frame command sent to the DUT
0:48:55.123044	LOG	PULL_RESP: Protocol version = 02, Token = e1af, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 553792446, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAJgXgCLqbdzv71Do6VTdnv0+ZTa226LT2+ooIHUImHQRE9E2q342OS+NefnYXlszCe3J9AdAwfyd8Oayz+a1hjjGt5buPdiqGppFdzarV2L3eDWCeKrhhIHXvkd4bNo0ghTa0acmedmip+at3h/xdqAiFSUzmX5jlNzuEsopnZOy5Bu+PG0L/aC983z5PIY3IITfSC7i3TthBF1LM+22ap+/7BxIxIsHN5FkiwRAxi4E0M9gCpiEiNJPRUK58FDvL3YtG7hpKkb3F0STArpeyfFWePQ2PrpayLEDA1aoeDoNx++XcB46vTue0oeLGYSlNicJER2f4+3Dh'}}
0:48:55.125046	LOG	Server --------------------> DUT
0:48:55.128013	LOG	Send Test Command TxFramesCtrlReq process completed
0:48:55.131010	LOG	Check previous uplink data rate process starts
0:48:55.135517	LOG	Uplink received with expected Data Rate
0:48:55.138521	LOG	Send Test Command TxFramesCtrlReq process starts

0:48:56.048945	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:48:56.049941	LOG	Previous uplink Frame type (FType): 011
0:48:56.050943	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:48:56.053416	LOG	Previous uplink Frame type (FType): 011
0:48:57.435503	LOG	GPS Time updated: 1385118986039
0:48:57.437177	LOG	PULL_DATA: 02 be82 02 0016c001ff1025bf
0:48:57.438871	LOG	PULL_ACK: 02 be82 04
0:49:00.047758	LOG	First uplink received. Open reception window.
0:49:00.160372	LOG	PUSH_ACK: 02 dc84 01
0:49:00.162339	LOG	GPS Time from gateway: 1385118988613
0:49:00.163858	LOG	PUSH_DATA: Protocol version = 02, Token = dc84, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 557792190, 'time': '2023-11-27T11:16:09.614267Z', 'tmms': 1385118988613, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAWwgCaKqCrkz6J2ecsy0='}]}
0:49:00.164862	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 085b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 679cb32d)
0:49:00.166864	LOG	Server <-------------------- DUT
0:49:00.168863	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0527, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 9a5f5f2f)
0:49:00.169862	LOG	Frame command sent to the DUT
0:49:00.171863	LOG	PULL_RESP: Protocol version = 02, Token = 6536, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 558792190, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAJwXg0VCpylui3SSXDPwvAdVVqGSsLXcHkTbu6a6PDV582fl/I3CeXaYN7JO1LUR+4Y9Ip8wcyiWGCLlAEWDWB2bHBfy6hkDPyIaTSsL7Kpjx5cKjrMTiaD9o6WgEwrS8I3fXzZ7jJmCFLy2cpXtBoZ/cPxk1DG69mqVg1L4jKjIIPmFS9VcFGoczfvVLy0WAeDX68fQ3fzbZwal4FJrZKPqEOXHm7yKwXrCQ3PdpcPP+zl5psQSFzCN/HF3dbH3GlcF4HCvSzemxq0jwvosA26WS6AeZnOH6vRf0Znz8M/FEoRPIXufF7UeIa4CP+FPbGtzJfFCaX18v'}}
0:49:00.172862	LOG	Server --------------------> DUT
0:49:00.175865	LOG	Send Test Command TxFramesCtrlReq process completed
0:49:00.178862	LOG	Check previous uplink data rate process starts
0:49:00.182866	LOG	Uplink received with expected Data Rate
0:49:00.186865	LOG	Send Test Command TxFramesCtrlReq process starts
0:49:01.046465	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:49:01.047465	LOG	Previous uplink Frame type (FType): 011
0:49:01.048465	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:49:01.050466	LOG	Previous uplink Frame type (FType): 011
0:49:05.006754	LOG	First uplink received. Open reception window.
0:49:05.115577	LOG	PUSH_ACK: 02 7a1e 01
0:49:05.117545	LOG	GPS Time from gateway: 1385118993613
0:49:05.118550	LOG	PUSH_DATA: Protocol version = 02, Token = 7a1e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 562791939, 'time': '2023-11-27T11:16:14.614017Z', 'tmms': 1385118993613, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAXAgC1tBJtiZz1so/1P0='}]}
0:49:05.120551	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 085c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ca3fd4fd)

0:49:05.121556	LOG	Server <-------------------- DUT
0:49:05.123562	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0528, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: aed878b9)
0:49:05.125562	LOG	Frame command sent to the DUT
0:49:05.126593	LOG	PULL_RESP: Protocol version = 02, Token = 4373, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 563791939, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAKAXgmRta4cx0a2DSEB5gVuvLmnwBgmRDbqzYaNj5lBMxO1A wsbeWEFUuuMNuQuWpYrMLZKLFs/eDCor25W0brcHeAcUsXEdhhvCSZHFy+ 83VTk0ksdX43RZeAJf+8ISeY6+GBid/3bQa6QyJZPrTSHxOz1yrnssguTLzzYSU B/aLlikwRPw4CBRInefXDb5iSgEqelWqLsSXu+A/FSV4vm6D9ysXRq/LyVcpej YIUfvtFpwNZCPq7S8kPXnf3yLHoxyViCPWHCy/3r2wREol/c+8G3xDdTL+3lA WUruNCWs4tEkR3G0DVLMe8GPxsRyBnE9M0b+u2Hi5'}}
0:49:05.128562	LOG	Server --------------------> DUT
0:49:05.131567	LOG	Send Test Command TxFramesCtrlReq process completed
0:49:05.134696	LOG	Check previous uplink data rate process starts
0:49:05.138727	LOG	Uplink received with expected Data Rate
0:49:05.141695	LOG	Send Test Command TxFramesCtrlReq process starts
0:49:06.050550	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:49:06.052549	LOG	Previous uplink Frame type (FType): 011
0:49:06.054551	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:49:06.056567	LOG	Previous uplink Frame type (FType): 011
0:49:07.435565	LOG	GPS Time updated: 1385118996042
0:49:07.436808	LOG	PULL_DATA: 02 a96b 02 0016c001ff1025bf
0:49:07.438429	LOG	PULL_ACK: 02 a96b 04
0:49:10.008551	LOG	First uplink received. Open reception window.
0:49:10.116278	LOG	PUSH_ACK: 02 12c9 01
0:49:10.118250	LOG	GPS Time from gateway: 1385118998613
0:49:10.120252	LOG	PUSH_DATA: Protocol version = 02, Token = 12c9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 567791669, 'time': '2023-11-27T11:16:19.613746Z', 'tmms': 1385118998613, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAXQgCbhF4ESKNEE53hYc='}]}
0:49:10.121252	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 085d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4e778587)
0:49:10.123284	LOG	Server <-------------------- DUT
0:49:10.125252	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0529, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: c43d910a)
0:49:10.126283	LOG	Frame command sent to the DUT
0:49:10.128284	LOG	PULL_RESP: Protocol version = 02, Token = 158c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 568791669, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000,

		'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAKQXgCpiAUTuw3GOjh/fgXUwHYcGAEzI65Kw4SIcnXyxzPExcbFT6Ycg/UoEX3B/7vQKYcKA5/sA4Q+O+M+I7XZ6jeJ7JDMUxLT0V7ih6uWTScjOvyJFS2GmW+u7mJvB81EGRUISuo6yP9Ns88NM/+IwPY1et0WXcH+pvsjK/EZeCdmYiz4tKneIgs+IaLRPi7/dnfRtXvtY7jRqcJR6aYtXWZqOHE4BVpNbTd5w4Cm8Rjgx2wTtbqkN8QYqjxo3Lfo/4VEjeIJ4g9hdnZS0+NVJR3mKoBMthLWU6KTQ0z8L+ZDQEv+CL18SIWstX76CwqTVi1PDEPZEK'}}
0:49:10.129284	LOG	Server --------------------> DUT
0:49:10.132758	LOG	Send Test Command TxFramesCtrlReq process completed
0:49:10.135765	LOG	Check previous uplink data rate process starts
0:49:10.139798	LOG	Uplink received with expected Data Rate
0:49:10.142797	LOG	Send Test Command TxFramesCtrlReq process starts
0:49:11.049032	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:49:11.051031	LOG	Previous uplink Frame type (FType): 011
0:49:11.053033	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:49:11.055046	LOG	Previous uplink Frame type (FType): 011
0:49:15.003086	LOG	First uplink received. Open reception window.
0:49:15.114552	LOG	PUSH_ACK: 02 5515 01
0:49:15.116545	LOG	GPS Time from gateway: 1385119003613
0:49:15.117548	LOG	PUSH_DATA: Protocol version = 02, Token = 5515, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 572791415, 'time': '2023-11-27T11:16:24.613491Z', 'tmms': 1385119003613, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAXggC483Z8X7N+Wn1qtk='}]}
0:49:15.119552	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 085e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 69f5aad9)
0:49:15.120557	LOG	Server <-------------------- DUT
0:49:15.122556	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 052a, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 341ce00e)
0:49:15.124590	LOG	Frame command sent to the DUT
0:49:15.125590	LOG	PULL_RESP: Protocol version = 02, Token = af30, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 573791415, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAKgXg9Vf3GbwLxFx1tuGvn1KeeqfqNB4kV77EM8NysMfEA57Z7lnCrz/fKgF8urtpNy3fYB7Or1fparxal0yO9QiLLrdJPTZ5rfxllHVqsg36k2ryOq0hOqX++oFDyIvT6dOJ/qUr2TY2BDFlvssfo4vzvUpuK8dyduspusA1djTt3gxGupILE5dV6uiuMBFb65+TjXpz2fwHo+Tet/O02WhVq/dAoHk6BXQMja/lBLZu6zMbUumLeFJiLKwVgtwLqtLT6vXDxyxjggT/h0wGNkxY3O/dGxGZsbGoKDR14hqrxV2G4VjMiNQT6LGfLlMcpOzpa4c0HOAO'}}
0:49:15.127591	LOG	Server --------------------> DUT
0:49:15.130556	LOG	Send Test Command TxFramesCtrlReq process completed
0:49:15.133637	LOG	Check previous uplink data rate process starts
0:49:15.137667	LOG	Uplink received with expected Data Rate
0:49:15.140635	LOG	Send Test Command TxFramesCtrlReq process starts
0:49:16.047801	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:49:16.048834	LOG	Previous uplink Frame type (FType): 011
0:49:16.049833	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:49:16.051800	LOG	Previous uplink Frame type (FType): 011
0:49:17.645212	LOG	GPS Time updated: 1385119006255

0:49:17.646238	LOG	PULL_DATA: 02 8e7d 02 0016c001ff1025bf
0:49:17.648242	LOG	PULL_ACK: 02 8e7d 04
0:49:20.004457	LOG	First uplink received. Open reception window.
0:49:20.117805	LOG	PUSH_ACK: 02 9db9 01
0:49:20.119808	LOG	GPS Time from gateway: 1385119008612
0:49:20.120807	LOG	PUSH_DATA: Protocol version = 02, Token = 9db9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 577791157, 'time': '2023-11-27T11:16:29.613232Z', 'tmms': 1385119008612, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAXwgCofPm/T49BX7eFFs='}]}
0:49:20.122810	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 085f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7ede145b)
0:49:20.123814	LOG	Server <-------------------- DUT
0:49:20.125813	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 052b, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 6584a766)
0:49:20.126813	LOG	Frame command sent to the DUT
0:49:20.128814	LOG	PULL_RESP: Protocol version = 02, Token = b781, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 578791157, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAKwXgaIighZ0sFxv99QOA1gNaoaZK0YvhyXlgDsKWSNigI64vdaEE74DpRriIE3k/aHioLSaa7rUQnhWxVWGoa713va9nDIdAcZrNlu+jeNT+7Zu03syJgQ+XGBnhUijdmvK0QmezVxsVpMK9ApTzsE9yZwZla5d6Rc1vOVwxbbo37SMBQJiwGnQyYfwr9uiuiFEZOZs9czyEEy1g+yu4hnQnVp5vNwHQ9ze1S6ceH7ylkiceVbnm9HtXkNMc0haZF/ywIEZE5Cu1tq8fX8LTQwnUXsjX9YoFIB/VAh0tO400KANAdxkMubYnf/vf3dhFNdTXa9llhKdm'}}
0:49:20.129817	LOG	Server --------------------> DUT
0:49:20.132818	LOG	Send Test Command TxFramesCtrlReq process completed
0:49:20.136214	LOG	Check previous uplink data rate process starts
0:49:20.141246	LOG	Uplink received with expected Data Rate
0:49:20.144212	LOG	Send Test Command TxFramesCtrlReq process starts
0:49:21.048757	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:49:21.050769	LOG	Previous uplink Frame type (FType): 011
0:49:21.052756	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:49:21.054759	LOG	Previous uplink Frame type (FType): 011
0:49:25.004325	LOG	First uplink received. Open reception window.
0:49:25.114239	LOG	PUSH_ACK: 02 df08 01
0:49:25.116203	LOG	GPS Time from gateway: 1385119013612
0:49:25.117203	LOG	PUSH_DATA: Protocol version = 02, Token = df08, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 582790899, 'time': '2023-11-27T11:16:34.612973Z', 'tmms': 1385119013612, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACAYAgCwlqyc+RL2i9Z7nE='}]}
0:49:25.119208	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0860, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2f59ee71)
0:49:25.120212	LOG	Server <-------------------- DUT
0:49:25.122217	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 052c, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101010101

		01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 964bd043)
0:49:25.124217	LOG	Frame command sent to the DUT
0:49:25.126218	LOG	PULL_RESP: Protocol version = 02, Token = 84de, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 583790899, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAALAXgwZ7en9q7S0Jxi5EzhwFmxuHPv0AvFtmZegC/YKtv2CwNQ TyRYYzEyGeJjwK47mF8j33BsU8K07vI867ghwbyTkGmhdxQcXI6akhi9C60uaB 71JnhsSqY9KMae1UX0Kie44PxOXEQvFjDQrOKYafR8bBWKm3eHgvT0OAK9 bjr0ZRx2cFAqyyRBRNo7Z7fxbavMCYZKbJZTlMa/RaUP/79o8eVrMFSr5SBshC q3/5lFLVWwEeq7iEcRdndS3luroj7bVdz5F82tfjkUkMjf1+1jc9RZPVxC26vxossQ WontjkTslRyuiWfQ8A3k5tlvUlnLpWWS9BD'}}
0:49:25.127216	LOG	Server --------------------> DUT
0:49:25.130218	LOG	Send Test Command TxFramesCtrlReq process completed
0:49:25.132787	LOG	Check previous uplink data rate process starts
0:49:25.137794	LOG	Uplink received with expected Data Rate
0:49:25.140793	LOG	Send Test Command TxFramesCtrlReq process starts
0:49:26.048051	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:49:26.050049	LOG	Previous uplink Frame type (FType): 011
0:49:26.051054	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:49:26.054050	LOG	Previous uplink Frame type (FType): 011
0:49:27.855353	LOG	GPS Time updated: 1385119016462
0:49:27.856352	LOG	PULL_DATA: 02 8a97 02 0016c001ff1025bf
0:49:27.858354	LOG	PULL_ACK: 02 8a97 04
0:49:30.076770	LOG	First uplink received. Open reception window.
0:49:30.186563	LOG	PUSH_ACK: 02 1b21 01
0:49:30.188066	LOG	GPS Time from gateway: 1385119018612
0:49:30.190089	LOG	PUSH_DATA: Protocol version = 02, Token = 1b21, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 587790632, 'time': '2023-11-27T11:16:39.612705Z', 'tmms': 1385119018612, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAYQgC+XYjYpGUuFUVwJo='}]}
0:49:30.191071	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0861, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5515c09a)
0:49:30.193133	LOG	Server <-------------------- DUT
0:49:30.195108	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 052d, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: b63790fa)
0:49:30.196231	LOG	Frame command sent to the DUT
0:49:30.198219	LOG	PULL_RESP: Protocol version = 02, Token = c876, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 588790632, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAALQXg5hb6EUk3JXqjXNkGSpsz9TZg3CxPFNCozpCb3gfuJPhobkL ONhyrFvW740ayhOZ36pQxjYMWu/4YpVt8hJWtqBmbxZaPoij9eP4322c9ta/Tqlz +tjiWrp+sMv/0/WCFmtArLaEnvIf0QmYUg2ClAfN7nHPl3pf15GIEdHxRziY1tM cmpV8jlr1xfqQejBRvMZM2ypR4yvg3e4QYWnA0NRhsBpp9AujWbxdP5D597P

		SpmOdjNR3dVSTjHLszL9EAnFZbje2ucL3go/P41Zaoh/kvgNEanMvxuLlI+8jOj7 Ws1+J2CZIVbp8+rMPd2PDBdGi2N5D6'}}
0:49:30.199232	LOG	Server --------------------> DUT
0:49:30.203195	LOG	Send Test Command TxFramesCtrlReq process completed
0:49:30.205228	LOG	Check previous uplink data rate process starts
0:49:30.210195	LOG	Uplink received with expected Data Rate
0:49:30.213199	LOG	Send Test Command TxFramesCtrlReq process starts
0:49:31.054099	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:49:31.056160	LOG	Previous uplink Frame type (FType): 011
0:49:31.058158	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:49:31.060158	LOG	Previous uplink Frame type (FType): 011
0:49:35.007790	LOG	First uplink received. Open reception window.
0:49:35.117248	LOG	PUSH_ACK: 02 3f2c 01
0:49:35.119252	LOG	GPS Time from gateway: 1385119023611
0:49:35.121286	LOG	PUSH_DATA: Protocol version = 02, Token = 3f2c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 592790375, 'time': '2023-11-27T11:16:44.612446Z', 'tmms': 1385119023611, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAYggCcczYABwo8PYGIbk='}]}
0:49:35.122254	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0862, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f60621b9)
0:49:35.123253	LOG	Server <-------------------- DUT
0:49:35.125253	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 052e, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 3c0b4557)
0:49:35.127294	LOG	Frame command sent to the DUT
0:49:35.128286	LOG	PULL_RESP: Protocol version = 02, Token = 69e8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 593790375, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAALgXgdtUAb8i7r2IVnE4s9VLP3XNJzl9euXGiSwusE0VLTTKA3k/ 3ZUmue+xohSbJLPYqntZIVM3tJHRRkBIWsk0iFbjS24sVK5qpf9vtRsdhQkhHA C11tYak46qDJtdR27DE/bpiwxWyExSNj/Ku/4IHoVakfT4xM5jNGGRKLZmGIrb Y+UQzKU2NdppNky4YBf8f7DaXY3bMzwN607MtuRlvJW8rHZePzi+0DhtLxu8 zANRIvwsmP7jc59VIDlehs5OM8jZvqkPS7pK4ti0LZ78pnL1eQw1XHgzgEJpsSv dZREzixcAVUBpOA6Kl3Z4b0lSsNpE8C0VX'}}
0:49:35.130285	LOG	Server --------------------> DUT
0:49:35.132792	LOG	Send Test Command TxFramesCtrlReq process completed
0:49:35.135797	LOG	Check previous uplink data rate process starts
0:49:35.140795	LOG	Uplink received with expected Data Rate
0:49:35.144795	LOG	Send Test Command TxFramesCtrlReq process starts
0:49:36.051851	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:49:36.053852	LOG	Previous uplink Frame type (FType): 011
0:49:36.055863	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:49:36.057868	LOG	Previous uplink Frame type (FType): 011
0:49:38.065275	LOG	GPS Time updated: 1385119026669
0:49:38.066274	LOG	PULL_DATA: 02 97ae 02 0016c001ff1025bf
0:49:38.068280	LOG	PULL_ACK: 02 97ae 04
0:49:40.005395	LOG	First uplink received. Open reception window.
0:49:40.108583	LOG	PUSH_ACK: 02 b127 01

0:49:40.110584	LOG	GPS Time from gateway: 1385119028611
0:49:40.111586	LOG	PUSH_DATA: Protocol version = 02, Token = b127, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 597790123, 'time': '2023-11-27T11:16:49.612193Z', 'tmms': 1385119028611, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAYwgCuhBQU1KSCkaDzpU='}]}
0:49:40.113552	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0863, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4683ce95)
0:49:40.114591	LOG	Server <-------------------- DUT
0:49:40.116585	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 052f, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: c393a255)
0:49:40.118622	LOG	Frame command sent to the DUT
0:49:40.119622	LOG	PULL_RESP: Protocol version = 02, Token = c98b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 598790123, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAALwXgBtMnTnl/iGCaHFT51QiLgzEMXdg/hkXzEHo9G4HYvePaQ LV3dtCTa0XYVsgl2D7Uaze828/HROl7nwc+c3XYJRizKedcraSOjgNu2UbDNM UQV1bIWDVFKBSQilgQ5zwKgb9JzCFhPThnf8WfGeEpnMttffS1H0HUOJLniy EL1rqinZVPpGgFtmwuhWcX/CzQ4PAWACPgX8LAZ4JyTtYT37J4aseDwY6P/h J20N/o2pxBgBpl+a4dShiYDv6C6uh+6jA/Cl4V5HGGJAWm2N1rZGJjmvbOwE0 5gbdSvikCeBCuWs9yn5Pb/mACbyClURRnaNzDk6JV'}}
0:49:40.121624	LOG	Server --------------------> DUT
0:49:40.123622	LOG	Send Test Command TxFramesCtrlReq process completed
0:49:40.127589	LOG	Check previous uplink data rate process starts
0:49:40.131587	LOG	Uplink received with expected Data Rate
0:49:40.135096	LOG	Send Test Command TxFramesCtrlReq process starts
0:49:41.049665	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:49:41.051640	LOG	Previous uplink Frame type (FType): 011
0:49:41.054652	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:49:41.055657	LOG	Previous uplink Frame type (FType): 011
0:49:45.001724	LOG	First uplink received. Open reception window.
0:49:45.107331	LOG	PUSH_ACK: 02 3cbd 01
0:49:45.109298	LOG	GPS Time from gateway: 1385119033611
0:49:45.110330	LOG	PUSH_DATA: Protocol version = 02, Token = 3cbd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 602789858, 'time': '2023-11-27T11:16:54.611929Z', 'tmms': 1385119033611, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACAZAgCYlklLBOjikFUp5M='}]}
0:49:45.112319	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0864, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4154a793)
0:49:45.113333	LOG	Server <-------------------- DUT
0:49:45.115299	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0530, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101

		0101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: d7c2b147)
0:49:45.117298	LOG	Frame command sent to the DUT
0:49:45.118335	LOG	PULL_RESP: Protocol version = 02, Token = c189, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 603789858, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAMAXgGM9zNrWAM/FzjNmUM0Wclx6KdOKfMEBf2XWuSquR1PJD5ygzL280mGCsHuZY8GJPag95TW1x1QIMAEot03XLz5qgdQffbtoWRNf6eKYo45M5Q5Vk19LO8j3SbNTA/jxJaMnL4DPNK0or0w8QXdljCpo76sei2MNDnv58OVAqsJrqgGbBE/9b6SXR8b1NB7H4LO8V9AXZgEOD/7cOK0LzSsn3rRi0ifw3U1+bPXdIar5qg5iRYcZwidxE4cdV8ge4qtIeXKtz4ZucUzh5e46U/kMQ5PuTyVepJCB1OTrFtNHGkeaK55vt3nFruBiMj1kYM/fXwrFH'}}
0:49:45.119335	LOG	Server --------------------> DUT
0:49:45.122304	LOG	Send Test Command TxFramesCtrlReq process completed
0:49:45.125339	LOG	Check previous uplink data rate process starts
0:49:45.130304	LOG	Uplink received with expected Data Rate
0:49:45.133878	LOG	Send Test Command TxFramesCtrlReq process starts
0:49:46.043883	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:49:46.045902	LOG	Previous uplink Frame type (FType): 011
0:49:46.046899	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:49:46.048868	LOG	Previous uplink Frame type (FType): 011
0:49:48.264474	LOG	GPS Time updated: 1385119036874
0:49:48.266442	LOG	PULL_DATA: 02 3a1a 02 0016c001ff1025bf
0:49:48.268442	LOG	PULL_ACK: 02 3a1a 04
0:49:50.004034	LOG	First uplink received. Open reception window.
0:49:50.107660	LOG	PUSH_ACK: 02 847b 01
0:49:50.109626	LOG	GPS Time from gateway: 1385119038611
0:49:50.111130	LOG	PUSH_DATA: Protocol version = 02, Token = 847b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 607789603, 'time': '2023-11-27T11:16:59.611673Z', 'tmms': 1385119038611, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAZQgCqNe3ikkXaeIB6Z4='}]}
0:49:50.112136	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0865, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e201e99e)
0:49:50.113135	LOG	Server <-------------------- DUT
0:49:50.115135	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0531, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 95e3fcc0)
0:49:50.117136	LOG	Frame command sent to the DUT
0:49:50.118139	LOG	PULL_RESP: Protocol version = 02, Token = f4bf, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 608789603, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAMQXgyOCWyjs/Er1fM3+wE57D1AybkUY1q8YfLHdB9f9d+M84uwhAMSBbE08xGwuJUoIExOxmv2NAk/y7q+fV60hItWFzBO4Fa/kNMc8j1twJDUgGuOy5T67IBK4Y9kRpMtLy94Rmvt1eKn7IL9XEizB8XQDEOxhAtqjJ7MGmsRAme6fuBhZeyX1bVRMrgNkZwU0Yf8VxSt/AzSugNpeLTBKpwpZNECptp7Obc7bmfsro2pr0m96yoXM59ZIePqsAp01RTO2GnxVVaaYELrE+5U16ohqe2E0mFZCP2pDzJfhMcGvD0nmAjteBQUu55maFDPJLkHeV4/zA'}}
0:49:50.120140	LOG	Server --------------------> DUT
0:49:50.122139	LOG	Send Test Command TxFramesCtrlReq process completed

0:49:50.125173	LOG	Check previous uplink data rate process starts
0:49:50.130143	LOG	Uplink received with expected Data Rate
0:49:50.133687	LOG	Send Test Command TxFramesCtrlReq process starts
0:49:51.044442	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:49:51.045473	LOG	Previous uplink Frame type (FType): 011
0:49:51.047470	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:49:51.048472	LOG	Previous uplink Frame type (FType): 011
0:49:55.000906	LOG	First uplink received. Open reception window.
0:49:55.107945	LOG	PUSH_ACK: 02 83f2 01
0:49:55.109913	LOG	GPS Time from gateway: 1385119043610
0:49:55.110912	LOG	PUSH_DATA: Protocol version = 02, Token = 83f2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 612789343, 'time': '2023-11-27T11:17:04.611412Z', 'tmms': 1385119043610, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACAZggC213qfG1Rz8Yq4Hs='}]}
0:49:55.112915	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0866, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c62ae07b)
0:49:55.113913	LOG	Server <-------------------- DUT
0:49:55.115914	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0532, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 81571fd3)
0:49:55.118420	LOG	Frame command sent to the DUT
0:49:55.119418	LOG	PULL_RESP: Protocol version = 02, Token = ff17, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 613789343, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAMgXgrGCylmIQEiPZu6s31RP9bqe9tX/1LcnnWkqGS8GHUx+IHIJUzDhU74xWcgaJAi3eQoG+/W+LIKvYYeb2DSdWx03D7u9rE7d6TPtUXoOA0z3mYCnFCUVilCvdQ/TVThQMIJp+Oh6Lq5WecWcs4xPAh9AMcT65+PDUIpb+ACoBC6o5H8YDUiXnLRYqjNScJpToRcRpM5BgRi6Cp/b1rJFvI+E+NrPZiIz6HEnhwCpqF4siPwAO8bqwQvgEVOREw/jmVozuw0lF+77i+5UgUwuWoH/1RX9P92h+DwiWnuZb62tuHsqnY/BzcshmYnpGGYwgJFGBVx/T'}}
0:49:55.120418	LOG	Server --------------------> DUT
0:49:55.124421	LOG	Send Test Command TxFramesCtrlReq process completed
0:49:55.127418	LOG	Check previous uplink data rate process starts
0:49:55.131441	LOG	Uplink received with expected Data Rate
0:49:55.134951	LOG	Send Test Command TxFramesCtrlReq process starts
0:49:56.047183	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:49:56.049162	LOG	Previous uplink Frame type (FType): 011
0:49:56.051164	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:49:56.053163	LOG	Previous uplink Frame type (FType): 011
0:49:58.274666	LOG	GPS Time updated: 1385119046884
0:49:58.276636	LOG	PULL_DATA: 02 89bb 02 0016c001ff1025bf
0:49:58.278635	LOG	PULL_ACK: 02 89bb 04
0:50:00.076926	LOG	First uplink received. Open reception window.
0:50:00.184497	LOG	PUSH_ACK: 02 dcf8 01
0:50:00.186464	LOG	GPS Time from gateway: 1385119048610
0:50:00.187465	LOG	PUSH_DATA: Protocol version = 02, Token = dcf8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 617789084, 'time': '2023-11-27T11:17:09.611152Z', 'tmms': 1385119048610, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu':

		'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAZwgCDBV1j3nx2CWV5Ag='}]}
0:50:00.189464	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0867, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2595e408)
0:50:00.191470	LOG	Server <-------------------- DUT
0:50:00.193504	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0533, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 187d014b)
0:50:00.195009	LOG	Frame command sent to the DUT
0:50:00.196052	LOG	PULL_RESP: Protocol version = 02, Token = cbfc, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 618789084, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAMwXgQv3oclW/GnqP2w2P+ddixgUghyXaa3g1vj30+dKUabskix4UDpJzYjH95OKiVSCPW6qiYpAuXExbqQvjEbU5Vij6XmrBAP77I9c13GBRu25b8gk7MtkFkDZdKQyudKp+4MD9LuPE9NNR1J6PtLTpSul080gvBOVUxBQMMkO8Lq3RfH5y0Yom9SBhAYGKDNRcNfcU04uYNSI/Dmbi1NqgnUkn3UyLRK5nmrNYLP/mwHEKQJaIDDZk0rVCZ5LApGS7RMv55P0fIQROC1CL1xlG8Tng9b8vleoWs9i79ULprpOzkQPTEoT/kHIP36WPBLmckzAYfQFL'}}
0:50:00.197046	LOG	Server --------------------> DUT
0:50:00.200016	LOG	Send Test Command TxFramesCtrlReq process completed
0:50:00.204014	LOG	Check previous uplink data rate process starts
0:50:00.208020	LOG	Uplink received with expected Data Rate
0:50:00.211051	LOG	Send Test Command TxFramesCtrlReq process starts
0:50:01.045767	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:50:01.047800	LOG	Previous uplink Frame type (FType): 011
0:50:01.049780	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:50:01.051770	LOG	Previous uplink Frame type (FType): 011
0:50:05.005397	LOG	First uplink received. Open reception window.
0:50:05.110057	LOG	PUSH_ACK: 02 25d5 01
0:50:05.112025	LOG	GPS Time from gateway: 1385119053610
0:50:05.113029	LOG	PUSH_DATA: Protocol version = 02, Token = 25d5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 622788821, 'time': '2023-11-27T11:17:14.610888Z', 'tmms': 1385119053610, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAaAgCYuxmEqG4mIE/O/E='}]}
0:50:05.115030	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0868, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 813f3bf1)
0:50:05.116032	LOG	Server <-------------------- DUT
0:50:05.118030	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0534, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 6bedff46)
0:50:05.120030	LOG	Frame command sent to the DUT

0:50:05.121029	LOG	PULL_RESP: Protocol version = 02, Token = 9d30, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 623788821, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAANAXgL8Dw4IaRveovCgqur/3k2v6V4qVWgkcny36VsZmLqftjg9E20vu8vWCQB5c/3W8AiZUKMhs6I9We+Qh2FMfnQofRPHFz7wIGciqF9ibjOEqSnIzzrZJ/z73NBm35zYze5io2spzT28dCddlyhKd/oaOuK4WJAQK0W2VYu//NKpnTucf8vLFSur9UOWz0dSZ6qmfnZRH9ileN6TFv6hxvkWEHXlwWkHi4+/Q6/SnZi0nfvKt2M9A5pS6WXBNeyRYwTmbovnbqCXG17vGt2NQZ6uoiv5VnC8icOLUoRdXfOU2PY+WxWYhMA/qs9rtyyADLqZxr7f9G'}}
0:50:05.123030	LOG	Server --------------------> DUT
0:50:05.125029	LOG	Send Test Command TxFramesCtrlReq process completed
0:50:05.128539	LOG	Check previous uplink data rate process starts
0:50:05.132572	LOG	Uplink received with expected Data Rate
0:50:05.135705	LOG	Send Test Command TxFramesCtrlReq process starts
0:50:06.048745	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:50:06.049743	LOG	Previous uplink Frame type (FType): 011
0:50:06.051744	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:50:06.053746	LOG	Previous uplink Frame type (FType): 011
0:50:08.484644	LOG	GPS Time updated: 1385119057090
0:50:08.485644	LOG	PULL_DATA: 02 83b6 02 0016c001ff1025bf
0:50:08.487645	LOG	PULL_ACK: 02 83b6 04
0:50:10.002808	LOG	First uplink received. Open reception window.
0:50:10.113906	LOG	PUSH_ACK: 02 e320 01
0:50:10.115873	LOG	GPS Time from gateway: 1385119058610
0:50:10.116872	LOG	PUSH_DATA: Protocol version = 02, Token = e320, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 627788564, 'time': '2023-11-27T11:17:19.610630Z', 'tmms': 1385119058610, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAaQgCPDTA93Gln7PKRj8='}]}
0:50:10.118881	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0869, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b3ca463f)
0:50:10.120881	LOG	Server <-------------------- DUT
0:50:10.122912	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0535, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 59584a77)
0:50:10.123916	LOG	Frame command sent to the DUT
0:50:10.125914	LOG	PULL_RESP: Protocol version = 02, Token = 3251, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 628788564, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAANQXgztwWoEs0YbnVn5y911+qeOxO77NnVT+prVhIi/Cioaon1TjL+5R+ANwEDS/EQ0WNhcpGNBqoOi+Fa16F14ABrB1vmK0iUtyblYsO3eK+JmiqU1DsrGXqitu3PLNSCvJ+5ypeYB/X6Q4lt0sMNaPRfwm8NBApIgQGqquo2ItfLYS56tDycif1wUGzub4KVFevduS1PzM4Utb9r9hGoax8U2sUukR7lLNkH9CE0Wme0PBxJKTPHZGRjOeKpYjUJYWY1fCOyi1Ki6bwju9FBjyIcUIgYnkB/gOPi+JDJ1wNnF2yWzF7JUTeXZERvzyrsOtvvMZZWEp3'}}
0:50:10.126914	LOG	Server --------------------> DUT
0:50:10.129879	LOG	Send Test Command TxFramesCtrlReq process completed
0:50:10.132878	LOG	Check previous uplink data rate process starts
0:50:10.137436	LOG	Uplink received with expected Data Rate
0:50:10.140429	LOG	Send Test Command TxFramesCtrlReq process starts

0:50:11.051734	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:50:11.053732	LOG	Previous uplink Frame type (FType): 011
0:50:11.055739	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:50:11.057744	LOG	Previous uplink Frame type (FType): 011
0:50:15.000232	LOG	First uplink received. Open reception window.
0:50:15.102415	LOG	PUSH_ACK: 02 dd39 01
0:50:15.104412	LOG	GPS Time from gateway: 1385119063610
0:50:15.105414	LOG	PUSH_DATA: Protocol version = 02, Token = dd39, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 632788301, 'time': '2023-11-27T11:17:24.610365Z', 'tmms': 1385119063610, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAaggCPBCmbiPPoQp0SkA='}]}
0:50:15.107381	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 086a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0a744a40)
0:50:15.108382	LOG	Server <-------------------- DUT
0:50:15.110385	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0536, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 5c5ff744)
0:50:15.112414	LOG	Frame command sent to the DUT
0:50:15.113412	LOG	PULL_RESP: Protocol version = 02, Token = 807e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 633788301, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAANgXgP1xH65G/ak/5fJ+ZQemgWAQWrW8Ga1h7CO08SCxSl+keirFfYoCRJK28TW2s3J3qdVX0aewaIhpkqHgqVnCisisqXOwkKldUf9OJSQMxyyqpetPUQqO7uxeG6XxO5jdp9SiitVkrsS9A3WF8+mdMXnVI6O1jZow76OjLCgkbas0Xo1QH7215IoBZGv4dO+ivK98Xf6qz0en1wL/PVJXg0kbvmGzdQ1ORc5krcz8q6aL8ZCwDHRja9KGiGihkBCT3GMcNpYC7/QZuIgaIjgv0uVPtpupuvtxwuevwYX14nICKdrDcnW4caiw/nDQ1mf2mfQlcX/dE'}}
0:50:15.115414	LOG	Server --------------------> DUT
0:50:15.118431	LOG	Send Test Command TxFramesCtrlReq process completed
0:50:15.120427	LOG	Check previous uplink data rate process starts
0:50:15.125429	LOG	Uplink received with expected Data Rate
0:50:15.128460	LOG	Send Test Command TxFramesCtrlReq process starts
0:50:16.043542	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:50:16.045541	LOG	Previous uplink Frame type (FType): 011
0:50:16.046554	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:50:16.048542	LOG	Previous uplink Frame type (FType): 011
0:50:18.684623	LOG	GPS Time updated: 1385119067294
0:50:18.685623	LOG	PULL_DATA: 02 536e 02 0016c001ff1025bf
0:50:18.687624	LOG	PULL_ACK: 02 536e 04
0:50:19.999084	LOG	First uplink received. Open reception window.
0:50:20.105789	LOG	PUSH_ACK: 02 92f4 01
0:50:20.107789	LOG	GPS Time from gateway: 1385119068610
0:50:20.108789	LOG	PUSH_DATA: Protocol version = 02, Token = 92f4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 637788045, 'time': '2023-11-27T11:17:29.610110Z', 'tmms': 1385119068610, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAawgCCLTAhYnE0DwhzLs='}]}
0:50:20.110791	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 086b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3c21ccbb)

0:50:20.111791	LOG	Server <-------------------- DUT
0:50:20.113790	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0537, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 4150d243)
0:50:20.115790	LOG	Frame command sent to the DUT
0:50:20.116789	LOG	PULL_RESP: Protocol version = 02, Token = 1898, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 638788045, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAANwXgLFnaJdts9DB5yG4Q000HaRsTN33wXOmWdmMps5ZpEJ6x2rfTyy9UgD5TnZLuO5vPRaMyoUs/n4TgxocDgEHwLDbLUySfZ9lmD7/Yc36DwCVq5mpiPil4kxm2touN5Snvw86uPP2yidYVAa5PmhffjszlfNQ/xHUtEdktnBGbmGJhX484XgvoSqjgO+fpzbWCIfxYjpMEMqNaT6sTJWys8KdkpjOsSoyHV0ScefN5sVg2yHoQQrr+Jst41XlMohN36/X2k6txpgrfZjZdzr6iHtNcBkWXiUCPnTJN4t8IDgZ8BkTJfL2cWa/cr8aJS/l17+BBUNJD'}}
0:50:20.118794	LOG	Server --------------------> DUT
0:50:20.121801	LOG	Send Test Command TxFramesCtrlReq process completed
0:50:20.124794	LOG	Check previous uplink data rate process starts
0:50:20.128795	LOG	Uplink received with expected Data Rate
0:50:20.131794	LOG	Send Test Command TxFramesCtrlReq process starts
0:50:21.051643	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:50:21.053628	LOG	Previous uplink Frame type (FType): 011
0:50:21.055600	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:50:21.056609	LOG	Previous uplink Frame type (FType): 011
0:50:25.000270	LOG	First uplink received. Open reception window.
0:50:25.105812	LOG	PUSH_ACK: 02 e7d3 01
0:50:25.107848	LOG	GPS Time from gateway: 1385119073610
0:50:25.108850	LOG	PUSH_DATA: Protocol version = 02, Token = e7d3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 642787785, 'time': '2023-11-27T11:17:34.609849Z', 'tmms': 1385119073610, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAbAgCY7L4uKmMpGq3+5c='}]}
0:50:25.110815	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 086c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6ab7fb97)
0:50:25.111814	LOG	Server <-------------------- DUT
0:50:25.113813	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0538, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 1afba911)
0:50:25.115846	LOG	Frame command sent to the DUT
0:50:25.116846	LOG	PULL_RESP: Protocol version = 02, Token = 681a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 643787785, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAOAXgvpWwJM/XmtoYWRU0kR9eXKysV2f05a4NDBjqtuOr0Q/WmvioMfpcJmN6Z4/0L18RRylB0wjdhgREPpDXuC4G/iu7w+jQXMi/aIGpBz8Nwh

		gotzEn98koe35b67pjueMKp7Ulg6lfKULOVZYpLSkPAbTmOk6/W5cjOCiPLk9ONeiYhMRqCUCqIj2yKyPjp3KDEmdJuHYoLPk5Van9DWSBICHPMGjWaZP4NX1q4BdI5omZ9cZnsJiu8fuf9lteR0UEC+EUFFsA42iWQJOKvbdq/bWCR5Isql4QtiBTtFsWILCDTcrTPkcAvbNPN/tevISSLmMa+6kR'}}
0:50:25.118852	LOG	Server --------------------> DUT
0:50:25.121855	LOG	Send Test Command TxFramesCtrlReq process completed
0:50:25.124851	LOG	Check previous uplink data rate process starts
0:50:25.128886	LOG	Uplink received with expected Data Rate
0:50:25.131851	LOG	Send Test Command TxFramesCtrlReq process starts
0:50:26.042739	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:50:26.044739	LOG	Previous uplink Frame type (FType): 011
0:50:26.045740	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:50:26.047750	LOG	Previous uplink Frame type (FType): 011
0:50:28.894109	LOG	GPS Time updated: 1385119077505
0:50:28.896077	LOG	PULL_DATA: 02 8f95 02 0016c001ff1025bf
0:50:28.898078	LOG	PULL_ACK: 02 8f95 04
0:50:30.076277	LOG	First uplink received. Open reception window.
0:50:30.178914	LOG	PUSH_ACK: 02 8e4f 01
0:50:30.180885	LOG	GPS Time from gateway: 1385119078610
0:50:30.181895	LOG	PUSH_DATA: Protocol version = 02, Token = 8e4f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 647787525, 'time': '2023-11-27T11:17:39.609588Z', 'tmms': 1385119078610, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAbQgCqAU7RZKOPsSd8I4='}]}
0:50:30.183884	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 086d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c49df08e)
0:50:30.185891	LOG	Server <-------------------- DUT
0:50:30.187923	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0539, FOpts:), FPort: e0, FRMPayload: 070001), MIC: f5f54d80)
0:50:30.188922	LOG	Frame command sent to the DUT
0:50:30.190925	LOG	PULL_RESP: Protocol version = 02, Token = 6a88, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 648787525, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAOQXgYMRMAtZ6ydYWat/uIXwYSoUHVM1XOImJpEYFTR4jcGrEM5qiShME7o3fVmRGiCC+lNkAaD2kHPIrYaQFYs1Qb3CMhRZ6fnXwJqCHTJ/fDIQuLEyqsDTuOIkrYh18Oralf9z3vKniVHv8vYRBnGA5fg+Y6UJMqZasVf1E4t7dRiijPJtTRB+f2gp4c0K7qNWQPmO8/GBIfKl5zziZMjvJJ9n3VUaCNOq/uo+JU1qadf0lHC7fOSUba3V2mN/wzMSXYcjzkbXbQo0oCD516+rjjcIxjJSsrJspIXnZQsrB8TIA6kbwloLJ1cOnege4/oGCX0v19U2A'}}
0:50:30.191926	LOG	Server --------------------> DUT
0:50:30.195412	LOG	Send Test Command TxFramesCtrlReq process completed
0:50:30.198434	LOG	Check previous uplink data rate process starts
0:50:30.202417	LOG	Uplink received with expected Data Rate
0:50:30.206419	LOG	Send Test Command TxFramesCtrlReq process starts
0:50:31.046756	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:50:31.047794	LOG	Previous uplink Frame type (FType): 011
0:50:31.050755	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:50:31.052754	LOG	Previous uplink Frame type (FType): 011

0:50:34.998966	LOG	First uplink received. Open reception window.
0:50:35.111796	LOG	PUSH_ACK: 02 248c 01
0:50:35.113763	LOG	GPS Time from gateway: 1385119083609
0:50:35.114798	LOG	PUSH_DATA: Protocol version = 02, Token = 248c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 652787270, 'time': '2023-11-27T11:17:44.609332Z', 'tmms': 1385119083609, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACAbggC0URIKr5KDA12da8='}]}
0:50:35.116763	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 086e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0d7675af)
0:50:35.117764	LOG	Server <-------------------- DUT
0:50:35.119802	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 053a, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 013ae522)
0:50:35.121804	LOG	Frame command sent to the DUT
0:50:35.122802	LOG	PULL_RESP: Protocol version = 02, Token = 2209, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 653787270, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAOgXgsi+bgFBPT/BmIF3TXV2cmEbwIA59PRUeeUXrIv60dvJ1X08GCKqj1O1BLPhz1F37OKgisibrfM9ILErbWrsNiGRVwXXCUx9VVgjJvRqIEB/QgDA0+20Gv9wl1lvtffBVrS1tLfM1cieZhl5jW3xbTnGiQW08vWndCtM2TYPiWt5dB2evXLWMxB88COqANcPMpeiWT2a9yDIJwR+j+nvQ4tACyXLslKmkPpyVVkaDFBiu1d4FhsZlat85pkB5igXfVSVAzQU2GbmN895chcH0KqJDBRSe2fo51ojyJFdxx5f63hSih2QvbWlmY3avjGKwAcEBOuUi'}}
0:50:35.124811	LOG	Server --------------------> DUT
0:50:35.126770	LOG	Send Test Command TxFramesCtrlReq process completed
0:50:35.129801	LOG	Check previous uplink data rate process starts
0:50:35.133909	LOG	Uplink received with expected Data Rate
0:50:35.137940	LOG	Step 14-15
0:50:35.140941	LOG	Send Test Command RxAppCntReq process starts
0:50:36.042968	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:50:36.044933	LOG	Previous uplink Frame type (FType): 011
0:50:36.045935	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:50:36.047936	LOG	Previous uplink Frame type (FType): 011
0:50:38.904456	LOG	GPS Time updated: 1385119087515
0:50:38.905455	LOG	PULL_DATA: 02 4253 02 0016c001ff1025bf
0:50:38.907422	LOG	PULL_ACK: 02 4253 04
0:50:40.003753	LOG	First uplink received. Open reception window.
0:50:40.104636	LOG	PUSH_ACK: 02 c8ff 01
0:50:40.106638	LOG	GPS Time from gateway: 1385119088609
0:50:40.107639	LOG	PUSH_DATA: Protocol version = 02, Token = c8ff, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 657787007, 'time': '2023-11-27T11:17:49.609068Z', 'tmms': 1385119088609, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAbwgCS3PlL5te2nn34bg='}]}
0:50:40.108638	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 086f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 79f7e1b8)
0:50:40.110639	LOG	Server <-------------------- DUT
0:50:40.112637	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 053b, FOpts:), FPort: e0, FRMPayload: 09), MIC: bda6df54)

0:50:40.113640	LOG	Frame command sent to the DUT
0:50:40.115636	LOG	PULL_RESP: Protocol version = 02, Token = eaee, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 658787007, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 14, 'data': 'YAAAAAAAOwXgb72m31Q='}}
0:50:40.116637	LOG	Server ----------> DUT
0:50:40.118641	LOG	TX_ACK: 02 eaee 05 0016c001ff1025bf
0:50:41.001134	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:50:41.003103	LOG	Previous uplink Frame type (FType): 011
0:50:41.005106	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:50:41.006114	LOG	Previous uplink Frame type (FType): 011
0:50:41.117537	LOG	First uplink received. Open reception window.
0:50:41.230256	LOG	PUSH_ACK: 02 385d 01
0:50:41.233258	LOG	GPS Time from gateway: 1385119089641
0:50:41.234256	LOG	PUSH_DATA: Protocol version = 02, Token = 385d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 658819250, 'time': '2023-11-27T11:17:50.641311Z', 'tmms': 1385119089641, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -67, 'size': 16, 'data': 'QAAAAACAcAjg8u9ITh4nzQ=='}]}
0:50:41.236259	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0870, FOpts:), FPort: e0, FRMPayload: 09c203, MIC: 4e1e27cd)
0:50:41.237289	LOG	Server <---------- DUT
0:50:41.238289	LOG	Frame Command Payload in the Answer: 09c203
0:50:41.243274	LOG	RX Count received by DUT: 962
0:50:41.245262	LOG	Send Test Command RxAppCntReq process completed
0:50:41.255264	LOG	Step 16-17
0:50:41.258768	LOG	Send LinkADRReq process starts
0:50:44.994665	LOG	First uplink received. Open reception window.
0:50:45.102725	LOG	PUSH_ACK: 02 bd8c 01
0:50:45.104282	LOG	GPS Time from gateway: 1385119093609
0:50:45.106282	LOG	PUSH_DATA: Protocol version = 02, Token = bd8c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 662786809, 'time': '2023-11-27T11:17:54.608869Z', 'tmms': 1385119093609, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAcQgCIUdDLHKstepZ1gM='}]}
0:50:45.107285	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0871, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ea59d603)
0:50:45.109284	LOG	Server <---------- DUT
0:50:45.111283	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 053c, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: 22cf5f13)
0:50:45.113283	LOG	PULL_RESP: Protocol version = 02, Token = 46c7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 663786809, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 18, 'data': 'YAAAAAAAPAUA/yawgI0iz18T'}}
0:50:45.114283	LOG	Server ----------> DUT
0:50:45.117283	LOG	TX_ACK: 02 46c7 05 0016c001ff1025bf
0:50:46.000635	LOG	#**********CURRENT BEACON SENT**********#
0:50:46.005603	LOG	PULL_RESP: Protocol version = 02, Token = 0830, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385119104000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAPY9S3SsAAAAAAAAAAA='}}
0:50:46.008118	LOG	Server ----------> DUT
0:50:46.010146	LOG	#**********#

0:50:46.021124	LOG	#**********NEXT BEACON QUEUED**********#
0:50:46.022124	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385119232000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAPo9Sta8AAAAAAAAAAA='}}
0:50:46.024139	LOG	Server ----------> DUT
0:50:46.025143	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 003e8f52, CRC1: b5af, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385119232000
0:50:46.026144	LOG	#**********#
0:50:46.028144	LOG	Next BEACON scheduled at GPS time (ms): 1385119360000
0:50:46.029142	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:50:46.031144	LOG	Previous uplink Frame type (FType): 011
0:50:46.032144	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:50:46.034177	LOG	Previous uplink Frame type (FType): 011
0:50:46.036143	LOG	TX_ACK: 02 0830 05 0016c001ff1025bf
0:50:48.944711	LOG	GPS Time updated: 1385119097558
0:50:48.945711	LOG	PULL_DATA: 02 809e 02 0016c001ff1025bf
0:50:48.947711	LOG	PULL_ACK: 02 809e 04
0:50:50.048701	LOG	First uplink received. Open reception window.
0:50:50.152264	LOG	PUSH_ACK: 02 6567 01
0:50:50.154277	LOG	GPS Time from gateway: 1385119098660
0:50:50.155264	LOG	PUSH_DATA: Protocol version = 02, Token = 6567, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 667837577, 'time': '2023-11-27T11:17:59.659636Z', 'tmms': 1385119098660, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3346, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCcggDBwKkkvNPUEb09XENLw=='}]}
0:50:50.157264	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0872, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: f5710d2f)
0:50:50.159270	LOG	Server <---------- DUT
0:50:50.160269	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:50:50.162269	LOG	Command Answer: 0307
0:50:50.169793	LOG	MAC command communication completed
0:50:50.173778	LOG	Send NewChannelReq process starts
0:50:55.046267	LOG	First uplink received. Open reception window.
0:50:55.154842	LOG	PUSH_ACK: 02 7188 01
0:50:55.156844	LOG	GPS Time from gateway: 1385119103659
0:50:55.157811	LOG	PUSH_DATA: Protocol version = 02, Token = 7188, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 672837149, 'time': '2023-11-27T11:18:04.659206Z', 'tmms': 1385119103659, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3346, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAcwgCyqoUobeoWixZH+o='}]}
0:50:55.159811	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0873, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2c591fea)
0:50:55.161817	LOG	Server <---------- DUT
0:50:55.162850	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 053d, FOpts:), FPort: 00, FRMPayload: 070400000050), MIC: 25be934a)
0:50:55.165407	LOG	PULL_RESP: Protocol version = 02, Token = dc98, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 673837149, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YAAAAAAAPQUAbiiK5wdOJb6TSg=='}}
0:50:55.166447	LOG	Server ----------> DUT
0:50:55.169414	LOG	TX_ACK: 02 dc98 05 0016c001ff1025bf

0:50:59.154421	LOG	GPS Time updated: 1385119107767
0:50:59.155420	LOG	PULL_DATA: 02 d800 02 0016c001ff1025bf
0:50:59.157400	LOG	PULL_ACK: 02 d800 04
0:51:00.086981	LOG	First uplink received. Open reception window.
0:51:00.203280	LOG	PUSH_ACK: 02 6cab 01
0:51:00.205247	LOG	GPS Time from gateway: 1385119108659
0:51:00.206248	LOG	PUSH_DATA: Protocol version = 02, Token = 6cab, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 677837023, 'time': '2023-11-27T11:18:09.659081Z', 'tmms': 1385119108659, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3331, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCdAgHAwL9nGc6CyPtYUdT9w==\'}]}
0:51:00.208269	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0874, FOpts: 0703), FPort: 02, FRMPayload: 00000001020000, MIC: 614753f7)
0:51:00.209248	LOG	Server <---------- DUT
0:51:00.211248	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:51:00.213253	LOG	Command Answer: 0703
0:51:00.217255	LOG	MAC command communication completed
0:51:00.222286	LOG	End Test Step: Test packet error rate for FSK50 using RX1 window
0:51:00.226793	LOG	Partial Verdict: PASS
0:51:00.231796	LOG	==========
0:51:00.236017	LOG	==========
0:51:00.238026	LOG	Start Test Step: Test packet error rate for LR_FHSSCR1_3BW137 using RX1 window
0:51:00.253106	LOG	End Test Step: Test packet error rate for LR_FHSSCR1_3BW137 using RX1 window
0:51:00.256101	LOG	TEST STEP NOT APPLICABLE
0:51:00.260610	LOG	==========
0:51:00.266610	LOG	==========
0:51:00.268644	LOG	Start Test Step: Test packet error rate for LR_FHSSCR2_3BW137 using RX1 window
0:51:00.282849	LOG	End Test Step: Test packet error rate for LR_FHSSCR2_3BW137 using RX1 window
0:51:00.284850	LOG	TEST STEP NOT APPLICABLE
0:51:00.288898	LOG	==========
0:51:00.293912	LOG	==========
0:51:00.295938	LOG	Start Test Step: Test packet error rate for LR_FHSSCR1_3BW336 using RX1 window
0:51:00.311945	LOG	End Test Step: Test packet error rate for LR_FHSSCR1_3BW336 using RX1 window
0:51:00.314909	LOG	TEST STEP NOT APPLICABLE
0:51:00.318942	LOG	==========
0:51:00.323484	LOG	==========
0:51:00.326484	LOG	Start Test Step: Test packet error rate for LR_FHSSCR2_3BW336 using RX1 window
0:51:00.339798	LOG	End Test Step: Test packet error rate for LR_FHSSCR2_3BW336 using RX1 window
0:51:00.343792	LOG	TEST STEP NOT APPLICABLE
0:51:00.346792	LOG	==========
0:51:00.350793	LOG	==========
0:51:00.354035	LOG	Start Test Step: Restore default settings
0:51:00.366065	LOG	Send LinkADRReq process starts
0:51:05.048974	LOG	First uplink received. Open reception window.
0:51:05.158977	LOG	PUSH_ACK: 02 3cf3 01
0:51:05.160945	LOG	GPS Time from gateway: 1385119113659

0:51:05.162946	LOG	PUSH_DATA: Protocol version = 02, Token = 3cf3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 682836658, 'time': '2023-11-27T11:18:14.658715Z', 'tmms': 1385119113659, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3331, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAdQgCnjtAaUzM+diHZIo='}]}
0:51:05.164459	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0875, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d887648a)
0:51:05.165464	LOG	Server <---------- DUT
0:51:05.167464	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 053e, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: ad8e8f87)
0:51:05.169464	LOG	PULL_RESP: Protocol version = 02, Token = 103a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 684836658, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAPgUAKdCswSitjo+H'}}
0:51:05.171465	LOG	Server ----------> DUT
0:51:05.174466	LOG	TX_ACK: 02 103a 05 0016c001ff1025bf
0:51:09.163793	LOG	GPS Time updated: 1385119117775
0:51:09.165793	LOG	PULL_DATA: 02 5e60 02 0016c001ff1025bf
0:51:09.167795	LOG	PULL_ACK: 02 5e60 04
0:51:10.051866	LOG	First uplink received. Open reception window.
0:51:10.161180	LOG	PUSH_ACK: 02 7fce 01
0:51:10.163147	LOG	GPS Time from gateway: 1385119118659
0:51:10.164652	LOG	PUSH_DATA: Protocol version = 02, Token = 7fce, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 687836509, 'time': '2023-11-27T11:18:19.658565Z', 'tmms': 1385119118659, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3346, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCdggDBwJ/XYAWiJhzNqMknw=='}]}
0:51:10.166657	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0876, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 36a3249f)
0:51:10.167657	LOG	Server <---------- DUT
0:51:10.169658	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:51:10.170657	LOG	Command Answer: 0307
0:51:10.177500	LOG	MAC command communication completed
0:51:10.182504	LOG	Send RXParamSetupReq process starts
0:51:15.048398	LOG	First uplink received. Open reception window.
0:51:15.153780	LOG	PUSH_ACK: 02 08c1 01
0:51:15.155780	LOG	GPS Time from gateway: 1385119123658
0:51:15.156784	LOG	PUSH_DATA: Protocol version = 02, Token = 08c1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 692836140, 'time': '2023-11-27T11:18:24.658195Z', 'tmms': 1385119123658, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3331, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAdwgCM9fC/sj7c1y4vVs='}]}
0:51:15.158782	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0877, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5cb8bd5b)
0:51:15.160786	LOG	Server <---------- DUT
0:51:15.162800	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 053f, FOpts:), FPort: 00, FRMPayload: 0500d2ad84), MIC: d9cd0556)
0:51:15.164304	LOG	PULL_RESP: Protocol version = 02, Token = 938a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 694836140, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAPwUAc/Ev3/nZzQVW'}}
0:51:15.165309	LOG	Server ----------> DUT
0:51:15.168354	LOG	TX_ACK: 02 938a 05 0016c001ff1025bf
0:51:19.364290	LOG	GPS Time updated: 1385119127974
0:51:19.365853	LOG	PULL_DATA: 02 21d1 02 0016c001ff1025bf

0:51:19.367486	LOG	PULL_ACK: 02 21d1 04
0:51:20.048224	LOG	First uplink received. Open reception window.
0:51:20.150426	LOG	PUSH_ACK: 02 c094 01
0:51:20.152429	LOG	GPS Time from gateway: 1385119128658
0:51:20.153428	LOG	PUSH_DATA: Protocol version = 02, Token = c094, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 697835993, 'time': '2023-11-27T11:18:29.658047Z', 'tmms': 1385119128658, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3346, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCeAgFBwI1Zpvf1uVOK3iQ2A==\'}]}
0:51:20.155430	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0878, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 2b7890d8)
0:51:20.157444	LOG	Server <---------- DUT
0:51:20.159436	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:51:20.160434	LOG	Command Answer: 0507
0:51:20.172975	LOG	MAC command communication completed
0:51:20.175974	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:51:25.053789	LOG	First uplink received. Open reception window.
0:51:25.158136	LOG	PUSH_ACK: 02 77f9 01
0:51:25.160105	LOG	GPS Time from gateway: 1385119133658
0:51:25.161105	LOG	PUSH_DATA: Protocol version = 02, Token = 77f9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 702835740, 'time': '2023-11-27T11:18:34.657793Z', 'tmms': 1385119133658, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3332, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCeQgFBwI2+tHYhb5oH8r7pw==\'}]}
0:51:25.163106	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0879, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 1fcafba7)
0:51:25.164112	LOG	Server <---------- DUT
0:51:25.166118	LOG	MAC Command RXParamSetupAns received
0:51:25.168118	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0540, FOpts:), FPort: e0, FRMPayload: 0501), MIC: 67554512)
0:51:25.169117	LOG	Frame command sent to the DUT
0:51:25.171131	LOG	PULL_RESP: Protocol version = 02, Token = b214, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 704835740, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAQAXgGDRnVUUS'}}
0:51:25.172118	LOG	Server ----------> DUT
0:51:25.175118	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:51:25.178133	LOG	Wait until a confirmed or unconfirmed uplink arrives process starts
0:51:29.373970	LOG	GPS Time updated: 1385119137978
0:51:29.374971	LOG	PULL_DATA: 02 f134 02 0016c001ff1025bf
0:51:29.376937	LOG	PULL_ACK: 02 f134 04
0:51:30.046617	LOG	First uplink received. Open reception window.
0:51:30.157545	LOG	PUSH_ACK: 02 8405 01
0:51:30.159545	LOG	GPS Time from gateway: 1385119138657
0:51:30.160579	LOG	PUSH_DATA: Protocol version = 02, Token = 8405, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 707835373, 'time': '2023-11-27T11:18:39.657424Z', 'tmms': 1385119138657, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3346, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAeggCgI+V4tjbXfxZNz8=\'}]}
0:51:30.162547	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 087a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fc59373f)
0:51:30.164052	LOG	Server <---------- DUT
0:51:30.167197	LOG	Wait until a confirmed or unconfirmed uplink arrives tested successfully
0:51:30.169239	LOG	End Test Step: Restore default settings
0:51:30.173238	LOG	Partial Verdict: PASS

0:51:30.177238	LOG	==========
0:51:30.181244	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_015_B
0:51:30.182244	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_016	
Verdict	PASS	
Date	2023-11-27 12:18:43	
Description		
Technology Version	LCTT v3.11.0_R1 | GUI v2.6.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.3	
Test Specs Version	USv1.5.1/EUv1.6.2/KRv1.2.1/ASv1.1.1/INv1.1.1/ALL_Av1.6/ALL_Cv1.0/ ALL_Bv1.0/SCHCv1.1/ALPv1.0	
Project	ref-stack	
Project Creation Date	2023-10-04 09:10:20	
Sample Parameters		
	Data Rates to be measured	ALL
	Conformance	TRUE

Time Stamp (ms)	Event	Summary
0:00:00.009472	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_016
0:00:00.067508	LOG	==========
0:00:00.069514	LOG	Start Test Step: Device activation
0:00:00.153204	LOG	Activation process has finished successfully
0:00:00.155204	LOG	Data stored in the DUT after Activation:
0:00:00.158206	LOG	DevAddr: 00000000
0:00:00.161203	LOG	AppEUI: 0000000000000000
0:00:00.164209	LOG	NwkSKey: 6bfb58c6a233389e6e66450a9e520a70
0:00:00.167208	LOG	AppSKey: ded4e508ab9cede444c3765e0533fcac
0:00:00.170239	LOG	End Test Step: Device activation
0:00:00.174243	LOG	Partial Verdict: PASS
0:00:00.178327	LOG	==========
0:00:00.183361	LOG	==========
0:00:00.185360	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.194332	LOG	DUT Pre-condition activation process starts
0:00:00.197365	LOG	DUT Pre-condition activation completed
0:00:00.200364	LOG	End Test Step: DUT Pre-condition settings
0:00:00.203365	LOG	Partial Verdict: PASS
0:00:00.207365	LOG	==========
0:00:00.212880	LOG	==========
0:00:00.215845	LOG	Start Test Step: Initial settings for the test
0:00:00.224847	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:00:00.438376	LOG	PUSH_DATA received while waiting first PULL_DATA
0:00:04.851776	LOG	GPS Time updated: 1385119143070
0:00:04.853776	LOG	PULL_DATA: 02 6dcd 02 0016c001ff1025bf
0:00:04.854812	LOG	PULL_ACK: 02 6dcd 04
0:00:05.432386	LOG	First uplink received. Open reception window.
0:00:05.537991	LOG	PUSH_ACK: 02 7245 01
0:00:05.539959	LOG	GPS Time from gateway: 1385119148657
0:00:05.541963	LOG	PUSH_DATA: Protocol version = 02, Token = 7245, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 717834850, 'time': '2023-11-27T11:18:49.656901Z', 'tmms': 1385119148657, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3346, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAfAgCbWVbCbtqlh+EsGA='}]}
0:00:05.542963	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 087c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1f84b060)

0:00:05.543963	LOG	Server <---------- DUT
0:00:05.545963	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0541, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 56099d1b)
0:00:05.547996	LOG	Frame command sent to the DUT
0:00:05.549964	LOG	PULL_RESP: Protocol version = 02, Token = e172, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 719834850, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAQQXgGlRWCZ0b'}}
0:00:05.550963	LOG	Server ----------> DUT
0:00:05.554492	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:00:05.558489	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:10.430715	LOG	First uplink received. Open reception window.
0:00:10.538831	LOG	PUSH_ACK: 02 cd8f 01
0:00:10.540832	LOG	GPS Time from gateway: 1385119153657
0:00:10.541833	LOG	PUSH_DATA: Protocol version = 02, Token = cd8f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 722834621, 'time': '2023-11-27T11:18:54.656671Z', 'tmms': 1385119153657, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3346, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAfQgCg34/odcqvfByGdA='}]}
0:00:10.543832	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 087d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f07219d0)
0:00:10.544833	LOG	Server <---------- DUT
0:00:10.546834	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0542, FOpts:), FPort: e0, FRMPayload: 0701), MIC: d2779022)
0:00:10.548838	LOG	Frame command sent to the DUT
0:00:10.549867	LOG	PULL_RESP: Protocol version = 02, Token = 0a59, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 724834621, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAQgXgL3LSd5Ai'}}
0:00:10.550865	LOG	Server ----------> DUT
0:00:10.553859	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:10.556862	LOG	End Test Step: Initial settings for the test
0:00:10.561866	LOG	Partial Verdict: PASS
0:00:10.564866	LOG	==========
0:00:10.569867	LOG	==========
0:00:10.571865	LOG	Start Test Step: Test packet error rate for SF12BW125 using RX2 window
0:00:10.582340	LOG	Step 01-03
0:00:10.586384	LOG	Send RXParamSetupReq process starts
0:00:14.962682	LOG	GPS Time updated: 1385119158190
0:00:14.963700	LOG	PULL_DATA: 02 3239 02 0016c001ff1025bf
0:00:14.965687	LOG	PULL_ACK: 02 3239 04
0:00:15.433112	LOG	First uplink received. Open reception window.
0:00:15.542331	LOG	PUSH_ACK: 02 3b6e 01
0:00:15.544331	LOG	GPS Time from gateway: 1385119158656
0:00:15.545330	LOG	PUSH_DATA: Protocol version = 02, Token = 3b6e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 727834397, 'time': '2023-11-27T11:18:59.656446Z', 'tmms': 1385119158656, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3346, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAfggCa38efq1Cw++DvuM='}]}
0:00:15.547348	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 087e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ef83bee3)
0:00:15.548333	LOG	Server <---------- DUT
0:00:15.550331	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0543, FOpts:), FPort: 00, FRMPayload: 0500d2ad84), MIC: ccdd2f18)
0:00:15.552332	LOG	PULL_RESP: Protocol version = 02, Token = b18c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 729834397, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAQwUAW+7YskfM3S8Y'}}
0:00:15.553332	LOG	Server ----------> DUT
0:00:15.558299	LOG	TX_ACK: 02 b18c 05 0016c001ff1025bf
0:00:20.433110	LOG	First uplink received. Open reception window.
0:00:20.538762	LOG	PUSH_ACK: 02 2d99 01
0:00:20.540732	LOG	GPS Time from gateway: 1385119163656
0:00:20.541768	LOG	PUSH_DATA: Protocol version = 02, Token = 2d99, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 732834260, 'time': '2023-11-27T11:19:04.656308Z', 'tmms': 1385119163656, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3343, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCfwgFBwICjzx5jJ9uuXxF2A=='}]}
0:00:20.543769	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 087f, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: b97c45d8)
0:00:20.544773	LOG	Server <---------- DUT
0:00:20.546732	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:20.547765	LOG	Command Answer: 0507
0:00:20.560732	LOG	MAC command communication completed
0:00:20.564731	LOG	Step 03-04
0:00:20.574785	LOG	Send Test Command RxAppCntReq process starts
0:00:25.002348	LOG	GPS Time updated: 1385119168225
0:00:25.004312	LOG	PULL_DATA: 02 ceac 02 0016c001ff1025bf
0:00:25.005312	LOG	PULL_ACK: 02 ceac 04
0:00:25.484711	LOG	First uplink received. Open reception window.
0:00:25.599388	LOG	PUSH_ACK: 02 6e88 01
0:00:25.601359	LOG	GPS Time from gateway: 1385119168656
0:00:25.602391	LOG	PUSH_DATA: Protocol version = 02, Token = 6e88, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 737834009, 'time': '2023-11-27T11:19:09.656055Z', 'tmms': 1385119168656, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3335, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCgAgFBwLQ8fdscUxZvKe0mQ=='}]}
0:00:25.603390	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0880, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: bca7b499)
0:00:25.605405	LOG	Server <---------- DUT
0:00:25.606390	LOG	MAC Command RXParamSetupAns received
0:00:25.608359	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0544, FOpts:), FPort: e0, FRMPayload: 09), MIC: 84d7d8e1)
0:00:25.610358	LOG	Frame command sent to the DUT
0:00:25.611358	LOG	PULL_RESP: Protocol version = 02, Token = 335e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 739834009, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAARAXgTYTX2OE='}}
0:00:25.612357	LOG	Server ----------> DUT
0:00:25.615267	LOG	TX_ACK: 02 335e 05 0016c001ff1025bf
0:00:28.694640	LOG	First uplink received. Open reception window.
0:00:28.799216	LOG	PUSH_ACK: 02 a82e 01
0:00:28.801214	LOG	GPS Time from gateway: 1385119171914
0:00:28.802214	LOG	PUSH_DATA: Protocol version = 02, Token = a82e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 741092332, 'time': '2023-11-27T11:19:12.914379Z', 'tmms': 1385119171914, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3358, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAgQjgg+lyLJZsAA=='}]}
0:00:28.803214	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0881, FOpts:), FPort: e0, FRMPayload: 09c603, MIC: 2c966c00)
0:00:28.805183	LOG	Server <---------- DUT

0:00:28.806215	LOG	Frame Command Payload in the Answer: 09c603
0:00:28.810183	LOG	RX Count received by DUT: 966
0:00:28.812183	LOG	Send Test Command RxAppCntReq process completed
0:00:28.817181	LOG	Step 05
0:00:28.820182	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:35.062495	LOG	GPS Time updated: 1385119178282
0:00:35.063498	LOG	PULL_DATA: 02 1c1f 02 0016c001ff1025bf
0:00:35.065484	LOG	PULL_ACK: 02 1c1f 04
0:00:35.438699	LOG	First uplink received. Open reception window.
0:00:35.551549	LOG	PUSH_ACK: 02 270e 01
0:00:35.553530	LOG	GPS Time from gateway: 1385119178655
0:00:35.554552	LOG	PUSH_DATA: Protocol version = 02, Token = 270e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 747833396, 'time': '2023-11-27T11:19:19.655442Z', 'tmms': 1385119178655, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3347, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAgggCdLk/2GQrPsPBxgM='}]}
0:00:35.556518	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0882, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c3c1c603)
0:00:35.557568	LOG	Server <---------- DUT
0:00:35.559542	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0545, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 9b6fad08)
0:00:35.561517	LOG	Frame command sent to the DUT
0:00:35.562554	LOG	PULL_RESP: Protocol version = 02, Token = 392c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 749833396, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAARQXgVFoT5I0OXxsVjVTzvOY23UlYWRdvrkZ5sjIAypYJJXgSKCKwiStkN/qXfCS0htj/5Ewmm2+tCA==''}}
0:00:35.564518	LOG	Server ----------> DUT
0:00:35.566546	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:35.570549	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:40.435263	LOG	First uplink received. Open reception window.
0:00:40.546462	LOG	PUSH_ACK: 02 53ac 01
0:00:40.547967	LOG	GPS Time from gateway: 1385119183655
0:00:40.548973	LOG	PUSH_DATA: Protocol version = 02, Token = 53ac, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 752833131, 'time': '2023-11-27T11:19:24.655176Z', 'tmms': 1385119183655, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3366, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAgwgCEIaV6oqCOdJEQk4='}]}
0:00:40.550971	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0883, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d244424e)
0:00:40.551977	LOG	Server <---------- DUT
0:00:40.553972	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0546, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: a3765f39)
0:00:40.555973	LOG	Frame command sent to the DUT
0:00:40.556972	LOG	PULL_RESP: Protocol version = 02, Token = 7ab1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 754833131, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAARgXgsSihNKM4Ug9RFAwi7HuxnF538gME/2FzyVz2lskcNn4/OTGCU+qlUZJcXFDdSiKP4/xXo3ZfOQ==''}}
0:00:40.558972	LOG	Server ----------> DUT

0:00:40.562268	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:40.566004	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:45.182640	LOG	GPS Time updated: 1385119188402
0:00:45.183640	LOG	PULL_DATA: 02 cbd8 02 0016c001ff1025bf
0:00:45.184642	LOG	PULL_ACK: 02 cbd8 04
0:00:47.003131	LOG	First uplink received. Open reception window.
0:00:47.104782	LOG	PUSH_ACK: 02 b227 01
0:00:47.106749	LOG	GPS Time from gateway: 1385119190229
0:00:47.107750	LOG	PUSH_DATA: Protocol version = 02, Token = b227, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 759406686, 'time': '2023-11-27T11:19:31.228730Z', 'tmms': 1385119190229, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3347, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAhAgCXlmCE7LysEGSnsM='}]}
0:00:47.109750	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0884, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 41929ec3)
0:00:47.110750	LOG	Server <---------- DUT
0:00:47.112751	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0547, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 9987254f)
0:00:47.113750	LOG	Frame command sent to the DUT
0:00:47.115749	LOG	PULL_RESP: Protocol version = 02, Token = 7d47, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 761406686, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAARwXgbIinfpHlFkNSJbWcCAWp0ncYHP4I5QZFC/PfnrjhAVXPTk79VjsEq3BfnYfOStmoxiNjmYclTw==''}}
0:00:47.116750	LOG	Server ----------> DUT
0:00:47.119786	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:47.123709	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:55.302135	LOG	GPS Time updated: 1385119198529
0:00:55.303776	LOG	PULL_DATA: 02 c21f 02 0016c001ff1025bf
0:00:55.305420	LOG	PULL_ACK: 02 c21f 04
0:00:56.790997	LOG	First uplink received. Open reception window.
0:00:56.893266	LOG	PUSH_ACK: 02 64c1 01
0:00:56.895265	LOG	GPS Time from gateway: 1385119200011
0:00:56.896265	LOG	PUSH_DATA: Protocol version = 02, Token = 64c1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 769188756, 'time': '2023-11-27T11:19:41.010796Z', 'tmms': 1385119200011, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3347, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAhQgCJcNqIYeLWXgGsa4='}]}
0:00:56.898233	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0885, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7806b1ae)
0:00:56.899233	LOG	Server <---------- DUT
0:00:56.901234	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0548, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c81ada8c)
0:00:56.903234	LOG	Frame command sent to the DUT
0:00:56.904233	LOG	PULL_RESP: Protocol version = 02, Token = c295, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 771188756, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAASAXgZhgRAueF4lZjLyxE9qIk+Wsjyar6yOZs3aSX9J2GHnOjvm2lF9Zex1pcdLobikjj1ZzGyBrajA==''}}
0:00:56.905234	LOG	Server ----------> DUT

0:00:56.908266	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:56.912078	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:01.790689	LOG	First uplink received. Open reception window.
0:01:01.892322	LOG	PUSH_ACK: 02 c396 01
0:01:01.894323	LOG	GPS Time from gateway: 1385119205010
0:01:01.895325	LOG	PUSH_DATA: Protocol version = 02, Token = c396, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 774188530, 'time': '2023-11-27T11:19:46.010572Z', 'tmms': 1385119205010, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3362, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAhggCKO3f60w827LzExQ='}]}
0:01:01.897340	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0886, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b2f31314)
0:01:01.898324	LOG	Server <---------- DUT
0:01:01.900323	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0549, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: b30b4de2)
0:01:01.901323	LOG	Frame command sent to the DUT
0:01:01.903322	LOG	PULL_RESP: Protocol version = 02, Token = ae17, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 776188530, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAASQXg3h5cLps4tZO4ckn/vmporNxflCqcbgXgPiAT2jYG26Smo/8xeKRIN6zFbRYRqN9qSMc/swtN4g==''}}
0:01:01.904323	LOG	Server ----------> DUT
0:01:01.907323	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:01.910923	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:05.471197	LOG	GPS Time updated: 1385119208691
0:01:05.472700	LOG	PULL_DATA: 02 fbfe 02 0016c001ff1025bf
0:01:05.474705	LOG	PULL_ACK: 02 fbfe 04
0:01:06.790113	LOG	First uplink received. Open reception window.
0:01:06.893394	LOG	PUSH_ACK: 02 0428 01
0:01:06.895397	LOG	GPS Time from gateway: 1385119210010
0:01:06.896364	LOG	PUSH_DATA: Protocol version = 02, Token = 0428, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 779188301, 'time': '2023-11-27T11:19:51.010342Z', 'tmms': 1385119210010, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3362, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAhwgCfqhB1iCO9kpPiVY='}]}
0:01:06.898364	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0887, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4a4f8956)
0:01:06.899364	LOG	Server <---------- DUT
0:01:06.901378	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 054a, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 8ed7a03e)
0:01:06.903396	LOG	Frame command sent to the DUT
0:01:06.904394	LOG	PULL_RESP: Protocol version = 02, Token = 3f19, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 781188301, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAASgXg2fZg4y47eDaTR7U/Ap81ruGVeJSEgkRoctDWfrnr40YpTk+tA1LTKE6HXoJ8CCEu4Ce+jtegPg==''}}
0:01:06.905400	LOG	Server ----------> DUT
0:01:06.908419	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:06.912362	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:11.786967	LOG	First uplink received. Open reception window.

0:01:11.893649	LOG	PUSH_ACK: 02 98d2 01
0:01:11.895616	LOG	GPS Time from gateway: 1385119215010
0:01:11.896618	LOG	PUSH_DATA: Protocol version = 02, Token = 98d2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 784188070, 'time': '2023-11-27T11:19:56.010110Z', 'tmms': 1385119215010, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3362, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAiAgC/y53L7DitzrqBIQ='}]}
0:01:11.898618	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0888, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3aea0484)
0:01:11.899617	LOG	Server <---------- DUT
0:01:11.901653	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 054b, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: b9198aae)
0:01:11.902651	LOG	Frame command sent to the DUT
0:01:11.904650	LOG	PULL_RESP: Protocol version = 02, Token = 328d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 786188070, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAASwXgak8d23MsfAHzRvhV9W6fqEUXDf0XNC2OGbSY3b+BTF5wFcukWS/oQFis5HAyMo17Om6uuRmKrg==''}}
0:01:11.905652	LOG	Server ----------> DUT
0:01:11.908617	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:11.912312	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:15.680812	LOG	GPS Time updated: 1385119218904
0:01:15.683319	LOG	PULL_DATA: 02 d4ff 02 0016c001ff1025bf
0:01:15.684319	LOG	PULL_ACK: 02 d4ff 04
0:01:16.788860	LOG	First uplink received. Open reception window.
0:01:16.893518	LOG	PUSH_ACK: 02 a942 01
0:01:16.895519	LOG	GPS Time from gateway: 1385119220010
0:01:16.896554	LOG	PUSH_DATA: Protocol version = 02, Token = a942, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 789187837, 'time': '2023-11-27T11:20:01.009874Z', 'tmms': 1385119220010, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3366, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAiQgCx3SvZs9IRgpyH9A='}]}
0:01:16.898521	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0889, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0a721fd0)
0:01:16.899521	LOG	Server <---------- DUT
0:01:16.901522	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 054c, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: ed8f710d)
0:01:16.902554	LOG	Frame command sent to the DUT
0:01:16.904562	LOG	PULL_RESP: Protocol version = 02, Token = 05fd, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 791187837, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAATAXgsyEFm/xQsxu6l/QoMMMYnEXezLCSvxRLD4a6wOHNh38UpX1/Bjz/WCCgqCjgsLgaWMfJ7Y9xDQ==''}}
0:01:16.905553	LOG	Server ----------> DUT
0:01:16.908521	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:16.911552	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:21.782935	LOG	#**********CURRENT BEACON SENT**********#
0:01:21.784933	LOG	PULL_RESP: Protocol version = 02, Token = 0a18, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385119232000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr':

		'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAPo9Sta8AAAAAAAAAAA='}}
0:01:21.785933	LOG	Server ----------> DUT
0:01:21.787900	LOG	#**********# ******#
0:01:21.797477	LOG	#**********NEXT BEACON QUEUED**********#
0:01:21.798478	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385119360000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAPo9SjXIAAAAAAAAAAA='}}
0:01:21.799481	LOG	Server ----------> DUT
0:01:21.801479	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 803e8f52, CRC1: 8d72, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385119360000
0:01:21.802480	LOG	#**********# ******#
0:01:21.804449	LOG	Next BEACON scheduled at GPS time (ms): 1385119488000
0:01:21.805478	LOG	First uplink received. Open reception window.
0:01:21.806480	LOG	TX_ACK: 02 0a18 05 0016c001ff1025bf
0:01:21.906726	LOG	PUSH_ACK: 02 8851 01
0:01:21.908728	LOG	GPS Time from gateway: 1385119225010
0:01:21.909728	LOG	PUSH_DATA: Protocol version = 02, Token = 8851, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 794187623, 'time': '2023-11-27T11:20:06.009662Z', 'tmms': 1385119225010, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3362, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAiggCivrRlcih2xcGvM4='}]}
0:01:21.910728	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 088a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1706bcce)
0:01:21.912729	LOG	Server <---------- DUT
0:01:21.913728	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 054d, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 7b4ce742)
0:01:21.915728	LOG	Frame command sent to the DUT
0:01:21.917729	LOG	PULL_RESP: Protocol version = 02, Token = f8db, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 796187623, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAATQXg1Nqqnq/t5zf+e6DdqhBwSE8Dlv9msRQfWaHZtUgD2QBT4koKmR7E6EHSyFA3NeHeWyDre0znQg==''}}
0:01:21.918727	LOG	Server ----------> DUT
0:01:21.921729	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:21.924728	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:25.702239	LOG	GPS Time updated: 1385119228905
0:01:25.703239	LOG	PULL_DATA: 02 7098 02 0016c001ff1025bf
0:01:25.705208	LOG	PULL_ACK: 02 7098 04
0:01:26.784268	LOG	First uplink received. Open reception window.
0:01:26.890699	LOG	PUSH_ACK: 02 b2c4 01
0:01:26.892701	LOG	GPS Time from gateway: 1385119230009
0:01:26.893701	LOG	PUSH_DATA: Protocol version = 02, Token = b2c4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 799187349, 'time': '2023-11-27T11:20:11.009387Z', 'tmms': 1385119230009, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3362, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAiwgCfJ+z/nzKFQLgNq0='}]}
0:01:26.895205	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 088b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 02e036ad)

0:01:26.896210	LOG	Server <---------- DUT
0:01:26.898211	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 054e, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: b19c23b4)
0:01:26.900223	LOG	Frame command sent to the DUT
0:01:26.901211	LOG	PULL_RESP: Protocol version = 02, Token = cbff, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 801187349, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAATgXgQtyDjMqTw3ov4rvLQvX2LLRTWAWeM1eQ0OtDRXYD2y+CWoZydQE/FYPelKFrU1Whv7knsZwjtA==''}}
0:01:26.903211	LOG	Server ----------> DUT
0:01:26.905210	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:26.909153	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:31.783643	LOG	First uplink received. Open reception window.
0:01:31.888416	LOG	PUSH_ACK: 02 457e 01
0:01:31.890418	LOG	GPS Time from gateway: 1385119235009
0:01:31.891417	LOG	PUSH_DATA: Protocol version = 02, Token = 457e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 804187127, 'time': '2023-11-27T11:20:16.009163Z', 'tmms': 1385119235009, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3346, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAjAgC34D01Z/DaNpjP50='}]}
0:01:31.892418	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 088c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: da633f9d)
0:01:31.894417	LOG	Server <---------- DUT
0:01:31.896417	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 054f, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: ea71f2d4)
0:01:31.897418	LOG	Frame command sent to the DUT
0:01:31.898923	LOG	PULL_RESP: Protocol version = 02, Token = 5925, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 806187127, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAATwXg3b5uuIRGqu2rqjMUkU4DtE7JxNc2a3nsMo7p/tIUcVx2qyPxAAeATIcDB/7xLY21d1x86nHy1A==''}}
0:01:31.900927	LOG	Server ----------> DUT
0:01:31.902929	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:31.906927	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:35.891173	LOG	GPS Time updated: 1385119239117
0:01:35.893142	LOG	PULL_DATA: 02 9cf7 02 0016c001ff1025bf
0:01:35.894142	LOG	PULL_ACK: 02 9cf7 04
0:01:36.790899	LOG	First uplink received. Open reception window.
0:01:36.903888	LOG	PUSH_ACK: 02 a55e 01
0:01:36.905463	LOG	GPS Time from gateway: 1385119240009
0:01:36.907464	LOG	PUSH_DATA: Protocol version = 02, Token = a55e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 809186891, 'time': '2023-11-27T11:20:21.008928Z', 'tmms': 1385119240009, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3362, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAjQgCk2+VRowAmuMnuBo='}]}
0:01:36.908449	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 088d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e327b81a)
0:01:36.909467	LOG	Server <---------- DUT
0:01:36.911464	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0550, FOpts:), FPort: e0, FRMPayload:

		07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 2fc3ef8e)
0:01:36.913468	LOG	Frame command sent to the DUT
0:01:36.914467	LOG	PULL_RESP: Protocol version = 02, Token = 9eb4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 811186891, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAAUAXgg8TntKkhUEkPg2GnByIPnXoOsJCOow04ATsBAGMXov+sUoSpJeRAchRCpazO9MhHVQYRL8Pvjg==\'}}
0:01:36.916469	LOG	Server ----------> DUT
0:01:36.919433	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:36.922467	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:41.785650	LOG	First uplink received. Open reception window.
0:01:41.887239	LOG	PUSH_ACK: 02 1699 01
0:01:41.889222	LOG	GPS Time from gateway: 1385119245009
0:01:41.890206	LOG	PUSH_DATA: Protocol version = 02, Token = 1699, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 814186632, 'time': '2023-11-27T11:20:26.008667Z', 'tmms': 1385119245009, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3362, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAjggCYdTvgyDKe/CRh3Q=\'}]}
0:01:41.891206	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 088e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f0918774)
0:01:41.893207	LOG	Server <---------- DUT
0:01:41.895212	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0551, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 938b18e1)
0:01:41.896213	LOG	Frame command sent to the DUT
0:01:41.898245	LOG	PULL_RESP: Protocol version = 02, Token = e22d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 816186632, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAAUQXg+iDkDYB/AUZcpk7jkRKDcgCQgepbYAZliJwd4ZO0AtMtB7dOKTOK1dZz1R4acaORAi7Mk4sY4Q==\'}}
0:01:41.899250	LOG	Server ----------> DUT
0:01:41.902224	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:41.905485	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:46.101448	LOG	GPS Time updated: 1385119249325
0:01:46.103416	LOG	PULL_DATA: 02 927a 02 0016c001ff1025bf
0:01:46.104416	LOG	PULL_ACK: 02 927a 04
0:01:46.786680	LOG	First uplink received. Open reception window.
0:01:46.889265	LOG	PUSH_ACK: 02 5a55 01
0:01:46.891299	LOG	GPS Time from gateway: 1385119250008
0:01:46.892297	LOG	PUSH_DATA: Protocol version = 02, Token = 5a55, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 819186379, 'time': '2023-11-27T11:20:31.008413Z', 'tmms': 1385119250008, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3362, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAjwgCag0cl8LJ2u51QgY=\'}]}
0:01:46.894297	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 088f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ee754206)
0:01:46.895297	LOG	Server <---------- DUT
0:01:46.897297	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0552, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 15189015)
0:01:46.898296	LOG	Frame command sent to the DUT

0:01:46.900296	LOG	PULL_RESP: Protocol version = 02, Token = 9937, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 821186379, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAUgXguEk8QZ11A1Lq0N8ig5uUiXhCQMZQMExHiEMwK/sgNRaxW4pf1cdI7b2Rs6Q1oN/rjwQ4FRiQFQ=='}}
0:01:46.901333	LOG	Server ----------> DUT
0:01:46.904300	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:46.907332	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:51.784218	LOG	First uplink received. Open reception window.
0:01:51.900317	LOG	PUSH_ACK: 02 1055 01
0:01:51.902320	LOG	GPS Time from gateway: 1385119255008
0:01:51.903320	LOG	PUSH_DATA: Protocol version = 02, Token = 1055, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 824186149, 'time': '2023-11-27T11:20:36.008181Z', 'tmms': 1385119255008, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3362, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAkAgCQtqI+K4S9DU7Ak0='}]}
0:01:51.904320	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0890, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 353b024d)
0:01:51.906357	LOG	Server <---------- DUT
0:01:51.908360	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0553, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 8db04fe8)
0:01:51.909325	LOG	Frame command sent to the DUT
0:01:51.911350	LOG	PULL_RESP: Protocol version = 02, Token = ff45, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 826186149, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAUwXgztNTMDUKG0NoCBVxNUv3eoAyhnPQ47uZMlyvHTliconmnRFG07BY4yyK+oSARfqsRUB5jbBP6A=='}}
0:01:51.912363	LOG	Server ----------> DUT
0:01:51.915325	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:51.918324	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:56.111844	LOG	GPS Time updated: 1385119259334
0:01:56.112844	LOG	PULL_DATA: 02 7dec 02 0016c001ff1025bf
0:01:56.113844	LOG	PULL_ACK: 02 7dec 04
0:01:56.784206	LOG	First uplink received. Open reception window.
0:01:56.886267	LOG	PUSH_ACK: 02 e652 01
0:01:56.888266	LOG	GPS Time from gateway: 1385119260008
0:01:56.889268	LOG	PUSH_DATA: Protocol version = 02, Token = e652, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 829185924, 'time': '2023-11-27T11:20:41.007957Z', 'tmms': 1385119260008, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3369, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAkQgCt4QWiKq6sWIYSzs='}]}
0:01:56.891233	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0891, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 62184b3b)
0:01:56.892266	LOG	Server <---------- DUT
0:01:56.894235	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0554, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: dee094ab)
0:01:56.895266	LOG	Frame command sent to the DUT
0:01:56.897268	LOG	PULL_RESP: Protocol version = 02, Token = c590, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 831185924, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data':

		'YAAAAAAAVAXgemNkEEtPwiOMNItAwqzLIXE4b3mx/vX8Yk0eT7lzkub4qynrMPTkhMVjiIvxQNRtH5zK3uCUqw==''}}
0:01:56.898234	LOG	Server ----------> DUT
0:01:56.901233	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:56.904781	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:01.782896	LOG	First uplink received. Open reception window.
0:02:01.883545	LOG	PUSH_ACK: 02 eb90 01
0:02:01.885579	LOG	GPS Time from gateway: 1385119265008
0:02:01.886578	LOG	PUSH_DATA: Protocol version = 02, Token = eb90, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 834185701, 'time': '2023-11-27T11:20:46.007733Z', 'tmms': 1385119265008, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3362, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAkggCKZx1E7KXz+zVbkU='}]}
0:02:01.888590	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0892, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ecd56e45)
0:02:01.889578	LOG	Server <---------- DUT
0:02:01.891548	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0555, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 3697e004)
0:02:01.892579	LOG	Frame command sent to the DUT
0:02:01.894579	LOG	PULL_RESP: Protocol version = 02, Token = 8f4c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 836185701, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAVQXg2g2WAZtOURXUgZCwglDyKTASwyMrjYZcho8qdk8ddpbEuVVu9BCwqE2xZTrLxhAD+G2WNpfgBA==''}}
0:02:01.895580	LOG	Server ----------> DUT
0:02:01.898580	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:01.902599	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:06.300819	LOG	GPS Time updated: 1385119269526
0:02:06.302787	LOG	PULL_DATA: 02 9473 02 0016c001ff1025bf
0:02:06.303819	LOG	PULL_ACK: 02 9473 04
0:02:06.783350	LOG	First uplink received. Open reception window.
0:02:06.898979	LOG	PUSH_ACK: 02 e105 01
0:02:06.900945	LOG	GPS Time from gateway: 1385119270007
0:02:06.901946	LOG	PUSH_DATA: Protocol version = 02, Token = e105, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 839185439, 'time': '2023-11-27T11:20:51.007471Z', 'tmms': 1385119270007, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3366, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAkwgC2jdCwni89ReZVbU='}]}
0:02:06.902946	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0893, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 179955b5)
0:02:06.904980	LOG	Server <---------- DUT
0:02:06.906978	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0556, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: e506f1d0)
0:02:06.908948	LOG	Frame command sent to the DUT
0:02:06.909979	LOG	PULL_RESP: Protocol version = 02, Token = 3d07, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 841185439, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAVgXg11OmST7d18Nn9p/Xb1emQzKMLQV4j2xR4tbnAt2TJaNyRQONImXu4XvT726hgrgLk8TT5Qbx0A==''}}
0:02:06.910979	LOG	Server ----------> DUT
0:02:06.913982	LOG	Send Test Command TxFramesCtrlReq process completed

0:02:06.917948	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:13.496744	LOG	First uplink received. Open reception window.
0:02:13.604043	LOG	PUSH_ACK: 02 1852 01
0:02:13.606025	LOG	GPS Time from gateway: 1385119276720
0:02:13.607044	LOG	PUSH_DATA: Protocol version = 02, Token = 1852, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 845898429, 'time': '2023-11-27T11:20:57.720460Z', 'tmms': 1385119276720, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3343, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAlAgCaeS8092RKwlvWjw='}]}
0:02:13.609014	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0894, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 096f5a3c)
0:02:13.610045	LOG	Server <---------- DUT
0:02:13.612013	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0557, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 2efbd5ed)
0:02:13.613044	LOG	Frame command sent to the DUT
0:02:13.615045	LOG	PULL_RESP: Protocol version = 02, Token = af33, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 847898429, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAVwXgBEkIDyIy368DTLHps/ilnHNwSivXHX/dw77sawkbD5Dw5y5UtDBXBDKVuL9/FzGHO7zXLvvV7Q=='}}
0:02:13.616047	LOG	Server ----------> DUT
0:02:13.619538	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:13.622673	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:16.341703	LOG	GPS Time updated: 1385119279565
0:02:16.342702	LOG	PULL_DATA: 02 9eca 02 0016c001ff1025bf
0:02:16.344703	LOG	PULL_ACK: 02 9eca 04
0:02:23.277341	LOG	First uplink received. Open reception window.
0:02:23.391990	LOG	PUSH_ACK: 02 16e3 01
0:02:23.393996	LOG	GPS Time from gateway: 1385119286503
0:02:23.394992	LOG	PUSH_DATA: Protocol version = 02, Token = 16e3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 855680673, 'time': '2023-11-27T11:21:07.502703Z', 'tmms': 1385119286503, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3355, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAlQgC2RM2TN5xHmP7hsM='}]}
0:02:23.396956	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0895, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 63fb86c3)
0:02:23.397954	LOG	Server <---------- DUT
0:02:23.399957	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0558, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 9e999473)
0:02:23.400955	LOG	Frame command sent to the DUT
0:02:23.402955	LOG	PULL_RESP: Protocol version = 02, Token = 9cc3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 857680673, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAWAXgmLfrE+GnwKvez9OmaJH8747mXEZZOoYRBpCGRWLsGmeb2f7DGy5w1AS9fd5eNtV3AlpwnpmUcw=='}}
0:02:23.403956	LOG	Server ----------> DUT
0:02:23.406970	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:23.409987	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:26.550944	LOG	GPS Time updated: 1385119289777
0:02:26.552912	LOG	PULL_DATA: 02 daed 02 0016c001ff1025bf

0:02:26.553911	LOG	PULL_ACK: 02 daed 04
0:02:28.276715	LOG	First uplink received. Open reception window.
0:02:28.377219	LOG	PUSH_ACK: 02 10f0 01
0:02:28.379242	LOG	GPS Time from gateway: 1385119291502
0:02:28.380254	LOG	PUSH_DATA: Protocol version = 02, Token = 10f0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 860680447, 'time': '2023-11-27T11:21:12.502476Z', 'tmms': 1385119291502, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAlggCDxFUv+hvMYPX7/Q='}]}
0:02:28.382223	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0896, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 83d7eff4)
0:02:28.383262	LOG	Server <---------- DUT
0:02:28.385223	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0559, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 6785726f)
0:02:28.387222	LOG	Frame command sent to the DUT
0:02:28.388255	LOG	PULL_RESP: Protocol version = 02, Token = 2648, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 862680447, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAWQXgUimpSSDuA+xtPmGZyp8UTUDMOvGBW9d6XSOmRaNrlsvcVGJl/NAvK6//dd9OyQw+zgagZ4Vybw==''}}
0:02:28.389254	LOG	Server ----------> DUT
0:02:28.392253	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:28.395945	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:33.280415	LOG	First uplink received. Open reception window.
0:02:33.392923	LOG	PUSH_ACK: 02 86a2 01
0:02:33.394891	LOG	GPS Time from gateway: 1385119296502
0:02:33.395889	LOG	PUSH_DATA: Protocol version = 02, Token = 86a2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 865680213, 'time': '2023-11-27T11:21:17.502240Z', 'tmms': 1385119296502, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAlwgCFaBkdZdqv1rXGJ8='}]}
0:02:33.397889	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0897, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5ad7189f)
0:02:33.398889	LOG	Server <---------- DUT
0:02:33.400939	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 055a, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: f84a5934)
0:02:33.402889	LOG	Frame command sent to the DUT
0:02:33.403889	LOG	PULL_RESP: Protocol version = 02, Token = a8f1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 867680213, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAWgXgQQccKP3vperpO92x8b2O7F5Q0m8oNtaZIDvHLflfux3wjt+HhYIShhctHRtfAz/2whCK+EpZNA==''}}
0:02:33.405893	LOG	Server ----------> DUT
0:02:33.408891	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:33.412701	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:36.760974	LOG	GPS Time updated: 1385119299982
0:02:36.762985	LOG	PULL_DATA: 02 6ae1 02 0016c001ff1025bf
0:02:36.763972	LOG	PULL_ACK: 02 6ae1 04
0:02:38.280308	LOG	First uplink received. Open reception window.
0:02:38.391921	LOG	PUSH_ACK: 02 f77a 01

0:02:38.393925	LOG	GPS Time from gateway: 1385119301502
0:02:38.394923	LOG	PUSH_DATA: Protocol version = 02, Token = f77a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 870679986, 'time': '2023-11-27T11:21:22.502013Z', 'tmms': 1385119301502, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3369, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAmAgC4hrlrV0z26+yBys='}]}
0:02:38.395922	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0898, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: afb2072b)
0:02:38.397921	LOG	Server <---------- DUT
0:02:38.399891	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 055b, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: cde1865b)
0:02:38.401891	LOG	Frame command sent to the DUT
0:02:38.402922	LOG	PULL_RESP: Protocol version = 02, Token = 1153, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 872679986, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAWwXgSrmOPQou3Iim3Moq5XfcINEkOt+BAimdofavX3P8MWa1e0uoVdlY8/qQ9rWb0nqVUUASzeGGWw==''}}
0:02:38.403925	LOG	Server ----------> DUT
0:02:38.406921	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:38.410637	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:43.278170	LOG	First uplink received. Open reception window.
0:02:43.390779	LOG	PUSH_ACK: 02 364b 01
0:02:43.392780	LOG	GPS Time from gateway: 1385119306502
0:02:43.393780	LOG	PUSH_DATA: Protocol version = 02, Token = 364b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 875679761, 'time': '2023-11-27T11:21:27.501788Z', 'tmms': 1385119306502, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAmQgCWIZIv+14to5DzS8='}]}
0:02:43.394780	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0899, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8e43cd2f)
0:02:43.396747	LOG	Server <---------- DUT
0:02:43.398749	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 055c, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: a1c26b07)
0:02:43.399748	LOG	Frame command sent to the DUT
0:02:43.401746	LOG	PULL_RESP: Protocol version = 02, Token = 579f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 877679761, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAXAXgX/ARE3De986CmzMobGGk6J6sxc3+P37Pt5Uln7iVQObcfZBZPNabIplckgPXcIFFaEY7ocJrBw==''}}
0:02:43.402748	LOG	Server ----------> DUT
0:02:43.405747	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:43.409747	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:46.971293	LOG	GPS Time updated: 1385119310196
0:02:46.973262	LOG	PULL_DATA: 02 8eb4 02 0016c001ff1025bf
0:02:46.974801	LOG	PULL_ACK: 02 8eb4 04
0:02:48.279730	LOG	First uplink received. Open reception window.
0:02:48.390374	LOG	PUSH_ACK: 02 3774 01
0:02:48.392379	LOG	GPS Time from gateway: 1385119311501
0:02:48.393375	LOG	PUSH_DATA: Protocol version = 02, Token = 3774, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 880679500, 'time': '2023-11-27T11:21:32.501525Z', 'tmms': 1385119311501, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3366, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAmggCwX0Xn+s46bcFphc='}]}
0:02:48.395343	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 089a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b705a617)
0:02:48.396381	LOG	Server <---------- DUT
0:02:48.398345	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 055d, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 10de2360)
0:02:48.400343	LOG	Frame command sent to the DUT
0:02:48.401374	LOG	PULL_RESP: Protocol version = 02, Token = edf1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 882679500, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAXQXgVaNNHeZdEqLFFQ5RAYybXD4UsjrsYp8b432yTaOzulo8hKWcscDyrDduz4Koh6/LRywVEN4jYA=='}}
0:02:48.402374	LOG	Server ----------> DUT
0:02:48.405342	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:48.408379	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:53.283937	LOG	First uplink received. Open reception window.
0:02:53.390445	LOG	PUSH_ACK: 02 0623 01
0:02:53.392447	LOG	GPS Time from gateway: 1385119316501
0:02:53.393447	LOG	PUSH_DATA: Protocol version = 02, Token = 0623, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 885679273, 'time': '2023-11-27T11:21:37.501299Z', 'tmms': 1385119316501, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAmwgCwu17ZNEyWy1WJgg='}]}
0:02:53.395447	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 089b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2d562608)
0:02:53.396447	LOG	Server <---------- DUT
0:02:53.398447	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 055e, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: fc85e4a6)
0:02:53.399448	LOG	Frame command sent to the DUT
0:02:53.401446	LOG	PULL_RESP: Protocol version = 02, Token = d50e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 887679273, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAXgXgpUttd+zxIYJDWx7KrNhEyx6xUm9b6wUYgt2EfXLEtKs0Mcdr3Qyx/0tLgASedMSdLTZ4/IXkpg=='}}
0:02:53.402446	LOG	Server ----------> DUT
0:02:53.405446	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:53.408826	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:56.971184	LOG	GPS Time updated: 1385119320189
0:02:56.972184	LOG	PULL_DATA: 02 96e6 02 0016c001ff1025bf
0:02:56.974185	LOG	PULL_ACK: 02 96e6 04
0:02:58.274952	LOG	First uplink received. Open reception window.
0:02:58.389140	LOG	PUSH_ACK: 02 a0ae 01
0:02:58.391108	LOG	GPS Time from gateway: 1385119321501
0:02:58.392107	LOG	PUSH_DATA: Protocol version = 02, Token = a0ae, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 890679049, 'time': '2023-11-27T11:21:42.501074Z', 'tmms': 1385119321501, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAnAgCRZMv5cj/eM8Hhqg='}]}
0:02:58.393108	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 089c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: cf0786a8)

0:02:58.395109	LOG	Server <---------- DUT
0:02:58.397125	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 055f, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 0ecd0cc0)
0:02:58.398108	LOG	Frame command sent to the DUT
0:02:58.400108	LOG	PULL_RESP: Protocol version = 02, Token = 76ba, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 892679049, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAXwXgcLH4Vye7oDjeBU8uGVBeGmIYrKM4UfpHuBePCtEXygY+n6ohITjLFdvvSmZJcB3fmLF/Ds0MwA==''}}
0:02:58.401107	LOG	Server ----------> DUT
0:02:58.404109	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:58.407145	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:03.280054	LOG	First uplink received. Open reception window.
0:03:03.386633	LOG	PUSH_ACK: 02 383e 01
0:03:03.388633	LOG	GPS Time from gateway: 1385119326501
0:03:03.389631	LOG	PUSH_DATA: Protocol version = 02, Token = 383e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 895678787, 'time': '2023-11-27T11:21:47.500810Z', 'tmms': 1385119326501, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3369, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAnQgCx/RYempF3IOvPMg='}]}
0:03:03.390631	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 089d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 83af3cc8)
0:03:03.392170	LOG	Server <---------- DUT
0:03:03.394188	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0560, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: bc7fb144)
0:03:03.396230	LOG	Frame command sent to the DUT
0:03:03.397177	LOG	PULL_RESP: Protocol version = 02, Token = 90dc, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 897678787, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAYAXgSwJH7rUCaM2QqAhaUrX2eFWy9CeCcG/cB5Xf/SPiSHvOwND/kglx+ik1GZwO5rCUtoukvH+xRA==''}}
0:03:03.399177	LOG	Server ----------> DUT
0:03:03.401209	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:03.405209	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:07.180857	LOG	GPS Time updated: 1385119330402
0:03:07.182871	LOG	PULL_DATA: 02 794e 02 0016c001ff1025bf
0:03:07.183862	LOG	PULL_ACK: 02 794e 04
0:03:08.279660	LOG	First uplink received. Open reception window.
0:03:08.389239	LOG	PUSH_ACK: 02 21c1 01
0:03:08.391242	LOG	GPS Time from gateway: 1385119331500
0:03:08.392239	LOG	PUSH_DATA: Protocol version = 02, Token = 21c1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 900678518, 'time': '2023-11-27T11:21:52.500542Z', 'tmms': 1385119331500, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAnggCBvnWikagAPMh1vw='}]}
0:03:08.393240	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 089e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f321d6fc)
0:03:08.395249	LOG	Server <---------- DUT
0:03:08.397210	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0561, FOpts:), FPort: e0, FRMPayload:

		07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 1275a748)
0:03:08.398792	LOG	Frame command sent to the DUT
0:03:08.399790	LOG	PULL_RESP: Protocol version = 02, Token = 716d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 902678518, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAYQXgdt4O7Zz9P8BYFl0LS+I06X/7EFMZ4Cw5AhBpsqMflvAvkc9BtKCSL3BE42Wbjun9+5icEnWnSA==''}}
0:03:08.400789	LOG	Server ----------> DUT
0:03:08.403791	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:08.407616	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:13.272302	LOG	First uplink received. Open reception window.
0:03:13.388846	LOG	PUSH_ACK: 02 00fb 01
0:03:13.390848	LOG	GPS Time from gateway: 1385119336500
0:03:13.391848	LOG	PUSH_DATA: Protocol version = 02, Token = 00fb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 905678295, 'time': '2023-11-27T11:21:57.500318Z', 'tmms': 1385119336500, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3369, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAnwgCoNQM18Xz/m8V83c='}]}
0:03:13.392848	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 089f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6f15f377)
0:03:13.394848	LOG	Server <---------- DUT
0:03:13.396850	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0562, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c7e7e1fa)
0:03:13.397880	LOG	Frame command sent to the DUT
0:03:13.399850	LOG	PULL_RESP: Protocol version = 02, Token = 4593, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 907678295, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAYgXgJePvOoJShVV+hG2Bxwh8EEcycfgGdmeVfHateT2EqkLS/xfpp2WZfUrlhFMMk+SU/Cqyx+fh+g==''}}
0:03:13.400881	LOG	Server ----------> DUT
0:03:13.403440	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:13.407425	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:17.391030	LOG	GPS Time updated: 1385119340619
0:03:17.392068	LOG	PULL_DATA: 02 af10 02 0016c001ff1025bf
0:03:17.394070	LOG	PULL_ACK: 02 af10 04
0:03:18.275407	LOG	First uplink received. Open reception window.
0:03:18.389054	LOG	PUSH_ACK: 02 eb35 01
0:03:18.391023	LOG	GPS Time from gateway: 1385119341500
0:03:18.392019	LOG	PUSH_DATA: Protocol version = 02, Token = eb35, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 910678072, 'time': '2023-11-27T11:22:02.500094Z', 'tmms': 1385119341500, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAoAgCccxeVhqe1exHGtc='}]}
0:03:18.394033	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08a0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ec471ad7)
0:03:18.395057	LOG	Server <---------- DUT
0:03:18.397024	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0563, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: f6a7284e)
0:03:18.398024	LOG	Frame command sent to the DUT

0:03:18.400024	LOG	PULL_RESP: Protocol version = 02, Token = 0ea8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 912678072, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAYwXggSqYvk4/B0F0itZD+gEvjLtIvjV7TsJnwPybitlpePxdQzHxGqm9tS74hM48dzrOZt8x9qcoTg==''}}
0:03:18.401023	LOG	Server ----------> DUT
0:03:18.404025	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:18.408547	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:23.274296	LOG	First uplink received. Open reception window.
0:03:23.375906	LOG	PUSH_ACK: 02 b255 01
0:03:23.377906	LOG	GPS Time from gateway: 1385119346500
0:03:23.378906	LOG	PUSH_DATA: Protocol version = 02, Token = b255, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 915677802, 'time': '2023-11-27T11:22:07.499824Z', 'tmms': 1385119346500, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAoQgCNwgfy3VadPIhQWI='}]}
0:03:23.379906	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08a1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f2214162)
0:03:23.381873	LOG	Server <---------- DUT
0:03:23.383873	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0564, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: ef35ae64)
0:03:23.384874	LOG	Frame command sent to the DUT
0:03:23.386872	LOG	PULL_RESP: Protocol version = 02, Token = b676, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 917677802, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAZAXgFVbXksWTjDIci/sxF51QZqs5ksMGhuOO9jZm+/fKt+VC6qX5aTQ57/rDpQdVbHxYKL6M7zWuZA==''}}
0:03:23.387873	LOG	Server ----------> DUT
0:03:23.390891	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:23.393905	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:27.589906	LOG	#**********CURRENT BEACON SENT**********#
0:03:27.591907	LOG	PULL_RESP: Protocol version = 02, Token = c06e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385119360000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAPo9SjXIAAAAAAAAAAA=''}}
0:03:27.592908	LOG	Server ----------> DUT
0:03:27.594907	LOG	#**********#
0:03:27.603912	LOG	#**********NEXT BEACON QUEUED**********#
0:03:27.605913	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385119488000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAP49ShZgAAAAAAAAAAA=''}}
0:03:27.606912	LOG	Server ----------> DUT
0:03:27.607912	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 003f8f52, CRC1: 8598, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385119488000
0:03:27.609913	LOG	#**********#
0:03:27.610912	LOG	Next BEACON scheduled at GPS time (ms): 1385119616000
0:03:27.611913	LOG	GPS Time updated: 1385119350837

0:03:27.612912	LOG	PULL_DATA: 02 cf4d 02 0016c001ff1025bf
0:03:27.614913	LOG	PULL_ACK: 02 cf4d 04
0:03:27.616416	LOG	TX_ACK: 02 c06e 05 0016c001ff1025bf
0:03:28.273731	LOG	First uplink received. Open reception window.
0:03:28.378311	LOG	PUSH_ACK: 02 f55d 01
0:03:28.380313	LOG	GPS Time from gateway: 1385119351499
0:03:28.382346	LOG	PUSH_DATA: Protocol version = 02, Token = f55d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 920677576, 'time': '2023-11-27T11:22:12.499597Z', 'tmms': 1385119351499, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAoggCts4wR5iKYU+DN3k='}]}
0:03:28.384313	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08a2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4f833779)
0:03:28.385315	LOG	Server <---------- DUT
0:03:28.388314	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0565, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 29d89743)
0:03:28.389312	LOG	Frame command sent to the DUT
0:03:28.391312	LOG	PULL_RESP: Protocol version = 02, Token = 2340, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 922677576, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAZQXg/Heybj4NxUMkcp1wqGVQUWXZ/LZOtayzduMXAhbSdhEr6Lz9+M/HiBNBz46diugUdCPUKdiXQw==''}}
0:03:28.392312	LOG	Server ----------> DUT
0:03:28.396314	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:28.399312	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:33.279047	LOG	First uplink received. Open reception window.
0:03:33.393661	LOG	PUSH_ACK: 02 012c 01
0:03:33.395625	LOG	GPS Time from gateway: 1385119356499
0:03:33.396626	LOG	PUSH_DATA: Protocol version = 02, Token = 012c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 925677351, 'time': '2023-11-27T11:22:17.499371Z', 'tmms': 1385119356499, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAowgCsvlNHs3fCE6hMBs='}]}
0:03:33.398627	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08a3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4ea1301b)
0:03:33.399626	LOG	Server <---------- DUT
0:03:33.401625	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0566, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 5f392194)
0:03:33.403629	LOG	Frame command sent to the DUT
0:03:33.404659	LOG	PULL_RESP: Protocol version = 02, Token = 1043, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 927677351, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAZgXg54BmkVZNFsP9WIo/Kaw5FDnA0h+4RM479g+osuDKkmChIv2TQNNiIgdF1+Z79Gc3Kpl7XzkhlA==''}}
0:03:33.405659	LOG	Server ----------> DUT
0:03:33.408665	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:33.411697	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:37.600644	LOG	GPS Time updated: 1385119360820
0:03:37.602645	LOG	PULL_DATA: 02 d107 02 0016c001ff1025bf
0:03:37.603646	LOG	PULL_ACK: 02 d107 04

0:03:38.275629	LOG	First uplink received. Open reception window.
0:03:38.378277	LOG	PUSH_ACK: 02 4fd6 01
0:03:38.380276	LOG	GPS Time from gateway: 1385119361499
0:03:38.381277	LOG	PUSH_DATA: Protocol version = 02, Token = 4fd6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 930677112, 'time': '2023-11-27T11:22:22.499132Z', 'tmms': 1385119361499, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3354, 'rssi': -51, 'size': 20, 'data': 'QAAAAACApAgCHDShFxtKm7e99KA='}]}
0:03:38.382276	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08a4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b7bdf4a0)
0:03:38.384281	LOG	Server <---------- DUT
0:03:38.386245	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0567, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 2510761a)
0:03:38.388249	LOG	Frame command sent to the DUT
0:03:38.389244	LOG	PULL_RESP: Protocol version = 02, Token = 6d1f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 932677112, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAZwXgInxonfzxUhBIm0MhU/g1dHVuCaliHOGzYCIfM6RmcUMlvAsDw74dLZjMAuEGhcdcsr5eJRB2Gg==''}}
0:03:38.391244	LOG	Server ----------> DUT
0:03:38.393277	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:38.397261	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:44.985152	LOG	First uplink received. Open reception window.
0:03:45.099690	LOG	PUSH_ACK: 02 a1e6 01
0:03:45.101658	LOG	GPS Time from gateway: 1385119368212
0:03:45.102658	LOG	PUSH_DATA: Protocol version = 02, Token = a1e6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 937390351, 'time': '2023-11-27T11:22:29.212370Z', 'tmms': 1385119368212, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3362, 'rssi': -51, 'size': 20, 'data': 'QAAAAACApQgCjHv0HwHGfGNJjZg='}]}
0:03:45.103658	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08a5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 63498d98)
0:03:45.105691	LOG	Server <---------- DUT
0:03:45.107675	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0568, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 2e405311)
0:03:45.109658	LOG	Frame command sent to the DUT
0:03:45.110658	LOG	PULL_RESP: Protocol version = 02, Token = edb1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 939390351, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAaAXg66fGe6MCK4Kes6hxEBlnoSnkGHFJSmA3ceF6oANyxdBDfqW8nlfu4O1mbjWAcybBv6f3LkBTEQ==''}}
0:03:45.112657	LOG	Server ----------> DUT
0:03:45.115301	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:45.119311	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:47.630284	LOG	GPS Time updated: 1385119370857
0:03:47.631285	LOG	PULL_DATA: 02 bc41 02 0016c001ff1025bf
0:03:47.633286	LOG	PULL_ACK: 02 bc41 04
0:03:54.772420	LOG	First uplink received. Open reception window.
0:03:54.887842	LOG	PUSH_ACK: 02 94f4 01
0:03:54.889419	LOG	GPS Time from gateway: 1385119377991

0:03:54.891385	LOG	PUSH_DATA: Protocol version = 02, Token = 94f4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 947169433, 'time': '2023-11-27T11:22:38.991449Z', 'tmms': 1385119377991, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3354, 'rssi': -51, 'size': 20, 'data': 'QAAAAACApggCsh8gCzO2cHEqBds='}]}
0:03:54.892385	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08a6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 712a05db)
0:03:54.893387	LOG	Server <---------- DUT
0:03:54.895399	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0569, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: a9267b71)
0:03:54.897386	LOG	Frame command sent to the DUT
0:03:54.899388	LOG	PULL_RESP: Protocol version = 02, Token = 7e2c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 949169433, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAaQXgaKGWej4PwGi5D5NEiI8lBafAn1Rwi10AslXwgB7c5dWqmQtgpRtSMnlIEH2HZYN8wDhdqSZ7cQ=='}}
0:03:54.900419	LOG	Server ----------> DUT
0:03:54.903412	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:54.906961	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:57.840006	LOG	GPS Time updated: 1385119381059
0:03:57.841974	LOG	PULL_DATA: 02 42a0 02 0016c001ff1025bf
0:03:57.842974	LOG	PULL_ACK: 02 42a0 04
0:03:59.770094	LOG	First uplink received. Open reception window.
0:03:59.885735	LOG	PUSH_ACK: 02 cf42 01
0:03:59.887703	LOG	GPS Time from gateway: 1385119382991
0:03:59.888701	LOG	PUSH_DATA: Protocol version = 02, Token = cf42, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 952169173, 'time': '2023-11-27T11:22:43.991190Z', 'tmms': 1385119382991, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACApwgC7Kqbfg8VZ3WZcsI='}]}
0:03:59.889702	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08a7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 759972c2)
0:03:59.891702	LOG	Server <---------- DUT
0:03:59.893702	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 056a, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 92da77ef)
0:03:59.894701	LOG	Frame command sent to the DUT
0:03:59.896702	LOG	PULL_RESP: Protocol version = 02, Token = a0ce, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 954169173, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAagXge55xOKXTGJbBbwRtK1MM5vfhXE4Xumcux3qHwSndB2OHU0PcJ8Ca5YoGkIdM5xrFAImxktp37w=='}}
0:03:59.897702	LOG	Server ----------> DUT
0:03:59.900818	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:59.904468	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:04.769183	LOG	First uplink received. Open reception window.
0:04:04.882793	LOG	PUSH_ACK: 02 9b7e 01
0:04:04.884793	LOG	GPS Time from gateway: 1385119387991
0:04:04.885794	LOG	PUSH_DATA: Protocol version = 02, Token = 9b7e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 957168916, 'time': '2023-11-27T11:22:48.990932Z', 'tmms': 1385119387991, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAqAgC2f4M/9B/xOGvEJQ='}]}
0:04:04.887796	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08a8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e1af1094)
0:04:04.888826	LOG	Server <---------- DUT
0:04:04.890794	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 056b, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: e44bc09a)
0:04:04.891794	LOG	Frame command sent to the DUT
0:04:04.893794	LOG	PULL_RESP: Protocol version = 02, Token = faf9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 959168916, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAawXg4hI739OTHA98Y83+A+zDSswQ11YMPBYHiVOHQPePglKuD9E8UDU4osYbDya6jCL9yoEY5EvAmg=='}}
0:04:04.894794	LOG	Server ----------> DUT
0:04:04.898403	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:04.901440	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:08.040744	LOG	GPS Time updated: 1385119391262
0:04:08.041743	LOG	PULL_DATA: 02 5286 02 0016c001ff1025bf
0:04:08.043745	LOG	PULL_ACK: 02 5286 04
0:04:09.763267	LOG	First uplink received. Open reception window.
0:04:09.868878	LOG	PUSH_ACK: 02 b304 01
0:04:09.870878	LOG	GPS Time from gateway: 1385119392990
0:04:09.871881	LOG	PUSH_DATA: Protocol version = 02, Token = b304, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 962168648, 'time': '2023-11-27T11:22:53.990663Z', 'tmms': 1385119392990, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAqQgC7eP6MCYQtzaNeUY='}]}
0:04:09.872878	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08a9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 368d7946)
0:04:09.874898	LOG	Server <---------- DUT
0:04:09.876846	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 056c, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 7b24b46a)
0:04:09.878847	LOG	Frame command sent to the DUT
0:04:09.879879	LOG	PULL_RESP: Protocol version = 02, Token = 5592, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 964168648, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAbAXg3Ct6ihZaijNPEjkFLGIwS9pEr6UhsiKgMFGxOGth2w4DUhj26lonGtGQF+JCGsB3ou15eyS0ag=='}}
0:04:09.880880	LOG	Server ----------> DUT
0:04:09.883846	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:09.887916	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:14.767576	LOG	First uplink received. Open reception window.
0:04:14.869400	LOG	PUSH_ACK: 02 dbca 01
0:04:14.871369	LOG	GPS Time from gateway: 1385119397990
0:04:14.872367	LOG	PUSH_DATA: Protocol version = 02, Token = dbca, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 967168419, 'time': '2023-11-27T11:22:58.990434Z', 'tmms': 1385119397990, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAqggCpspqJHAZpIgVH3A='}]}
0:04:14.873368	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08aa, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 88151f70)

0:04:14.875370	LOG	Server <---------- DUT
0:04:14.877368	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 056d, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 5c1982e5)
0:04:14.878368	LOG	Frame command sent to the DUT
0:04:14.880368	LOG	PULL_RESP: Protocol version = 02, Token = 605b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 969168419, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAbQXg5Julj25GipdAPBXJT084Sf6DFr1UlFJS7JAOh1Ft+lBjiioFQSB4QS2gZAR/IWmjQ2jwXBmC5Q==''}}
0:04:14.881368	LOG	Server ----------> DUT
0:04:14.885369	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:14.888368	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:18.240318	LOG	GPS Time updated: 1385119401462
0:04:18.241318	LOG	PULL_DATA: 02 adaa 02 0016c001ff1025bf
0:04:18.242320	LOG	PULL_ACK: 02 adaa 04
0:04:19.763843	LOG	First uplink received. Open reception window.
0:04:19.868961	LOG	PUSH_ACK: 02 17a2 01
0:04:19.870929	LOG	GPS Time from gateway: 1385119402990
0:04:19.871962	LOG	PUSH_DATA: Protocol version = 02, Token = 17a2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 972168202, 'time': '2023-11-27T11:23:03.990216Z', 'tmms': 1385119402990, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAqwgCZBZ8j2Knl6OFpoU='}]}
0:04:19.873935	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08ab, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a385a685)
0:04:19.874929	LOG	Server <---------- DUT
0:04:19.876936	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 056e, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 12f69fce)
0:04:19.878971	LOG	Frame command sent to the DUT
0:04:19.879961	LOG	PULL_RESP: Protocol version = 02, Token = 685f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 974168202, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAbgXgoaccN5+1c8HJqmx1cXp8K99zXwUloMgc8j+liqL/JGeGpYqSeVpV5EvAXt3nO+HNhIyYEvafzg==''}}
0:04:19.880962	LOG	Server ----------> DUT
0:04:19.883933	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:19.887962	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:24.771350	LOG	First uplink received. Open reception window.
0:04:24.881895	LOG	PUSH_ACK: 02 0718 01
0:04:24.883927	LOG	GPS Time from gateway: 1385119407990
0:04:24.884924	LOG	PUSH_DATA: Protocol version = 02, Token = 0718, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 977167930, 'time': '2023-11-27T11:23:08.989943Z', 'tmms': 1385119407990, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACArAgCihwRi5qliNpbYWM='}]}
0:04:24.886893	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08ac, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: da5b6163)
0:04:24.887896	LOG	Server <---------- DUT
0:04:24.889928	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 056f, FOpts:), FPort: e0, FRMPayload:

		07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: fdcde9ff)
0:04:24.890926	LOG	Frame command sent to the DUT
0:04:24.892955	LOG	PULL_RESP: Protocol version = 02, Token = 0555, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 979167930, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAbwXg92NCzH43k93TwlSDvrroARySnjHA8yR8f4TC06zLgQeQj95tlvhZXg9TNk7JCmLdwyTr/c3p/w=='}}
0:04:24.893927	LOG	Server ----------> DUT
0:04:24.896893	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:24.900896	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:28.250356	LOG	GPS Time updated: 1385119411469
0:04:28.251356	LOG	PULL_DATA: 02 1f1e 02 0016c001ff1025bf
0:04:28.253390	LOG	PULL_ACK: 02 1f1e 04
0:04:29.769455	LOG	First uplink received. Open reception window.
0:04:29.881641	LOG	PUSH_ACK: 02 afc0 01
0:04:29.883607	LOG	GPS Time from gateway: 1385119412989
0:04:29.884608	LOG	PUSH_DATA: Protocol version = 02, Token = afc0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 982167711, 'time': '2023-11-27T11:23:13.989724Z', 'tmms': 1385119412989, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACArQgCmI5G27c6qSemoHg='}]}
0:04:29.885608	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08ad, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 27a6a078)
0:04:29.887608	LOG	Server <---------- DUT
0:04:29.889609	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0570, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 037880c4)
0:04:29.891610	LOG	Frame command sent to the DUT
0:04:29.892645	LOG	PULL_RESP: Protocol version = 02, Token = e177, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 984167711, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAcAXgbnMa2P9hg9smWdSO4dJNZPF3fGZB0Z1pTfr4Gfw2AWhN3ol2kPCqN1h4Q2aSd3hjfMJzA3iAxA=='}}
0:04:29.893648	LOG	Server ----------> DUT
0:04:29.896609	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:29.900608	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:34.771514	LOG	First uplink received. Open reception window.
0:04:34.885562	LOG	PUSH_ACK: 02 046b 01
0:04:34.887529	LOG	GPS Time from gateway: 1385119417989
0:04:34.888530	LOG	PUSH_DATA: Protocol version = 02, Token = 046b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 987167450, 'time': '2023-11-27T11:23:18.989462Z', 'tmms': 1385119417989, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACArggCQaEio03MSqJqDxM='}]}
0:04:34.890530	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08ae, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a26a0f13)
0:04:34.891530	LOG	Server <---------- DUT
0:04:34.893532	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0571, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: a0b6156e)
0:04:34.895540	LOG	Frame command sent to the DUT

0:04:34.896558	LOG	PULL_RESP: Protocol version = 02, Token = 1c51, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 989167450, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAcQXgJvW061FD3OiK/IEsUzoq2eYc046NpRvt3Kh9D8sd/FRyVrZRUc8MZHis5ipVdzZdhlTSoLYVbg==''}}
0:04:34.897564	LOG	Server ----------> DUT
0:04:34.900570	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:34.904531	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:38.259989	LOG	GPS Time updated: 1385119421477
0:04:38.261962	LOG	PULL_DATA: 02 0299 02 0016c001ff1025bf
0:04:38.263957	LOG	PULL_ACK: 02 0299 04
0:04:39.763081	LOG	First uplink received. Open reception window.
0:04:39.867139	LOG	PUSH_ACK: 02 5f81 01
0:04:39.869141	LOG	GPS Time from gateway: 1385119422989
0:04:39.870146	LOG	PUSH_DATA: Protocol version = 02, Token = 5f81, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 992167225, 'time': '2023-11-27T11:23:23.989236Z', 'tmms': 1385119422989, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACArwgCtfhB2TiJlF1ID5g='}]}
0:04:39.872160	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08af, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5d480f98)
0:04:39.873146	LOG	Server <---------- DUT
0:04:39.875147	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0572, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 9f04f51b)
0:04:39.877146	LOG	Frame command sent to the DUT
0:04:39.878146	LOG	PULL_RESP: Protocol version = 02, Token = 6944, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 994167225, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAcgXgedrjtl8PjC7oO88mpezW10Hf+/PZHPZ+sPvuzPR4WwQSuUqb8KoZQO/vW216sP0cHdaenwT1Gw==''}}
0:04:39.880147	LOG	Server ----------> DUT
0:04:39.883148	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:39.886658	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:44.763035	LOG	First uplink received. Open reception window.
0:04:44.867891	LOG	PUSH_ACK: 02 a6a1 01
0:04:44.869892	LOG	GPS Time from gateway: 1385119427989
0:04:44.870857	LOG	PUSH_DATA: Protocol version = 02, Token = a6a1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 997166955, 'time': '2023-11-27T11:23:28.988966Z', 'tmms': 1385119427989, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAsAgCLwM4GPp2Sjs1zbQ='}]}
0:04:44.871856	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08b0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3b35cdb4)
0:04:44.873855	LOG	Server <---------- DUT
0:04:44.874860	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0573, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 22b35927)
0:04:44.876860	LOG	Frame command sent to the DUT
0:04:44.878895	LOG	PULL_RESP: Protocol version = 02, Token = 2013, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 999166955, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data':

		'YAAAAAAAcwXgGcK5IAU3n0e4Hl5Jmqb2Yc6NHa5E1wg9brzwxN1/r1JhPnVZATI3qZg7RXViMCRDbYETIrNZJw==''}}
0:04:44.879893	LOG	Server ----------> DUT
0:04:44.882879	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:44.886866	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:48.449394	LOG	GPS Time updated: 1385119431675
0:04:48.451399	LOG	PULL_DATA: 02 2275 02 0016c001ff1025bf
0:04:48.452395	LOG	PULL_ACK: 02 2275 04
0:04:49.761011	LOG	First uplink received. Open reception window.
0:04:49.863627	LOG	PUSH_ACK: 02 e3bd 01
0:04:49.865628	LOG	GPS Time from gateway: 1385119432988
0:04:49.866628	LOG	PUSH_DATA: Protocol version = 02, Token = e3bd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1002166731, 'time': '2023-11-27T11:23:33.988741Z', 'tmms': 1385119432988, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAsQgC84mUifTC9Z2zlDU='}]}
0:04:49.868639	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08b1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9db39435)
0:04:49.869630	LOG	Server <---------- DUT
0:04:49.871629	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0574, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: b0ef5eed)
0:04:49.872628	LOG	Frame command sent to the DUT
0:04:49.874628	LOG	PULL_RESP: Protocol version = 02, Token = c64b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1004166731, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAdAXgpR5SsyBRezL1/gT7dQyxWogOXX+St2lSL9UOXrAWJuFgjbYhmbCuJbLi2qEbnSgbPTlssO9e7Q==''}}
0:04:49.875629	LOG	Server ----------> DUT
0:04:49.878647	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:49.882781	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:54.764506	LOG	First uplink received. Open reception window.
0:04:54.866192	LOG	PUSH_ACK: 02 f335 01
0:04:54.868157	LOG	GPS Time from gateway: 1385119437988
0:04:54.869156	LOG	PUSH_DATA: Protocol version = 02, Token = f335, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1007166500, 'time': '2023-11-27T11:23:38.988509Z', 'tmms': 1385119437988, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAsggCU6MT6eRjZPthttc='}]}
0:04:54.871157	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08b2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fb61b6d7)
0:04:54.872157	LOG	Server <---------- DUT
0:04:54.874157	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0575, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 88ab94fc)
0:04:54.876157	LOG	Frame command sent to the DUT
0:04:54.877157	LOG	PULL_RESP: Protocol version = 02, Token = 260d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1009166500, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAdQXgd2fs+zkBp5+UUTL/owwRndyZGnaAvlcMqfmiWymmZEBmyFflzDiXw6Kwf/vZVzlZk8c8iKuU/A==''}}
0:04:54.878156	LOG	Server ----------> DUT
0:04:54.882157	LOG	Send Test Command TxFramesCtrlReq process completed

0:04:54.885195	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:58.659427	LOG	GPS Time updated: 1385119441883
0:04:58.661395	LOG	PULL_DATA: 02 391f 02 0016c001ff1025bf
0:04:58.662427	LOG	PULL_ACK: 02 391f 04
0:04:59.766500	LOG	First uplink received. Open reception window.
0:04:59.867111	LOG	PUSH_ACK: 02 71e6 01
0:04:59.869147	LOG	GPS Time from gateway: 1385119442988
0:04:59.870148	LOG	PUSH_DATA: Protocol version = 02, Token = 71e6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1012166273, 'time': '2023-11-27T11:23:43.988282Z', 'tmms': 1385119442988, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAswgC/VHMrME3vx0bCrk='}]}
0:04:59.872123	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08b3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1d1b0ab9)
0:04:59.873145	LOG	Server <---------- DUT
0:04:59.875112	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0576, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 45afe988)
0:04:59.877112	LOG	Frame command sent to the DUT
0:04:59.878114	LOG	PULL_RESP: Protocol version = 02, Token = 0f6f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1014166273, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAdgXgbr3ABnA9/8Zvrh/pOwp+RzuwK6WyXzGHUc6JTvWN5I7tUrs5V9nQXGdt0Q11Zrk5gOTCRa/piA=='}}
0:04:59.879146	LOG	Server ----------> DUT
0:04:59.882112	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:59.886112	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:04.769808	LOG	First uplink received. Open reception window.
0:05:04.884171	LOG	PUSH_ACK: 02 ca88 01
0:05:04.886137	LOG	GPS Time from gateway: 1385119447988
0:05:04.887136	LOG	PUSH_DATA: Protocol version = 02, Token = ca88, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1017166042, 'time': '2023-11-27T11:23:48.988050Z', 'tmms': 1385119447988, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAtAgCp6fIBkZh93OPHoE='}]}
0:05:04.889136	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08b4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 738f1e81)
0:05:04.890137	LOG	Server <---------- DUT
0:05:04.892137	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0577, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 73650156)
0:05:04.893141	LOG	Frame command sent to the DUT
0:05:04.895142	LOG	PULL_RESP: Protocol version = 02, Token = 46a9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1019166042, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAdwXg2sRMr9TjkgwFRWJbNX41B+zJ/FSdScO+jNv44wDfMwoAVStdc7plWSkimS4/DpjRBE9Lc2UBVg=='}}
0:05:04.896142	LOG	Server ----------> DUT
0:05:04.899145	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:04.902141	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:08.680041	LOG	GPS Time updated: 1385119451900
0:05:08.681035	LOG	PULL_DATA: 02 89d1 02 0016c001ff1025bf

0:05:08.683039	LOG	PULL_ACK: 02 89d1 04
0:05:11.473772	LOG	First uplink received. Open reception window.
0:05:11.577225	LOG	PUSH_ACK: 02 a058 01
0:05:11.579229	LOG	GPS Time from gateway: 1385119454701
0:05:11.580228	LOG	PUSH_DATA: Protocol version = 02, Token = a058, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1023879246, 'time': '2023-11-27T11:23:55.701253Z', 'tmms': 1385119454701, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3354, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAtQgCxooLHGu01Y27j1Y='}]}
0:05:11.581226	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08b5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8dbb8f56)
0:05:11.583217	LOG	Server <---------- DUT
0:05:11.585193	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0578, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: a3b767a1)
0:05:11.586193	LOG	Frame command sent to the DUT
0:05:11.588206	LOG	PULL_RESP: Protocol version = 02, Token = 7078, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1025879246, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAeAXgqvDuza+8NNtWvdlqVrSUFI/3MNPQhykcoIkq4q01VEmghfwtk2wZNZiTGie07cd3cBUOo7dnoQ=='}}
0:05:11.589226	LOG	Server ----------> DUT
0:05:11.592194	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:11.595533	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:18.729629	LOG	GPS Time updated: 1385119461957
0:05:18.730651	LOG	PULL_DATA: 02 aabf 02 0016c001ff1025bf
0:05:18.732653	LOG	PULL_ACK: 02 aabf 04
0:05:21.255671	LOG	First uplink received. Open reception window.
0:05:21.359309	LOG	PUSH_ACK: 02 7659 01
0:05:21.361276	LOG	GPS Time from gateway: 1385119464480
0:05:21.362277	LOG	PUSH_DATA: Protocol version = 02, Token = 7659, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1033658391, 'time': '2023-11-27T11:24:05.480397Z', 'tmms': 1385119464480, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3355, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAtggC9nVAmLkz4RG5Wk8='}]}
0:05:21.364277	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08b6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 11b95a4f)
0:05:21.365278	LOG	Server <---------- DUT
0:05:21.367277	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0579, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 395f3b45)
0:05:21.368277	LOG	Frame command sent to the DUT
0:05:21.370276	LOG	PULL_RESP: Protocol version = 02, Token = 33e2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1035658391, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAeQXgj+ztUMKMdySmwKZ8NZhAP2SpU0RONXH2MO0AqS+lC5bErTFNSDTnUs1QiI1qoTjeLWfmOV87RQ=='}}
0:05:21.371280	LOG	Server ----------> DUT
0:05:21.374310	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:21.377310	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:26.253736	LOG	First uplink received. Open reception window.
0:05:26.361820	LOG	PUSH_ACK: 02 c481 01

0:05:26.363820	LOG	GPS Time from gateway: 1385119469480
0:05:26.365786	LOG	PUSH_DATA: Protocol version = 02, Token = c481, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1038658123, 'time': '2023-11-27T11:24:10.480128Z', 'tmms': 1385119469480, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAtwgC7TymJKVAXGJJdbU='}]}
0:05:26.366786	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08b7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 624975b5)
0:05:26.367786	LOG	Server <---------- DUT
0:05:26.369790	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 057a, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 2ecfc8ee)
0:05:26.371788	LOG	Frame command sent to the DUT
0:05:26.372820	LOG	PULL_RESP: Protocol version = 02, Token = 704c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1040658123, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAegXgNrVIrB57ZbVBvNDG5Xb7AowEP0DIMMnkUYXe6eMbC7i6f4Zt1pqYu1a/+CP2OwDqwaiVLs/I7g==''}}
0:05:26.374787	LOG	Server ----------> DUT
0:05:26.377787	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:26.381247	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:28.889803	LOG	GPS Time updated: 1385119472116
0:05:28.890802	LOG	PULL_DATA: 02 1423 02 0016c001ff1025bf
0:05:28.891802	LOG	PULL_ACK: 02 1423 04
0:05:31.252353	LOG	First uplink received. Open reception window.
0:05:31.359052	LOG	PUSH_ACK: 02 03ba 01
0:05:31.361020	LOG	GPS Time from gateway: 1385119474480
0:05:31.362022	LOG	PUSH_DATA: Protocol version = 02, Token = 03ba, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1043657896, 'time': '2023-11-27T11:24:15.479900Z', 'tmms': 1385119474480, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAuAgCsmkR1Ob1BRKRjwk='}]}
0:05:31.364053	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08b8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 12918f09)
0:05:31.365054	LOG	Server <---------- DUT
0:05:31.367037	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 057b, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 0ec75f81)
0:05:31.369022	LOG	Frame command sent to the DUT
0:05:31.370022	LOG	PULL_RESP: Protocol version = 02, Token = 2e3b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1045657896, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAewXgywN2EYtarTfrGMsvLgwxft/OeDop5WI6LNH6EG95H75ZW7+CVzEOH7kyp9wJsUdI6Q9bDsdfgQ==''}}
0:05:31.372021	LOG	Server ----------> DUT
0:05:31.375054	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:31.378263	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:36.253210	LOG	#**********CURRENT BEACON SENT**********#
0:05:36.254246	LOG	PULL_RESP: Protocol version = 02, Token = ac4e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385119488000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAP49ShZgAAAAAAAAAAA=''}}

0:05:36.256211	LOG	Server ----------> DUT
0:05:36.257210	LOG	#**********#
0:05:36.267243	LOG	#**********NEXT BEACON QUEUED**********#
0:05:36.268243	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385119616000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAP49SvUUAAAAAAAAAAAA='}}
0:05:36.269243	LOG	Server ----------> DUT
0:05:36.271243	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 803f8f52, CRC1: bd45, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385119616000
0:05:36.272245	LOG	#**********#
0:05:36.274212	LOG	Next BEACON scheduled at GPS time (ms): 1385119744000
0:05:36.275211	LOG	First uplink received. Open reception window.
0:05:36.277211	LOG	TX_ACK: 02 ac4e 05 0016c001ff1025bf
0:05:36.380246	LOG	PUSH_ACK: 02 c425 01
0:05:36.382263	LOG	GPS Time from gateway: 1385119479479
0:05:36.383263	LOG	PUSH_DATA: Protocol version = 02, Token = c425, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1048657674, 'time': '2023-11-27T11:24:20.479678Z', 'tmms': 1385119479479, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAuQgC3ubCGsga0XRKojQ='}]}
0:05:36.385263	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08b9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 744aa234)
0:05:36.386263	LOG	Server <---------- DUT
0:05:36.388262	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 057c, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: fd76549c)
0:05:36.390264	LOG	Frame command sent to the DUT
0:05:36.391262	LOG	PULL_RESP: Protocol version = 02, Token = 2971, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1050657674, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAfAXgXc0KKTYTzrIpnUgYBkyOa4BlOBfyu1hrkzoa56WThGx2QFvoyH2u1hyU7VpcfGp10apX/XZUnA=='}}
0:05:36.393263	LOG	Server ----------> DUT
0:05:36.395776	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:36.398818	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:38.909123	LOG	GPS Time updated: 1385119482111
0:05:38.911123	LOG	PULL_DATA: 02 30a7 02 0016c001ff1025bf
0:05:38.912132	LOG	PULL_ACK: 02 30a7 04
0:05:41.255887	LOG	First uplink received. Open reception window.
0:05:41.362499	LOG	PUSH_ACK: 02 e223 01
0:05:41.364499	LOG	GPS Time from gateway: 1385119484479
0:05:41.365501	LOG	PUSH_DATA: Protocol version = 02, Token = e223, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1053657417, 'time': '2023-11-27T11:24:25.479420Z', 'tmms': 1385119484479, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAuggCVy+h5o7Ar60EGS8='}]}
0:05:41.366500	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08ba, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ad04192f)
0:05:41.368500	LOG	Server <---------- DUT

0:05:41.369539	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 057d, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 1c5268c1)
0:05:41.371533	LOG	Frame command sent to the DUT
0:05:41.373503	LOG	PULL_RESP: Protocol version = 02, Token = 68f3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1055657417, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAfQXgZ+6wFdQnATwRPzX9VTM8mkp6dlJDm63SzzTvKFg5LFF7OShKeuz2b+INUR8RPVUkXkL+HFJowQ==''}}
0:05:41.374534	LOG	Server ----------> DUT
0:05:41.377507	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:41.381142	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:46.260094	LOG	First uplink received. Open reception window.
0:05:46.367753	LOG	PUSH_ACK: 02 dc26 01
0:05:46.369720	LOG	GPS Time from gateway: 1385119489479
0:05:46.370753	LOG	PUSH_DATA: Protocol version = 02, Token = dc26, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1058657148, 'time': '2023-11-27T11:24:30.479150Z', 'tmms': 1385119489479, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3362, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAuwgCW64TPwEACcoEvrs='}]}
0:05:46.372720	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08bb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ca04bebb)
0:05:46.373719	LOG	Server <---------- DUT
0:05:46.375722	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 057e, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 803b8dab)
0:05:46.376755	LOG	Frame command sent to the DUT
0:05:46.378757	LOG	PULL_RESP: Protocol version = 02, Token = 68ef, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1060657148, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAfgXgjrRr9PzQRx2ny3k2P3TJnjBWyK12hRCH0uhMCawsQFIi480DKdBlc2X+kpSSgVVBv/GdgDuNqw==''}}
0:05:46.379721	LOG	Server ----------> DUT
0:05:46.382721	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:46.386722	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:49.109054	LOG	GPS Time updated: 1385119492328
0:05:49.111027	LOG	PULL_DATA: 02 ca15 02 0016c001ff1025bf
0:05:49.112054	LOG	PULL_ACK: 02 ca15 04
0:05:51.253115	LOG	First uplink received. Open reception window.
0:05:51.364441	LOG	PUSH_ACK: 02 463b 01
0:05:51.366409	LOG	GPS Time from gateway: 1385119494479
0:05:51.367408	LOG	PUSH_DATA: Protocol version = 02, Token = 463b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1063656925, 'time': '2023-11-27T11:24:35.478927Z', 'tmms': 1385119494479, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAvAgCigvWl9EtoGMTsQI='}]}
0:05:51.369409	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08bc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6313b102)
0:05:51.370408	LOG	Server <---------- DUT
0:05:51.372422	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 057f, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 01698dec)

0:05:51.373408	LOG	Frame command sent to the DUT
0:05:51.375409	LOG	PULL_RESP: Protocol version = 02, Token = 856b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1065656925, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAfwXgNwnDNUCuqQdXe2NcYQ0ps+OiGbsvsMh/sB3aRYZW5BBYXXi4Vai2h3XZxonQ+b2Jj9LFAWmN7A==''}}
0:05:51.376409	LOG	Server ----------> DUT
0:05:51.380409	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:51.383408	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:56.254958	LOG	First uplink received. Open reception window.
0:05:56.368842	LOG	PUSH_ACK: 02 c385 01
0:05:56.370836	LOG	GPS Time from gateway: 1385119499478
0:05:56.371804	LOG	PUSH_DATA: Protocol version = 02, Token = c385, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1068656658, 'time': '2023-11-27T11:24:40.478659Z', 'tmms': 1385119499478, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAvQgC1AEeKfzMVAjIA/w='}]}
0:05:56.372803	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08bd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 08c803fc)
0:05:56.374812	LOG	Server <---------- DUT
0:05:56.376805	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0580, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 8f8ac7dd)
0:05:56.377804	LOG	Frame command sent to the DUT
0:05:56.379804	LOG	PULL_RESP: Protocol version = 02, Token = 48ac, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1070656658, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAgAXg4MKKKEHz2mcePr2XF8SbYbY9IBycJANy9Dluj3jhdieUS8HRaLS4+w1cJ6hzxZF+knTWj4rH3Q==''}}
0:05:56.380804	LOG	Server ----------> DUT
0:05:56.383808	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:56.387806	LOG	Step 06-07
0:05:56.390805	LOG	Send Test Command RxAppCntReq process starts
0:05:59.318790	LOG	GPS Time updated: 1385119502543
0:05:59.320790	LOG	PULL_DATA: 02 e163 02 0016c001ff1025bf
0:05:59.321758	LOG	PULL_ACK: 02 e163 04
0:06:01.249922	LOG	First uplink received. Open reception window.
0:06:01.354640	LOG	PUSH_ACK: 02 dd8c 01
0:06:01.356608	LOG	GPS Time from gateway: 1385119504478
0:06:01.357643	LOG	PUSH_DATA: Protocol version = 02, Token = dd8c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1073656423, 'time': '2023-11-27T11:24:45.478423Z', 'tmms': 1385119504478, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAvggCsDq6BcV8tcman2I='}]}
0:06:01.359610	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08be, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c99a9f62)
0:06:01.360641	LOG	Server <---------- DUT
0:06:01.362114	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0581, FOpts:), FPort: e0, FRMPayload: 09), MIC: 0be6357c)
0:06:01.364121	LOG	Frame command sent to the DUT
0:06:01.365120	LOG	PULL_RESP: Protocol version = 02, Token = 2578, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1075656423, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAgQXgmwvmNXw='}}

0:06:01.366119	LOG	Server ----------> DUT
0:06:01.369122	LOG	TX_ACK: 02 2578 05 0016c001ff1025bf
0:06:04.508289	LOG	First uplink received. Open reception window.
0:06:04.616754	LOG	PUSH_ACK: 02 2253 01
0:06:04.618785	LOG	GPS Time from gateway: 1385119507737
0:06:04.619787	LOG	PUSH_DATA: Protocol version = 02, Token = 2253, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1076915211, 'time': '2023-11-27T11:24:48.737211Z', 'tmms': 1385119507737, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3374, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAvwjgm3290wjZdw=='}]}
0:06:04.620786	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08bf, FOpts:), FPort: e0, FRMPayload: 090004, MIC: d308d977)
0:06:04.621785	LOG	Server <---------- DUT
0:06:04.623786	LOG	Frame Command Payload in the Answer: 090004
0:06:04.627805	LOG	RX Count received by DUT: 1024
0:06:04.630304	LOG	Send Test Command RxAppCntReq process completed
0:06:04.636315	LOG	End Test Step: Test packet error rate for SF12BW125 using RX2 window
0:06:04.640312	LOG	Partial Verdict: PASS
0:06:04.644346	LOG	==========
0:06:04.649312	LOG	==========
0:06:04.651317	LOG	Start Test Step: Test packet error rate for SF11BW125 using RX2 window
0:06:04.663296	LOG	Step 01-03
0:06:04.666805	LOG	Send RXParamSetupReq process starts
0:06:09.339121	LOG	GPS Time updated: 1385119512568
0:06:09.341121	LOG	PULL_DATA: 02 e5a2 02 0016c001ff1025bf
0:06:09.342121	LOG	PULL_ACK: 02 e5a2 04
0:06:11.251796	LOG	First uplink received. Open reception window.
0:06:11.356755	LOG	PUSH_ACK: 02 ceaa 01
0:06:11.358791	LOG	GPS Time from gateway: 1385119514478
0:06:11.359792	LOG	PUSH_DATA: Protocol version = 02, Token = ceaa, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1083655910, 'time': '2023-11-27T11:24:55.477909Z', 'tmms': 1385119514478, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3358, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAwAgC+PYUIs18w7FQ4FQ='}]}
0:06:11.361760	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08c0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b150e054)
0:06:11.362791	LOG	Server <---------- DUT
0:06:11.364792	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0582, FOpts:), FPort: 00, FRMPayload: 0501d2ad84), MIC: 9d87cd5d)
0:06:11.366761	LOG	PULL_RESP: Protocol version = 02, Token = d391, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1085655910, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAggUAYfBmyk+dh81d'}}
0:06:11.367792	LOG	Server ----------> DUT
0:06:11.370391	LOG	TX_ACK: 02 d391 05 0016c001ff1025bf
0:06:16.381808	LOG	First uplink received. Open reception window.
0:06:16.484484	LOG	PUSH_ACK: 02 23e2 01
0:06:16.486484	LOG	GPS Time from gateway: 1385119519608
0:06:16.487484	LOG	PUSH_DATA: Protocol version = 02, Token = 23e2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1088786650, 'time': '2023-11-27T11:25:00.608648Z', 'tmms': 1385119519608, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3362, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCwQgFBwLhWpcFad+W4B/S6Q=='}]}
0:06:16.489453	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 08c1, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: e01fd2e9)
0:06:16.490487	LOG	Server <---------- DUT

0:06:16.492453	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:06:16.493451	LOG	Command Answer: 0507
0:06:16.505551	LOG	MAC command communication completed
0:06:16.508560	LOG	Step 03-04
0:06:16.518593	LOG	Send Test Command RxAppCntReq process starts
0:06:19.349479	LOG	GPS Time updated: 1385119522577
0:06:19.351444	LOG	PULL_DATA: 02 cd26 02 0016c001ff1025bf
0:06:19.352476	LOG	PULL_ACK: 02 cd26 04
0:06:21.257680	LOG	First uplink received. Open reception window.
0:06:21.363042	LOG	PUSH_ACK: 02 9d92 01
0:06:21.365049	LOG	GPS Time from gateway: 1385119524477
0:06:21.366043	LOG	PUSH_DATA: Protocol version = 02, Token = 9d92, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1093655520, 'time': '2023-11-27T11:25:05.477516Z', 'tmms': 1385119524477, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3366, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCwggFBwLx7WqTiP2CSD1Rsg==\'}]}
0:06:21.367083	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 08c2, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 483d51b2)
0:06:21.368080	LOG	Server <---------- DUT
0:06:21.370082	LOG	MAC Command RXParamSetupAns received
0:06:21.372047	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0583, FOpts:), FPort: e0, FRMPayload: 09), MIC: c89ad260)
0:06:21.373047	LOG	Frame command sent to the DUT
0:06:21.375047	LOG	PULL_RESP: Protocol version = 02, Token = c324, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1095655520, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAgwXgKMia0mA=\'}}
0:06:21.376085	LOG	Server ----------> DUT
0:06:21.380085	LOG	TX_ACK: 02 c324 05 0016c001ff1025bf
0:06:23.917295	LOG	First uplink received. Open reception window.
0:06:24.025173	LOG	PUSH_ACK: 02 4bcd 01
0:06:24.027141	LOG	GPS Time from gateway: 1385119527141
0:06:24.028141	LOG	PUSH_DATA: Protocol version = 02, Token = 4bcd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1096319484, 'time': '2023-11-27T11:25:08.141481Z', 'tmms': 1385119527141, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3370, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAwwjgGLiCw+Envw==\'}]}
0:06:24.029140	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08c3, FOpts:), FPort: e0, FRMPayload: 090104, MIC: c3e127bf)
0:06:24.031142	LOG	Server <---------- DUT
0:06:24.032142	LOG	Frame Command Payload in the Answer: 090104
0:06:24.036141	LOG	RX Count received by DUT: 1025
0:06:24.038758	LOG	Send Test Command RxAppCntReq process completed
0:06:24.042769	LOG	Step 05
0:06:24.045800	LOG	Send Test Command TxFramesCtrlReq process starts
0:06:26.256320	LOG	First uplink received. Open reception window.
0:06:26.370617	LOG	PUSH_ACK: 02 f016 01
0:06:26.372628	LOG	GPS Time from gateway: 1385119529477
0:06:26.373591	LOG	PUSH_DATA: Protocol version = 02, Token = f016, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1098655160, 'time': '2023-11-27T11:25:10.477157Z', 'tmms': 1385119529477, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3358, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAxAgCRu4GVi+/Sb8C6e4=\'}]}
0:06:26.375591	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08c4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: bf02e9ee)

0:06:26.376589	LOG	Server <---------- DUT
0:06:26.378595	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0584, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 14cb32d2)
0:06:26.379590	LOG	Frame command sent to the DUT
0:06:26.381592	LOG	PULL_RESP: Protocol version = 02, Token = c946, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1100655160, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAhAXgrtg9Sh0YtDw3iZ9RrgiuGGgiDA7diSnoZ70eQpPn1pNT/zfmqSz/n9RxMZ7l/L9s4IM2FMsy0g==''}}
0:06:26.382626	LOG	Server ----------> DUT
0:06:26.385593	LOG	Send Test Command TxFramesCtrlReq process completed
0:06:26.389101	LOG	Send Test Command TxFramesCtrlReq process starts
0:06:29.529263	LOG	GPS Time updated: 1385119532750
0:06:29.531231	LOG	PULL_DATA: 02 54bb 02 0016c001ff1025bf
0:06:29.532231	LOG	PULL_ACK: 02 54bb 04
0:06:31.253012	LOG	First uplink received. Open reception window.
0:06:31.355339	LOG	PUSH_ACK: 02 2b9a 01
0:06:31.357340	LOG	GPS Time from gateway: 1385119534477
0:06:31.358340	LOG	PUSH_DATA: Protocol version = 02, Token = 2b9a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1103654902, 'time': '2023-11-27T11:25:15.476898Z', 'tmms': 1385119534477, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3362, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAxQgCNNKFLafB+nA9YhI='}]}
0:06:31.360340	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08c5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 703d6212)
0:06:31.361340	LOG	Server <---------- DUT
0:06:31.363342	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0585, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c2ca8daf)
0:06:31.365341	LOG	Frame command sent to the DUT
0:06:31.366340	LOG	PULL_RESP: Protocol version = 02, Token = 105c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1105654902, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAhQXgQAaLuiZ6EQIKY3jroLyL+xN+PHQ8yEfpdBWj7CeZKWWPmDd9Py2WnaEDqhSN8mthO2KWwsqNrw==''}}
0:06:31.368341	LOG	Server ----------> DUT
0:06:31.370340	LOG	Send Test Command TxFramesCtrlReq process completed
0:06:31.374340	LOG	Send Test Command TxFramesCtrlReq process starts
0:06:36.256838	LOG	First uplink received. Open reception window.
0:06:36.360373	LOG	PUSH_ACK: 02 f627 01
0:06:36.362342	LOG	GPS Time from gateway: 1385119539476
0:06:36.363375	LOG	PUSH_DATA: Protocol version = 02, Token = f627, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1108654649, 'time': '2023-11-27T11:25:20.476644Z', 'tmms': 1385119539476, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3362, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAxggCxlBQb5zzxGpPVU0='}]}
0:06:36.365343	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08c6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6a4f554d)
0:06:36.366374	LOG	Server <---------- DUT
0:06:36.368343	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0586, FOpts:), FPort: e0, FRMPayload:

		0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 6c1419d6)
0:06:36.370345	LOG	Frame command sent to the DUT
0:06:36.371342	LOG	PULL_RESP: Protocol version = 02, Token = 8221, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1110654649, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAhgXgoPUscBGvi3Yt+1wgqXqVyG+KcbwN5JcQvjFrT+aPhU0Oh1zJSkJjiY6doojlELl+mqj2bBQZ1g==''}}
0:06:36.372343	LOG	Server ----------> DUT
0:06:36.375375	LOG	Send Test Command TxFramesCtrlReq process completed
0:06:36.379344	LOG	Send Test Command TxFramesCtrlReq process starts
0:06:39.729630	LOG	GPS Time updated: 1385119542948
0:06:39.730637	LOG	PULL_DATA: 02 aaba 02 0016c001ff1025bf
0:06:39.732631	LOG	PULL_ACK: 02 aaba 04
0:06:41.253720	LOG	First uplink received. Open reception window.
0:06:41.360361	LOG	PUSH_ACK: 02 ac8c 01
0:06:41.362329	LOG	GPS Time from gateway: 1385119544476
0:06:41.363328	LOG	PUSH_DATA: Protocol version = 02, Token = ac8c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1113654417, 'time': '2023-11-27T11:25:25.476412Z', 'tmms': 1385119544476, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3366, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAxwgCraM9SAHypov/27Q='}]}
0:06:41.364328	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08c7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8bffdbb4)
0:06:41.366328	LOG	Server <---------- DUT
0:06:41.368338	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0587, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 4e35881f)
0:06:41.370329	LOG	Frame command sent to the DUT
0:06:41.371328	LOG	PULL_RESP: Protocol version = 02, Token = 66ae, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1115654417, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAhwXgwMGUTmn1y+GlJ4H5xSmRTZEmnBWE44h4G6HML5eKDZzeZOj5MbZKRwHTkI/ifXSorLcqTjWIHw==''}}
0:06:41.372328	LOG	Server ----------> DUT
0:06:41.375328	LOG	Send Test Command TxFramesCtrlReq process completed
0:06:41.379362	LOG	Send Test Command TxFramesCtrlReq process starts
0:06:46.246753	LOG	First uplink received. Open reception window.
0:06:46.352565	LOG	PUSH_ACK: 02 1d89 01
0:06:46.354567	LOG	GPS Time from gateway: 1385119549476
0:06:46.355568	LOG	PUSH_DATA: Protocol version = 02, Token = 1d89, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1118654197, 'time': '2023-11-27T11:25:30.476191Z', 'tmms': 1385119549476, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3362, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAyAgCKrhmNFkjzP9QGN4='}]}
0:06:46.357534	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08c8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ff5018de)
0:06:46.358565	LOG	Server <---------- DUT
0:06:46.360547	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0588, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: f590dddf)
0:06:46.362569	LOG	Frame command sent to the DUT

0:06:46.363566	LOG	PULL_RESP: Protocol version = 02, Token = fc28, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1120654197, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAiAXgDPD1qApw1dLKpbMWCSoAEKDIDhfAF4zoIGLI1da+uuO5PbnXBWkSeisuNAbaG8Mjh6XZ9ZDd3w==''}}
0:06:46.364569	LOG	Server ----------> DUT
0:06:46.367533	LOG	Send Test Command TxFramesCtrlReq process completed
0:06:46.370969	LOG	Send Test Command TxFramesCtrlReq process starts
0:06:49.929120	LOG	GPS Time updated: 1385119553158
0:06:49.930124	LOG	PULL_DATA: 02 1840 02 0016c001ff1025bf
0:06:49.932121	LOG	PULL_ACK: 02 1840 04
0:06:51.251569	LOG	First uplink received. Open reception window.
0:06:51.365208	LOG	PUSH_ACK: 02 ddfd 01
0:06:51.367177	LOG	GPS Time from gateway: 1385119554476
0:06:51.368175	LOG	PUSH_DATA: Protocol version = 02, Token = ddfd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1123653928, 'time': '2023-11-27T11:25:35.475921Z', 'tmms': 1385119554476, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3362, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAyQgC+48Ntx4wta+k4qw='}]}
0:06:51.370177	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08c9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: afa4e2ac)
0:06:51.371176	LOG	Server <---------- DUT
0:06:51.373176	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0589, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 5bbb2e83)
0:06:51.375192	LOG	Frame command sent to the DUT
0:06:51.376176	LOG	PULL_RESP: Protocol version = 02, Token = 002d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1125653928, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAiQXgiIK5NHdeiIt1jdPgqVk+MNTyjw8HUsbwO/zlaaPDuyT5UaidMc85d/d+BPLv0Uy9ZdrGW7sugw==''}}
0:06:51.378177	LOG	Server ----------> DUT
0:06:51.380176	LOG	Send Test Command TxFramesCtrlReq process completed
0:06:51.384115	LOG	Send Test Command TxFramesCtrlReq process starts
0:06:56.245848	LOG	First uplink received. Open reception window.
0:06:56.351853	LOG	PUSH_ACK: 02 a705 01
0:06:56.353821	LOG	GPS Time from gateway: 1385119559475
0:06:56.354821	LOG	PUSH_DATA: Protocol version = 02, Token = a705, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1128653703, 'time': '2023-11-27T11:25:40.475696Z', 'tmms': 1385119559475, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3362, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAyggC3QcRHvSGFCSWnuk='}]}
0:06:56.355821	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08ca, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 24969ee9)
0:06:56.357822	LOG	Server <---------- DUT
0:06:56.359822	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 058a, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 52883ae3)
0:06:56.360822	LOG	Frame command sent to the DUT
0:06:56.362833	LOG	PULL_RESP: Protocol version = 02, Token = 75eb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1130653703, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data':

		'YAAAAAAAigXg+410Vkkd0lTlD0yRl6TpuRlbp3AmQgSsyRn2C4kCJxej2NAbrkQfAO4KiucCgZ0caJc3Uog64w==''}}
0:06:56.363822	LOG	Server ----------> DUT
0:06:56.366822	LOG	Send Test Command TxFramesCtrlReq process completed
0:06:56.370824	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:00.138882	LOG	GPS Time updated: 1385119563368
0:07:00.139882	LOG	PULL_DATA: 02 8e75 02 0016c001ff1025bf
0:07:00.141883	LOG	PULL_ACK: 02 8e75 04
0:07:01.250627	LOG	First uplink received. Open reception window.
0:07:01.351059	LOG	PUSH_ACK: 02 2c2b 01
0:07:01.353027	LOG	GPS Time from gateway: 1385119564475
0:07:01.354062	LOG	PUSH_DATA: Protocol version = 02, Token = 2c2b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1133653472, 'time': '2023-11-27T11:25:45.475464Z', 'tmms': 1385119564475, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3362, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAywgCus5H6nZpMESifJY='}]}
0:07:01.355026	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08cb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 44a27c96)
0:07:01.357060	LOG	Server <---------- DUT
0:07:01.359031	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 058b, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 0fc9222c)
0:07:01.361027	LOG	Frame command sent to the DUT
0:07:01.362026	LOG	PULL_RESP: Protocol version = 02, Token = 7286, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1135653472, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAiwXg7OrCv4gWWZOLBmkfIRiWcWRrBbVZ9TQcvPKuJzX83fWXBC807DiTnJgNu22EyGhBWgsMD8kiLA==''}}
0:07:01.363062	LOG	Server ----------> DUT
0:07:01.366028	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:01.369676	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:06.255468	LOG	First uplink received. Open reception window.
0:07:06.370121	LOG	PUSH_ACK: 02 0777 01
0:07:06.372089	LOG	GPS Time from gateway: 1385119569475
0:07:06.373089	LOG	PUSH_DATA: Protocol version = 02, Token = 0777, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1138653250, 'time': '2023-11-27T11:25:50.475241Z', 'tmms': 1385119569475, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3362, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAzAgCFn6qGse/kfBaitw='}]}
0:07:06.374089	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08cc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f05a8adc)
0:07:06.376089	LOG	Server <---------- DUT
0:07:06.378090	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 058c, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 50240061)
0:07:06.379091	LOG	Frame command sent to the DUT
0:07:06.381088	LOG	PULL_RESP: Protocol version = 02, Token = e597, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1140653250, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAjAXgZi8acwE+x7ilV3dlOHXC8aEx7TlMOoR2ObGiUM96V+/nSgxbUGIors8833xQrePk6sE0UCQAYQ==''}}
0:07:06.382090	LOG	Server ----------> DUT
0:07:06.385089	LOG	Send Test Command TxFramesCtrlReq process completed

0:07:06.388345	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:10.159134	LOG	GPS Time updated: 1385119573379
0:07:10.160122	LOG	PULL_DATA: 02 f840 02 0016c001ff1025bf
0:07:10.162090	LOG	PULL_ACK: 02 f840 04
0:07:11.251269	LOG	First uplink received. Open reception window.
0:07:11.354911	LOG	PUSH_ACK: 02 a5e8 01
0:07:11.356877	LOG	GPS Time from gateway: 1385119574475
0:07:11.357879	LOG	PUSH_DATA: Protocol version = 02, Token = a5e8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1143652989, 'time': '2023-11-27T11:25:55.474978Z', 'tmms': 1385119574475, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3362, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAzQgC6A5RUsDp8ujflCE='}]}
0:07:11.359881	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08cd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e8df9421)
0:07:11.360878	LOG	Server <---------- DUT
0:07:11.362890	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 058d, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: e0efbe33)
0:07:11.364878	LOG	Frame command sent to the DUT
0:07:11.365878	LOG	PULL_RESP: Protocol version = 02, Token = ba94, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1145652989, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAjQXgjHTFtPApunG/+GO06SNaqBCnpNR9EQaLbiIRZeWUrg1yYfEoa+E3+SYjjVGp5t5hXeoB4O++Mw==''}}
0:07:11.366879	LOG	Server ----------> DUT
0:07:11.369879	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:11.373899	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:16.249147	LOG	First uplink received. Open reception window.
0:07:16.360384	LOG	PUSH_ACK: 02 56fa 01
0:07:16.362385	LOG	GPS Time from gateway: 1385119579474
0:07:16.363385	LOG	PUSH_DATA: Protocol version = 02, Token = 56fa, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1148652728, 'time': '2023-11-27T11:26:00.474718Z', 'tmms': 1385119579474, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3358, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAzggCewH/oOVGF07QeG4='}]}
0:07:16.364384	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08ce, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4ed0786e)
0:07:16.366353	LOG	Server <---------- DUT
0:07:16.368354	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 058e, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 673ffbc9)
0:07:16.370353	LOG	Frame command sent to the DUT
0:07:16.371352	LOG	PULL_RESP: Protocol version = 02, Token = b113, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1150652728, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAjgXgdT7KBbnOvd9rKs58MmUMZ4M4q9dxXEMsfe8l9Tp+ZyLLiiejgnkRUYfiw/m/+X5n9hcEZz/7yQ==''}}
0:07:16.372351	LOG	Server ----------> DUT
0:07:16.375352	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:16.379352	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:20.358606	LOG	GPS Time updated: 1385119583583
0:07:20.359570	LOG	PULL_DATA: 02 a382 02 0016c001ff1025bf

0:07:20.361571	LOG	PULL_ACK: 02 a382 04
0:07:21.251575	LOG	First uplink received. Open reception window.
0:07:21.359146	LOG	PUSH_ACK: 02 949a 01
0:07:21.361120	LOG	GPS Time from gateway: 1385119584474
0:07:21.362114	LOG	PUSH_DATA: Protocol version = 02, Token = 949a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1153652491, 'time': '2023-11-27T11:26:05.474480Z', 'tmms': 1385119584474, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3362, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAzwgCgZs9mc212AniQi8='}]}
0:07:21.363114	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08cf, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 09e2422f)
0:07:21.365114	LOG	Server <---------- DUT
0:07:21.367115	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 058f, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 14a79c03)
0:07:21.368114	LOG	Frame command sent to the DUT
0:07:21.370114	LOG	PULL_RESP: Protocol version = 02, Token = 1172, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1155652491, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAjwXgXiaM26KunFDKniMVPIxoozhRPO8abGbZxVN7iKjtUTDw4MmFi9aU2K1CPKUThWBLqjqhFKecAw==''}}
0:07:21.371114	LOG	Server ----------> DUT
0:07:21.374114	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:21.378114	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:26.609848	LOG	First uplink received. Open reception window.
0:07:26.712165	LOG	PUSH_ACK: 02 5456 01
0:07:26.714132	LOG	GPS Time from gateway: 1385119589835
0:07:26.715131	LOG	PUSH_DATA: Protocol version = 02, Token = 5456, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1159013319, 'time': '2023-11-27T11:26:10.835307Z', 'tmms': 1385119589835, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3362, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA0AgCkFe9jBZVQj4T0Z8='}]}
0:07:26.717131	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08d0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3e13d19f)
0:07:26.718131	LOG	Server <---------- DUT
0:07:26.720145	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0590, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: cd14f36e)
0:07:26.722132	LOG	Frame command sent to the DUT
0:07:26.723131	LOG	PULL_RESP: Protocol version = 02, Token = e49b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1161013319, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAkAXgPtQ6QA5YCIG4b0OJTQaVBTTGn9DjODLxq5E/RIWu7OR4DsQFtBAsbha/fqTZ1uZqUvZdzRTzbg==''}}
0:07:26.725131	LOG	Server ----------> DUT
0:07:26.728135	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:26.732202	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:30.498427	LOG	GPS Time updated: 1385119593724
0:07:30.500427	LOG	PULL_DATA: 02 cb71 02 0016c001ff1025bf
0:07:30.502429	LOG	PULL_ACK: 02 cb71 04
0:07:31.395246	LOG	First uplink received. Open reception window.
0:07:31.497116	LOG	PUSH_ACK: 02 dfe3 01

0:07:31.499117	LOG	GPS Time from gateway: 1385119594617
0:07:31.500118	LOG	PUSH_DATA: Protocol version = 02, Token = dfe3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1163795529, 'time': '2023-11-27T11:26:15.617517Z', 'tmms': 1385119594617, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3366, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA0QgC6f2Sj/P0EErMvJ8='}]}
0:07:31.502127	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08d1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4accbc9f)
0:07:31.503117	LOG	Server <---------- DUT
0:07:31.505086	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0591, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 4cfa8976)
0:07:31.507086	LOG	Frame command sent to the DUT
0:07:31.508084	LOG	PULL_RESP: Protocol version = 02, Token = 5342, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1165795529, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAkQXggp8OPVVAMM+acNRT+9xvkmhaAztKZ6oLAieAx4+07I48nMGwBM8vaJLSe1QfI6G2k+ldTPqJdg==''}}
0:07:31.509083	LOG	Server ----------> DUT
0:07:31.512085	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:31.516084	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:36.388195	LOG	First uplink received. Open reception window.
0:07:36.498732	LOG	PUSH_ACK: 02 b1bc 01
0:07:36.500700	LOG	GPS Time from gateway: 1385119599617
0:07:36.501700	LOG	PUSH_DATA: Protocol version = 02, Token = b1bc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1168795261, 'time': '2023-11-27T11:26:20.617248Z', 'tmms': 1385119599617, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.8, 'foff': -3362, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA0ggCATQvxPUi5YTz2Gk='}]}
0:07:36.503701	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08d2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 84f3d869)
0:07:36.504700	LOG	Server <---------- DUT
0:07:36.506702	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0592, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 5e2c4a94)
0:07:36.508701	LOG	Frame command sent to the DUT
0:07:36.509700	LOG	PULL_RESP: Protocol version = 02, Token = 957e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1170795261, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAkgXgBHUknM1gG85NX8OZ0C5kpeZKG7s9v1DzqjrZeZ1v7oU6wxxlLpyD7r59Csa4c6Yrq9jtXixKlA==''}}
0:07:36.510700	LOG	Server ----------> DUT
0:07:36.513700	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:36.518292	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:40.709196	LOG	GPS Time updated: 1385119603937
0:07:40.710196	LOG	PULL_DATA: 02 e093 02 0016c001ff1025bf
0:07:40.712198	LOG	PULL_ACK: 02 e093 04
0:07:41.393825	LOG	First uplink received. Open reception window.
0:07:41.496326	LOG	PUSH_ACK: 02 6888 01
0:07:41.498295	LOG	GPS Time from gateway: 1385119604617
0:07:41.499294	LOG	PUSH_DATA: Protocol version = 02, Token = 6888, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1173795007, 'time': '2023-11-27T11:26:25.616993Z', 'tmms': 1385119604617, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3366, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA0wgCAMkmtaigFCE6F9M='}]}
0:07:41.500294	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08d3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 213a17d3)
0:07:41.502294	LOG	Server <---------- DUT
0:07:41.504295	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0593, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 77c280ee)
0:07:41.506296	LOG	Frame command sent to the DUT
0:07:41.507295	LOG	PULL_RESP: Protocol version = 02, Token = b52e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1175795007, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAkwXgEAN00oaZHBvHDDWWyZxMXeeacphCrROWKogdhAv1KY0cYSIY5ypyEkVKIBtgCW/bfbSad8KA7g=='}}
0:07:41.508295	LOG	Server ----------> DUT
0:07:41.511295	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:41.515295	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:46.388147	LOG	#**********CURRENT BEACON SENT**********#
0:07:46.389146	LOG	PULL_RESP: Protocol version = 02, Token = 1d62, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385119616000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAP49SvUUAAAAAAAAAAAA='}}
0:07:46.390148	LOG	Server ----------> DUT
0:07:46.392147	LOG	#**********#
0:07:46.401147	LOG	#**********NEXT BEACON QUEUED**********#
0:07:46.403148	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385119744000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAQI9SvGwAAAAAAAAAAAA='}}
0:07:46.404148	LOG	Server ----------> DUT
0:07:46.406206	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 00408f52, CRC1: bc6c, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385119744000
0:07:46.407184	LOG	#**********#
0:07:46.409185	LOG	Next BEACON scheduled at GPS time (ms): 1385119872000
0:07:46.410148	LOG	First uplink received. Open reception window.
0:07:46.412149	LOG	TX_ACK: 02 1d62 05 0016c001ff1025bf
0:07:46.513661	LOG	PUSH_ACK: 02 99f6 01
0:07:46.515660	LOG	GPS Time from gateway: 1385119609616
0:07:46.516660	LOG	PUSH_DATA: Protocol version = 02, Token = 99f6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1178794772, 'time': '2023-11-27T11:26:30.616756Z', 'tmms': 1385119609616, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3366, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA1AgCoG9UqPSknj1HF98='}]}
0:07:46.518660	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08d4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3d4717df)
0:07:46.519659	LOG	Server <---------- DUT
0:07:46.521659	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0594, FOpts:), FPort: e0, FRMPayload:

		07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: e4c874a8)
0:07:46.522659	LOG	Frame command sent to the DUT
0:07:46.524659	LOG	PULL_RESP: Protocol version = 02, Token = e194, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1180794772, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAAlAXgyiIIPfbAT0TPxZwShQ1sD3glLxCDLvX7sOh60KJWWus5d06Jx8cH5Cw2B+UEAXQMaE4q5Mh0qA=='}}
0:07:46.525659	LOG	Server ----------> DUT
0:07:46.528660	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:46.532675	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:50.728920	LOG	GPS Time updated: 1385119613932
0:07:50.729909	LOG	PULL_DATA: 02 fdc5 02 0016c001ff1025bf
0:07:50.731910	LOG	PULL_ACK: 02 fdc5 04
0:07:51.393798	LOG	First uplink received. Open reception window.
0:07:51.497677	LOG	PUSH_ACK: 02 2104 01
0:07:51.499648	LOG	GPS Time from gateway: 1385119614616
0:07:51.500644	LOG	PUSH_DATA: Protocol version = 02, Token = 2104, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1183794516, 'time': '2023-11-27T11:26:35.616501Z', 'tmms': 1385119614616, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3362, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA1QgCsNuO2+6gkn8/6cI='}]}
0:07:51.501644	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08d5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7f3fe9c2)
0:07:51.503645	LOG	Server <---------- DUT
0:07:51.505645	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0595, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 5ff2e303)
0:07:51.506645	LOG	Frame command sent to the DUT
0:07:51.508659	LOG	PULL_RESP: Protocol version = 02, Token = 4208, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1185794516, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAAlQXgZEnLlrTh2mXgO/yKPxHDXQjtHNryGl9K+vtaCNTkwOtLMhWojKLZO1OSyYBOZ3/n7r7JX/LjAw=='}}
0:07:51.509658	LOG	Server ----------> DUT
0:07:51.512646	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:51.516645	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:56.395958	LOG	First uplink received. Open reception window.
0:07:56.499571	LOG	PUSH_ACK: 02 44e2 01
0:07:56.501605	LOG	GPS Time from gateway: 1385119619616
0:07:56.502572	LOG	PUSH_DATA: Protocol version = 02, Token = 44e2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1188794294, 'time': '2023-11-27T11:26:40.616278Z', 'tmms': 1385119619616, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA1ggCUr6c/4jpfF0JaBs='}]}
0:07:56.503571	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08d6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5d09681b)
0:07:56.505572	LOG	Server <---------- DUT
0:07:56.507608	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0596, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 12420ce3)
0:07:56.508607	LOG	Frame command sent to the DUT

0:07:56.510573	LOG	PULL_RESP: Protocol version = 02, Token = 9ced, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1190794294, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAlgXghBVQn8lc8Q73sByzWXZ0aBxqzBRr9GY7oe5vvc3QzRkmKgISEcMju/ghMIn94UOO9Vh4EkIM4w==''}}
0:07:56.511572	LOG	Server ----------> DUT
0:07:56.514571	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:56.518574	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:00.918220	LOG	GPS Time updated: 1385119624139
0:08:00.919188	LOG	PULL_DATA: 02 019b 02 0016c001ff1025bf
0:08:00.921188	LOG	PULL_ACK: 02 019b 04
0:08:01.393188	LOG	First uplink received. Open reception window.
0:08:01.497622	LOG	PUSH_ACK: 02 dca5 01
0:08:01.499589	LOG	GPS Time from gateway: 1385119624616
0:08:01.500624	LOG	PUSH_DATA: Protocol version = 02, Token = dca5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1193794031, 'time': '2023-11-27T11:26:45.616014Z', 'tmms': 1385119624616, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3369, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA1wgCU4olAFNaLorWnKk='}]}
0:08:01.502604	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08d7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8ad69ca9)
0:08:01.503627	LOG	Server <---------- DUT
0:08:01.505627	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0597, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: ee8a53ae)
0:08:01.507591	LOG	Frame command sent to the DUT
0:08:01.508624	LOG	PULL_RESP: Protocol version = 02, Token = 970a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1195794031, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAlwXgTGq3J00pmQXpjjujfRk02dNy6cH95PE9dLMdN2pfKc365tzc/+pBKJAAY/UMOFEygfn97opTrg==''}}
0:08:01.509622	LOG	Server ----------> DUT
0:08:01.512590	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:01.516497	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:06.388715	LOG	First uplink received. Open reception window.
0:08:06.501302	LOG	PUSH_ACK: 02 1d70 01
0:08:06.503337	LOG	GPS Time from gateway: 1385119629615
0:08:06.504336	LOG	PUSH_DATA: Protocol version = 02, Token = 1d70, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1198793802, 'time': '2023-11-27T11:26:50.615785Z', 'tmms': 1385119629615, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3366, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA2AgCynX7qi2zt/A6kL0='}]}
0:08:06.505333	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08d8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f03a90bd)
0:08:06.507300	LOG	Server <---------- DUT
0:08:06.509303	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0598, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: cc6a40ef)
0:08:06.510334	LOG	Frame command sent to the DUT
0:08:06.512302	LOG	PULL_RESP: Protocol version = 02, Token = 5747, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1200793802, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data':

		'YAAAAAAAmAXgJh9iwxkLKt4R8IQ3Pl7ORt7oeLxPPSLzkQ215+VzMSLAekXoM2UpCyCch0hs9Z0gx+/WzGpA7w==''}}
0:08:06.513301	LOG	Server ----------> DUT
0:08:06.516302	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:06.520301	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:11.128414	LOG	GPS Time updated: 1385119634355
0:08:11.130418	LOG	PULL_DATA: 02 3fc6 02 0016c001ff1025bf
0:08:11.131412	LOG	PULL_ACK: 02 3fc6 04
0:08:11.391090	LOG	First uplink received. Open reception window.
0:08:11.501374	LOG	PUSH_ACK: 02 af93 01
0:08:11.503341	LOG	GPS Time from gateway: 1385119634615
0:08:11.504341	LOG	PUSH_DATA: Protocol version = 02, Token = af93, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1203793578, 'time': '2023-11-27T11:26:55.615560Z', 'tmms': 1385119634615, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3362, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA2QgCnZ7Le9zUE4BbFKg='}]}
0:08:11.505340	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08d9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 805b14a8)
0:08:11.507341	LOG	Server <---------- DUT
0:08:11.509341	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0599, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 60f4fc2f)
0:08:11.510340	LOG	Frame command sent to the DUT
0:08:11.512342	LOG	PULL_RESP: Protocol version = 02, Token = 86d8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1205793578, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAmQXgFFtNp1qyRcKJ6ge5kFcHGxVJ0hLTIQBQxP7t95QjmasJ3SoGJl3R0Juf1u8uHt6yfGLEYPT8Lw==''}}
0:08:11.513340	LOG	Server ----------> DUT
0:08:11.516344	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:11.520389	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:16.394625	LOG	First uplink received. Open reception window.
0:08:16.507720	LOG	PUSH_ACK: 02 1c7a 01
0:08:16.509688	LOG	GPS Time from gateway: 1385119639615
0:08:16.510688	LOG	PUSH_DATA: Protocol version = 02, Token = 1c7a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1208793310, 'time': '2023-11-27T11:27:00.615291Z', 'tmms': 1385119639615, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3362, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA2ggCY/kfKHfCFvMOFks='}]}
0:08:16.511688	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08da, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f30e164b)
0:08:16.513688	LOG	Server <---------- DUT
0:08:16.514688	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 059a, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 58557e0e)
0:08:16.516688	LOG	Frame command sent to the DUT
0:08:16.518688	LOG	PULL_RESP: Protocol version = 02, Token = 79b9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1210793310, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAmgXgW38lzdwkGP9ULSdsqtdbQOSDAH6k6XLfaPTUgL39syDJQ1rS6UHI8xnCuwaeLqACj/3wWFV+Dg==''}}
0:08:16.519688	LOG	Server ----------> DUT
0:08:16.522690	LOG	Send Test Command TxFramesCtrlReq process completed

0:08:16.525688	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:21.138544	LOG	GPS Time updated: 1385119644359
0:08:21.139540	LOG	PULL_DATA: 02 04fc 02 0016c001ff1025bf
0:08:21.141567	LOG	PULL_ACK: 02 04fc 04
0:08:21.387722	LOG	First uplink received. Open reception window.
0:08:21.496374	LOG	PUSH_ACK: 02 5db6 01
0:08:21.498340	LOG	GPS Time from gateway: 1385119644615
0:08:21.499339	LOG	PUSH_DATA: Protocol version = 02, Token = 5db6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1213793053, 'time': '2023-11-27T11:27:05.615032Z', 'tmms': 1385119644615, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3369, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA2wgCTZZsUy6UqH2Vggs='}]}
0:08:21.501341	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08db, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7d95820b)
0:08:21.502340	LOG	Server <---------- DUT
0:08:21.504845	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 059b, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 7e8ab2d0)
0:08:21.505851	LOG	Frame command sent to the DUT
0:08:21.507851	LOG	PULL_RESP: Protocol version = 02, Token = e86b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1215793053, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAmwXgHfKi+nIrJoI1GeQIRVBrGTAVqhmc0y8W9Hi1/KbKP8VFxCEIGlBizLPmifDVz8Bl9wZ4foqy0A=='}}
0:08:21.508849	LOG	Server ----------> DUT
0:08:21.511852	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:21.515905	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:26.389180	LOG	First uplink received. Open reception window.
0:08:26.502971	LOG	PUSH_ACK: 02 4920 01
0:08:26.505005	LOG	GPS Time from gateway: 1385119649614
0:08:26.506005	LOG	PUSH_DATA: Protocol version = 02, Token = 4920, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1218792824, 'time': '2023-11-27T11:27:10.614804Z', 'tmms': 1385119649614, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA3AgCxJ6d8xFnR7S1uHc='}]}
0:08:26.507974	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08dc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b4b5b877)
0:08:26.509005	LOG	Server <---------- DUT
0:08:26.511513	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 059c, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: fe275c26)
0:08:26.512515	LOG	Frame command sent to the DUT
0:08:26.514514	LOG	PULL_RESP: Protocol version = 02, Token = 5ebd, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1220792824, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAnAXgDEjrTUJlFzIEtoitIl+S3FQYMYlwnLRwsQWM4CQNHuBJU7iRaly3x/CMEkldLeofWsgY/idcJg=='}}
0:08:26.515513	LOG	Server ----------> DUT
0:08:26.518514	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:26.522514	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:31.137950	LOG	GPS Time updated: 1385119654363
0:08:31.139950	LOG	PULL_DATA: 02 c6e2 02 0016c001ff1025bf

0:08:31.140953	LOG	PULL_ACK: 02 c6e2 04
0:08:31.384076	LOG	First uplink received. Open reception window.
0:08:31.488419	LOG	PUSH_ACK: 02 16c3 01
0:08:31.490430	LOG	GPS Time from gateway: 1385119654614
0:08:31.491389	LOG	PUSH_DATA: Protocol version = 02, Token = 16c3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1223792606, 'time': '2023-11-27T11:27:15.614585Z', 'tmms': 1385119654614, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA3QgCCku3zxIwvFS80Fo='}]}
0:08:31.492420	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08dd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 54bcd05a)
0:08:31.494420	LOG	Server <---------- DUT
0:08:31.496386	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 059d, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: ee5c46ca)
0:08:31.497387	LOG	Frame command sent to the DUT
0:08:31.499387	LOG	PULL_RESP: Protocol version = 02, Token = ad80, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1225792606, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAnQXgOz80n0g+i3DSs4hp99M2bASi66s9xYlYE6oVSRIBQfhrjL7M6AV8MQqS39gJGSZ0t4kF7lxGyg=='}}
0:08:31.500386	LOG	Server ----------> DUT
0:08:31.503389	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:31.507396	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:36.384622	LOG	First uplink received. Open reception window.
0:08:36.493115	LOG	PUSH_ACK: 02 a737 01
0:08:36.495085	LOG	GPS Time from gateway: 1385119659614
0:08:36.496117	LOG	PUSH_DATA: Protocol version = 02, Token = a737, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1228792338, 'time': '2023-11-27T11:27:20.614316Z', 'tmms': 1385119659614, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3369, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA3ggCFn+Z+nd64WhtssM='}]}
0:08:36.498115	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08de, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 686db2c3)
0:08:36.499119	LOG	Server <---------- DUT
0:08:36.501085	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 059e, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: e6fc1ae4)
0:08:36.503086	LOG	Frame command sent to the DUT
0:08:36.504117	LOG	PULL_RESP: Protocol version = 02, Token = 4b8c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1230792338, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAngXgbKxyKgigcjQg5VfzHKtX0RxUqcYYgpG3PxMtmgir7YwgIn8pE2OUya8WyzpgVp+VQxu+5vwa5A=='}}
0:08:36.506121	LOG	Server ----------> DUT
0:08:36.508127	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:36.512161	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:41.338631	LOG	GPS Time updated: 1385119664568
0:08:41.339621	LOG	PULL_DATA: 02 c7e4 02 0016c001ff1025bf
0:08:41.341623	LOG	PULL_ACK: 02 c7e4 04
0:08:41.386737	LOG	First uplink received. Open reception window.
0:08:41.491545	LOG	PUSH_ACK: 02 500b 01

0:08:41.493512	LOG	GPS Time from gateway: 1385119664614
0:08:41.494546	LOG	PUSH_DATA: Protocol version = 02, Token = 500b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1233792115, 'time': '2023-11-27T11:27:25.614093Z', 'tmms': 1385119664614, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3366, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA3wgCYLTG9NtOLhn+u0w='}]}
0:08:41.495545	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08df, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 19febb4c)
0:08:41.497517	LOG	Server <---------- DUT
0:08:41.499523	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 059f, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: b386cf90)
0:08:41.501517	LOG	Frame command sent to the DUT
0:08:41.502544	LOG	PULL_RESP: Protocol version = 02, Token = 1a58, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1235792115, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAnwXgUNJlEvL3n9eWtsFZUdXT9b6pQCGa4b8H7mfEY0HMdfRLdegLFrwybd3+my5xiQfy1ZWAs4bPkA==''}}
0:08:41.504513	LOG	Server ----------> DUT
0:08:41.507513	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:41.511314	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:46.774479	LOG	First uplink received. Open reception window.
0:08:46.884663	LOG	PUSH_ACK: 02 c652 01
0:08:46.886628	LOG	GPS Time from gateway: 1385119669996
0:08:46.887628	LOG	PUSH_DATA: Protocol version = 02, Token = c652, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1239174735, 'time': '2023-11-27T11:27:30.996712Z', 'tmms': 1385119669996, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3366, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA4AgC1KUc/oBaGTi6IWU='}]}
0:08:46.888628	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08e0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 38ba2165)
0:08:46.890628	LOG	Server <---------- DUT
0:08:46.892628	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05a0, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 98fd3609)
0:08:46.893628	LOG	Frame command sent to the DUT
0:08:46.895629	LOG	PULL_RESP: Protocol version = 02, Token = 23a3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1241174735, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAoAXg7USQKlJKgu9V5EtAtAL6VQpMC3kP5GDzkCZ1K6hHMRjnAZ68ddSUqYJnMhf3dXm7U65HmP02CQ==''}}
0:08:46.896628	LOG	Server ----------> DUT
0:08:46.899631	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:46.903629	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:51.518668	LOG	GPS Time updated: 1385119674739
0:08:51.519696	LOG	PULL_DATA: 02 a6a2 02 0016c001ff1025bf
0:08:51.521706	LOG	PULL_ACK: 02 a6a2 04
0:08:51.551713	LOG	First uplink received. Open reception window.
0:08:51.654150	LOG	PUSH_ACK: 02 f7c3 01
0:08:51.656108	LOG	GPS Time from gateway: 1385119674778
0:08:51.657109	LOG	PUSH_DATA: Protocol version = 02, Token = f7c3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1243956652, 'time': '2023-11-27T11:27:35.778628Z', 'tmms': 1385119674778, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA4QgCC16gDmHWdmNHU34='}]}
0:08:51.659112	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08e1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6347537e)
0:08:51.660144	LOG	Server <---------- DUT
0:08:51.662143	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05a1, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 2f7beb7e)
0:08:51.664113	LOG	Frame command sent to the DUT
0:08:51.665142	LOG	PULL_RESP: Protocol version = 02, Token = e607, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1245956652, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAoQXgghgsVLHCOE/4OxnqmiKkQ4nk/TjThIbhP7YkH2tipjMHdh8Vso72KRDjwSvP7Y0gDpf8L3vrfg=='}}
0:08:51.666143	LOG	Server ----------> DUT
0:08:51.669144	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:51.673248	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:56.551790	LOG	First uplink received. Open reception window.
0:08:56.658328	LOG	PUSH_ACK: 02 8ac2 01
0:08:56.660323	LOG	GPS Time from gateway: 1385119679778
0:08:56.662310	LOG	PUSH_DATA: Protocol version = 02, Token = 8ac2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1248956426, 'time': '2023-11-27T11:27:40.778400Z', 'tmms': 1385119679778, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3366, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA4ggCgDfMX9wiR344bk4='}]}
0:08:56.663337	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08e2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7e386e4e)
0:08:56.665298	LOG	Server <---------- DUT
0:08:56.667295	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05a2, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: ca63e9c1)
0:08:56.668334	LOG	Frame command sent to the DUT
0:08:56.670331	LOG	PULL_RESP: Protocol version = 02, Token = e0c1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1250956426, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAogXgfdb5UyU2bScCZL4Iu+D73xZwPV0jkaYPefeL4mQlIYctTcEXzDhBtFf+wWURY4pREsgPymPpwQ=='}}
0:08:56.671329	LOG	Server ----------> DUT
0:08:56.674299	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:56.678296	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:01.553233	LOG	First uplink received. Open reception window.
0:09:01.661840	LOG	PUSH_ACK: 02 c9a6 01
0:09:01.663841	LOG	GPS Time from gateway: 1385119684778
0:09:01.664841	LOG	PUSH_DATA: Protocol version = 02, Token = c9a6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1253956193, 'time': '2023-11-27T11:27:45.778168Z', 'tmms': 1385119684778, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA4wgCjydDxNObt3axcV0='}]}
0:09:01.666809	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08e3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 76b1715d)
0:09:01.667842	LOG	Server <---------- DUT
0:09:01.669807	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05a3, FOpts:), FPort: e0, FRMPayload:

		07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: e3583ca1)
0:09:01.671808	LOG	Frame command sent to the DUT
0:09:01.672808	LOG	PULL_RESP: Protocol version = 02, Token = 27c5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1255956193, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAowXgGqu6TCFOLjhD3g985hAr3ZmuxUbYTdZiGawO1x2xi4rEI5s7fls8mqsaMutdzfIvmpcT41g8oQ==''}}
0:09:01.673842	LOG	Server ----------> DUT
0:09:01.676842	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:01.680717	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:06.557324	LOG	First uplink received. Open reception window.
0:09:06.667969	LOG	PUSH_ACK: 02 a29a 01
0:09:06.669968	LOG	GPS Time from gateway: 1385119689778
0:09:06.670967	LOG	PUSH_DATA: Protocol version = 02, Token = a29a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1258955963, 'time': '2023-11-27T11:27:50.777937Z', 'tmms': 1385119689778, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3369, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA5AgCfpAQOxZzDWT/Sh4='}]}
0:09:06.671971	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08e4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 64ff4a1e)
0:09:06.673935	LOG	Server <---------- DUT
0:09:06.675937	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05a4, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 9f2d25bb)
0:09:06.676970	LOG	Frame command sent to the DUT
0:09:06.678945	LOG	PULL_RESP: Protocol version = 02, Token = 0c44, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1260955963, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAApAXgOvQO+SsCF2lWZJjyl/Phw/sTnqVpY90Ag7Lx3fNBe0lMWwlADp18aEcBbjnNvtZbQfH8ny0luw==''}}
0:09:06.679934	LOG	Server ----------> DUT
0:09:06.682936	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:06.686949	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:11.553313	LOG	First uplink received. Open reception window.
0:09:11.665499	LOG	PUSH_ACK: 02 835b 01
0:09:11.667502	LOG	GPS Time from gateway: 1385119694777
0:09:11.668500	LOG	PUSH_DATA: Protocol version = 02, Token = 835b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1263955740, 'time': '2023-11-27T11:27:55.777713Z', 'tmms': 1385119694777, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3369, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA5QgCPuuS/yHQ/sRXiQQ='}]}
0:09:11.669468	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08e5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c4578904)
0:09:11.671500	LOG	Server <---------- DUT
0:09:11.673466	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05a5, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: dddcc89b)
0:09:11.674467	LOG	Frame command sent to the DUT
0:09:11.676481	LOG	PULL_RESP: Protocol version = 02, Token = 5fa8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1265955740, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data':

		'YAAAAAAApQXgWIZEjEPvVRNqxpZiUe+liMfNFpN0jNFj0y4urtI1v6ksMA3fgXNvSASxCK+xxL8SAI2x3dzImw==''}}
0:09:11.677467	LOG	Server ----------> DUT
0:09:11.680468	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:11.683893	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:16.557060	LOG	First uplink received. Open reception window.
0:09:16.669639	LOG	PUSH_ACK: 02 7b9e 01
0:09:16.671638	LOG	GPS Time from gateway: 1385119699777
0:09:16.672640	LOG	PUSH_DATA: Protocol version = 02, Token = 7b9e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1268955481, 'time': '2023-11-27T11:28:00.777454Z', 'tmms': 1385119699777, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA5ggC/P+o6n8+8Q1wd94='}]}
0:09:16.674639	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08e6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0d7077de)
0:09:16.675639	LOG	Server <---------- DUT
0:09:16.677639	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05a6, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: bad8aa72)
0:09:16.679638	LOG	Frame command sent to the DUT
0:09:16.680640	LOG	PULL_RESP: Protocol version = 02, Token = 2cbb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1270955481, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAApgXgJbJhyVwcgkFit/txoyKSOZzBjC5BiT9Wxt6y2oaHXqz6jrcpR+dQixt9aiIQBWPv71IOutiqcg==''}}
0:09:16.681639	LOG	Server ----------> DUT
0:09:16.684639	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:16.688639	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:21.551222	LOG	First uplink received. Open reception window.
0:09:21.666284	LOG	PUSH_ACK: 02 af92 01
0:09:21.668250	LOG	GPS Time from gateway: 1385119704777
0:09:21.669252	LOG	PUSH_DATA: Protocol version = 02, Token = af92, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1273955220, 'time': '2023-11-27T11:28:05.777192Z', 'tmms': 1385119704777, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3369, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA5wgCWWJvs2OrE0LUUvw='}]}
0:09:21.670282	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08e7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 42d452fc)
0:09:21.672283	LOG	Server <---------- DUT
0:09:21.674250	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05a7, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c893d48b)
0:09:21.675251	LOG	Frame command sent to the DUT
0:09:21.677284	LOG	PULL_RESP: Protocol version = 02, Token = c909, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1275955220, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAApwXg/WLBcyALkmkwDjslPOtuS2xaTtkbm3lO2oOEzhc7Inix2a2cVvH8BCNw+DVM8NrUNEpayJPUiw==''}}
0:09:21.678285	LOG	Server ----------> DUT
0:09:21.681284	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:21.685250	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:21.887207	LOG	GPS Time updated: 1385119705113
0:09:21.889195	LOG	PULL_DATA: 02 6157 02 0016c001ff1025bf

0:09:21.890171	LOG	PULL_ACK: 02 6157 04
0:09:26.551413	LOG	First uplink received. Open reception window.
0:09:26.653027	LOG	PUSH_ACK: 02 3b1a 01
0:09:26.655031	LOG	GPS Time from gateway: 1385119709777
0:09:26.656031	LOG	PUSH_DATA: Protocol version = 02, Token = 3b1a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1278954984, 'time': '2023-11-27T11:28:10.776955Z', 'tmms': 1385119709777, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA6AgCSOiFStrp3o6yq/4='}]}
0:09:26.658032	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08e8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8eb2abfe)
0:09:26.659032	LOG	Server <---------- DUT
0:09:26.661032	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05a8, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 77e28ffd)
0:09:26.663032	LOG	Frame command sent to the DUT
0:09:26.664031	LOG	PULL_RESP: Protocol version = 02, Token = a07c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1280954984, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAqAXgWsHFVzljmvik5jl36Cg5byJbDC2r3jBXu+fvJs6+YTepyT8kZQDCxfT51YVn5nLC4uMpd+KP/Q=='}}
0:09:26.666033	LOG	Server ----------> DUT
0:09:26.668536	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:26.672573	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:31.552973	LOG	First uplink received. Open reception window.
0:09:31.654885	LOG	PUSH_ACK: 02 3301 01
0:09:31.656887	LOG	GPS Time from gateway: 1385119714776
0:09:31.657885	LOG	PUSH_DATA: Protocol version = 02, Token = 3301, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1283954733, 'time': '2023-11-27T11:28:15.776702Z', 'tmms': 1385119714776, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA6QgCFS4vrm2zGUgW7NI='}]}
0:09:31.659923	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08e9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4816ecd2)
0:09:31.660923	LOG	Server <---------- DUT
0:09:31.662889	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05a9, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 3ae96c7e)
0:09:31.664891	LOG	Frame command sent to the DUT
0:09:31.666892	LOG	PULL_RESP: Protocol version = 02, Token = bcc5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1285954733, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAqQXgFB6PVkRu9ruZnsDVpRWQExfBeGXv9MhkK/cNQ5qvQfjfkEDkeuV9z0hgj2JRETibHPh9Oulsfg=='}}
0:09:31.667894	LOG	Server ----------> DUT
0:09:31.670893	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:31.675035	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:32.087545	LOG	GPS Time updated: 1385119715311
0:09:32.088544	LOG	PULL_DATA: 02 6cda 02 0016c001ff1025bf
0:09:32.090545	LOG	PULL_ACK: 02 6cda 04
0:09:36.554620	LOG	First uplink received. Open reception window.
0:09:36.661922	LOG	PUSH_ACK: 02 a363 01

0:09:36.663923	LOG	GPS Time from gateway: 1385119719776
0:09:36.664955	LOG	PUSH_DATA: Protocol version = 02, Token = a363, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1288954467, 'time': '2023-11-27T11:28:20.776437Z', 'tmms': 1385119719776, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3369, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA6ggCvjMEJGWHVEF836k='}]}
0:09:36.666924	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08ea, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 417cdfa9)
0:09:36.667955	LOG	Server <---------- DUT
0:09:36.669925	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05aa, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c5034c95)
0:09:36.671924	LOG	Frame command sent to the DUT
0:09:36.672957	LOG	PULL_RESP: Protocol version = 02, Token = b522, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1290954467, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAqgXgjoH+GACXyjgTeiPaATmsMsUutdGTGhL7PUMKH9axbbLf4v3BjhCV/zW4BGLPkyidOrC0xQNMlQ==''}}
0:09:36.673958	LOG	Server ----------> DUT
0:09:36.676956	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:36.680548	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:41.548691	LOG	First uplink received. Open reception window.
0:09:41.662260	LOG	PUSH_ACK: 02 9db5 01
0:09:41.664294	LOG	GPS Time from gateway: 1385119724776
0:09:41.665295	LOG	PUSH_DATA: Protocol version = 02, Token = 9db5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1293954213, 'time': '2023-11-27T11:28:25.776182Z', 'tmms': 1385119724776, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA6wgCXpxPHruq+2St/Bs='}]}
0:09:41.666295	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08eb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 64adfc1b)
0:09:41.668296	LOG	Server <---------- DUT
0:09:41.670299	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05ab, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 7e8c4144)
0:09:41.671301	LOG	Frame command sent to the DUT
0:09:41.673328	LOG	PULL_RESP: Protocol version = 02, Token = 9350, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1295954213, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAqwXgJg9gC9VoofN5XRxmbZ77jkffHXVcaZpkxkyW1FeC3HFydYw9zJsXTCHPfo95Tg+a9T/sfoxBRA==''}}
0:09:41.674333	LOG	Server ----------> DUT
0:09:41.677327	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:41.682304	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:42.097652	LOG	GPS Time updated: 1385119725325
0:09:42.099656	LOG	PULL_DATA: 02 9927 02 0016c001ff1025bf
0:09:42.100652	LOG	PULL_ACK: 02 9927 04
0:09:46.555037	LOG	First uplink received. Open reception window.
0:09:46.670596	LOG	PUSH_ACK: 02 7762 01
0:09:46.672631	LOG	GPS Time from gateway: 1385119729776
0:09:46.673633	LOG	PUSH_DATA: Protocol version = 02, Token = 7762, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1298953979, 'time': '2023-11-27T11:28:30.775947Z', 'tmms': 1385119729776, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA7AgCZIqc6gf3ELSRojU='}]}
0:09:46.674669	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08ec, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b491a235)
0:09:46.676673	LOG	Server <---------- DUT
0:09:46.678636	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05ac, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: d36c1f87)
0:09:46.679637	LOG	Frame command sent to the DUT
0:09:46.681638	LOG	PULL_RESP: Protocol version = 02, Token = df85, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1300953979, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAArAXgavchD+KxBsEae5ZQnc+a5EVNN54BriTiYvaTBse3hw91fmKGyCFyVpycejFTRpKe2MMi02wfhw=='}}
0:09:46.682637	LOG	Server ----------> DUT
0:09:46.685636	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:46.690212	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:51.552990	LOG	#**********CURRENT BEACON SENT**********#
0:09:51.554990	LOG	PULL_RESP: Protocol version = 02, Token = a748, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385119744000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAQI9SvGwAAAAAAAAAAA='}}
0:09:51.555990	LOG	Server ----------> DUT
0:09:51.557990	LOG	#**********#
0:09:51.568989	LOG	#**********NEXT BEACON QUEUED**********#
0:09:51.569990	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385119872000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAQI9ShLEAAAAAAAAAAA='}}
0:09:51.571990	LOG	Server ----------> DUT
0:09:51.573991	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 80408f52, CRC1: 84b1, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385119872000
0:09:51.574989	LOG	#**********#
0:09:51.575990	LOG	Next BEACON scheduled at GPS time (ms): 1385120000000
0:09:51.577990	LOG	First uplink received. Open reception window.
0:09:51.578989	LOG	TX_ACK: 02 a748 05 0016c001ff1025bf
0:09:51.686888	LOG	PUSH_ACK: 02 ceb4 01
0:09:51.688896	LOG	GPS Time from gateway: 1385119734775
0:09:51.689927	LOG	PUSH_DATA: Protocol version = 02, Token = ceb4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1303953749, 'time': '2023-11-27T11:28:35.775717Z', 'tmms': 1385119734775, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3369, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA7QgC6R5zvf1xyTAeBYg='}]}
0:09:51.691896	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08ed, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 301e0588)
0:09:51.692927	LOG	Server <---------- DUT
0:09:51.694433	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05ad, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: adaea283)

0:09:51.696438	LOG	Frame command sent to the DUT
0:09:51.697471	LOG	PULL_RESP: Protocol version = 02, Token = 4940, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1305953749, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAArQXgJQo+lzUdBK3Cxxnhp5ZVC/sXb6DucL/MQXnVkV6QQXv61noHhBBN4nVeV32CrvjM1nzgra6igw==''}}
0:09:51.698474	LOG	Server ----------> DUT
0:09:51.701471	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:51.705473	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:52.117652	LOG	GPS Time updated: 1385119735313
0:09:52.118652	LOG	PULL_DATA: 02 2f70 02 0016c001ff1025bf
0:09:52.119655	LOG	PULL_ACK: 02 2f70 04
0:09:56.547375	LOG	First uplink received. Open reception window.
0:09:56.651072	LOG	PUSH_ACK: 02 cb26 01
0:09:56.653042	LOG	GPS Time from gateway: 1385119739775
0:09:56.655041	LOG	PUSH_DATA: Protocol version = 02, Token = cb26, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1308953489, 'time': '2023-11-27T11:28:40.775456Z', 'tmms': 1385119739775, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA7ggCXGBKL1qmY6DFW4g='}]}
0:09:56.656040	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08ee, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a0c55b88)
0:09:56.658041	LOG	Server <---------- DUT
0:09:56.660041	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05ae, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: f9f9bd28)
0:09:56.662043	LOG	Frame command sent to the DUT
0:09:56.663040	LOG	PULL_RESP: Protocol version = 02, Token = df44, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1310953489, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAArgXgvOqVWqhwjvVJN40XhBm0PgWI8Kl9PTBmNnZbeKbgUzCiykqA4isfG0E+shqlG4vXiTMl+fm9KA==''}}
0:09:56.665041	LOG	Server ----------> DUT
0:09:56.668041	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:56.672054	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:01.548520	LOG	First uplink received. Open reception window.
0:10:01.649088	LOG	PUSH_ACK: 02 8047 01
0:10:01.651059	LOG	GPS Time from gateway: 1385119744775
0:10:01.652056	LOG	PUSH_DATA: Protocol version = 02, Token = 8047, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1313953233, 'time': '2023-11-27T11:28:45.775199Z', 'tmms': 1385119744775, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA7wgC4EaC2oD7Kh8bgS4='}]}
0:10:01.653057	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08ef, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1f1b812e)
0:10:01.655057	LOG	Server <---------- DUT
0:10:01.657057	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05af, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 17ee6444)
0:10:01.658056	LOG	Frame command sent to the DUT
0:10:01.660070	LOG	PULL_RESP: Protocol version = 02, Token = 1c2d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1315953233, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True,

		'size': 64, 'data': 'YAAAAAAArwXguSXwYBkMflmcCR8UFzW3OVVeN/CHbBDawm0YpsHzbEV6Spt6aiKCf+6u+yXpgj3W376IF+5kRA==''}}
0:10:01.661056	LOG	Server ----------> DUT
0:10:01.664058	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:01.668058	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:02.287480	LOG	GPS Time updated: 1385119745513
0:10:02.288480	LOG	PULL_DATA: 02 c42f 02 0016c001ff1025bf
0:10:02.289485	LOG	PULL_ACK: 02 c42f 04
0:10:06.926163	LOG	First uplink received. Open reception window.
0:10:07.041976	LOG	PUSH_ACK: 02 d925 01
0:10:07.043978	LOG	GPS Time from gateway: 1385119750157
0:10:07.044981	LOG	PUSH_DATA: Protocol version = 02, Token = d925, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1319335294, 'time': '2023-11-27T11:28:51.157259Z', 'tmms': 1385119750157, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA8AgC4Ef3d7AIRrF92ho='}]}
0:10:07.046990	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08f0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b17dda1a)
0:10:07.047978	LOG	Server <---------- DUT
0:10:07.049977	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05b0, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 06e2cff0)
0:10:07.051977	LOG	Frame command sent to the DUT
0:10:07.052978	LOG	PULL_RESP: Protocol version = 02, Token = 8df5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1321335294, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAsAXgj6mv08aiz27hah8r+uXc+ugX+LSDy0MgvfXG6/tXw8gJ1S0d7DrNwVakCX56sr3LCku5BuLP8A==''}}
0:10:07.054978	LOG	Server ----------> DUT
0:10:07.057978	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:07.061018	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:11.708357	LOG	First uplink received. Open reception window.
0:10:11.815387	LOG	PUSH_ACK: 02 86a2 01
0:10:11.818039	LOG	GPS Time from gateway: 1385119754939
0:10:11.819690	LOG	PUSH_DATA: Protocol version = 02, Token = 86a2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1324117743, 'time': '2023-11-27T11:28:55.939708Z', 'tmms': 1385119754939, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA8QgCoeXTyLWH/n2hwT8='}]}
0:10:11.821332	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08f1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7da1c13f)
0:10:11.822428	LOG	Server <---------- DUT
0:10:11.824645	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05b1, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 265fecd3)
0:10:11.826371	LOG	Frame command sent to the DUT
0:10:11.827426	LOG	PULL_RESP: Protocol version = 02, Token = b65d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1326117743, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAsQXgh5tjMX/RM69Zy0LD/v0KmcB5wFbjoAMDcgzmWyU4ZzplcctXBPrHZnQ78XV7LlwJw97EJl/s0w==''}}
0:10:11.829078	LOG	Server ----------> DUT

0:10:11.831783	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:11.834827	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:12.457010	LOG	GPS Time updated: 1385119755688
0:10:12.459042	LOG	PULL_DATA: 02 4dc1 02 0016c001ff1025bf
0:10:12.460004	LOG	PULL_ACK: 02 4dc1 04
0:10:16.713322	LOG	First uplink received. Open reception window.
0:10:16.819575	LOG	PUSH_ACK: 02 bc80 01
0:10:16.822063	LOG	GPS Time from gateway: 1385119759939
0:10:16.823793	LOG	PUSH_DATA: Protocol version = 02, Token = bc80, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1329117482, 'time': '2023-11-27T11:29:00.939446Z', 'tmms': 1385119759939, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3374, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA8ggCe01VjbSZTFC+S6Y='}]}
0:10:16.825388	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08f2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 50be4ba6)
0:10:16.826537	LOG	Server <---------- DUT
0:10:16.828755	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05b2, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: dd647bfd)
0:10:16.830429	LOG	Frame command sent to the DUT
0:10:16.832067	LOG	PULL_RESP: Protocol version = 02, Token = cf71, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1331117482, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAsgXggRoBTfaAkElWc6gWNZa1fkLIa7mpB7LBJ5Pl16SeI2dIruNp9YEzUz3fRD1gPRqGTvUD3WR7/Q=='}}
0:10:16.832621	LOG	Server ----------> DUT
0:10:16.835965	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:16.839420	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:21.712059	LOG	First uplink received. Open reception window.
0:10:21.818025	LOG	PUSH_ACK: 02 c228 01
0:10:21.820868	LOG	GPS Time from gateway: 1385119764939
0:10:21.822229	LOG	PUSH_DATA: Protocol version = 02, Token = c228, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1334117230, 'time': '2023-11-27T11:29:05.939193Z', 'tmms': 1385119764939, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA8wgCrwO0W1Y6zye6ek4='}]}
0:10:21.823818	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08f3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 27ba7a4e)
0:10:21.825494	LOG	Server <---------- DUT
0:10:21.827161	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05b3, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 99446548)
0:10:21.828842	LOG	Frame command sent to the DUT
0:10:21.830449	LOG	PULL_RESP: Protocol version = 02, Token = baa3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1336117230, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAswXgjxPGhfxKc80e3E+ZXYPkfGQsSXZDmdCorwx+JPG/H43/VZTt/3IFUxVRo7qOCXHKG6jnmURlSA=='}}
0:10:21.832005	LOG	Server ----------> DUT
0:10:21.834747	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:21.838251	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:22.677238	LOG	GPS Time updated: 1385119765904

0:10:22.678241	LOG	PULL_DATA: 02 5a65 02 0016c001ff1025bf
0:10:22.680244	LOG	PULL_ACK: 02 5a65 04
0:10:26.717536	LOG	First uplink received. Open reception window.
0:10:26.820208	LOG	PUSH_ACK: 02 1b24 01
0:10:26.822674	LOG	GPS Time from gateway: 1385119769939
0:10:26.824025	LOG	PUSH_DATA: Protocol version = 02, Token = 1b24, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1339117005, 'time': '2023-11-27T11:29:10.938968Z', 'tmms': 1385119769939, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA9AgCytNB0m841MqlQAI='}]}
0:10:26.825630	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08f4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: caa54002)
0:10:26.826714	LOG	Server <---------- DUT
0:10:26.828874	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05b4, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 11bb4972)
0:10:26.830687	LOG	Frame command sent to the DUT
0:10:26.832279	LOG	PULL_RESP: Protocol version = 02, Token = 31a7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1341117005, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAtAXgugeB2gxkhqRVohGPxgSsoGXzh/2qNZp8HAK/6QF/JN58ji93o08tUrs9moflOta9uaOvEbtJcg==''}}
0:10:26.832783	LOG	Server ----------> DUT
0:10:26.835787	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:26.839836	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:31.715338	LOG	First uplink received. Open reception window.
0:10:31.816005	LOG	PUSH_ACK: 02 1f92 01
0:10:31.818357	LOG	GPS Time from gateway: 1385119774938
0:10:31.820345	LOG	PUSH_DATA: Protocol version = 02, Token = 1f92, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1344116745, 'time': '2023-11-27T11:29:15.938707Z', 'tmms': 1385119774938, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3369, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA9QgC4N6ijq5cDE9xY14='}]}
0:10:31.821954	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08f5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4f71635e)
0:10:31.823164	LOG	Server <---------- DUT
0:10:31.824872	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05b5, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 83b18558)
0:10:31.826830	LOG	Frame command sent to the DUT
0:10:31.827869	LOG	PULL_RESP: Protocol version = 02, Token = 7b02, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1346116745, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAtQXg7kkVDECwkvp5WbborWhsEDrNV8oMAVt5sWPCvUjNvY7atluSwsdUzTRyIS0cAAeYqZHBg7GFWA==''}}
0:10:31.828877	LOG	Server ----------> DUT
0:10:31.832873	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:31.835483	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:32.877175	LOG	GPS Time updated: 1385119776099
0:10:32.878211	LOG	PULL_DATA: 02 86ed 02 0016c001ff1025bf
0:10:32.880181	LOG	PULL_ACK: 02 86ed 04
0:10:36.712860	LOG	First uplink received. Open reception window.

0:10:36.823832	LOG	PUSH_ACK: 02 46b6 01
0:10:36.825836	LOG	GPS Time from gateway: 1385119779938
0:10:36.826835	LOG	PUSH_DATA: Protocol version = 02, Token = 46b6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1349116485, 'time': '2023-11-27T11:29:20.938446Z', 'tmms': 1385119779938, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA9ggCNb2/Of7WAquVAPA='}]}
0:10:36.828838	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08f6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ab9500f0)
0:10:36.829867	LOG	Server <---------- DUT
0:10:36.831836	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05b6, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 0d479223)
0:10:36.833875	LOG	Frame command sent to the DUT
0:10:36.834867	LOG	PULL_RESP: Protocol version = 02, Token = eadd, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1351116485, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAtgXgb46YZaZOlZ7RCUJ6bWSIgAosXJg1D6DbcabruADhIof9GgrPgVZBYlzpxAtf4cQIFVbHDUeSIw=='}}
0:10:36.836841	LOG	Server ----------> DUT
0:10:36.840052	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:36.843016	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:41.711022	LOG	First uplink received. Open reception window.
0:10:41.822851	LOG	PUSH_ACK: 02 5e94 01
0:10:41.824853	LOG	GPS Time from gateway: 1385119784938
0:10:41.825851	LOG	PUSH_DATA: Protocol version = 02, Token = 5e94, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1354116228, 'time': '2023-11-27T11:29:25.938187Z', 'tmms': 1385119784938, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA9wgCKB9QLg9uR+8GUwg='}]}
0:10:41.827852	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08f7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ef065308)
0:10:41.828852	LOG	Server <---------- DUT
0:10:41.830858	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05b7, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: cd5a118c)
0:10:41.831856	LOG	Frame command sent to the DUT
0:10:41.833857	LOG	PULL_RESP: Protocol version = 02, Token = b99f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1356116228, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAtwXg50EYImfwZjk8jOmabK743VkLgkGVQjg8T8fEzqVKAbsVNGMVWxiItke22EO9F4gqTdFtzVoRjA=='}}
0:10:41.834857	LOG	Server ----------> DUT
0:10:41.837858	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:41.841892	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:42.886982	LOG	GPS Time updated: 1385119786113
0:10:42.888982	LOG	PULL_DATA: 02 6929 02 0016c001ff1025bf
0:10:42.889984	LOG	PULL_ACK: 02 6929 04
0:10:46.715798	LOG	First uplink received. Open reception window.
0:10:46.828154	LOG	PUSH_ACK: 02 bae9 01
0:10:46.830155	LOG	GPS Time from gateway: 1385119789937
0:10:46.831158	LOG	PUSH_DATA: Protocol version = 02, Token = bae9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1359115965, 'time': '2023-11-27T11:29:30.937925Z',

		'tmms': 1385119789937, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA+AgC9xVXl4d0tMvJo+k='}]}
0:10:46.833155	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08f8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: cbc9a3e9)
0:10:46.834162	LOG	Server <---------- DUT
0:10:46.836159	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05b8, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 5f820371)
0:10:46.837159	LOG	Frame command sent to the DUT
0:10:46.839160	LOG	PULL_RESP: Protocol version = 02, Token = a5fe, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1361115965, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAuAXg1ngryq8WxQu/p2w7EHoj7J1jbFkGhD9G2K4B7I0vYxVv6O+l7wzF9dx6J6VOeE8HnxdjX4IDcQ=='}}
0:10:46.840163	LOG	Server ----------> DUT
0:10:46.844173	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:46.847195	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:51.707161	LOG	First uplink received. Open reception window.
0:10:51.809731	LOG	PUSH_ACK: 02 707e 01
0:10:51.812263	LOG	GPS Time from gateway: 1385119794937
0:10:51.814021	LOG	PUSH_DATA: Protocol version = 02, Token = 707e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1364115706, 'time': '2023-11-27T11:29:35.937665Z', 'tmms': 1385119794937, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA+QgCdCKUiU2dkkWFj9k='}]}
0:10:51.815398	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08f9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 45858fd9)
0:10:51.816534	LOG	Server <---------- DUT
0:10:51.818724	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05b9, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 10059a35)
0:10:51.820321	LOG	Frame command sent to the DUT
0:10:51.821953	LOG	PULL_RESP: Protocol version = 02, Token = b589, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1366115706, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAuQXgPwvYz6+89YP4j1tkE69tyw2QYEA0cGGNCw9n7wSgLNYuPP4UkyPzsfaw3FN0q1vCnHcAEAWaNQ=='}}
0:10:51.822498	LOG	Server ----------> DUT
0:10:51.825502	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:51.829536	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:53.077431	LOG	GPS Time updated: 1385119796307
0:10:53.078433	LOG	PULL_DATA: 02 1849 02 0016c001ff1025bf
0:10:53.080432	LOG	PULL_ACK: 02 1849 04
0:10:56.714072	LOG	First uplink received. Open reception window.
0:10:56.817590	LOG	PUSH_ACK: 02 ecf0 01
0:10:56.820261	LOG	GPS Time from gateway: 1385119799937
0:10:56.821390	LOG	PUSH_DATA: Protocol version = 02, Token = ecf0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1369115449, 'time': '2023-11-27T11:29:40.937407Z', 'tmms': 1385119799937, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3369, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA+ggCUiovv4DQb+LIc7U='}]}

0:10:56.822824	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08fa, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e2c873b5)
0:10:56.824559	LOG	Server <---------- DUT
0:10:56.826628	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05ba, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 6165a09a)
0:10:56.828208	LOG	Frame command sent to the DUT
0:10:56.829920	LOG	PULL_RESP: Protocol version = 02, Token = 74a2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1371115449, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAugXgyCld9+T8RadB+dTK41CoG0IxkWimZXPKhEgKqw3u7lh13D8aBfvxp1Movb8kWW8Cr3QrYWWgmg==''}}
0:10:56.831429	LOG	Server ----------> DUT
0:10:56.834429	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:56.837465	LOG	Send Test Command TxFramesCtrlReq process starts
0:11:01.713520	LOG	First uplink received. Open reception window.
0:11:01.817134	LOG	PUSH_ACK: 02 60a8 01
0:11:01.819959	LOG	GPS Time from gateway: 1385119804937
0:11:01.821874	LOG	PUSH_DATA: Protocol version = 02, Token = 60a8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1374115186, 'time': '2023-11-27T11:29:45.937144Z', 'tmms': 1385119804937, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3374, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA+wgCpp2vQ68saV2E/wE='}]}
0:11:01.823009	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08fb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5d84ff01)
0:11:01.824639	LOG	Server <---------- DUT
0:11:01.826271	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05bb, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c390357b)
0:11:01.827906	LOG	Frame command sent to the DUT
0:11:01.829614	LOG	PULL_RESP: Protocol version = 02, Token = 737b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1376115186, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAuwXgMgvloqwpBqOISYZpzM7ATj8reGXSnrIHxocJqttXosWn9d7MOoXG5oyquBOqrlglObDrw5A1ew==''}}
0:11:01.831126	LOG	Server ----------> DUT
0:11:01.834125	LOG	Send Test Command TxFramesCtrlReq process completed
0:11:01.837160	LOG	Send Test Command TxFramesCtrlReq process starts
0:11:03.086465	LOG	GPS Time updated: 1385119806311
0:11:03.088429	LOG	PULL_DATA: 02 7123 02 0016c001ff1025bf
0:11:03.090427	LOG	PULL_ACK: 02 7123 04
0:11:06.710853	LOG	First uplink received. Open reception window.
0:11:06.824696	LOG	PUSH_ACK: 02 d1cb 01
0:11:06.826698	LOG	GPS Time from gateway: 1385119809936
0:11:06.827697	LOG	PUSH_DATA: Protocol version = 02, Token = d1cb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1379114963, 'time': '2023-11-27T11:29:50.936920Z', 'tmms': 1385119809936, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA/AgCmvEPTGjaZP0ZGMI='}]}
0:11:06.829698	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08fc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fd1918c2)
0:11:06.830697	LOG	Server <---------- DUT

0:11:06.832699	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05bc, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 3d34639d)
0:11:06.833696	LOG	Frame command sent to the DUT
0:11:06.835698	LOG	PULL_RESP: Protocol version = 02, Token = 21e6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1381114963, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAvAXgUqHzpIAjj7enL6cd54GVN/2K0hnGp+VV7DU0djaw42lxGn25D+AmiogSQ9wX0u1D8hHrPTRjnQ==\'}}
0:11:06.836698	LOG	Server ----------> DUT
0:11:06.839698	LOG	Send Test Command TxFramesCtrlReq process completed
0:11:06.843658	LOG	Send Test Command TxFramesCtrlReq process starts
0:11:11.709501	LOG	First uplink received. Open reception window.
0:11:11.811139	LOG	PUSH_ACK: 02 885c 01
0:11:11.813579	LOG	GPS Time from gateway: 1385119814936
0:11:11.815184	LOG	PUSH_DATA: Protocol version = 02, Token = 885c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1384114691, 'time': '2023-11-27T11:29:55.936647Z', 'tmms': 1385119814936, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA/QgCbUIQHC1PPifM6HU='}]}
0:11:11.816822	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08fd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 27cce875)
0:11:11.818468	LOG	Server <---------- DUT
0:11:11.820611	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05bd, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: cfed3bfd)
0:11:11.821718	LOG	Frame command sent to the DUT
0:11:11.823441	LOG	PULL_RESP: Protocol version = 02, Token = 82b8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1386114691, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAvQXgGAAhhiMePpT8d16Dvjb2zQQVZ6zqWPiE65pj1LgmNV7Y+4M1n5sMV4/PY/66+rhZ6FJez+07/Q==\'}}
0:11:11.824950	LOG	Server ----------> DUT
0:11:11.827952	LOG	Send Test Command TxFramesCtrlReq process completed
0:11:11.831471	LOG	Send Test Command TxFramesCtrlReq process starts
0:11:13.297011	LOG	GPS Time updated: 1385119816524
0:11:13.297992	LOG	PULL_DATA: 02 c3a3 02 0016c001ff1025bf
0:11:13.299993	LOG	PULL_ACK: 02 c3a3 04
0:11:16.712369	LOG	First uplink received. Open reception window.
0:11:16.817003	LOG	PUSH_ACK: 02 81e3 01
0:11:16.819621	LOG	GPS Time from gateway: 1385119819936
0:11:16.821433	LOG	PUSH_DATA: Protocol version = 02, Token = 81e3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1389114440, 'time': '2023-11-27T11:30:00.936394Z', 'tmms': 1385119819936, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3374, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA/ggCREAGoa80YLyRpbo='}]}
0:11:16.822534	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08fe, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: bc91a5ba)
0:11:16.824191	LOG	Server <---------- DUT
0:11:16.825761	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05be, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 89e5477c)

0:11:16.827491	LOG	Frame command sent to the DUT
0:11:16.829194	LOG	PULL_RESP: Protocol version = 02, Token = 54c0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1391114440, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAvgXgjtSuTis86taO4YjR+/pMKOHrpfT+FQZcYLDFuvlR5TnmYtdTrb+5QIg3EhF8XIbx71M7ieVHfA==''}}
0:11:16.830199	LOG	Server ----------> DUT
0:11:16.833233	LOG	Send Test Command TxFramesCtrlReq process completed
0:11:16.837142	LOG	Send Test Command TxFramesCtrlReq process starts
0:11:21.706423	LOG	First uplink received. Open reception window.
0:11:21.817950	LOG	PUSH_ACK: 02 3607 01
0:11:21.819844	LOG	GPS Time from gateway: 1385119824936
0:11:21.821474	LOG	PUSH_DATA: Protocol version = 02, Token = 3607, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1394114210, 'time': '2023-11-27T11:30:05.936165Z', 'tmms': 1385119824936, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA/wgCm4keEDeRagXj5rw='}]}
0:11:21.823121	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 08ff, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 05e3e6bc)
0:11:21.824280	LOG	Server <---------- DUT
0:11:21.825944	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05bf, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 1fdc119a)
0:11:21.827627	LOG	Frame command sent to the DUT
0:11:21.829239	LOG	PULL_RESP: Protocol version = 02, Token = 63e7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1396114210, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAvwXg0zS84/AlS1CLG3r0LsLuunI75YjrHprGWhJ6Z26BjnEzvQ7E1mvC4qox6BM1fy33Fuj7H9wRmg==''}}
0:11:21.830862	LOG	Server ----------> DUT
0:11:21.832867	LOG	Send Test Command TxFramesCtrlReq process completed
0:11:21.837406	LOG	Step 06-07
0:11:21.839945	LOG	Send Test Command RxAppCntReq process starts
0:11:23.506915	LOG	GPS Time updated: 1385119826736
0:11:23.507880	LOG	PULL_DATA: 02 d07c 02 0016c001ff1025bf
0:11:23.509880	LOG	PULL_ACK: 02 d07c 04
0:11:27.095201	LOG	First uplink received. Open reception window.
0:11:27.205793	LOG	PUSH_ACK: 02 1126 01
0:11:27.207775	LOG	GPS Time from gateway: 1385119830318
0:11:27.208776	LOG	PUSH_DATA: Protocol version = 02, Token = 1126, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1399496423, 'time': '2023-11-27T11:30:11.318377Z', 'tmms': 1385119830318, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3374, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAAAkCZoSsiXs9BtZdMIk='}]}
0:11:27.210776	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0900, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d65d3089)
0:11:27.211811	LOG	Server <---------- DUT
0:11:27.213809	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05c0, FOpts:), FPort: e0, FRMPayload: 09), MIC: b1d7aad2)
0:11:27.214812	LOG	Frame command sent to the DUT
0:11:27.215809	LOG	PULL_RESP: Protocol version = 02, Token = efdc, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1401496423, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAwAXgKLHXqtI='}}

0:11:27.217835	LOG	Server ----------> DUT
0:11:27.220776	LOG	TX_ACK: 02 efdc 05 0016c001ff1025bf
0:11:29.755939	LOG	First uplink received. Open reception window.
0:11:29.865159	LOG	PUSH_ACK: 02 58cb 01
0:11:29.867159	LOG	GPS Time from gateway: 1385119832982
0:11:29.869134	LOG	PUSH_DATA: Protocol version = 02, Token = 58cb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1402160472, 'time': '2023-11-27T11:30:13.982426Z', 'tmms': 1385119832982, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3377, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAAQngexLv/AO/dg=='}]}
0:11:29.870125	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0901, FOpts:), FPort: e0, FRMPayload: 093e04, MIC: fc03bf76)
0:11:29.871129	LOG	Server <---------- DUT
0:11:29.873126	LOG	Frame Command Payload in the Answer: 093e04
0:11:29.877127	LOG	RX Count received by DUT: 1086
0:11:29.879126	LOG	Send Test Command RxAppCntReq process completed
0:11:29.885955	LOG	End Test Step: Test packet error rate for SF11BW125 using RX2 window
0:11:29.889991	LOG	Partial Verdict: PASS
0:11:29.892989	LOG	==========
0:11:29.897566	LOG	==========
0:11:29.899566	LOG	Start Test Step: Test packet error rate for SF10BW125 using RX2 window
0:11:29.910386	LOG	Step 01-03
0:11:29.914385	LOG	Send RXParamSetupReq process starts
0:11:33.516578	LOG	GPS Time updated: 1385119836743
0:11:33.518579	LOG	PULL_DATA: 02 0fc8 02 0016c001ff1025bf
0:11:33.519571	LOG	PULL_ACK: 02 0fc8 04
0:11:36.878494	LOG	First uplink received. Open reception window.
0:11:36.992044	LOG	PUSH_ACK: 02 4a28 01
0:11:36.994045	LOG	GPS Time from gateway: 1385119840100
0:11:36.995046	LOG	PUSH_DATA: Protocol version = 02, Token = 4a28, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1409278490, 'time': '2023-11-27T11:30:21.100443Z', 'tmms': 1385119840100, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAAgkCW8cXZR0xtdKndTU='}]}
0:11:36.997048	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0902, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d2a77535)
0:11:36.998054	LOG	Server <---------- DUT
0:11:37.000079	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05c1, FOpts:), FPort: 00, FRMPayload: 0502d2ad84), MIC: 8e640c1d)
0:11:37.001079	LOG	PULL_RESP: Protocol version = 02, Token = 70b8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1411278490, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAwQUAkEounyGOZAwd'}}
0:11:37.002615	LOG	Server ----------> DUT
0:11:37.006653	LOG	TX_ACK: 02 70b8 05 0016c001ff1025bf
0:11:41.874494	LOG	First uplink received. Open reception window.
0:11:41.976783	LOG	PUSH_ACK: 02 12ed 01
0:11:41.978749	LOG	GPS Time from gateway: 1385119845100
0:11:41.979752	LOG	PUSH_DATA: Protocol version = 02, Token = 12ed, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1414278367, 'time': '2023-11-27T11:30:26.100319Z', 'tmms': 1385119845100, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3370, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCAwkFBwJtVODG+SpqeNX7vw=='}]}
0:11:41.981799	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0903, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 78d5fbbf)
0:11:41.982750	LOG	Server <---------- DUT

0:11:41.984784	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:11:41.985753	LOG	Command Answer: 0507
0:11:41.998093	LOG	MAC command communication completed
0:11:42.002348	LOG	Step 03-04
0:11:42.012893	LOG	Send Test Command RxAppCntReq process starts
0:11:43.716160	LOG	GPS Time updated: 1385119846943
0:11:43.718128	LOG	PULL_DATA: 02 c7fe 02 0016c001ff1025bf
0:11:43.719127	LOG	PULL_ACK: 02 c7fe 04
0:11:46.875938	LOG	First uplink received. Open reception window.
0:11:46.979464	LOG	PUSH_ACK: 02 de27 01
0:11:46.981467	LOG	GPS Time from gateway: 1385119850100
0:11:46.982465	LOG	PUSH_DATA: Protocol version = 02, Token = de27, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1419278113, 'time': '2023-11-27T11:30:31.100063Z', 'tmms': 1385119850100, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3370, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCBAkFBwLK+3gpAi5Y74l8vw==}]}
0:11:46.983465	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0904, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: ef897cbf)
0:11:46.985465	LOG	Server <---------- DUT
0:11:46.987502	LOG	MAC Command RXParamSetupAns received
0:11:46.989465	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05c2, FOpts:), FPort: e0, FRMPayload: 09), MIC: 8e4a0e9c)
0:11:46.990464	LOG	Frame command sent to the DUT
0:11:46.992466	LOG	PULL_RESP: Protocol version = 02, Token = b9b1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1421278113, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAwgXgqo5KDpw='}}
0:11:46.993466	LOG	Server ----------> DUT
0:11:46.996709	LOG	TX_ACK: 02 b9b1 05 0016c001ff1025bf
0:11:49.239809	LOG	First uplink received. Open reception window.
0:11:49.349417	LOG	PUSH_ACK: 02 a64f 01
0:11:49.351451	LOG	GPS Time from gateway: 1385119852468
0:11:49.352452	LOG	PUSH_DATA: Protocol version = 02, Token = a64f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1421646703, 'time': '2023-11-27T11:30:33.468654Z', 'tmms': 1385119852468, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3377, 'rssi': -51, 'size': 16, 'data': 'QAAAAACABQngsqkmyQJGtA==}]}
0:11:49.353462	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0905, FOpts:), FPort: e0, FRMPayload: 093f04, MIC: c90246b4)
0:11:49.355420	LOG	Server <---------- DUT
0:11:49.356455	LOG	Frame Command Payload in the Answer: 093f04
0:11:49.360452	LOG	RX Count received by DUT: 1087
0:11:49.363421	LOG	Send Test Command RxAppCntReq process completed
0:11:49.366420	LOG	Step 05
0:11:49.370454	LOG	Send Test Command TxFramesCtrlReq process starts
0:11:51.878191	LOG	First uplink received. Open reception window.
0:11:51.993827	LOG	PUSH_ACK: 02 4a77 01
0:11:51.995795	LOG	GPS Time from gateway: 1385119855099
0:11:51.996795	LOG	PUSH_DATA: Protocol version = 02, Token = 4a77, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1424277752, 'time': '2023-11-27T11:30:36.099701Z', 'tmms': 1385119855099, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3374, 'rssi': -50, 'size': 20, 'data': 'QAAAAACABgkCqFu03VudklEBxVc='}]}
0:11:51.998796	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0906, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5101c557)

0:11:51.999795	LOG	Server <---------- DUT
0:11:52.001795	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05c3, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: cd58ef74)
0:11:52.003796	LOG	Frame command sent to the DUT
0:11:52.004800	LOG	PULL_RESP: Protocol version = 02, Token = b013, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1426277752, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAwwXgttAkvNhVbm5y5YnFPMWVcSXapeGo/deglcexX77jh1wq1/KD7J2pyOLh3AAWDDn47BZ1zVjvdA==''}}
0:11:52.006801	LOG	Server ----------> DUT
0:11:52.009802	LOG	Send Test Command TxFramesCtrlReq process completed
0:11:52.012987	LOG	Send Test Command TxFramesCtrlReq process starts
0:11:53.896849	LOG	GPS Time updated: 1385119857117
0:11:53.897817	LOG	PULL_DATA: 02 1ad3 02 0016c001ff1025bf
0:11:53.899817	LOG	PULL_ACK: 02 1ad3 04
0:11:56.876386	LOG	First uplink received. Open reception window.
0:11:56.981987	LOG	PUSH_ACK: 02 7655 01
0:11:56.984023	LOG	GPS Time from gateway: 1385119860099
0:11:56.985023	LOG	PUSH_DATA: Protocol version = 02, Token = 7655, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1429277491, 'time': '2023-11-27T11:30:41.099440Z', 'tmms': 1385119860099, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3374, 'rssi': -50, 'size': 20, 'data': 'QAAAAACABwkCvyEj8/HpE2knDHk='}]}
0:11:56.986022	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0907, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 69270c79)
0:11:56.988022	LOG	Server <---------- DUT
0:11:56.990027	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05c4, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 79648885)
0:11:56.990988	LOG	Frame command sent to the DUT
0:11:56.992993	LOG	PULL_RESP: Protocol version = 02, Token = af2a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1431277491, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAxAXg5464wY4AxtQQaSdhp0DHdyvfuUswubRXUBvVfhpd1qlUDBNm5ztZilY3Bvg7chmSJveheWSIhQ==''}}
0:11:56.994023	LOG	Server ----------> DUT
0:11:56.997023	LOG	Send Test Command TxFramesCtrlReq process completed
0:11:57.000989	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:01.870041	LOG	#**********CURRENT BEACON SENT**********#
0:12:01.871042	LOG	PULL_RESP: Protocol version = 02, Token = da62, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385119872000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAQI9ShLEAAAAAAAAAAA=''}}
0:12:01.873043	LOG	Server ----------> DUT
0:12:01.874042	LOG	#**********#
0:12:01.883044	LOG	#**********NEXT BEACON QUEUED**********#
0:12:01.885042	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385120000000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu':

		'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAQY9SjFsAAAAAAAAAAAA='}}
0:12:01.886043	LOG	Server --------------------> DUT
0:12:01.888043	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 00418f52, CRC1: 8c5b, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385120000000
0:12:01.889043	LOG	#***#
0:12:01.890044	LOG	Next BEACON scheduled at GPS time (ms): 1385120128000
0:12:01.892047	LOG	First uplink received. Open reception window.
0:12:01.893044	LOG	TX_ACK: 02 da62 05 0016c001ff1025bf
0:12:01.996312	LOG	PUSH_ACK: 02 c1ac 01
0:12:01.999031	LOG	GPS Time from gateway: 1385119865099
0:12:02.000031	LOG	PUSH_DATA: Protocol version = 02, Token = c1ac, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1434277220, 'time': '2023-11-27T11:30:46.099169Z', 'tmms': 1385119865099, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3369, 'rssi': -51, 'size': 20, 'data': 'QAAAAACACAkCjE5r9MsyXvM1lWU='}]}
0:12:02.002030	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0908, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f3359565)
0:12:02.003030	LOG	Server <-------------------- DUT
0:12:02.005030	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05c5, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: f7675d91)
0:12:02.006030	LOG	Frame command sent to the DUT
0:12:02.008030	LOG	PULL_RESP: Protocol version = 02, Token = 2078, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1436277220, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAxQXgk0yRSt1QeNUZyYiz/JWA4B/V2VvdNwYfIb9ASJ3xZtIyvndhiFl6/S4TktCAIJsF+ycQ92ddkQ=='}}
0:12:02.009030	LOG	Server --------------------> DUT
0:12:02.012031	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:02.015063	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:04.106053	LOG	GPS Time updated: 1385119867312
0:12:04.108019	LOG	PULL_DATA: 02 5c91 02 0016c001ff1025bf
0:12:04.109034	LOG	PULL_ACK: 02 5c91 04
0:12:06.874174	LOG	First uplink received. Open reception window.
0:12:06.985824	LOG	PUSH_ACK: 02 291a 01
0:12:06.987829	LOG	GPS Time from gateway: 1385119870098
0:12:06.988793	LOG	PUSH_DATA: Protocol version = 02, Token = 291a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1439276965, 'time': '2023-11-27T11:30:51.098913Z', 'tmms': 1385119870098, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.8, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACACQkCba8vQDPgLssFYKA='}]}
0:12:06.989793	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0909, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: cb0560a0)
0:12:06.991792	LOG	Server <-------------------- DUT
0:12:06.993825	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05c6, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: f0d9d387)
0:12:06.994825	LOG	Frame command sent to the DUT
0:12:06.996827	LOG	PULL_RESP: Protocol version = 02, Token = 8aa3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1441276965, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True,

		'size': 64, 'data': 'YAAAAAAAxgXg7njTVwSFgzrMFHO5XwsvuyyKyJQvDgQyoV6Q3BUjnYsiC8Zp2hhwyUGQnvKEC64oT7QZ8NnThw==''}}
0:12:06.997825	LOG	Server ----------> DUT
0:12:07.000794	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:07.004974	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:11.874057	LOG	First uplink received. Open reception window.
0:12:11.980516	LOG	PUSH_ACK: 02 c03a 01
0:12:11.982481	LOG	GPS Time from gateway: 1385119875098
0:12:11.983484	LOG	PUSH_DATA: Protocol version = 02, Token = c03a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1444276734, 'time': '2023-11-27T11:30:56.098681Z', 'tmms': 1385119875098, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACACgkCC4ir1AppwPLlwJI='}]}
0:12:11.985482	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 090a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f2e5c092)
0:12:11.986482	LOG	Server <---------- DUT
0:12:11.988531	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05c7, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 08be809d)
0:12:11.989515	LOG	Frame command sent to the DUT
0:12:11.991517	LOG	PULL_RESP: Protocol version = 02, Token = da58, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1446276734, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAxwXgzbAk0dMITNhjrrzxb5/1aWIchs6eO+qzeawGUdnqfRoMUWac7aoX5y29UuX7llfmOzVHCL6AnQ==''}}
0:12:11.992516	LOG	Server ----------> DUT
0:12:11.995483	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:11.999212	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:14.295603	LOG	GPS Time updated: 1385119877519
0:12:14.297603	LOG	PULL_DATA: 02 4018 02 0016c001ff1025bf
0:12:14.299604	LOG	PULL_ACK: 02 4018 04
0:12:16.872755	LOG	First uplink received. Open reception window.
0:12:16.986401	LOG	PUSH_ACK: 02 0550 01
0:12:16.988369	LOG	GPS Time from gateway: 1385119880098
0:12:16.989368	LOG	PUSH_DATA: Protocol version = 02, Token = 0550, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1449276484, 'time': '2023-11-27T11:31:01.098430Z', 'tmms': 1385119880098, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3369, 'rssi': -51, 'size': 20, 'data': 'QAAAAACACwkCLvyGKfNmEfHtxpg='}]}
0:12:16.990368	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 090b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f1edc698)
0:12:16.992368	LOG	Server <---------- DUT
0:12:16.993368	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05c8, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 9e340efb)
0:12:16.995369	LOG	Frame command sent to the DUT
0:12:16.997368	LOG	PULL_RESP: Protocol version = 02, Token = d3c0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1451276484, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAyAXgrLMcklJdg2+4oTfuNSh2+Hx+aNE9TtJzbLHFgVSrUGCVIvsgSPs9jJ60nvnelVI2pQMenjQO+w==''}}
0:12:16.998369	LOG	Server ----------> DUT

0:12:17.001371	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:17.004403	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:21.876051	LOG	First uplink received. Open reception window.
0:12:21.988010	LOG	PUSH_ACK: 02 e04f 01
0:12:21.989977	LOG	GPS Time from gateway: 1385119885098
0:12:21.990979	LOG	PUSH_DATA: Protocol version = 02, Token = e04f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1454276220, 'time': '2023-11-27T11:31:06.098165Z', 'tmms': 1385119885098, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3369, 'rssi': -50, 'size': 20, 'data': 'QAAAAACADAkCMJfDFong9nFx8Xg='}]}
0:12:21.992984	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 090c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7171f178)
0:12:21.993978	LOG	Server <---------- DUT
0:12:21.995978	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05c9, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 0559ecf9)
0:12:21.996978	LOG	Frame command sent to the DUT
0:12:21.998979	LOG	PULL_RESP: Protocol version = 02, Token = ed9e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1456276220, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAyQXgLb/um6D4pNKdffaOsKODTjL4QZviLSSz2gfSYaekifj2NVTdwuLS/VD+jHgiPu3NHynPBVns+Q=='}}
0:12:21.999979	LOG	Server ----------> DUT
0:12:22.002978	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:22.007039	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:24.306210	LOG	GPS Time updated: 1385119887528
0:12:24.307210	LOG	PULL_DATA: 02 78f2 02 0016c001ff1025bf
0:12:24.309227	LOG	PULL_ACK: 02 78f2 04
0:12:26.868681	LOG	First uplink received. Open reception window.
0:12:26.977479	LOG	PUSH_ACK: 02 f01b 01
0:12:26.979514	LOG	GPS Time from gateway: 1385119890097
0:12:26.980482	LOG	PUSH_DATA: Protocol version = 02, Token = f01b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1459275989, 'time': '2023-11-27T11:31:11.097933Z', 'tmms': 1385119890097, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3377, 'rssi': -50, 'size': 20, 'data': 'QAAAAACADQkCU0/LJu2duLFY4m0='}]}
0:12:26.982513	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 090d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b158e26d)
0:12:26.983513	LOG	Server <---------- DUT
0:12:26.985516	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05ca, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c68bf527)
0:12:26.987482	LOG	Frame command sent to the DUT
0:12:26.988513	LOG	PULL_RESP: Protocol version = 02, Token = bd11, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1461275989, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAygXgEL17AosiimfFxaghwRszITyoC1pINYNq81dO413FUPC3+Svp6kKLD7hIJmgHnSdD37n9xov1Jw=='}}
0:12:26.989514	LOG	Server ----------> DUT
0:12:26.992516	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:26.996479	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:31.870122	LOG	First uplink received. Open reception window.

0:12:31.976801	LOG	PUSH_ACK: 02 6697 01
0:12:31.978801	LOG	GPS Time from gateway: 1385119895097
0:12:31.979803	LOG	PUSH_DATA: Protocol version = 02, Token = 6697, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1464275760, 'time': '2023-11-27T11:31:16.097704Z', 'tmms': 1385119895097, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACADgkCfH23A26MgZT8e4Y='}]}
0:12:31.981805	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 090e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 94fc7b86)
0:12:31.982837	LOG	Server <---------- DUT
0:12:31.984831	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05cb, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 27e81d1d)
0:12:31.985835	LOG	Frame command sent to the DUT
0:12:31.987835	LOG	PULL_RESP: Protocol version = 02, Token = bf8c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1466275760, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAywXg4YwIvcMLrECjkEUufWa6YpHmC/M3U3vjkVQR6F2BSXYIY0kgH9qjkCxpoYy4edhD2EsmJ+gdHQ=='}}
0:12:31.988837	LOG	Server ----------> DUT
0:12:31.991839	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:31.995748	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:34.506703	LOG	GPS Time updated: 1385119897733
0:12:34.507703	LOG	PULL_DATA: 02 6ab1 02 0016c001ff1025bf
0:12:34.509704	LOG	PULL_ACK: 02 6ab1 04
0:12:36.870915	LOG	First uplink received. Open reception window.
0:12:36.984869	LOG	PUSH_ACK: 02 0e84 01
0:12:36.986837	LOG	GPS Time from gateway: 1385119900097
0:12:36.987837	LOG	PUSH_DATA: Protocol version = 02, Token = 0e84, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1469275538, 'time': '2023-11-27T11:31:21.097479Z', 'tmms': 1385119900097, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACADwkC7XGORS6J1ncYU0Q='}]}
0:12:36.989837	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 090f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 77185344)
0:12:36.990837	LOG	Server <---------- DUT
0:12:36.992854	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05cc, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 9082c6c9)
0:12:36.993837	LOG	Frame command sent to the DUT
0:12:36.995837	LOG	PULL_RESP: Protocol version = 02, Token = fccd, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1471275538, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAzAXgjlZOjQ52Asf3DLqQioL3Fg3DWPsJPnP2iWEe+d3k6wW3bOsHVZvNOD5tslMJMjOtFzNgkILGyQ=='}}
0:12:36.996837	LOG	Server ----------> DUT
0:12:36.999837	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:37.003837	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:41.874715	LOG	First uplink received. Open reception window.
0:12:41.984358	LOG	PUSH_ACK: 02 84e2 01
0:12:41.986324	LOG	GPS Time from gateway: 1385119905097
0:12:41.987326	LOG	PUSH_DATA: Protocol version = 02, Token = 84e2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1474275275, 'time': '2023-11-27T11:31:26.097218Z',

		'tmms': 1385119905097, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3362, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAEAkCZmWutPcekehAdw8='}]}
0:12:41.989325	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0910, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e840770f)
0:12:41.990324	LOG	Server <---------- DUT
0:12:41.992333	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05cd, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: ba992c00)
0:12:41.993324	LOG	Frame command sent to the DUT
0:12:41.995324	LOG	PULL_RESP: Protocol version = 02, Token = ddde, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1476275275, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAzQXgC+a3hUePFhcJfdmw060pWBgwLTxzNzvSpLl79jWLGIIxiikwnUJXCVQsg5MY3m0dF5klupksAA=='}}
0:12:41.996326	LOG	Server ----------> DUT
0:12:41.999324	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:42.003173	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:44.515506	LOG	GPS Time updated: 1385119907738
0:12:44.517513	LOG	PULL_DATA: 02 62fa 02 0016c001ff1025bf
0:12:44.518507	LOG	PULL_ACK: 02 62fa 04
0:12:46.866696	LOG	First uplink received. Open reception window.
0:12:46.975282	LOG	PUSH_ACK: 02 3723 01
0:12:46.976832	LOG	GPS Time from gateway: 1385119910096
0:12:46.977837	LOG	PUSH_DATA: Protocol version = 02, Token = 3723, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1479275019, 'time': '2023-11-27T11:31:31.096961Z', 'tmms': 1385119910096, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAEQkCkgfX7b5H/YUP9lw='}]}
0:12:46.979837	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0911, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 850ff65c)
0:12:46.980837	LOG	Server <---------- DUT
0:12:46.982839	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05ce, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: f8a84c1c)
0:12:46.984838	LOG	Frame command sent to the DUT
0:12:46.985870	LOG	PULL_RESP: Protocol version = 02, Token = f3e5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1481275019, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAzgXg53RFmh5q/QtNR5+NrUwRtHHwrGyIrc6Obr82gx9o0q4bHC25gVb8H/bj9x/cOFmqe9ci+KhMHA=='}}
0:12:46.986870	LOG	Server ----------> DUT
0:12:46.990843	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:46.994082	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:51.872013	LOG	First uplink received. Open reception window.
0:12:51.976559	LOG	PUSH_ACK: 02 a794 01
0:12:51.978529	LOG	GPS Time from gateway: 1385119915096
0:12:51.979527	LOG	PUSH_DATA: Protocol version = 02, Token = a794, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1484274762, 'time': '2023-11-27T11:31:36.096702Z', 'tmms': 1385119915096, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAEgkCASIhCjrEQkty6j4='}]}

0:12:51.980527	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0912, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4b72ea3e)
0:12:51.982033	LOG	Server <---------- DUT
0:12:51.984038	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05cf, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 2fa4cf5d)
0:12:51.986038	LOG	Frame command sent to the DUT
0:12:51.987038	LOG	PULL_RESP: Protocol version = 02, Token = 2cee, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1486274762, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAzwXglKgKSOOYSRxhNGdbH9R3hIGyxArW19Hpawt2azS58oI2Rra+sf6k+veNla1doETnTVonL6TPXQ==\'}}
0:12:51.989038	LOG	Server ----------> DUT
0:12:51.991038	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:51.995203	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:54.716613	LOG	GPS Time updated: 1385119917939
0:12:54.717612	LOG	PULL_DATA: 02 b5d0 02 0016c001ff1025bf
0:12:54.719616	LOG	PULL_ACK: 02 b5d0 04
0:12:56.869270	LOG	First uplink received. Open reception window.
0:12:56.983317	LOG	PUSH_ACK: 02 0aee 01
0:12:56.985316	LOG	GPS Time from gateway: 1385119920096
0:12:56.986395	LOG	PUSH_DATA: Protocol version = 02, Token = 0aee, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1489274494, 'time': '2023-11-27T11:31:41.096432Z', 'tmms': 1385119920096, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAEwkCcd+Booa9/8JfVDk=\'}]}
0:12:56.987398	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0913, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c25f5439)
0:12:56.989360	LOG	Server <---------- DUT
0:12:56.991373	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05d0, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 890e204a)
0:12:56.992394	LOG	Frame command sent to the DUT
0:12:56.994393	LOG	PULL_RESP: Protocol version = 02, Token = 3715, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1491274494, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA0AXg65OJRrS3n7cN5rtJhgAXB0nrq1ow1MkvnIcC8kix9RlpmN0m46le9G0hBc349U4WMVLMiQ4gSg==\'}}
0:12:56.995395	LOG	Server ----------> DUT
0:12:56.998361	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:57.002542	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:01.873105	LOG	First uplink received. Open reception window.
0:13:01.983576	LOG	PUSH_ACK: 02 8d0f 01
0:13:01.985544	LOG	GPS Time from gateway: 1385119925096
0:13:01.986543	LOG	PUSH_DATA: Protocol version = 02, Token = 8d0f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1494274264, 'time': '2023-11-27T11:31:46.096203Z', 'tmms': 1385119925096, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAFAkCTUHGr8b7y36tyc0=\'}]}
0:13:01.987544	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0914, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7eadc9cd)
0:13:01.989544	LOG	Server <---------- DUT

0:13:01.991052	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05d1, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: d5d258be)
0:13:01.993057	LOG	Frame command sent to the DUT
0:13:01.994056	LOG	PULL_RESP: Protocol version = 02, Token = bc3b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1496274264, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA0QXg0UBhFXopbChM3mopjxKoG5WIu0wusYIkC3qEsj1/y4lEr2H/0eLihZqjyjQUukiX+Vh11dJYvg==''}}
0:13:01.996058	LOG	Server ----------> DUT
0:13:01.998057	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:02.002415	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:04.725645	LOG	GPS Time updated: 1385119927949
0:13:04.727645	LOG	PULL_DATA: 02 3e6d 02 0016c001ff1025bf
0:13:04.728647	LOG	PULL_ACK: 02 3e6d 04
0:13:06.873474	LOG	First uplink received. Open reception window.
0:13:06.975678	LOG	PUSH_ACK: 02 5fb6 01
0:13:06.977686	LOG	GPS Time from gateway: 1385119930095
0:13:06.978646	LOG	PUSH_DATA: Protocol version = 02, Token = 5fb6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1499274044, 'time': '2023-11-27T11:31:51.095982Z', 'tmms': 1385119930095, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3377, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAFQkCSCSvGrGtCR4LRzY='}]}
0:13:06.980650	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0915, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1e0b4736)
0:13:06.981652	LOG	Server <---------- DUT
0:13:06.983685	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05d2, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 00d60ed5)
0:13:06.985704	LOG	Frame command sent to the DUT
0:13:06.986683	LOG	PULL_RESP: Protocol version = 02, Token = b625, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1501274044, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA0gXg0ZNifkPTpkBsn9LBq1ANcQ1EupOaY9sjko4VVfIQCzhkzuDKA3jNt+yMv+U+4BPLU9IlANYO1Q==''}}
0:13:06.987684	LOG	Server ----------> DUT
0:13:06.990651	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:06.995038	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:11.872795	LOG	First uplink received. Open reception window.
0:13:11.976876	LOG	PUSH_ACK: 02 609c 01
0:13:11.978843	LOG	GPS Time from gateway: 1385119935095
0:13:11.979843	LOG	PUSH_DATA: Protocol version = 02, Token = 609c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1504273775, 'time': '2023-11-27T11:31:56.095713Z', 'tmms': 1385119935095, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3362, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAFgkC240UugytzuS8w7A='}]}
0:13:11.981844	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0916, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e4bcc3b0)
0:13:11.982843	LOG	Server <---------- DUT
0:13:11.984843	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05d3, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 5918a019)

0:13:11.985848	LOG	Frame command sent to the DUT
0:13:11.987848	LOG	PULL_RESP: Protocol version = 02, Token = f9e9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1506273775, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA0wXgcEKWYQcNa1MI+s26hGbRRx5juYkbxscyPWSJJDhrNaGaEKDQCVNcHh7R6vdvVvqPHx1wWRigGQ==''}}
0:13:11.988848	LOG	Server ----------> DUT
0:13:11.991849	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:11.995883	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:14.925738	LOG	GPS Time updated: 1385119938148
0:13:14.926738	LOG	PULL_DATA: 02 f550 02 0016c001ff1025bf
0:13:14.928738	LOG	PULL_ACK: 02 f550 04
0:13:16.866160	LOG	First uplink received. Open reception window.
0:13:16.971191	LOG	PUSH_ACK: 02 b75c 01
0:13:16.973191	LOG	GPS Time from gateway: 1385119940095
0:13:16.974158	LOG	PUSH_DATA: Protocol version = 02, Token = b75c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1509273523, 'time': '2023-11-27T11:32:01.095458Z', 'tmms': 1385119940095, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3366, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAFwkCbDi++tl4JO6FpHA='}]}
0:13:16.976159	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0917, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ee85a470)
0:13:16.977184	LOG	Server <---------- DUT
0:13:16.979191	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05d4, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 4701eaa6)
0:13:16.980191	LOG	Frame command sent to the DUT
0:13:16.982191	LOG	PULL_RESP: Protocol version = 02, Token = 8a22, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1511273523, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA1AXg0ENn049vQNQy1Szw4VHa+wKYFFj8/N++jBfFF+k6jNt8XM4ltlklpSDA7hRR+8z8wIR4RwHqpg==''}}
0:13:16.983193	LOG	Server ----------> DUT
0:13:16.986160	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:16.990159	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:21.869782	LOG	First uplink received. Open reception window.
0:13:21.985538	LOG	PUSH_ACK: 02 e721 01
0:13:21.987572	LOG	GPS Time from gateway: 1385119945095
0:13:21.988543	LOG	PUSH_DATA: Protocol version = 02, Token = e721, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1514273255, 'time': '2023-11-27T11:32:06.095191Z', 'tmms': 1385119945095, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3369, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAGAkCG9wVxpCAslOLEbQ='}]}
0:13:21.990541	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0918, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 538b11b4)
0:13:21.991573	LOG	Server <---------- DUT
0:13:21.993543	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05d5, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: de66f6bb)
0:13:21.994572	LOG	Frame command sent to the DUT
0:13:21.996576	LOG	PULL_RESP: Protocol version = 02, Token = 32df, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1516273255, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True,

		'size': 64, 'data': 'YAAAAAAA1QXgZshcA0mTQUf7HDzPUgzG13pqS6I2Ugu+xF5uScd6bde1A7+QQpoMSyQWZec+B3GZASkd3mb2uw==''}}
0:13:21.997609	LOG	Server ----------> DUT
0:13:22.000579	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:22.004575	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:24.936049	LOG	GPS Time updated: 1385119948162
0:13:24.937049	LOG	PULL_DATA: 02 0df6 02 0016c001ff1025bf
0:13:24.939049	LOG	PULL_ACK: 02 0df6 04
0:13:26.865678	LOG	First uplink received. Open reception window.
0:13:26.974651	LOG	PUSH_ACK: 02 d808 01
0:13:26.976619	LOG	GPS Time from gateway: 1385119950094
0:13:26.977622	LOG	PUSH_DATA: Protocol version = 02, Token = d808, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1519273027, 'time': '2023-11-27T11:32:11.094962Z', 'tmms': 1385119950094, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAGQkCItp/hHmMj+gWsZI='}]}
0:13:26.979621	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0919, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e816b192)
0:13:26.980654	LOG	Server <---------- DUT
0:13:26.982651	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05d6, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 3647dc7c)
0:13:26.984634	LOG	Frame command sent to the DUT
0:13:26.985651	LOG	PULL_RESP: Protocol version = 02, Token = 8545, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1521273027, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA1gXg0zCB6yngvhmeRhRqodcDTjILFEW4iwu2oRBW/YdDXe2WxGZciIxt23gI/0rDm2VQnVGrNkfcfA==''}}
0:13:26.986652	LOG	Server ----------> DUT
0:13:26.989618	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:26.993652	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:31.865277	LOG	First uplink received. Open reception window.
0:13:31.973882	LOG	PUSH_ACK: 02 8b10 01
0:13:31.975884	LOG	GPS Time from gateway: 1385119955094
0:13:31.976884	LOG	PUSH_DATA: Protocol version = 02, Token = 8b10, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1524272777, 'time': '2023-11-27T11:32:16.094711Z', 'tmms': 1385119955094, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAGgkCGNmLCHfyWVXjrrc='}]}
0:13:31.978883	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 091a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 55e3aeb7)
0:13:31.979883	LOG	Server <---------- DUT
0:13:31.981885	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05d7, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 9a2d7120)
0:13:31.982918	LOG	Frame command sent to the DUT
0:13:31.984885	LOG	PULL_RESP: Protocol version = 02, Token = 5143, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1526272777, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA1wXgKQc2NljZiI5TSMK9GxUHBjM2X1FVIhWhyu/y+8XF/OhmJEfcORIdrL1gi+RDozigCax/mi1xIA==''}}
0:13:31.985883	LOG	Server ----------> DUT

0:13:31.988933	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:31.991918	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:35.136069	LOG	GPS Time updated: 1385119958365
0:13:35.137068	LOG	PULL_DATA: 02 2b32 02 0016c001ff1025bf
0:13:35.139068	LOG	PULL_ACK: 02 2b32 04
0:13:36.869956	LOG	First uplink received. Open reception window.
0:13:36.976821	LOG	PUSH_ACK: 02 a4e0 01
0:13:36.978789	LOG	GPS Time from gateway: 1385119960094
0:13:36.979794	LOG	PUSH_DATA: Protocol version = 02, Token = a4e0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1529272508, 'time': '2023-11-27T11:32:21.094441Z', 'tmms': 1385119960094, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3369, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAGwkCZ5qMJww9PaK1LFM='}]}
0:13:36.981788	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 091b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a2b52c53)
0:13:36.982788	LOG	Server <---------- DUT
0:13:36.984788	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05d8, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: ff3da80a)
0:13:36.985787	LOG	Frame command sent to the DUT
0:13:36.987787	LOG	PULL_RESP: Protocol version = 02, Token = ab31, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1531272508, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA2AXgpGNeEoXXnWZlbfAop5ltbaIHr28zXYmsusbIjmFThdjISmQyHtJvkWx2Fwncpd28DxPF/z2oCg==''}}
0:13:36.988787	LOG	Server ----------> DUT
0:13:36.991791	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:36.995821	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:41.868290	LOG	First uplink received. Open reception window.
0:13:41.975201	LOG	PUSH_ACK: 02 0252 01
0:13:41.977201	LOG	GPS Time from gateway: 1385119965094
0:13:41.978170	LOG	PUSH_DATA: Protocol version = 02, Token = 0252, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1534272292, 'time': '2023-11-27T11:32:26.094225Z', 'tmms': 1385119965094, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAHAkCicF8jWDCeKPPAf8='}]}
0:13:41.979171	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 091c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a3cf01ff)
0:13:41.981169	LOG	Server <---------- DUT
0:13:41.983170	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05d9, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: f8bc6b59)
0:13:41.984168	LOG	Frame command sent to the DUT
0:13:41.986168	LOG	PULL_RESP: Protocol version = 02, Token = af11, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1536272292, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA2QXgGd1pPpX9Ma5bLswyCPhmJqNTLBH12AaaCKu9xSI9rcwejKqRzQ9utEJ20TRNNolQNHTg+LxrWQ==''}}
0:13:41.987169	LOG	Server ----------> DUT
0:13:41.990169	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:41.994171	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:45.344945	LOG	GPS Time updated: 1385119968570

0:13:45.346911	LOG	PULL_DATA: 02 550c 02 0016c001ff1025bf
0:13:45.348915	LOG	PULL_ACK: 02 550c 04
0:13:46.868034	LOG	First uplink received. Open reception window.
0:13:46.976676	LOG	PUSH_ACK: 02 40e2 01
0:13:46.978645	LOG	GPS Time from gateway: 1385119970093
0:13:46.979644	LOG	PUSH_DATA: Protocol version = 02, Token = 40e2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1539272019, 'time': '2023-11-27T11:32:31.093952Z', 'tmms': 1385119970093, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3377, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAHQkCjYfdMrJ0TWPNZJ4='}]}
0:13:46.981645	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 091d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 63cd649e)
0:13:46.982645	LOG	Server <---------- DUT
0:13:46.984645	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05da, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: f4bc2c60)
0:13:46.985645	LOG	Frame command sent to the DUT
0:13:46.987645	LOG	PULL_RESP: Protocol version = 02, Token = 72de, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1541272019, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA2gXg5jp7dfXgUm+vAAPL/HAI2wd9yTp35LmflZt9sk8Ot2xhtk63dkzEug3WesEWCqq0+en39LwsYA==''}}
0:13:46.988644	LOG	Server ----------> DUT
0:13:46.991646	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:46.995643	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:51.866521	LOG	First uplink received. Open reception window.
0:13:51.977699	LOG	PUSH_ACK: 02 1c7f 01
0:13:51.979699	LOG	GPS Time from gateway: 1385119975093
0:13:51.980666	LOG	PUSH_DATA: Protocol version = 02, Token = 1c7f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1544271760, 'time': '2023-11-27T11:32:36.093692Z', 'tmms': 1385119975093, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAHgkCHIgEZE/GpG59bGc='}]}
0:13:51.982666	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 091e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6e7d6c67)
0:13:51.983665	LOG	Server <---------- DUT
0:13:51.985689	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05db, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 22df00d3)
0:13:51.986699	LOG	Frame command sent to the DUT
0:13:51.988698	LOG	PULL_RESP: Protocol version = 02, Token = af4c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1546271760, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA2wXge0Jh6ToqzKCJkazSyGyHyyW4MC//57W2CRPoklYf+zFfqV8Ktld0gu5qm+OW7J9QbvCbIt8A0w==''}}
0:13:51.989698	LOG	Server ----------> DUT
0:13:51.992666	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:51.996718	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:55.555512	LOG	GPS Time updated: 1385119978782
0:13:55.557481	LOG	PULL_DATA: 02 35b0 02 0016c001ff1025bf
0:13:55.558478	LOG	PULL_ACK: 02 35b0 04
0:13:56.862069	LOG	First uplink received. Open reception window.

0:13:56.968482	LOG	PUSH_ACK: 02 172b 01
0:13:56.970448	LOG	GPS Time from gateway: 1385119980093
0:13:56.971451	LOG	PUSH_DATA: Protocol version = 02, Token = 172b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1549271508, 'time': '2023-11-27T11:32:41.093439Z', 'tmms': 1385119980093, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAHwkCn8N2DZSqN7PMdjk='}]}
0:13:56.973450	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 091f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b3cc7639)
0:13:56.974449	LOG	Server <---------- DUT
0:13:56.976449	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05dc, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: e815ba23)
0:13:56.978449	LOG	Frame command sent to the DUT
0:13:56.979482	LOG	PULL_RESP: Protocol version = 02, Token = 8307, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1551271508, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA3AXgSkg8gn60jerkTCVV3k7ccKev+X1XWTR7sVOkkBT8VOLk6w/HHTe6d09kJmEryl/xaSFj6BW6Iw==''}}
0:13:56.980483	LOG	Server ----------> DUT
0:13:56.983452	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:56.987449	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:01.865805	LOG	First uplink received. Open reception window.
0:14:01.970870	LOG	PUSH_ACK: 02 00ce 01
0:14:01.972839	LOG	GPS Time from gateway: 1385119985093
0:14:01.973838	LOG	PUSH_DATA: Protocol version = 02, Token = 00ce, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1554271244, 'time': '2023-11-27T11:32:46.093172Z', 'tmms': 1385119985093, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAIAkCbY9A/O23JjKn7rU='}]}
0:14:01.975838	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0920, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 32a7eeb5)
0:14:01.976838	LOG	Server <---------- DUT
0:14:01.978838	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05dd, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: f10c5dac)
0:14:01.979837	LOG	Frame command sent to the DUT
0:14:01.981838	LOG	PULL_RESP: Protocol version = 02, Token = 9624, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1556271244, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA3QXg8XfSl3rBjWtdb/L9hr/IUt4RZRgb5qqCiA4RQI/btCbLX9xxgLpNFL5kuelRTr8skUdb8QxdrA==''}}
0:14:01.982837	LOG	Server ----------> DUT
0:14:01.985838	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:01.989839	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:05.765490	LOG	GPS Time updated: 1385119988994
0:14:05.767461	LOG	PULL_DATA: 02 87e8 02 0016c001ff1025bf
0:14:05.768494	LOG	PULL_ACK: 02 87e8 04
0:14:06.868730	LOG	#**********CURRENT BEACON SENT**********#
0:14:06.869731	LOG	PULL_RESP: Protocol version = 02, Token = 6865, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385120000000, 'rfch': 0, 'powe': 14, 'ipol': False,

		'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAQY9SjFsAAAAAAAAAAA='}}
0:14:06.871700	LOG	Server ----------> DUT
0:14:06.872732	LOG	#**********# **********#
0:14:06.882731	LOG	#**********NEXT BEACON QUEUED**********#
0:14:06.884699	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385120128000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAQY9StIYAAAAAAAAAAA='}}
0:14:06.885698	LOG	Server ----------> DUT
0:14:06.887698	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 80418f52, CRC1: b486, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385120128000
0:14:06.888730	LOG	#**********# **********#
0:14:06.889731	LOG	Next BEACON scheduled at GPS time (ms): 1385120256000
0:14:06.890731	LOG	First uplink received. Open reception window.
0:14:06.892731	LOG	TX_ACK: 02 6865 05 0016c001ff1025bf
0:14:07.005215	LOG	PUSH_ACK: 02 ef94 01
0:14:07.007234	LOG	GPS Time from gateway: 1385119990092
0:14:07.009234	LOG	PUSH_DATA: Protocol version = 02, Token = ef94, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1559271022, 'time': '2023-11-27T11:32:51.092951Z', 'tmms': 1385119990092, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3377, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAIQkCz+s+OjChvAW1IXw='}]}
0:14:07.010232	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0921, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 05b5217c)
0:14:07.011231	LOG	Server <---------- DUT
0:14:07.013266	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05de, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 27ccd45e)
0:14:07.015265	LOG	Frame command sent to the DUT
0:14:07.016269	LOG	PULL_RESP: Protocol version = 02, Token = 8118, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1561271022, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA3gXgZ+DhgUXvIBEp+rpkyMua46Mnv+hVl82LdsZ5i7SSco6GilFxn+8gSrpwRt68q6w1DCJqJ8zUXg=='}}
0:14:07.018267	LOG	Server ----------> DUT
0:14:07.021236	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:07.025234	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:11.861638	LOG	First uplink received. Open reception window.
0:14:11.965617	LOG	PUSH_ACK: 02 de94 01
0:14:11.967584	LOG	GPS Time from gateway: 1385119995092
0:14:11.968587	LOG	PUSH_DATA: Protocol version = 02, Token = de94, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1564270753, 'time': '2023-11-27T11:32:56.092681Z', 'tmms': 1385119995092, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAIgkCunPrIg1KP5tDsnk='}]}
0:14:11.970628	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0922, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9b43b279)
0:14:11.971614	LOG	Server <---------- DUT
0:14:11.973585	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05df, FOpts:), FPort: e0, FRMPayload:

		07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 37d3d9de)
0:14:11.975587	LOG	Frame command sent to the DUT
0:14:11.976617	LOG	PULL_RESP: Protocol version = 02, Token = 13c9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1566270753, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA3wXgs6XVFDqln8xppBToSKL8WGMU0qS/fr3pDdAmWgmOLD+QfqItoyuOFWWM/VLm7/K+Nhg+N9PZ3g==\'}}
0:14:11.978587	LOG	Server ----------> DUT
0:14:11.980638	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:11.984585	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:15.964647	LOG	GPS Time updated: 1385119999195
0:14:15.966120	LOG	PULL_DATA: 02 25b6 02 0016c001ff1025bf
0:14:15.968126	LOG	PULL_ACK: 02 25b6 04
0:14:16.866498	LOG	First uplink received. Open reception window.
0:14:16.981016	LOG	PUSH_ACK: 02 9cb0 01
0:14:16.983018	LOG	GPS Time from gateway: 1385120000092
0:14:16.983985	LOG	PUSH_DATA: Protocol version = 02, Token = 9cb0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1569270499, 'time': '2023-11-27T11:33:01.092427Z', 'tmms': 1385120000092, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -76, 'lsnr': 3.8, 'foff': -3370, 'rssi': -75, 'size': 20, 'data': 'QAAAAACAIwkCNtt3RdcBsntFlFI='}]}
0:14:16.985984	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0923, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7b459452)
0:14:16.986985	LOG	Server <---------- DUT
0:14:16.988984	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05e0, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 36a5f8f4)
0:14:16.989985	LOG	Frame command sent to the DUT
0:14:16.991984	LOG	PULL_RESP: Protocol version = 02, Token = cd13, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1571270499, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA4AXgkzUDJFpiTFAthZ0m9TTVN4BO5BEGXqd0BP6T7mTglOLOmtM9LXn0t3Lr8whu0tbVbYOeNqX49A==\'}}
0:14:16.992983	LOG	Server ----------> DUT
0:14:16.995988	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:16.999985	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:21.859654	LOG	First uplink received. Open reception window.
0:14:21.965953	LOG	PUSH_ACK: 02 c6c8 01
0:14:21.967919	LOG	GPS Time from gateway: 1385120005092
0:14:21.968919	LOG	PUSH_DATA: Protocol version = 02, Token = c6c8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1574270271, 'time': '2023-11-27T11:33:06.092196Z', 'tmms': 1385120005092, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3369, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAJAkCj++DhnXk69EQJnw='}]}
0:14:21.969919	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0924, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d110267c)
0:14:21.972434	LOG	Server <---------- DUT
0:14:21.973428	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05e1, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 6b8544ab)
0:14:21.975428	LOG	Frame command sent to the DUT

0:14:21.976427	LOG	PULL_RESP: Protocol version = 02, Token = e0ec, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1576270271, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA4QXgw0Dxt3XHkFWau5Fmqk2bLU7WByb2QLeIdUyV05XNkqMuWHxTBDRhGrt/bzjZIQ+tmsgca4VEqw==''}}
0:14:21.978427	LOG	Server ----------> DUT
0:14:21.981428	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:21.985442	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:26.174560	LOG	GPS Time updated: 1385120009407
0:14:26.176093	LOG	PULL_DATA: 02 a8e5 02 0016c001ff1025bf
0:14:26.178135	LOG	PULL_ACK: 02 a8e5 04
0:14:26.864112	LOG	First uplink received. Open reception window.
0:14:26.972424	LOG	PUSH_ACK: 02 bcfe 01
0:14:26.974458	LOG	GPS Time from gateway: 1385120010091
0:14:26.975422	LOG	PUSH_DATA: Protocol version = 02, Token = bcfe, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1579270036, 'time': '2023-11-27T11:33:11.091963Z', 'tmms': 1385120010091, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAJQkCdPl4Kz7AQWBBybw='}]}
0:14:26.976927	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0925, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6041c9bc)
0:14:26.978935	LOG	Server <---------- DUT
0:14:26.980965	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05e2, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: f6cecc62)
0:14:26.981962	LOG	Frame command sent to the DUT
0:14:26.982964	LOG	PULL_RESP: Protocol version = 02, Token = 0640, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1581270036, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA4gXgdBhx4eOhSnaNyS6M0rT/8fEyQjvng4rCi014EWFbwXZfSJISNZjiUrt3dtSCHTzNnOBZ9s7MYg==''}}
0:14:26.984967	LOG	Server ----------> DUT
0:14:26.987933	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:26.991933	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:31.866609	LOG	First uplink received. Open reception window.
0:14:31.972120	LOG	PUSH_ACK: 02 f2fd 01
0:14:31.974120	LOG	GPS Time from gateway: 1385120015091
0:14:31.976122	LOG	PUSH_DATA: Protocol version = 02, Token = f2fd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1584269778, 'time': '2023-11-27T11:33:16.091704Z', 'tmms': 1385120015091, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3377, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAJgkCdnMbe6UQT9yvS5o='}]}
0:14:31.977123	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0926, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: dcaf4b9a)
0:14:31.978123	LOG	Server <---------- DUT
0:14:31.980129	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05e3, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 5f1de099)
0:14:31.982122	LOG	Frame command sent to the DUT
0:14:31.983633	LOG	PULL_RESP: Protocol version = 02, Token = 8217, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1586269778, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data':

		'YAAAAAAA4wXgk85gGaPjzCS6lKKFW9+M/vy3MRildCZUk5gWhv1/W7Tk061YzRYviqQU4uX26GLwiAdsXx3gmQ==''}}
0:14:31.984633	LOG	Server ----------> DUT
0:14:31.987633	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:31.991632	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:36.184434	LOG	GPS Time updated: 1385120019410
0:14:36.186903	LOG	PULL_DATA: 02 e00e 02 0016c001ff1025bf
0:14:36.187909	LOG	PULL_ACK: 02 e00e 04
0:14:36.868508	LOG	First uplink received. Open reception window.
0:14:36.977318	LOG	PUSH_ACK: 02 7c30 01
0:14:36.991866	LOG	GPS Time from gateway: 1385120020091
0:14:36.993866	LOG	PUSH_DATA: Protocol version = 02, Token = 7c30, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1589269548, 'time': '2023-11-27T11:33:21.091472Z', 'tmms': 1385120020091, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAJwkClacS0NHxYGtAmIM='}]}
0:14:36.994897	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0927, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6b409883)
0:14:36.995865	LOG	Server <---------- DUT
0:14:36.997900	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05e4, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 2fcea311)
0:14:36.999864	LOG	Frame command sent to the DUT
0:14:37.000878	LOG	PULL_RESP: Protocol version = 02, Token = 4b89, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1591269548, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA5AXgGNv5RsB9HD5YvbBTx6BrXqPi+LEbYo3z6iiP4dY5vb5HTzPwkUWqQgcPmX2ili2iBaRhL86jEQ==''}}
0:14:37.001895	LOG	Server ----------> DUT
0:14:37.005866	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:37.008905	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:41.864986	LOG	First uplink received. Open reception window.
0:14:41.977602	LOG	PUSH_ACK: 02 89b1 01
0:14:41.979607	LOG	GPS Time from gateway: 1385120025091
0:14:41.980608	LOG	PUSH_DATA: Protocol version = 02, Token = 89b1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1594269297, 'time': '2023-11-27T11:33:26.091221Z', 'tmms': 1385120025091, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAKAkCUmR2KGGs4I4FeWg='}]}
0:14:41.982607	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0928, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8e057968)
0:14:41.983605	LOG	Server <---------- DUT
0:14:41.985607	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05e5, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: d48a4106)
0:14:41.987605	LOG	Frame command sent to the DUT
0:14:41.988606	LOG	PULL_RESP: Protocol version = 02, Token = 7e46, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1596269297, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA5QXgDOz5lSHz3ksaoxfnMMboNAo/dYbV5CSuXOvi8ik6YCobxhDXEsYbbYf0dU5+GpAsfS5o1IpBBg==''}}
0:14:41.989606	LOG	Server ----------> DUT
0:14:41.993112	LOG	Send Test Command TxFramesCtrlReq process completed

0:14:41.997119	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:46.394759	LOG	GPS Time updated: 1385120029621
0:14:46.396722	LOG	PULL_DATA: 02 e0a0 02 0016c001ff1025bf
0:14:46.398226	LOG	PULL_ACK: 02 e0a0 04
0:14:46.859806	LOG	First uplink received. Open reception window.
0:14:46.967898	LOG	PUSH_ACK: 02 dce1 01
0:14:46.969899	LOG	GPS Time from gateway: 1385120030090
0:14:46.970866	LOG	PUSH_DATA: Protocol version = 02, Token = dce1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1599269029, 'time': '2023-11-27T11:33:31.090950Z', 'tmms': 1385120030090, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAKQkClVfqw1l/gQkvqlg='}]}
0:14:46.972878	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0929, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 092faa58)
0:14:46.973868	LOG	Server <---------- DUT
0:14:46.975905	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05e6, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 5e5966b0)
0:14:46.976901	LOG	Frame command sent to the DUT
0:14:46.978917	LOG	PULL_RESP: Protocol version = 02, Token = 7bd6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1601269029, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA5gXg7MoRbM97qIXhcqkXIGGy2cj/VZXiMsKYXywuk5poqHNeSLa/3uzvW/8KAnmDZJXQhVhNXllmsA==''}}
0:14:46.979898	LOG	Server ----------> DUT
0:14:46.982867	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:46.986871	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:51.856722	LOG	First uplink received. Open reception window.
0:14:51.969282	LOG	PUSH_ACK: 02 6e63 01
0:14:52.033898	LOG	GPS Time from gateway: 1385120035090
0:14:52.035934	LOG	PUSH_DATA: Protocol version = 02, Token = 6e63, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1604268776, 'time': '2023-11-27T11:33:36.090699Z', 'tmms': 1385120035090, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3369, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAKgkCK1HSpYdT3CbbE50='}]}
0:14:52.036931	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 092a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 26db139d)
0:14:52.038930	LOG	Server <---------- DUT
0:14:52.040928	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05e7, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 059a9629)
0:14:52.041929	LOG	Frame command sent to the DUT
0:14:52.043897	LOG	PULL_RESP: Protocol version = 02, Token = 7ced, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1606268776, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA5wXgQkYUsIK3oP514PZkGjjhDqE1OOsYjdK9MAAQmIuFEl/pLYkmUnKZ/0h6QVja//7KWaOlBZqWKQ==''}}
0:14:52.044928	LOG	Server ----------> DUT
0:14:52.047898	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:52.051897	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:56.465468	LOG	GPS Time updated: 1385120039699
0:14:56.466500	LOG	PULL_DATA: 02 f7a7 02 0016c001ff1025bf

0:14:56.468479	LOG	PULL_ACK: 02 f7a7 04
0:14:56.858802	LOG	First uplink received. Open reception window.
0:14:56.966270	LOG	PUSH_ACK: 02 f11c 01
0:14:56.968238	LOG	GPS Time from gateway: 1385120040090
0:14:56.969272	LOG	PUSH_DATA: Protocol version = 02, Token = f11c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1609268546, 'time': '2023-11-27T11:33:41.090468Z', 'tmms': 1385120040090, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3369, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAKwkCJ0gNqTTDDmOb6yw='}]}
0:14:56.971238	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 092b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 639beb2c)
0:14:56.972237	LOG	Server <---------- DUT
0:14:56.974237	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05e8, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 65f1d59d)
0:14:56.976244	LOG	Frame command sent to the DUT
0:14:56.977271	LOG	PULL_RESP: Protocol version = 02, Token = a3e8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1611268546, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA6AXg6+gWQjL8rNubw0qsSn1ndzkuPSdx2Xp94Nhkw5LrP3stjrogeHoMayWxryYUNmbpQ0AgZfHVnQ==''}}
0:14:56.978268	LOG	Server ----------> DUT
0:14:56.981239	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:56.985237	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:01.858216	LOG	First uplink received. Open reception window.
0:15:01.968796	LOG	PUSH_ACK: 02 5d8e 01
0:15:01.970799	LOG	GPS Time from gateway: 1385120045090
0:15:01.971798	LOG	PUSH_DATA: Protocol version = 02, Token = 5d8e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1614268319, 'time': '2023-11-27T11:33:46.090240Z', 'tmms': 1385120045090, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACALAkCz/ByHaNUYRrzUT0='}]}
0:15:01.973797	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 092c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1af3513d)
0:15:01.974797	LOG	Server <---------- DUT
0:15:01.976832	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05e9, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 0a63b430)
0:15:01.977831	LOG	Frame command sent to the DUT
0:15:01.979825	LOG	PULL_RESP: Protocol version = 02, Token = 38d4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1616268319, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA6QXgqznDjDawB+w1fW/8rur+1CavJQa+/L+e37QFsN/IZQDdX6B4UavdOtafGvcRxyNQAMDACmO0MA==''}}
0:15:01.980830	LOG	Server ----------> DUT
0:15:01.983797	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:01.987799	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:06.594364	LOG	GPS Time updated: 1385120049827
0:15:06.596332	LOG	PULL_DATA: 02 cd24 02 0016c001ff1025bf
0:15:06.598335	LOG	PULL_ACK: 02 cd24 04
0:15:06.862490	LOG	First uplink received. Open reception window.
0:15:06.976102	LOG	PUSH_ACK: 02 56b0 01

0:15:06.978070	LOG	GPS Time from gateway: 1385120050089
0:15:06.979071	LOG	PUSH_DATA: Protocol version = 02, Token = 56b0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1619268083, 'time': '2023-11-27T11:33:51.090001Z', 'tmms': 1385120050089, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3369, 'rssi': -51, 'size': 20, 'data': 'QAAAAACALQkCKjPv2xBOFK6tcrc='}]}
0:15:06.981103	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 092d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: aead72b7)
0:15:06.982069	LOG	Server <---------- DUT
0:15:06.984068	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05ea, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: f546f3bb)
0:15:06.986068	LOG	Frame command sent to the DUT
0:15:06.987068	LOG	PULL_RESP: Protocol version = 02, Token = b4ee, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1621268083, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA6gXgkfxRk9pFy3LevApEvgnqxlMjB0+/+Jo8US5NtrWU+gHAMshmq2NiwXKPJ//0uWng+HhT9Ubzuw=='}}
0:15:06.988068	LOG	Server ----------> DUT
0:15:06.991070	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:06.995071	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:11.858830	LOG	First uplink received. Open reception window.
0:15:11.963499	LOG	PUSH_ACK: 02 8efe 01
0:15:11.965466	LOG	GPS Time from gateway: 1385120055089
0:15:11.966466	LOG	PUSH_DATA: Protocol version = 02, Token = 8efe, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1624267826, 'time': '2023-11-27T11:33:56.089746Z', 'tmms': 1385120055089, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3377, 'rssi': -50, 'size': 20, 'data': 'QAAAAACALgkCWtAGFXSbaD6Kk+E='}]}
0:15:11.968465	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 092e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3e8a93e1)
0:15:11.969498	LOG	Server <---------- DUT
0:15:11.971498	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05eb, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 63643101)
0:15:11.973498	LOG	Frame command sent to the DUT
0:15:11.974498	LOG	PULL_RESP: Protocol version = 02, Token = d435, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1626267826, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA6wXg1/SOPQJrFzz/4F2UCfy26I8dQxFL76LyOS1WEnzkqqTa9vLB/Qhm++nRlyEm1Psw9NHcY2QxAQ=='}}
0:15:11.975497	LOG	Server ----------> DUT
0:15:11.978464	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:11.982498	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:16.804266	LOG	GPS Time updated: 1385120060035
0:15:16.806264	LOG	PULL_DATA: 02 954b 02 0016c001ff1025bf
0:15:16.808106	LOG	PULL_ACK: 02 954b 04
0:15:16.862436	LOG	First uplink received. Open reception window.
0:15:16.974121	LOG	PUSH_ACK: 02 fc87 01
0:15:16.976088	LOG	GPS Time from gateway: 1385120060089
0:15:16.977088	LOG	PUSH_DATA: Protocol version = 02, Token = fc87, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1629267598, 'time': '2023-11-27T11:34:01.089517Z', 'tmms': 1385120060089, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3369, 'rssi': -51, 'size': 20, 'data': 'QAAAAACALwkCsVimFUajBzWGTI4='}]}
0:15:16.978088	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 092f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 35864c8e)
0:15:16.980088	LOG	Server <---------- DUT
0:15:16.982088	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05ec, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 1200fd65)
0:15:16.983087	LOG	Frame command sent to the DUT
0:15:16.985088	LOG	PULL_RESP: Protocol version = 02, Token = 121a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1631267598, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA7AXgZFCsgzEYr2k1HBqgydFChc1j6SbyB19rXBmGuroQ6+gMjVPVzFZHQCjGgtMFGyf16AGmEgD9ZQ==''}}
0:15:16.986088	LOG	Server ----------> DUT
0:15:16.989088	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:16.993122	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:21.863821	LOG	First uplink received. Open reception window.
0:15:21.971971	LOG	PUSH_ACK: 02 48dd 01
0:15:21.973935	LOG	GPS Time from gateway: 1385120065089
0:15:21.974936	LOG	PUSH_DATA: Protocol version = 02, Token = 48dd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1634267373, 'time': '2023-11-27T11:34:06.089291Z', 'tmms': 1385120065089, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAMAkCOMOardsj8TPezYc='}]}
0:15:21.976935	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0930, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 33decd87)
0:15:21.977935	LOG	Server <---------- DUT
0:15:21.979944	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05ed, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: bfffb732)
0:15:21.981935	LOG	Frame command sent to the DUT
0:15:21.982934	LOG	PULL_RESP: Protocol version = 02, Token = eb43, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1636267373, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA7QXgK9TVs9tUeK1sqJWNu6B2N34x7BJ2MsRenPRIUwb3ZS54l5EdgtcXIUUNOU/1UtkWCoJvv/+3Mg==''}}
0:15:21.983934	LOG	Server ----------> DUT
0:15:21.986934	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:21.990934	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:26.814857	LOG	GPS Time updated: 1385120070039
0:15:26.816784	LOG	PULL_DATA: 02 0d1e 02 0016c001ff1025bf
0:15:26.818372	LOG	PULL_ACK: 02 0d1e 04
0:15:26.865579	LOG	First uplink received. Open reception window.
0:15:26.981967	LOG	PUSH_ACK: 02 75ee 01
0:15:26.983969	LOG	GPS Time from gateway: 1385120070088
0:15:26.984975	LOG	PUSH_DATA: Protocol version = 02, Token = 75ee, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1639267147, 'time': '2023-11-27T11:34:11.089064Z', 'tmms': 1385120070088, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAMQkCYQn/duTyV0Xv59w='}]}
0:15:26.985969	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0931, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 45efe7dc)

0:15:26.987969	LOG	Server <---------- DUT
0:15:26.989977	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05ee, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 98f87b8a)
0:15:26.990969	LOG	Frame command sent to the DUT
0:15:26.992968	LOG	PULL_RESP: Protocol version = 02, Token = 2bb5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1641267147, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA7gXg73d5oAhyEDVD+Mez9NS/cSjN+4CkV1HxBvkJgwsmNDmYrfR2xWmgzrIA+eBkb/hTLECVmPh7ig==''}}
0:15:26.993968	LOG	Server ----------> DUT
0:15:26.996969	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:27.000970	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:31.862000	LOG	First uplink received. Open reception window.
0:15:31.965358	LOG	PUSH_ACK: 02 be52 01
0:15:31.967358	LOG	GPS Time from gateway: 1385120075088
0:15:31.969328	LOG	PUSH_DATA: Protocol version = 02, Token = be52, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1644266886, 'time': '2023-11-27T11:34:16.088800Z', 'tmms': 1385120075088, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAMgkCPKRGcJ8B1PEtgY8='}]}
0:15:31.970328	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0932, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f12d818f)
0:15:31.971326	LOG	Server <---------- DUT
0:15:31.973326	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05ef, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: a1c4b59e)
0:15:31.975325	LOG	Frame command sent to the DUT
0:15:31.976325	LOG	PULL_RESP: Protocol version = 02, Token = 9c0b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1646266886, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA7wXg+PUzr9B9+xPpEpIgMvXBYveU+rv8FuT9/kJpGEQgL/sLqTuLcTSIjx2KeFUB2E2nhYp3ocS1ng==''}}
0:15:31.978325	LOG	Server ----------> DUT
0:15:31.981331	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:31.985328	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:36.858837	LOG	First uplink received. Open reception window.
0:15:36.969254	LOG	PUSH_ACK: 02 cf2c 01
0:15:36.971222	LOG	GPS Time from gateway: 1385120080088
0:15:36.972222	LOG	PUSH_DATA: Protocol version = 02, Token = cf2c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1649266628, 'time': '2023-11-27T11:34:21.088543Z', 'tmms': 1385120080088, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAMwkCRU5DhGSiTIeSEq4='}]}
0:15:36.973229	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0933, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 879212ae)
0:15:36.975229	LOG	Server <---------- DUT
0:15:36.977222	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05f0, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 9c80e1f5)
0:15:36.978222	LOG	Frame command sent to the DUT

0:15:36.980223	LOG	PULL_RESP: Protocol version = 02, Token = 4caa, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1651266628, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA8AXggCjgoKm6WjG4s3M4lnAfAcTSXKZnyY98MLXhqlKb1ZdERuRzT7YCjYBSZdwZE7di0/yVnIDh9Q==''}}
0:15:36.981221	LOG	Server ----------> DUT
0:15:36.984223	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:36.988223	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:41.856876	LOG	First uplink received. Open reception window.
0:15:41.969533	LOG	PUSH_ACK: 02 89ad 01
0:15:41.971527	LOG	GPS Time from gateway: 1385120085088
0:15:41.972526	LOG	PUSH_DATA: Protocol version = 02, Token = 89ad, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1654266364, 'time': '2023-11-27T11:34:26.088279Z', 'tmms': 1385120085088, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACANAkC8zo1YAkVfKfv/z0='}]}
0:15:41.974522	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0934, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a7efff3d)
0:15:41.975526	LOG	Server <---------- DUT
0:15:41.977526	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05f1, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: e126fe27)
0:15:41.978525	LOG	Frame command sent to the DUT
0:15:41.980493	LOG	PULL_RESP: Protocol version = 02, Token = 1eae, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1656266364, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA8QXg9+eY/GZJYTioO8lZhjLq9BU4K8tElS2spyMoY0nNWH9QngBH+WA1Pm4fmtpA7MnV5lTh4Sb+Jw==''}}
0:15:41.981492	LOG	Server ----------> DUT
0:15:41.984496	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:41.988511	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:46.855763	LOG	First uplink received. Open reception window.
0:15:46.962898	LOG	PUSH_ACK: 02 3f7b 01
0:15:46.964935	LOG	GPS Time from gateway: 1385120090087
0:15:46.965897	LOG	PUSH_DATA: Protocol version = 02, Token = 3f7b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1659266131, 'time': '2023-11-27T11:34:31.088044Z', 'tmms': 1385120090087, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACANQkCB3ohoslvMZ+Ph+E='}]}
0:15:46.967931	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0935, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9f8f87e1)
0:15:46.968946	LOG	Server <---------- DUT
0:15:46.970930	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05f2, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 1f0bafb6)
0:15:46.972937	LOG	Frame command sent to the DUT
0:15:46.973930	LOG	PULL_RESP: Protocol version = 02, Token = 3431, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1661266131, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA8gXgHbQ9N9bZk/FvGWeRjUdxfsGw7mxucg3OqUK4uOo9jSC95OQWGg2firiaILK6x+O38BDCHwuvtg==''}}
0:15:46.974930	LOG	Server ----------> DUT

0:15:46.977898	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:46.981927	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:47.185035	LOG	GPS Time updated: 1385120090417
0:15:47.186045	LOG	PULL_DATA: 02 c99c 02 0016c001ff1025bf
0:15:47.188044	LOG	PULL_ACK: 02 c99c 04
0:15:51.860945	LOG	First uplink received. Open reception window.
0:15:51.966925	LOG	PUSH_ACK: 02 0996 01
0:15:51.968893	LOG	GPS Time from gateway: 1385120095087
0:15:51.969893	LOG	PUSH_DATA: Protocol version = 02, Token = 0996, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1664265874, 'time': '2023-11-27T11:34:36.087785Z', 'tmms': 1385120095087, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3369, 'rssi': -50, 'size': 20, 'data': 'QAAAAACANgkCqOd009GQ5PZamPw='}]}
0:15:51.970893	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0936, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f65a98fc)
0:15:51.972894	LOG	Server <---------- DUT
0:15:51.974899	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05f3, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 56a3e386)
0:15:51.975893	LOG	Frame command sent to the DUT
0:15:51.977893	LOG	PULL_RESP: Protocol version = 02, Token = 5143, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1666265874, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA8wXg6Zir1FX0v4zHfzL+67+UpIEQlnKNS5hcdFapxp3EHkcZJcQMvL5fUWPL+d3RqeluPGi+VqPjhg==''}}
0:15:51.978893	LOG	Server ----------> DUT
0:15:51.981894	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:51.985732	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:56.859631	LOG	First uplink received. Open reception window.
0:15:56.968710	LOG	PUSH_ACK: 02 464f 01
0:15:56.970710	LOG	GPS Time from gateway: 1385120100087
0:15:56.971712	LOG	PUSH_DATA: Protocol version = 02, Token = 464f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1669265651, 'time': '2023-11-27T11:34:41.087563Z', 'tmms': 1385120100087, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3366, 'rssi': -51, 'size': 20, 'data': 'QAAAAACANwkCwhnjSs7nZkezi5Q='}]}
0:15:56.973712	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0937, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 47b38b94)
0:15:56.974710	LOG	Server <---------- DUT
0:15:56.976712	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05f4, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 71a1fada)
0:15:56.977710	LOG	Frame command sent to the DUT
0:15:56.979711	LOG	PULL_RESP: Protocol version = 02, Token = f5ea, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1671265651, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA9AXgxRWWIm4r/6exerPtp59S8h3VLmvI3EOmetoKDwOJOnOIYf3a7McnCzqWGVnDqNTK0tWccaH62g==''}}
0:15:56.980710	LOG	Server ----------> DUT
0:15:56.983727	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:56.986745	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:57.393847	LOG	GPS Time updated: 1385120100621

0:15:57.395812	LOG	PULL_DATA: 02 5ddc 02 0016c001ff1025bf
0:15:57.397847	LOG	PULL_ACK: 02 5ddc 04
0:16:01.863135	LOG	First uplink received. Open reception window.
0:16:01.968793	LOG	PUSH_ACK: 02 9a5a 01
0:16:01.970792	LOG	GPS Time from gateway: 1385120105087
0:16:01.972303	LOG	PUSH_DATA: Protocol version = 02, Token = 9a5a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1674265391, 'time': '2023-11-27T11:34:46.087302Z', 'tmms': 1385120105087, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3369, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAOAkCLFU4djOjQrv+l5U='}]}
0:16:01.973356	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0938, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: bbfe9795)
0:16:01.975372	LOG	Server <---------- DUT
0:16:01.976358	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05f5, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 94b7f2c7)
0:16:01.978356	LOG	Frame command sent to the DUT
0:16:01.979357	LOG	PULL_RESP: Protocol version = 02, Token = 8d88, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1676265391, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA9QXgG/JuhRjwSyXx0WH/J7UeiTc/jrI/wQYPnXVNQpIaJor4PvY06DX89dKdm7VMwsF6lY7vlLfyxw=='}}
0:16:01.981325	LOG	Server ----------> DUT
0:16:01.984324	LOG	Send Test Command TxFramesCtrlReq process completed
0:16:01.987324	LOG	Send Test Command TxFramesCtrlReq process starts
0:16:06.861121	LOG	First uplink received. Open reception window.
0:16:06.962142	LOG	PUSH_ACK: 02 63e2 01
0:16:06.964148	LOG	GPS Time from gateway: 1385120110086
0:16:06.965149	LOG	PUSH_DATA: Protocol version = 02, Token = 63e2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1679265133, 'time': '2023-11-27T11:34:51.087043Z', 'tmms': 1385120110086, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAOQkCvHXa97I5t6GJcbE='}]}
0:16:06.967188	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0939, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a18971b1)
0:16:06.968180	LOG	Server <---------- DUT
0:16:06.970148	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05f6, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 1d24fda9)
0:16:06.972148	LOG	Frame command sent to the DUT
0:16:06.973179	LOG	PULL_RESP: Protocol version = 02, Token = 9f76, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1681265133, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA9gXgn0MSBIq6MuZuJuNNIXOKutWTAFDYv+pQ0X2pXylcBSl0A5SA+leozzce02nXCXavpCP8HST9qQ=='}}
0:16:06.974190	LOG	Server ----------> DUT
0:16:06.977149	LOG	Send Test Command TxFramesCtrlReq process completed
0:16:06.981449	LOG	Send Test Command TxFramesCtrlReq process starts
0:16:07.604993	LOG	GPS Time updated: 1385120110829
0:16:07.605993	LOG	PULL_DATA: 02 37f9 02 0016c001ff1025bf
0:16:07.607993	LOG	PULL_ACK: 02 37f9 04
0:16:11.854127	LOG	First uplink received. Open reception window.

0:16:11.964984	LOG	PUSH_ACK: 02 a644 01
0:16:11.966949	LOG	GPS Time from gateway: 1385120115086
0:16:11.967953	LOG	PUSH_DATA: Protocol version = 02, Token = a644, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1684264865, 'time': '2023-11-27T11:34:56.086775Z', 'tmms': 1385120115086, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAOgkC7VTk40tzcp3hzrM='}]}
0:16:11.968953	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 093a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9de1ceb3)
0:16:11.970954	LOG	Server <---------- DUT
0:16:11.971954	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05f7, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: af981165)
0:16:11.973953	LOG	Frame command sent to the DUT
0:16:11.974954	LOG	PULL_RESP: Protocol version = 02, Token = af55, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1686264865, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA9wXgTHVlmPZaohJ6g7U4SoZ833Cv2jklCjj36iDpnupbBMCJKn47cm1q+KOggNYrwAzMVY9ir5gRZQ=='}}
0:16:11.976954	LOG	Server ----------> DUT
0:16:11.979956	LOG	Send Test Command TxFramesCtrlReq process completed
0:16:11.983550	LOG	Send Test Command TxFramesCtrlReq process starts
0:16:16.857180	LOG	#**********CURRENT BEACON SENT**********#
0:16:16.859180	LOG	PULL_RESP: Protocol version = 02, Token = f7f3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385120128000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAQY9StIYAAAAAAAAAAA='}}
0:16:16.860191	LOG	Server ----------> DUT
0:16:16.861214	LOG	#**********#
0:16:16.871182	LOG	#**********NEXT BEACON QUEUED**********#
0:16:16.873189	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385120256000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAQo9S3AIAAAAAAAAAAA='}}
0:16:16.874216	LOG	Server ----------> DUT
0:16:16.875218	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 00428f52, CRC1: dc02, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385120256000
0:16:16.877188	LOG	#**********#
0:16:16.878219	LOG	Next BEACON scheduled at GPS time (ms): 1385120384000
0:16:16.879221	LOG	First uplink received. Open reception window.
0:16:16.881186	LOG	TX_ACK: 02 f7f3 05 0016c001ff1025bf
0:16:16.985796	LOG	PUSH_ACK: 02 171b 01
0:16:16.987999	LOG	GPS Time from gateway: 1385120120086
0:16:16.988998	LOG	PUSH_DATA: Protocol version = 02, Token = 171b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1689264618, 'time': '2023-11-27T11:35:01.086525Z', 'tmms': 1385120120086, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAOwkC15AY39Vc/VuAf0I='}]}
0:16:16.990998	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 093b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5b807f42)

0:16:16.991998	LOG	Server <---------- DUT
0:16:16.993998	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05f8, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 3374f371)
0:16:16.994998	LOG	Frame command sent to the DUT
0:16:16.996998	LOG	PULL_RESP: Protocol version = 02, Token = 9a0e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1691264618, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA+AXgBJRQdJvmLw6N/DGjWI7L3FTPIVAW/Xj52n5j6ONW9gfe+z9AQt4epHCJLw/OrBirv4aRM3TzcQ==''}}
0:16:16.997998	LOG	Server ----------> DUT
0:16:17.001000	LOG	Send Test Command TxFramesCtrlReq process completed
0:16:17.003997	LOG	Send Test Command TxFramesCtrlReq process starts
0:16:17.623958	LOG	GPS Time updated: 1385120120828
0:16:17.626002	LOG	PULL_DATA: 02 32d6 02 0016c001ff1025bf
0:16:17.626976	LOG	PULL_ACK: 02 32d6 04
0:16:21.854663	LOG	First uplink received. Open reception window.
0:16:21.957204	LOG	PUSH_ACK: 02 6d01 01
0:16:21.959239	LOG	GPS Time from gateway: 1385120125086
0:16:21.960207	LOG	PUSH_DATA: Protocol version = 02, Token = 6d01, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1694264345, 'time': '2023-11-27T11:35:06.086254Z', 'tmms': 1385120125086, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3377, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAPAkCUhTQ+XmHL2BRfd8='}]}
0:16:21.962243	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 093c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 60517ddf)
0:16:21.963239	LOG	Server <---------- DUT
0:16:21.965206	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05f9, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 7ff9ce08)
0:16:21.967265	LOG	Frame command sent to the DUT
0:16:21.968241	LOG	PULL_RESP: Protocol version = 02, Token = 8fd5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1696264345, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA+QXg+xYhLYim2tCddOlkqC/W9psQt0ir0j+92jmvuKzK9P+mc2qFafa0sH7sz1aIIem+LGMNf/nOCA==''}}
0:16:21.969239	LOG	Server ----------> DUT
0:16:21.972258	LOG	Send Test Command TxFramesCtrlReq process completed
0:16:21.976206	LOG	Send Test Command TxFramesCtrlReq process starts
0:16:26.859406	LOG	First uplink received. Open reception window.
0:16:26.974845	LOG	PUSH_ACK: 02 998c 01
0:16:26.976845	LOG	GPS Time from gateway: 1385120130085
0:16:26.977815	LOG	PUSH_DATA: Protocol version = 02, Token = 998c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1699264094, 'time': '2023-11-27T11:35:11.086001Z', 'tmms': 1385120130085, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3366, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAPQkC1Laq5i6L5dr45VQ='}]}
0:16:26.978851	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 093d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: daf8e554)
0:16:26.980849	LOG	Server <---------- DUT
0:16:26.981846	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05fa, FOpts:), FPort: e0, FRMPayload:

		07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: edab27ae)
0:16:26.983882	LOG	Frame command sent to the DUT
0:16:26.984882	LOG	PULL_RESP: Protocol version = 02, Token = dd51, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1701264094, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA+gXgwqpuNgnUxbaP0QoVAIpKvOCoEIuZLWjTgu6SaVmMwh9kopBWPTgpNRjbVWJ1TvrBzmxv7asnrg==''}}
0:16:26.986874	LOG	Server ----------> DUT
0:16:26.989853	LOG	Send Test Command TxFramesCtrlReq process completed
0:16:26.992885	LOG	Send Test Command TxFramesCtrlReq process starts
0:16:27.823660	LOG	GPS Time updated: 1385120131049
0:16:27.825628	LOG	PULL_DATA: 02 d0d8 02 0016c001ff1025bf
0:16:27.826627	LOG	PULL_ACK: 02 d0d8 04
0:16:31.858050	LOG	First uplink received. Open reception window.
0:16:31.973035	LOG	PUSH_ACK: 02 0799 01
0:16:31.975004	LOG	GPS Time from gateway: 1385120135085
0:16:31.976003	LOG	PUSH_DATA: Protocol version = 02, Token = 0799, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1704263840, 'time': '2023-11-27T11:35:16.085747Z', 'tmms': 1385120135085, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAPgkClgsLwomgVbQctGw=''}]}
0:16:31.978004	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 093e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b41cb46c)
0:16:31.979003	LOG	Server <---------- DUT
0:16:31.981004	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05fb, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 827b29c2)
0:16:31.982003	LOG	Frame command sent to the DUT
0:16:31.984003	LOG	PULL_RESP: Protocol version = 02, Token = 1323, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1706263840, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA+wXgchPZDT+ApQ0ERYB0rHgHgWQi/pGdi5zxgRkTEJ7rQkcG8QJzcZSTFmZjUD6vwXARSeCygnspwg==''}}
0:16:31.985003	LOG	Server ----------> DUT
0:16:31.988022	LOG	Send Test Command TxFramesCtrlReq process completed
0:16:31.992041	LOG	Send Test Command TxFramesCtrlReq process starts
0:16:36.854505	LOG	First uplink received. Open reception window.
0:16:36.963964	LOG	PUSH_ACK: 02 7510 01
0:16:36.965964	LOG	GPS Time from gateway: 1385120140085
0:16:36.966966	LOG	PUSH_DATA: Protocol version = 02, Token = 7510, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1709263579, 'time': '2023-11-27T11:35:21.085485Z', 'tmms': 1385120140085, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAPwkCsFOoYieVwJeema0=''}]}
0:16:36.967965	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 093f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 979e99ad)
0:16:36.969964	LOG	Server <---------- DUT
0:16:36.970964	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05fc, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 04f9efc6)
0:16:36.972964	LOG	Frame command sent to the DUT

0:16:36.973964	LOG	PULL_RESP: Protocol version = 02, Token = 9231, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1711263579, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA/AXgnJt+t3+IvMogOzCH5sRUIVxu1+HZxzamcvASnoRnG2U/pWqBhX3RbphMfPCZp1bMIr/4BPnvxg==''}}
0:16:36.975998	LOG	Server ----------> DUT
0:16:36.978968	LOG	Send Test Command TxFramesCtrlReq process completed
0:16:36.982966	LOG	Send Test Command TxFramesCtrlReq process starts
0:16:38.023944	LOG	GPS Time updated: 1385120141254
0:16:38.025913	LOG	PULL_DATA: 02 3035 02 0016c001ff1025bf
0:16:38.026946	LOG	PULL_ACK: 02 3035 04
0:16:41.855325	LOG	First uplink received. Open reception window.
0:16:41.968107	LOG	PUSH_ACK: 02 6f76 01
0:16:41.970075	LOG	GPS Time from gateway: 1385120145085
0:16:41.971074	LOG	PUSH_DATA: Protocol version = 02, Token = 6f76, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1714263312, 'time': '2023-11-27T11:35:26.085218Z', 'tmms': 1385120145085, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAQAkCDtzVNYYrlY1SHkA='}]}
0:16:41.972075	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0940, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8d521e40)
0:16:41.974075	LOG	Server <---------- DUT
0:16:41.976075	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05fd, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 72dd195e)
0:16:41.977074	LOG	Frame command sent to the DUT
0:16:41.979075	LOG	PULL_RESP: Protocol version = 02, Token = 3854, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1716263312, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAA/QXg7deqDmIWkW6kdygq+LsBYZ87imoWrp+LVaM+rO7Q1Tvkn4zEZDdjkI4XDPBQhqMKCLmJct0ZXg==''}}
0:16:41.980074	LOG	Server ----------> DUT
0:16:41.983077	LOG	Send Test Command TxFramesCtrlReq process completed
0:16:41.986109	LOG	Send Test Command TxFramesCtrlReq process starts
0:16:46.851995	LOG	First uplink received. Open reception window.
0:16:46.958829	LOG	PUSH_ACK: 02 84cc 01
0:16:46.960824	LOG	GPS Time from gateway: 1385120150084
0:16:46.961831	LOG	PUSH_DATA: Protocol version = 02, Token = 84cc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1719263081, 'time': '2023-11-27T11:35:31.084986Z', 'tmms': 1385120150084, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAQQkCU242tthNy1BVieg='}]}
0:16:46.962832	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0941, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 505589e8)
0:16:46.964796	LOG	Server <---------- DUT
0:16:46.966830	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05fe, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 27a023aa)
0:16:46.967798	LOG	Frame command sent to the DUT
0:16:46.969796	LOG	PULL_RESP: Protocol version = 02, Token = 634a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1721263081, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data':

		'YAAAAAAA/gXg0/b07hQyYY91lHK1zyMznbms1MVRfew8UyFkRIuXnP7/5r9 KghlS9SO+F7UmYrnBA2pHJ6Ajqg==''}}
0:16:46.970796	LOG	Server ----------> DUT
0:16:46.973798	LOG	Send Test Command TxFramesCtrlReq process completed
0:16:46.977796	LOG	Step 06-07
0:16:46.980797	LOG	Send Test Command RxAppCntReq process starts
0:16:48.233472	LOG	GPS Time updated: 1385120151467
0:16:48.235471	LOG	PULL_DATA: 02 521e 02 0016c001ff1025bf
0:16:48.236469	LOG	PULL_ACK: 02 521e 04
0:16:51.854871	LOG	First uplink received. Open reception window.
0:16:51.960126	LOG	PUSH_ACK: 02 26b6 01
0:16:51.962126	LOG	GPS Time from gateway: 1385120155084
0:16:51.963126	LOG	PUSH_DATA: Protocol version = 02, Token = 26b6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1724262822, 'time': '2023-11-27T11:35:36.084726Z', 'tmms': 1385120155084, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAQgkCNOv1h7xBWXN5a9g='}]}
0:16:51.964126	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0942, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 73796bd8)
0:16:51.966139	LOG	Server <---------- DUT
0:16:51.968128	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 05ff, FOpts:), FPort: e0, FRMPayload: 09), MIC: 1fdcacfe)
0:16:51.969144	LOG	Frame command sent to the DUT
0:16:51.971126	LOG	PULL_RESP: Protocol version = 02, Token = 7ee8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1726262822, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAA/wXg8x/crP4='}}
0:16:51.972126	LOG	Server ----------> DUT
0:16:51.976163	LOG	TX_ACK: 02 7ee8 05 0016c001ff1025bf
0:16:54.228334	LOG	First uplink received. Open reception window.
0:16:54.335045	LOG	PUSH_ACK: 02 005d 01
0:16:54.337014	LOG	GPS Time from gateway: 1385120157453
0:16:54.338046	LOG	PUSH_DATA: Protocol version = 02, Token = 005d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1726631327, 'time': '2023-11-27T11:35:38.453231Z', 'tmms': 1385120157453, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3377, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAQwng8EdiSzTpdg==''}]}
0:16:54.339071	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0943, FOpts:), FPort: e0, FRMPayload: 097b04, MIC: 4b34e976)
0:16:54.341015	LOG	Server <---------- DUT
0:16:54.342046	LOG	Frame Command Payload in the Answer: 097b04
0:16:54.346045	LOG	RX Count received by DUT: 1147
0:16:54.348019	LOG	Send Test Command RxAppCntReq process completed
0:16:54.356045	LOG	End Test Step: Test packet error rate for SF10BW125 using RX2 window
0:16:54.360046	LOG	Partial Verdict: PASS
0:16:54.364046	LOG	==========
0:16:54.368014	LOG	==========
0:16:54.370117	LOG	Start Test Step: Test packet error rate for SF9BW125 using RX2 window
0:16:54.381112	LOG	Step 01-03
0:16:54.385110	LOG	Send RXParamSetupReq process starts
0:16:56.859696	LOG	First uplink received. Open reception window.
0:16:56.965443	LOG	PUSH_ACK: 02 a2c6 01
0:16:56.967410	LOG	GPS Time from gateway: 1385120160084
0:16:56.968412	LOG	PUSH_DATA: Protocol version = 02, Token = a2c6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1729262569, 'time': '2023-11-27T11:35:41.084472Z', 'tmms': 1385120160084, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3366, 'rssi': -51, 'size': 20, 'data': 'QAAAAACARAkCUX3lXN7UWUyPfso='}]}
0:16:56.970410	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0944, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4c8f7eca)
0:16:56.971414	LOG	Server <---------- DUT
0:16:56.973446	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0600, FOpts:), FPort: 00, FRMPayload: 0503d2ad84), MIC: 00a74495)
0:16:56.975435	LOG	PULL_RESP: Protocol version = 02, Token = 3344, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1731262569, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAAAYAyaFB0lMAp0SV'}}
0:16:56.976445	LOG	Server ----------> DUT
0:16:56.978500	LOG	TX_ACK: 02 3344 05 0016c001ff1025bf
0:16:58.443127	LOG	GPS Time updated: 1385120161668
0:16:58.445127	LOG	PULL_DATA: 02 c2d4 02 0016c001ff1025bf
0:16:58.447095	LOG	PULL_ACK: 02 c2d4 04
0:17:01.854965	LOG	First uplink received. Open reception window.
0:17:01.965678	LOG	PUSH_ACK: 02 9c2f 01
0:17:01.967699	LOG	GPS Time from gateway: 1385120165084
0:17:01.969648	LOG	PUSH_DATA: Protocol version = 02, Token = 9c2f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1734262416, 'time': '2023-11-27T11:35:46.084316Z', 'tmms': 1385120165084, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3370, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCRQkFBwK2MM4iEEH5rETVMA=='}]}
0:17:01.970681	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0945, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: ac44d530)
0:17:01.971647	LOG	Server <---------- DUT
0:17:01.973646	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:17:01.975645	LOG	Command Answer: 0507
0:17:01.987646	LOG	MAC command communication completed
0:17:01.991645	LOG	Step 03-04
0:17:02.001645	LOG	Send Test Command RxAppCntReq process starts
0:17:06.859182	LOG	First uplink received. Open reception window.
0:17:06.974888	LOG	PUSH_ACK: 02 d69f 01
0:17:06.976889	LOG	GPS Time from gateway: 1385120170083
0:17:06.977890	LOG	PUSH_DATA: Protocol version = 02, Token = d69f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1739262149, 'time': '2023-11-27T11:35:51.084051Z', 'tmms': 1385120170083, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3374, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCRgkFBwIGPW6OGjJFElq3mw=='}]}
0:17:06.978889	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0946, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 125ab79b)
0:17:06.980892	LOG	Server <---------- DUT
0:17:06.981923	LOG	MAC Command RXParamSetupAns received
0:17:06.983892	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0601, FOpts:), FPort: e0, FRMPayload: 09), MIC: 3198e086)
0:17:06.984923	LOG	Frame command sent to the DUT
0:17:06.986922	LOG	PULL_RESP: Protocol version = 02, Token = 5b9f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1741262149, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAAQbgsTGY4IY='}}
0:17:06.987926	LOG	Server ----------> DUT
0:17:06.990925	LOG	TX_ACK: 02 5b9f 05 0016c001ff1025bf
0:17:08.453976	LOG	GPS Time updated: 1385120171677
0:17:08.455944	LOG	PULL_DATA: 02 526f 02 0016c001ff1025bf

0:17:08.456944	LOG	PULL_ACK: 02 526f 04
0:17:09.074842	LOG	First uplink received. Open reception window.
0:17:09.183456	LOG	PUSH_ACK: 02 2b22 01
0:17:09.185423	LOG	GPS Time from gateway: 1385120172303
0:17:09.186423	LOG	PUSH_DATA: Protocol version = 02, Token = 2b22, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1741481971, 'time': '2023-11-27T11:35:53.303872Z', 'tmms': 1385120172303, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3370, 'rssi': -51, 'size': 16, 'data': 'QAAAAACARwngE45ndiCf3g=='}]}
0:17:09.187424	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0947, FOpts:), FPort: e0, FRMPayload: 097c04, MIC: 76209fde)
0:17:09.189424	LOG	Server <-------------------- DUT
0:17:09.190424	LOG	Frame Command Payload in the Answer: 097c04
0:17:09.194424	LOG	RX Count received by DUT: 1148
0:17:09.196423	LOG	Send Test Command RxAppCntReq process completed
0:17:09.201439	LOG	Step 05
0:17:09.204455	LOG	Send Test Command TxFramesCtrlReq process starts
0:17:12.825106	LOG	First uplink received. Open reception window.
0:17:12.931722	LOG	PUSH_ACK: 02 4832 01
0:17:12.933756	LOG	GPS Time from gateway: 1385120176048
0:17:12.934726	LOG	PUSH_DATA: Protocol version = 02, Token = 4832, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1745227253, 'time': '2023-11-27T11:35:57.049153Z', 'tmms': 1385120176048, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3369, 'rssi': -51, 'size': 20, 'data': 'QAAAAACASAkCl7tCERqpzzXuRCw='}]}
0:17:12.935757	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0948, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 35ee442c)
0:17:12.937723	LOG	Server <-------------------- DUT
0:17:12.939724	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0602, FOpts:), FPort: e0, FRMPayload: 070001), MIC: d4d793fb)
0:17:12.940723	LOG	Frame command sent to the DUT
0:17:12.942724	LOG	PULL_RESP: Protocol version = 02, Token = 4311, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1747227253, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAAgbgpJq31PM4B20rbH8a2dLYKLKzTwf8PgiJ2GTFSNlZaCkBBkGW40jn+JQ7Bhf1a2AvsOOFJfzr0ENQjcK8AYAXta7+vPu/F0MmJIqBiqNFZpRkVDDunLL5/kg7bIY/qeqHMxG9bEpxb/9/X2w1tFl39Q66U9TXk/s='}}
0:17:12.943722	LOG	Server --------------------> DUT
0:17:12.946724	LOG	Send Test Command TxFramesCtrlReq process completed
0:17:12.950234	LOG	Send Test Command TxFramesCtrlReq process starts
0:17:12.955269	LOG	TX_ACK: 02 4311 05 0016c001ff1025bf
0:17:17.598753	LOG	First uplink received. Open reception window.
0:17:17.710019	LOG	PUSH_ACK: 02 bcbd 01
0:17:17.712020	LOG	GPS Time from gateway: 1385120180825
0:17:17.712988	LOG	PUSH_DATA: Protocol version = 02, Token = bcbd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1750003702, 'time': '2023-11-27T11:36:01.825602Z', 'tmms': 1385120180825, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACASQkC7WllqjCMzNqAnUA='}]}
0:17:17.714986	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0949, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: da809d40)

0:17:17.715987	LOG	Server <-------------------- DUT
0:17:17.717988	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0603, FOpts:), FPort: e0, FRMPayload: 070001), MIC: b39fa0e9)
0:17:17.718986	LOG	Frame command sent to the DUT
0:17:17.720991	LOG	PULL_RESP: Protocol version = 02, Token = bac4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1752003702, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAAwbgfZvy5TRQqea7AcV1fgP7Dx8oiNvDqkT/hXzkPLwBTw4wcxQWqw3O4YL6nkichUJaLdssGE6gsTc/L6czKj+r5eARmuA6upptBk3MtxpwtYeeb+gb1Sf83YMoml7n+TWRGpnmabFT9kyKAzbvyT8OKAOBObOfoOk='}}
0:17:17.721987	LOG	Server --------------------> DUT
0:17:17.724989	LOG	Send Test Command TxFramesCtrlReq process completed
0:17:17.728989	LOG	Send Test Command TxFramesCtrlReq process starts
0:17:18.564349	LOG	GPS Time updated: 1385120181791
0:17:18.565348	LOG	PULL_DATA: 02 42ec 02 0016c001ff1025bf
0:17:18.567349	LOG	PULL_ACK: 02 42ec 04
0:17:22.593080	LOG	First uplink received. Open reception window.
0:17:22.696040	LOG	PUSH_ACK: 02 f2b1 01
0:17:22.698007	LOG	GPS Time from gateway: 1385120185825
0:17:22.699007	LOG	PUSH_DATA: Protocol version = 02, Token = f2b1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1755003444, 'time': '2023-11-27T11:36:06.825343Z', 'tmms': 1385120185825, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3377, 'rssi': -50, 'size': 20, 'data': 'QAAAAACASgkC/QJxitI/lSCXm/A='}]}
0:17:22.701008	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 094a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 20979bf0)
0:17:22.702008	LOG	Server <-------------------- DUT
0:17:22.704022	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0604, FOpts:), FPort: e0, FRMPayload: 070001), MIC: b752accd)
0:17:22.705007	LOG	Frame command sent to the DUT
0:17:22.707007	LOG	PULL_RESP: Protocol version = 02, Token = 1138, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1757003444, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAABAbgWsAe3rgUn6Ei7ndy2vCtNuKkfhjxE2l/b2Zzk49AIdK2M1v5l2F6aim046XCpFX4ziDj8QR/mj0Jtu+FSNLwyUSbk1V8Q6H/vbq45NWYNjast0QHVU2SEGVH0hGxtDTovUAb3f4CAIyp9b3DEggnMX0NfrdSrM0='}}
0:17:22.708007	LOG	Server --------------------> DUT
0:17:22.711026	LOG	Send Test Command TxFramesCtrlReq process completed
0:17:22.715007	LOG	Send Test Command TxFramesCtrlReq process starts
0:17:27.595284	LOG	First uplink received. Open reception window.
0:17:27.706545	LOG	PUSH_ACK: 02 7db5 01
0:17:27.708546	LOG	GPS Time from gateway: 1385120190824
0:17:27.710512	LOG	PUSH_DATA: Protocol version = 02, Token = 7db5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1760003196, 'time': '2023-11-27T11:36:11.825094Z', 'tmms': 1385120190824, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACASwkC4g4LIVB9VcPa5I4='}]}

0:17:27.711545	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 094b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c3dae48e)
0:17:27.712545	LOG	Server <-------------------- DUT
0:17:27.714513	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0605, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101), MIC: 0ef2b265)
0:17:27.716545	LOG	Frame command sent to the DUT
0:17:27.717544	LOG	PULL_RESP: Protocol version = 02, Token = 1b96, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1762003196, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAABQbgliFN9K+uldGoVQgJFrveeRV3ALIg82j/20czL0vy9kYD8ysxzj 7cmE4rQxbqtX1ARHWpm2B1PbknOEFY9Fxxv+hBRFFTMaQjX6aLXAykf1IC M5qb8J5IN4M2jGGlypHSCM8hhMkaBrmFWHFTZOCKPepAew7ysmU='}}
0:17:27.718544	LOG	Server --------------------> DUT
0:17:27.722546	LOG	Send Test Command TxFramesCtrlReq process completed
0:17:27.725544	LOG	Send Test Command TxFramesCtrlReq process starts
0:17:28.763299	LOG	GPS Time updated: 1385120191992
0:17:28.764804	LOG	PULL_DATA: 02 95a4 02 0016c001ff1025bf
0:17:28.766811	LOG	PULL_ACK: 02 95a4 04
0:17:32.591426	LOG	First uplink received. Open reception window.
0:17:32.693904	LOG	PUSH_ACK: 02 6b96 01
0:17:32.695866	LOG	GPS Time from gateway: 1385120195824
0:17:32.696868	LOG	PUSH_DATA: Protocol version = 02, Token = 6b96, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1765002937, 'time': '2023-11-27T11:36:16.824833Z', 'tmms': 1385120195824, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACATAkCVS5GI47YeWG7w0A='}]}
0:17:32.698868	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 094c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 61bbc340)
0:17:32.699903	LOG	Server <-------------------- DUT
0:17:32.701895	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0606, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101), MIC: fe4dfe3a)
0:17:32.703869	LOG	Frame command sent to the DUT
0:17:32.704901	LOG	PULL_RESP: Protocol version = 02, Token = d0fc, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1767002937, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAABgbgVGWQc0J9zQ45XTJiueG05KrYsINfYKCr/ioZ3e4yd7EfNkU 5Nwn728VNXmLSAxl3tbVqrmuB525bfSct/dQtJBJQiv+sQEOP/acf3VQ/rH1Rnv YBUeyJmENszihkME4FR+D9ftRwgaG5TyyHqAsoaYDkEv5N/jo='}}
0:17:32.705901	LOG	Server --------------------> DUT
0:17:32.708872	LOG	Send Test Command TxFramesCtrlReq process completed
0:17:32.712902	LOG	Send Test Command TxFramesCtrlReq process starts
0:17:37.591097	LOG	First uplink received. Open reception window.
0:17:37.699735	LOG	PUSH_ACK: 02 011a 01
0:17:37.701733	LOG	GPS Time from gateway: 1385120200824
0:17:37.702733	LOG	PUSH_DATA: Protocol version = 02, Token = 011a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1770002672, 'time': '2023-11-27T11:36:21.824569Z', 'tmms': 1385120200824, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3369, 'rssi': -50, 'size': 20, 'data': 'QAAAAACATQkCSmQD74LArz21RYs='}]}
0:17:37.704703	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 094d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3db5458b)
0:17:37.705703	LOG	Server <-------------------- DUT
0:17:37.707704	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0607, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101), MIC: 0750ae1f)
0:17:37.709734	LOG	Frame command sent to the DUT
0:17:37.710736	LOG	PULL_RESP: Protocol version = 02, Token = fd4e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1772002672, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAABwbgcDaVIxlxWzOROMO+sbb9LZtiCPTGKDdvfwXXVmP/GNJ8cdj1hJH5Ax2vpLghpmbyhuDA3CIK4jFkeMArDBXaYA3k85zqo00NJm82wf3aCQptEzgN4N/grgSA5IAETvrTgkdMD0GJRKGhpWvmjFwJngOIPQdQrh8='}}
0:17:37.711737	LOG	Server --------------------> DUT
0:17:37.714736	LOG	Send Test Command TxFramesCtrlReq process completed
0:17:37.718703	LOG	Send Test Command TxFramesCtrlReq process starts
0:17:38.974234	LOG	GPS Time updated: 1385120202206
0:17:38.975237	LOG	PULL_DATA: 02 3ca3 02 0016c001ff1025bf
0:17:38.977240	LOG	PULL_ACK: 02 3ca3 04
0:17:42.592801	LOG	First uplink received. Open reception window.
0:17:42.701467	LOG	PUSH_ACK: 02 e0fe 01
0:17:42.703433	LOG	GPS Time from gateway: 1385120205824
0:17:42.704433	LOG	PUSH_DATA: Protocol version = 02, Token = e0fe, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1775002438, 'time': '2023-11-27T11:36:26.824334Z', 'tmms': 1385120205824, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACATgkC3QVBjSC0YL+B8eM='}]}
0:17:42.705433	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 094e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: bf81f1e3)
0:17:42.707434	LOG	Server <-------------------- DUT
0:17:42.709433	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0608, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101), MIC: d798b85d)
0:17:42.711433	LOG	Frame command sent to the DUT
0:17:42.712433	LOG	PULL_RESP: Protocol version = 02, Token = f6b2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1777002438, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAACAbgRsHkzJXlIdBIa7GBE2SMyYQuivp5vDfPXEYO85ugV1B6kReENDEAEvbBsFyO/F2DFzJTW583JbJ8QEefDajS+Xcl57oOgu3yLdOuQUwSU7wE5AyZT2dGqKFGCW24j4frn8N8ZZNFLc6eYzHmZcBjY3ck1teYuF0='}}
0:17:42.713433	LOG	Server --------------------> DUT
0:17:42.717454	LOG	Send Test Command TxFramesCtrlReq process completed
0:17:42.720432	LOG	Send Test Command TxFramesCtrlReq process starts
0:17:47.597009	LOG	First uplink received. Open reception window.
0:17:47.703184	LOG	PUSH_ACK: 02 787d 01
0:17:47.705152	LOG	GPS Time from gateway: 1385120210823

0:17:47.706151	LOG	PUSH_DATA: Protocol version = 02, Token = 787d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1780002190, 'time': '2023-11-27T11:36:31.824085Z', 'tmms': 1385120210823, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3374, 'rssi': -50, 'size': 20, 'data': 'QAAAAACATwkCOYch2DAFqk98siQ='}]}
0:17:47.707152	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 094f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4f7cb224)
0:17:47.709152	LOG	Server <-------------------- DUT
0:17:47.711167	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0609, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101), MIC: acb91449)
0:17:47.712152	LOG	Frame command sent to the DUT
0:17:47.714152	LOG	PULL_RESP: Protocol version = 02, Token = 1a70, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1782002190, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAACQbgk6sCAviEbknCw1LFokrmimEciahH5dtWv+bhAzdYQJr64VtlntekNqBiyjUE1dbXyGAu5SzsAYCK+Asj/KB5MpIzcKXhHSkoOkkKsNdB1pLzbvYtxP1K9BZLM8P6kiilvfk6NmLhuRTzlYyobYEvhDf646y5FEk='}}
0:17:47.715151	LOG	Server --------------------> DUT
0:17:47.718156	LOG	Send Test Command TxFramesCtrlReq process completed
0:17:47.722154	LOG	Send Test Command TxFramesCtrlReq process starts
0:17:49.183399	LOG	GPS Time updated: 1385120212409
0:17:49.184367	LOG	PULL_DATA: 02 2e4e 02 0016c001ff1025bf
0:17:49.185882	LOG	PULL_ACK: 02 2e4e 04
0:17:52.590733	LOG	First uplink received. Open reception window.
0:17:52.692626	LOG	PUSH_ACK: 02 1c80 01
0:17:52.694628	LOG	GPS Time from gateway: 1385120215823
0:17:52.695592	LOG	PUSH_DATA: Protocol version = 02, Token = 1c80, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1785001925, 'time': '2023-11-27T11:36:36.823819Z', 'tmms': 1385120215823, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3369, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAUAkC3f+ArKLUVfZYISA='}]}
0:17:52.697597	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0950, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f6582120)
0:17:52.698593	LOG	Server <-------------------- DUT
0:17:52.700593	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 060a, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101), MIC: 841eae14)
0:17:52.702625	LOG	Frame command sent to the DUT
0:17:52.703626	LOG	PULL_RESP: Protocol version = 02, Token = f4b8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1787001925, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAACgbgGdczCvbqzwh9yWWQnZVtTuwRvQ5A+owU0VXJXCK4WAq/Nv5f0KNDZsskfIczXJggvir8tzppASBdMga+4dzeYeBS9joV2LuIK3RTLcqXWI81EzUqAtPi/wFNhAoS0kT4wIFKkArbxOV4XhLeORdM+oJ08oQerhQ='}}
0:17:52.704627	LOG	Server --------------------> DUT
0:17:52.707592	LOG	Send Test Command TxFramesCtrlReq process completed
0:17:52.711627	LOG	Send Test Command TxFramesCtrlReq process starts
0:17:57.597701	LOG	First uplink received. Open reception window.

0:17:57.711355	LOG	PUSH_ACK: 02 a305 01
0:17:57.713354	LOG	GPS Time from gateway: 1385120220823
0:17:57.714355	LOG	PUSH_DATA: Protocol version = 02, Token = a305, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1790001696, 'time': '2023-11-27T11:36:41.823590Z', 'tmms': 1385120220823, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAUQkCQh+FM2mHt34tX+4='}]}
0:17:57.715354	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0951, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7e2d5fee)
0:17:57.717332	LOG	Server <-------------------- DUT
0:17:57.719320	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 060b, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 2d841b77)
0:17:57.720321	LOG	Frame command sent to the DUT
0:17:57.722319	LOG	PULL_RESP: Protocol version = 02, Token = 0924, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1792001696, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAACwbgBUp4ertrSMesnf98MddKQXqDpECpGAY6FjLRcZoUO6XIZLBW1RrCjPnEcvF3vncOm4qiVay1MJd6LlwARX8tD6+b3hUfh9T7SE68mYXWzmwc5jxlcamZSsDzDgJgwiFGaez2jjYalF/FKmkeYOpUOMezRy2EG3c='}}
0:17:57.723319	LOG	Server --------------------> DUT
0:17:57.726322	LOG	Send Test Command TxFramesCtrlReq process completed
0:17:57.730349	LOG	Send Test Command TxFramesCtrlReq process starts
0:17:59.193508	LOG	GPS Time updated: 1385120222419
0:17:59.195011	LOG	PULL_DATA: 02 795f 02 0016c001ff1025bf
0:17:59.196016	LOG	PULL_ACK: 02 795f 04
0:18:02.590862	LOG	First uplink received. Open reception window.
0:18:02.699380	LOG	PUSH_ACK: 02 c2bb 01
0:18:02.701347	LOG	GPS Time from gateway: 1385120225823
0:18:02.702347	LOG	PUSH_DATA: Protocol version = 02, Token = c2bb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1795001470, 'time': '2023-11-27T11:36:46.823363Z', 'tmms': 1385120225823, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAUgkCXESZzMUtx1fR+RE='}]}
0:18:02.704347	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0952, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 57d1f911)
0:18:02.705347	LOG	Server <-------------------- DUT
0:18:02.707347	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 060c, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 990c93b8)
0:18:02.709347	LOG	Frame command sent to the DUT
0:18:02.710346	LOG	PULL_RESP: Protocol version = 02, Token = 878f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1797001470, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAADAbglYIvAZG+Lkm09tKVuiaa+a467BCnPgFictLq+WWWvMxfnG8GWUXoTcl12vHeqQ+Z6oVtKXCOnpIwuLTfK/MgqnFVNDMhTmYHzl9OQqyeNEfBAO1xGYBIrWLNqXNyBlyQ45DwHEb3hDXjvDFhdgm3VFBc95kMk7g='}}
0:18:02.711347	LOG	Server --------------------> DUT

0:18:02.714347	LOG	Send Test Command TxFramesCtrlReq process completed
0:18:02.718346	LOG	Send Test Command TxFramesCtrlReq process starts
0:18:07.592813	LOG	First uplink received. Open reception window.
0:18:07.701357	LOG	PUSH_ACK: 02 4bb5 01
0:18:07.703325	LOG	GPS Time from gateway: 1385120230822
0:18:07.704840	LOG	PUSH_DATA: Protocol version = 02, Token = 4bb5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1800001207, 'time': '2023-11-27T11:36:51.823099Z', 'tmms': 1385120230822, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.8, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAUwkC7QaqeKH+FqzGqzY='}]}
0:18:07.705845	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0953, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: acc6ab36)
0:18:07.706845	LOG	Server <-------------------- DUT
0:18:07.708846	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 060d, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101), MIC: 12483019)
0:18:07.710845	LOG	Frame command sent to the DUT
0:18:07.711844	LOG	PULL_RESP: Protocol version = 02, Token = d50d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1802001207, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAADQbgU6DYlIC5GcTze93LDEKOWWIeDLOk8+XCAR1q72BLTm5Zplq9nptotl1hqM+pyWs80z6naZe9hVCCluLFDWpknTBfu4+ldPihc6b1C5Aim5UQcTM3Om4W6u94zQTx5US77BWehJ47iR+yYUhZwH7sI5RfjBJIMBk='}}
0:18:07.713845	LOG	Server --------------------> DUT
0:18:07.716845	LOG	Send Test Command TxFramesCtrlReq process completed
0:18:07.720764	LOG	Send Test Command TxFramesCtrlReq process starts
0:18:09.393378	LOG	GPS Time updated: 1385120232624
0:18:09.395347	LOG	PULL_DATA: 02 6cad 02 0016c001ff1025bf
0:18:09.396346	LOG	PULL_ACK: 02 6cad 04
0:18:12.596390	LOG	First uplink received. Open reception window.
0:18:12.706360	LOG	PUSH_ACK: 02 2ce9 01
0:18:12.708327	LOG	GPS Time from gateway: 1385120235822
0:18:12.709831	LOG	PUSH_DATA: Protocol version = 02, Token = 2ce9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1805000983, 'time': '2023-11-27T11:36:56.822874Z', 'tmms': 1385120235822, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.0, 'foff': -3369, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAVAkC9n/jDYWgmewjyiA='}]}
0:18:12.710837	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0954, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ec23ca20)
0:18:12.711837	LOG	Server <-------------------- DUT
0:18:12.713854	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 060e, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101), MIC: a41d1c2b)
0:18:12.715848	LOG	Frame command sent to the DUT
0:18:12.716837	LOG	PULL_RESP: Protocol version = 02, Token = 1162, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1807000983, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAADgbgos4C1sS3sdPjQKItqYKa/yjeeytxZbIXbvcDd6cGBEAS7c+q+k

		LixzuMCCAiPSX3oaqraiwoSNIwe5A9gwrvAJkw9e49KKCwoDm9ByMkqN0AB4Ej10xLvJ9eOd416u10eHQPrFSKXGJMAOIgMSFGnN1NwqQdHCs='}}
0:18:12.718837	LOG	Server --------------------> DUT
0:18:12.720837	LOG	Send Test Command TxFramesCtrlReq process completed
0:18:12.724837	LOG	Send Test Command TxFramesCtrlReq process starts
0:18:17.588408	LOG	First uplink received. Open reception window.
0:18:17.698365	LOG	PUSH_ACK: 02 62c1 01
0:18:17.700401	LOG	GPS Time from gateway: 1385120240822
0:18:17.701370	LOG	PUSH_DATA: Protocol version = 02, Token = 62c1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1810000725, 'time': '2023-11-27T11:37:01.822615Z', 'tmms': 1385120240822, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3377, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAVQkC8Jmw2V6ogrDahsg='}]}
0:18:17.703404	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0955, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b0da86c8)
0:18:17.704369	LOG	Server <-------------------- DUT
0:18:17.706367	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 060f, FOpts:), FPort: e0, FRMPayload: 070001), MIC: c73afe3c)
0:18:17.707368	LOG	Frame command sent to the DUT
0:18:17.709401	LOG	PULL_RESP: Protocol version = 02, Token = 32ec, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1812000725, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAADwbgc0QGhVMhpLfVs1SI+rE8O4zYSrG+IxJMgiULc2HbDqf3pRCdzAjxKq21u3RW/FT8tTzyuy4+rPdovNdfOmWowcEz+LyNQpwtUmGuPxSN4EUkr32N1gToWzq/b7ETwNofyiZgt+fz1NzVgfSG+nY0uvtiysc6/jw='}}
0:18:17.710405	LOG	Server --------------------> DUT
0:18:17.712401	LOG	Send Test Command TxFramesCtrlReq process completed
0:18:17.715941	LOG	Send Test Command TxFramesCtrlReq process starts
0:18:19.403768	LOG	GPS Time updated: 1385120242637
0:18:19.404735	LOG	PULL_DATA: 02 8dcd 02 0016c001ff1025bf
0:18:19.406736	LOG	PULL_ACK: 02 8dcd 04
0:18:22.588462	LOG	First uplink received. Open reception window.
0:18:22.696804	LOG	PUSH_ACK: 02 578f 01
0:18:22.698772	LOG	GPS Time from gateway: 1385120245822
0:18:22.699772	LOG	PUSH_DATA: Protocol version = 02, Token = 578f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1815000461, 'time': '2023-11-27T11:37:06.822351Z', 'tmms': 1385120245822, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAVgkCzc4r+pIfrnuNR78='}]}
0:18:22.700772	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0956, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7b8d47bf)
0:18:22.702772	LOG	Server <-------------------- DUT
0:18:22.704773	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0610, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 74447ddb)
0:18:22.706778	LOG	Frame command sent to the DUT
0:18:22.707777	LOG	PULL_RESP: Protocol version = 02, Token = 72dd, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1817000461, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True,

		'size': 128, 'data': 'YAAAAAAAEAbg6myLsV2PQDDqjOBMRLljuozJqdmILEhLC9CpzcAxEegoczBCQkDxP2iEYhlh7ghsPAsTcUfY7OYcUMGCM1PXeeUFcsOWPh3ycGe5DFcFhCxn+H4O8FCc2xWxrNwZr5uQAhFVC5/cIDfmYXoU0S6CrtIVt3REfds='}}
0:18:22.708778	LOG	Server --------------------> DUT
0:18:22.711781	LOG	Send Test Command TxFramesCtrlReq process completed
0:18:22.715779	LOG	Send Test Command TxFramesCtrlReq process starts
0:18:25.474228	LOG	#***************************CURRENT BEACON SENT***************************#
0:18:25.476228	LOG	PULL_RESP: Protocol version = 02, Token = 1f3b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385120256000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAQo9S3AIAAAAAAAAAAAAA='}}
0:18:25.477230	LOG	Server --------------------> DUT
0:18:25.479232	LOG	#***#
0:18:25.489263	LOG	#***************************NEXT BEACON QUEUED***************************#
0:18:25.491230	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385120384000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAQo9S5N8AAAAAAAAAAAAA='}}
0:18:25.496358	LOG	Server --------------------> DUT
0:18:25.500942	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 80428f52, CRC1: e4df, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385120384000
0:18:25.502687	LOG	#***#
0:18:25.504409	LOG	Next BEACON scheduled at GPS time (ms): 1385120512000
0:18:25.505955	LOG	TX_ACK: 02 1f3b 05 0016c001ff1025bf
0:18:27.595817	LOG	First uplink received. Open reception window.
0:18:27.700948	LOG	PUSH_ACK: 02 32c8 01
0:18:27.702950	LOG	GPS Time from gateway: 1385120250821
0:18:27.703949	LOG	PUSH_DATA: Protocol version = 02, Token = 32c8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1820000225, 'time': '2023-11-27T11:37:11.822114Z', 'tmms': 1385120250821, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAVwkCh6iRgWLs/6Zv5gQ='}]}
0:18:27.705923	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0957, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a66fe604)
0:18:27.706949	LOG	Server <-------------------- DUT
0:18:27.708917	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0611, FOpts:), FPort: e0, FRMPayload: 070001), MIC: aea9946c)
0:18:27.709949	LOG	Frame command sent to the DUT
0:18:27.711955	LOG	PULL_RESP: Protocol version = 02, Token = 4cb2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1822000225, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAEQbgW0yBmjHwu8Cqr5yXYRsbIEflfNb/bKg3/t1FeXjJnawu8SII+Cgr63OvJvCYY/DwkBxTXxsbiHI69hQt3d2qhXG5KDkgZccgAfdzNMPQ4ifSYDGaCZJL8XPwc7raaixs//RT5ESU8R4MXOyDYTLzRD3JW66plGw='}}
0:18:27.712953	LOG	Server --------------------> DUT
0:18:27.715953	LOG	Send Test Command TxFramesCtrlReq process completed

0:18:27.719992	LOG	Send Test Command TxFramesCtrlReq process starts
0:18:29.603411	LOG	GPS Time updated: 1385120252828
0:18:29.604413	LOG	PULL_DATA: 02 92aa 02 0016c001ff1025bf
0:18:29.606380	LOG	PULL_ACK: 02 92aa 04
0:18:32.592667	LOG	First uplink received. Open reception window.
0:18:32.699766	LOG	PUSH_ACK: 02 45c0 01
0:18:32.701735	LOG	GPS Time from gateway: 1385120255821
0:18:32.702734	LOG	PUSH_DATA: Protocol version = 02, Token = 45c0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1824999978, 'time': '2023-11-27T11:37:16.821866Z', 'tmms': 1385120255821, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAWAkCRLfTnLR0l+jE0w4='}]}
0:18:32.704735	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0958, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e8c4d30e)
0:18:32.705735	LOG	Server <-------------------- DUT
0:18:32.707735	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0612, FOpts:), FPort: e0, FRMPayload: 070001), MIC: e8d9ada8)
0:18:32.709735	LOG	Frame command sent to the DUT
0:18:32.710734	LOG	PULL_RESP: Protocol version = 02, Token = fd15, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1826999978, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAEgbgLwGQ7Lwvws3cr+CzrLw2Wcp/bwzLpoKRo2Z0R65XZswGfEmN19BC5mR84KVf0eoUN1k1Rm38CK/o0axBZ28O5Jw8if7fCEwcNpfHOqOPh0wrsJikShN/gO+m2dZFG2uvQTdpELDJtK0V5csQohL3XU/L7ejZrag='}}
0:18:32.711734	LOG	Server --------------------> DUT
0:18:32.714734	LOG	Send Test Command TxFramesCtrlReq process completed
0:18:32.718744	LOG	Send Test Command TxFramesCtrlReq process starts
0:18:37.588421	LOG	First uplink received. Open reception window.
0:18:37.691649	LOG	PUSH_ACK: 02 f861 01
0:18:37.693657	LOG	GPS Time from gateway: 1385120260821
0:18:37.694619	LOG	PUSH_DATA: Protocol version = 02, Token = f861, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1829999716, 'time': '2023-11-27T11:37:21.821603Z', 'tmms': 1385120260821, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAWQkCJXqJY9TJS9NKzmA='}]}
0:18:37.696616	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0959, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d34ace60)
0:18:37.697615	LOG	Server <-------------------- DUT
0:18:37.699615	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0613, FOpts:), FPort: e0, FRMPayload: 070001), MIC: c64b9c9d)
0:18:37.701668	LOG	Frame command sent to the DUT
0:18:37.702649	LOG	PULL_RESP: Protocol version = 02, Token = 07fe, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1831999716, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAEwbg90BDQNdIFbg2FrnD/Uu0aYzMxbc13DYngl0jqIODBm6A/2D1TLOwCMW7K9ARBoV4dhNKgIW6Nnd8q0hnZkeczf8358U0Otei3Yt0Mqpw7kl4f0NoMOkhz6h1ak6J2uENX3q6MmV4OW90ho602D91Le+eeMZLnJ0='}}

0:18:37.704649	LOG	Server --------------------> DUT
0:18:37.707616	LOG	Send Test Command TxFramesCtrlReq process completed
0:18:37.711648	LOG	Send Test Command TxFramesCtrlReq process starts
0:18:39.803248	LOG	GPS Time updated: 1385120263035
0:18:39.804247	LOG	PULL_DATA: 02 41b6 02 0016c001ff1025bf
0:18:39.806248	LOG	PULL_ACK: 02 41b6 04
0:18:42.586427	LOG	First uplink received. Open reception window.
0:18:42.690787	LOG	PUSH_ACK: 02 a8e4 01
0:18:42.692755	LOG	GPS Time from gateway: 1385120265821
0:18:42.693754	LOG	PUSH_DATA: Protocol version = 02, Token = a8e4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1834999447, 'time': '2023-11-27T11:37:26.821332Z', 'tmms': 1385120265821, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3377, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAWgkCwIstE9Ca6SqBl3w='}]}
0:18:42.694754	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 095a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2a81977c)
0:18:42.696759	LOG	Server <-------------------- DUT
0:18:42.698756	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0614, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 9c012667)
0:18:42.700765	LOG	Frame command sent to the DUT
0:18:42.701787	LOG	PULL_RESP: Protocol version = 02, Token = 973f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1836999447, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAFAbgc3hLOnMY0X+iVYlAd7wlk+1amH4xNQL3Lul6lI/7NURkfy5IEvp5/6V+En6OXD2uPSY2hToa0Xu+xwD89bBubVTx8Ui8jOwV5iSgzQjFwCoIfHQvm797eZpXlvV1rDOSEUT0qnERSlpsw9B1E2icbD8z1JwBJmc='}}
0:18:42.703788	LOG	Server --------------------> DUT
0:18:42.706755	LOG	Send Test Command TxFramesCtrlReq process completed
0:18:42.710788	LOG	Send Test Command TxFramesCtrlReq process starts
0:18:47.593757	LOG	First uplink received. Open reception window.
0:18:47.708573	LOG	PUSH_ACK: 02 bb21 01
0:18:47.710542	LOG	GPS Time from gateway: 1385120270820
0:18:47.711541	LOG	PUSH_DATA: Protocol version = 02, Token = bb21, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1839999188, 'time': '2023-11-27T11:37:31.821074Z', 'tmms': 1385120270820, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3377, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAWwkCnciUySEQFImRkYo='}]}
0:18:47.713543	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 095b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8991918a)
0:18:47.714541	LOG	Server <-------------------- DUT
0:18:47.716543	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0615, FOpts:), FPort: e0, FRMPayload: 070001), MIC: c0d26ddd)
0:18:47.718542	LOG	Frame command sent to the DUT
0:18:47.719541	LOG	PULL_RESP: Protocol version = 02, Token = 192f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1841999188, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAFQbgmNg2CyeR+tTGI6EkIN1U3Xt6hVILj3YBjE8jtAMss3VOKK

		u/lKwEGjSkWWcxNxUG7sHEh4/XJjOz6AfpKorRyH/HyZyrnQtyfwxt1PU2MUkGr+96hSGvLRmVJAM87N7FjPgkL6dTnG7whLbav/zYAJC7K8DSbd0='}}
0:18:47.720541	LOG	Server --------------------> DUT
0:18:47.723543	LOG	Send Test Command TxFramesCtrlReq process completed
0:18:47.727541	LOG	Send Test Command TxFramesCtrlReq process starts
0:18:49.823285	LOG	GPS Time updated: 1385120273049
0:18:49.824285	LOG	PULL_DATA: 02 437e 02 0016c001ff1025bf
0:18:49.826285	LOG	PULL_ACK: 02 437e 04
0:18:52.588335	LOG	First uplink received. Open reception window.
0:18:52.694964	LOG	PUSH_ACK: 02 dc8e 01
0:18:52.696965	LOG	GPS Time from gateway: 1385120275820
0:18:52.697933	LOG	PUSH_DATA: Protocol version = 02, Token = dc8e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1844998931, 'time': '2023-11-27T11:37:36.820816Z', 'tmms': 1385120275820, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3369, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAXAkCn6ILdSliL5hPukE='}]}
0:18:52.699932	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 095c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 984fba41)
0:18:52.700931	LOG	Server <-------------------- DUT
0:18:52.702931	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0616, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 946d3190)
0:18:52.704931	LOG	Frame command sent to the DUT
0:18:52.705962	LOG	PULL_RESP: Protocol version = 02, Token = b353, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1846998931, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAFgbg4Qn4Z/oiGBYEhIVRMvx6Khh29DZVhkNF5FmHztHd2OEKEPbBiraoJ3bhqLUv+SVVv0RBFTy9tfe32C7ya6x/88WpkuV3xeFGwjfMxiGWZM9EGlv3eRkfrtpXaHXwBdmET8wEXSXqvPCQrUJJk4hhR6qMFpRtMZA='}}
0:18:52.707964	LOG	Server --------------------> DUT
0:18:52.710948	LOG	Send Test Command TxFramesCtrlReq process completed
0:18:52.714952	LOG	Send Test Command TxFramesCtrlReq process starts
0:18:57.594448	LOG	First uplink received. Open reception window.
0:18:57.701081	LOG	PUSH_ACK: 02 3b5f 01
0:18:57.703083	LOG	GPS Time from gateway: 1385120280820
0:18:57.704047	LOG	PUSH_DATA: Protocol version = 02, Token = 3b5f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1849998709, 'time': '2023-11-27T11:37:41.820593Z', 'tmms': 1385120280820, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3377, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAXQkCuMaQ7xZqNQVn8U8='}]}
0:18:57.706097	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 095d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0567f14f)
0:18:57.707074	LOG	Server <-------------------- DUT
0:18:57.709081	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0617, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 478e94bd)
0:18:57.711095	LOG	Frame command sent to the DUT
0:18:57.712078	LOG	PULL_RESP: Protocol version = 02, Token = 6a25, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1851998709, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True,

		'size': 128, 'data': 'YAAAAAAAFwbgBFNI4P4cp0u7LYpb0DLOo4jzWbtZRuKglnNV/tbtQ6q7xccd1q8I837qDnTk5SRCSN3+dE6NAH1iTERuRT5Yl/ChQjdnLsMX7bamUaHVnGyZhVPwI5KdUYU2dyZGU1DSuZl1d1GmPJWQl70vZfWALLMcm0eOlL0='}}
0:18:57.713079	LOG	Server --------------------> DUT
0:18:57.717054	LOG	Send Test Command TxFramesCtrlReq process completed
0:18:57.721048	LOG	Send Test Command TxFramesCtrlReq process starts
0:19:00.022340	LOG	GPS Time updated: 1385120283248
0:19:00.024307	LOG	PULL_DATA: 02 319e 02 0016c001ff1025bf
0:19:00.025307	LOG	PULL_ACK: 02 319e 04
0:19:02.593233	LOG	First uplink received. Open reception window.
0:19:02.702380	LOG	PUSH_ACK: 02 20bf 01
0:19:02.704348	LOG	GPS Time from gateway: 1385120285820
0:19:02.705348	LOG	PUSH_DATA: Protocol version = 02, Token = 20bf, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1854998453, 'time': '2023-11-27T11:37:46.820336Z', 'tmms': 1385120285820, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAXgkCRlS5IxQPx+7L4p4='}]}
0:19:02.707349	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 095e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: eecbe29e)
0:19:02.708348	LOG	Server <-------------------- DUT
0:19:02.710350	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0618, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c84ca464)
0:19:02.712348	LOG	Frame command sent to the DUT
0:19:02.713347	LOG	PULL_RESP: Protocol version = 02, Token = a144, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1856998453, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAGAbg8JkF6UxgcZESlPiBmo8xFh1o3JdxgB1TfCjysr77tQqrZBgizlYF+owfVGY8DIBpm1+DXdqx5uIwLhu+YFfPxEApn1upZkU6KTCgpmVmMEC8E+57r1fsTTuBLPCLFqLRkJJo8k7YTgFcVzfvK4+V1bUUrchMpGQ='}}
0:19:02.714348	LOG	Server --------------------> DUT
0:19:02.717348	LOG	Send Test Command TxFramesCtrlReq process completed
0:19:02.721349	LOG	Send Test Command TxFramesCtrlReq process starts
0:19:07.594170	LOG	First uplink received. Open reception window.
0:19:07.705050	LOG	PUSH_ACK: 02 6b78 01
0:19:07.707020	LOG	GPS Time from gateway: 1385120290819
0:19:07.708020	LOG	PUSH_DATA: Protocol version = 02, Token = 6b78, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1859998189, 'time': '2023-11-27T11:37:51.820070Z', 'tmms': 1385120290819, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAXwkCaI3tQlRhUYLLYlk='}]}
0:19:07.709017	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 095f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 82cb6259)
0:19:07.711018	LOG	Server <-------------------- DUT
0:19:07.713022	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0619, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c6296b80)
0:19:07.714017	LOG	Frame command sent to the DUT

0:19:07.716017	LOG	PULL_RESP: Protocol version = 02, Token = 106d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1861998189, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAGQbgXYgkPaeBDLZxtZsgVoB/xB9GT7Ka8iF7lDNmwh0dvMntuKZcgeaFp05nClfAaw7teY4ZA5Pna78ERXZDPtisavUZ8NlJW6wxV4kDC162ouHWOpssb7+jXC1SVLKxLrHxPsxOl+fI7xN/1777JYWm3s/yAsYpa4A='}}
0:19:07.717017	LOG	Server --------------------> DUT
0:19:07.720020	LOG	Send Test Command TxFramesCtrlReq process completed
0:19:07.724019	LOG	Send Test Command TxFramesCtrlReq process starts
0:19:10.233474	LOG	GPS Time updated: 1385120293458
0:19:10.234472	LOG	PULL_DATA: 02 4e53 02 0016c001ff1025bf
0:19:10.236474	LOG	PULL_ACK: 02 4e53 04
0:19:12.585815	LOG	First uplink received. Open reception window.
0:19:12.688062	LOG	PUSH_ACK: 02 0c80 01
0:19:12.690062	LOG	GPS Time from gateway: 1385120295819
0:19:12.691028	LOG	PUSH_DATA: Protocol version = 02, Token = 0c80, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1864997954, 'time': '2023-11-27T11:37:56.819836Z', 'tmms': 1385120295819, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3377, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAYAkCsoSLm5pHhbNoc00='}]}
0:19:12.692029	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0960, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b368734d)
0:19:12.694064	LOG	Server <-------------------- DUT
0:19:12.696062	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 061a, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 43f3f536)
0:19:12.698078	LOG	Frame command sent to the DUT
0:19:12.699062	LOG	PULL_RESP: Protocol version = 02, Token = 244e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1866997954, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAGgbgDPzeyeY8CDfax9jwVU1CjsBzG+uEr7tt67c5oT6ob3+2b1qxQRt6ym9snvzCTF+fF5+ddfPli9iqt5n69pSubqkvPf5r946lSPZlIqxXEzaslYJE7Uy4Sbs1Q9flja3FiAmCbB+roOCfU907JmcKX9RYj0Pz9TY='}}
0:19:12.700062	LOG	Server --------------------> DUT
0:19:12.703062	LOG	Send Test Command TxFramesCtrlReq process completed
0:19:12.707030	LOG	Send Test Command TxFramesCtrlReq process starts
0:19:17.587141	LOG	First uplink received. Open reception window.
0:19:17.695721	LOG	PUSH_ACK: 02 1b9e 01
0:19:17.697689	LOG	GPS Time from gateway: 1385120300819
0:19:17.698691	LOG	PUSH_DATA: Protocol version = 02, Token = 1b9e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1869997722, 'time': '2023-11-27T11:38:01.819603Z', 'tmms': 1385120300819, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAYQkCFi03EzMXgAHvkAU='}]}
0:19:17.700723	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0961, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 01ef9005)
0:19:17.701688	LOG	Server <-------------------- DUT
0:19:17.703687	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 061b, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101

		010101010101010101010101010101010101010101010101010101010 1010101010101010101010101), MIC: 264af972)
0:19:17.705690	LOG	Frame command sent to the DUT
0:19:17.706688	LOG	PULL_RESP: Protocol version = 02, Token = 888d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1871997722, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAGwbgYgYNN25BEkAMzW068JOx32Wcq9VLPKzV4xwghXhv45r ILeQXqyfG67fQXOz2NnivLDPIU46eu+2NeWz5QZYMOkLaFkRiUal902ZwsJe6 6D1W4cHgsVQXRLh1Qx1ntHrqGhh8qmHshc3B0vRz3uQyTdX1tyZK+XI='}}
0:19:17.708721	LOG	Server --------------------> DUT
0:19:17.711691	LOG	Send Test Command TxFramesCtrlReq process completed
0:19:17.714724	LOG	Send Test Command TxFramesCtrlReq process starts
0:19:20.443321	LOG	GPS Time updated: 1385120303675
0:19:20.444321	LOG	PULL_DATA: 02 2b60 02 0016c001ff1025bf
0:19:20.446327	LOG	PULL_ACK: 02 2b60 04
0:19:22.588341	LOG	First uplink received. Open reception window.
0:19:22.697535	LOG	PUSH_ACK: 02 5f23 01
0:19:22.699534	LOG	GPS Time from gateway: 1385120305819
0:19:22.700542	LOG	PUSH_DATA: Protocol version = 02, Token = 5f23, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1874997467, 'time': '2023-11-27T11:38:06.819347Z', 'tmms': 1385120305819, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAYgkCmUTulOH7utoQT88='}]}
0:19:22.702502	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0962, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: da104fcf)
0:19:22.703502	LOG	Server <-------------------- DUT
0:19:22.705502	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 061c, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 1010101010101010101010101), MIC: 4515b703)
0:19:22.707536	LOG	Frame command sent to the DUT
0:19:22.708533	LOG	PULL_RESP: Protocol version = 02, Token = af66, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1876997467, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAHAbg93CZE/HBCY2grgsFNJ3X11HKL6upnUNt0eK94vkXclTKjO /4O8o4STQBdU8VEbXeJPFv92oa5crmteOZBClafM/nk/shdrhrrkxBsL1FLSGIKby E/Pw2d/2v/zp6sPoyUFL3T4wx5z58w6/JB5lrlvbt+UUVtwM='}}
0:19:22.709539	LOG	Server --------------------> DUT
0:19:22.712535	LOG	Send Test Command TxFramesCtrlReq process completed
0:19:22.716503	LOG	Send Test Command TxFramesCtrlReq process starts
0:19:27.585980	LOG	First uplink received. Open reception window.
0:19:27.689804	LOG	PUSH_ACK: 02 d969 01
0:19:27.691805	LOG	GPS Time from gateway: 1385120310818
0:19:27.692805	LOG	PUSH_DATA: Protocol version = 02, Token = d969, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1879997244, 'time': '2023-11-27T11:38:11.819123Z', 'tmms': 1385120310818, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAYwkCPO3cPEAZrX5tuJE='}]}
0:19:27.694824	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0963, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7e6db891)
0:19:27.695772	LOG	Server <-------------------- DUT
0:19:27.697772	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 061d, FOpts:), FPort: e0, FRMPayload:

		0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101), MIC: d7e0bc25)
0:19:27.699811	LOG	Frame command sent to the DUT
0:19:27.700805	LOG	PULL_RESP: Protocol version = 02, Token = 54d2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1881997244, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAHQbgmdGJhP78PHDupfEL+W+CuKY3IDTVez8GDP2bjSXwO1sFBkTHCQd68tqbtYO2TsbC7X6BZB7H7WMPh/TdFajbPXBp5y+knQcnp5nUFCChid2ddlK8teLvZdFmcHGgsa490KjKsbs5NWLO3KCwkhZqOgGzItfgvCU='}}
0:19:27.701804	LOG	Server --------------------> DUT
0:19:27.704772	LOG	Send Test Command TxFramesCtrlReq process completed
0:19:27.708772	LOG	Send Test Command TxFramesCtrlReq process starts
0:19:30.642527	LOG	GPS Time updated: 1385120313875
0:19:30.643558	LOG	PULL_DATA: 02 8495 02 0016c001ff1025bf
0:19:30.645593	LOG	PULL_ACK: 02 8495 04
0:19:32.585384	LOG	First uplink received. Open reception window.
0:19:32.690438	LOG	PUSH_ACK: 02 8ac7 01
0:19:32.692480	LOG	GPS Time from gateway: 1385120315818
0:19:32.693467	LOG	PUSH_DATA: Protocol version = 02, Token = 8ac7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1884996978, 'time': '2023-11-27T11:38:16.818855Z', 'tmms': 1385120315818, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAZAkC1djzk6zQus6vUho='}]}
0:19:32.695440	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0964, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ceaf521a)
0:19:32.696439	LOG	Server <-------------------- DUT
0:19:32.698441	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 061e, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101), MIC: 81226839)
0:19:32.700439	LOG	Frame command sent to the DUT
0:19:32.701472	LOG	PULL_RESP: Protocol version = 02, Token = 3084, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1886996978, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAHgbg8danKVFc6hhPeoJ7WFRFB5HQMVYpQ7j/HI2UQXHzb4aekGKVfiGhUlGlbfi9Hr381adXXtvMUeobxx91cupLZDV3fZuiC533bBrFNsfTq/BY3hrsEW7AT+a1v1oqymGfD9NeaszbE2947X0Cv5SCcEgknoEiaDk='}}
0:19:32.703439	LOG	Server --------------------> DUT
0:19:32.706457	LOG	Send Test Command TxFramesCtrlReq process completed
0:19:32.710441	LOG	Send Test Command TxFramesCtrlReq process starts
0:19:37.585059	LOG	First uplink received. Open reception window.
0:19:37.697138	LOG	PUSH_ACK: 02 1366 01
0:19:37.699138	LOG	GPS Time from gateway: 1385120320818
0:19:37.700139	LOG	PUSH_DATA: Protocol version = 02, Token = 1366, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1889996717, 'time': '2023-11-27T11:38:21.818595Z', 'tmms': 1385120320818, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAZQkCgVkvTPglVa3jl5Y='}]}
0:19:37.702107	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0965, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ade39796)
0:19:37.703138	LOG	Server <-------------------- DUT

0:19:37.705142	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 061f, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101), MIC: 4cea45cd)
0:19:37.706138	LOG	Frame command sent to the DUT
0:19:37.707141	LOG	PULL_RESP: Protocol version = 02, Token = 1b6f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1891996717, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAHwbgNfF1a3QQvtR+1VTxJV7pTt7VcoWzT7qThRKfo3jk7heyC9yba7GUrgRwz6oQb+SfEORBFwNmfe4t7XfLMHS1Bpp1Lz7p6So7L9S0tBQA4pOWaRguoyh78KziypOAszMAFKtmDy142yPv1+FtAXwopjVSf0zqRc0='}}
0:19:37.709107	LOG	Server --------------------> DUT
0:19:37.712105	LOG	Send Test Command TxFramesCtrlReq process completed
0:19:37.716107	LOG	Send Test Command TxFramesCtrlReq process starts
0:19:40.853340	LOG	GPS Time updated: 1385120324085
0:19:40.854411	LOG	PULL_DATA: 02 5546 02 0016c001ff1025bf
0:19:40.856340	LOG	PULL_ACK: 02 5546 04
0:19:42.589202	LOG	First uplink received. Open reception window.
0:19:42.694036	LOG	PUSH_ACK: 02 ae90 01
0:19:42.696003	LOG	GPS Time from gateway: 1385120325818
0:19:42.697002	LOG	PUSH_DATA: Protocol version = 02, Token = ae90, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1894996471, 'time': '2023-11-27T11:38:26.818348Z', 'tmms': 1385120325818, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3377, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAZgkC/snqbDfggFd05Ys='}]}
0:19:42.698506	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0966, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5774e58b)
0:19:42.699512	LOG	Server <-------------------- DUT
0:19:42.701511	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0620, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101), MIC: 5b3b2aee)
0:19:42.703512	LOG	Frame command sent to the DUT
0:19:42.705510	LOG	PULL_RESP: Protocol version = 02, Token = 2eac, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1896996471, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAIAbgcbeBj5JyU7XpxmUSrfjps9sRBWKZIaVqD4JmIz4PCmiypyA/0ft/YYG5+HLWsliR5exB0jAgf+2Gs/QZ5DxuEFQpuIUm6OsK/StU7yb3hceHv6DfrOatWtCAy3nmmyRO+baz2VmGr5D8L8n29HDNNv4n+ls7Ku4='}}
0:19:42.706511	LOG	Server --------------------> DUT
0:19:42.709513	LOG	Send Test Command TxFramesCtrlReq process completed
0:19:42.713529	LOG	Send Test Command TxFramesCtrlReq process starts
0:19:47.587680	LOG	First uplink received. Open reception window.
0:19:47.702398	LOG	PUSH_ACK: 02 a5df 01
0:19:47.703902	LOG	GPS Time from gateway: 1385120330817
0:19:47.705906	LOG	PUSH_DATA: Protocol version = 02, Token = a5df, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1899996196, 'time': '2023-11-27T11:38:31.818072Z', 'tmms': 1385120330817, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAZwkCKl58zbFq2UJJZs8='}]}

0:19:47.706906	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0967, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 424966cf)
0:19:47.707907	LOG	Server <-------------------- DUT
0:19:47.709907	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0621, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 18f5d210)
0:19:47.711907	LOG	Frame command sent to the DUT
0:19:47.712907	LOG	PULL_RESP: Protocol version = 02, Token = 1d12, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1901996196, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAIQbgHINWmaIruCPLEDg9UyygTvkV6qJ/DI+hlrWb6aIN1Xu1O0ngxEVHH538V1crOW8Q2gM+uD4qAssDYKvUVjCcX3NoUCx2N0HzsxwPO8/m60o1pFSUp0EUd9argLvFbgcK4YyqifqS0LXOdq5/UO6Nxobj5Rj10hA='}}
0:19:47.714907	LOG	Server --------------------> DUT
0:19:47.716907	LOG	Send Test Command TxFramesCtrlReq process completed
0:19:47.720936	LOG	Send Test Command TxFramesCtrlReq process starts
0:19:50.861979	LOG	GPS Time updated: 1385120334092
0:19:50.863944	LOG	PULL_DATA: 02 2ec5 02 0016c001ff1025bf
0:19:50.864944	LOG	PULL_ACK: 02 2ec5 04
0:19:52.581335	LOG	First uplink received. Open reception window.
0:19:52.686843	LOG	PUSH_ACK: 02 9e9a 01
0:19:52.688809	LOG	GPS Time from gateway: 1385120335817
0:19:52.689832	LOG	PUSH_DATA: Protocol version = 02, Token = 9e9a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1904995952, 'time': '2023-11-27T11:38:36.817827Z', 'tmms': 1385120335817, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3377, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAaAkCL8o2rsZFAiY6Fzg='}]}
0:19:52.690842	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0968, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 263a1738)
0:19:52.692811	LOG	Server <-------------------- DUT
0:19:52.694846	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0622, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 4b8fc0c2)
0:19:52.695812	LOG	Frame command sent to the DUT
0:19:52.697811	LOG	PULL_RESP: Protocol version = 02, Token = 0b5c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1906995952, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAIgbgVlerdcJIPdggsEeDa+vedx192z4Gxar5zFlAiRd/VHLeuesupOfdcj9Bdf6Jhvs4LBlpkt6ZwRKj6uXfnlefgPdeFHP2m0d23Xm7OG1raXJaxTwylxDa650iIJ6z9VnH0whbI8qqpIVo5QukuM4j47Zq0kuPwMI='}}
0:19:52.698811	LOG	Server --------------------> DUT
0:19:52.701812	LOG	Send Test Command TxFramesCtrlReq process completed
0:19:52.705813	LOG	Send Test Command TxFramesCtrlReq process starts
0:19:57.583745	LOG	First uplink received. Open reception window.
0:19:57.695607	LOG	PUSH_ACK: 02 ed49 01
0:19:57.697576	LOG	GPS Time from gateway: 1385120340817
0:19:57.698575	LOG	PUSH_DATA: Protocol version = 02, Token = ed49, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1909995686, 'time': '2023-11-27T11:38:41.817561Z', 'tmms': 1385120340817, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAaQkCvihJFH64F9ECFpg='}]}
0:19:57.700579	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0969, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d1021698)
0:19:57.701584	LOG	Server <-------------------- DUT
0:19:57.703579	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0623, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101), MIC: 685b484e)
0:19:57.705579	LOG	Frame command sent to the DUT
0:19:57.706579	LOG	PULL_RESP: Protocol version = 02, Token = 342e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1911995686, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAIwbgJQwpzvvDxiEtDb7CSkeRapo0nuNlOnP7DL94ARl8P9n+LInIvMNWpy0whSGH067enZqAZxcBAQ7f5iJYdZSBDwwB4PGM4VbRtpL8wbmRbFJVRT6/v6euGtZ1TE3TJJU8fOCffle3XUhKHidVrjpwKnrfG2hbSE4='}}
0:19:57.707578	LOG	Server --------------------> DUT
0:19:57.710578	LOG	Send Test Command TxFramesCtrlReq process completed
0:19:57.713613	LOG	Send Test Command TxFramesCtrlReq process starts
0:20:01.061810	LOG	GPS Time updated: 1385120344295
0:20:01.063810	LOG	PULL_DATA: 02 6d08 02 0016c001ff1025bf
0:20:01.064810	LOG	PULL_ACK: 02 6d08 04
0:20:02.588233	LOG	First uplink received. Open reception window.
0:20:02.692574	LOG	PUSH_ACK: 02 e898 01
0:20:02.694575	LOG	GPS Time from gateway: 1385120345816
0:20:02.695574	LOG	PUSH_DATA: Protocol version = 02, Token = e898, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1914995461, 'time': '2023-11-27T11:38:46.817335Z', 'tmms': 1385120345816, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3377, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAagkC9gVxhc8knyzq8f0='}]}
0:20:02.697577	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 096a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2ceaf1fd)
0:20:02.698544	LOG	Server <-------------------- DUT
0:20:02.700542	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0624, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101), MIC: fe958643)
0:20:02.702543	LOG	Frame command sent to the DUT
0:20:02.703541	LOG	PULL_RESP: Protocol version = 02, Token = 71bf, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1916995461, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAJAbgov1ib/njDad/6IExsxJMmKnw0MeqAIKW72UXVCB2kMsSl/7pxl+iy/SbAm5tfFe1eMB/d+BGNZH6lzVwFJn4OjtOaJPM/dipYSfjjzspmbNaOka2Oa7gi1POQXapYFQqPd9giX9m3a2Jf8NINCGwZny29f6VhkM='}}
0:20:02.704577	LOG	Server --------------------> DUT
0:20:02.707638	LOG	Send Test Command TxFramesCtrlReq process completed
0:20:02.711605	LOG	Send Test Command TxFramesCtrlReq process starts
0:20:07.588724	LOG	First uplink received. Open reception window.
0:20:07.700387	LOG	PUSH_ACK: 02 6847 01
0:20:07.702354	LOG	GPS Time from gateway: 1385120350816

0:20:07.703354	LOG	PUSH_DATA: Protocol version = 02, Token = 6847, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1919995194, 'time': '2023-11-27T11:38:51.817067Z', 'tmms': 1385120350816, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAawkCUqed1X39NogCWYQ='}]}
0:20:07.705354	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 096b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 88025984)
0:20:07.706355	LOG	Server <-------------------- DUT
0:20:07.708358	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0625, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 102428af)
0:20:07.710360	LOG	Frame command sent to the DUT
0:20:07.711359	LOG	PULL_RESP: Protocol version = 02, Token = 37f9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1921995194, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAJQbgq9hxvH1nkakg6lKI9+ZxccCTwxV7cFjo5LbK9waFdm9u4poMjnApPeah+4zmjmWIVYbJlVEpJU6UiUsZmK1o1e41A3VWeN/c4+5PJ25wtLB1WR27GLDtb41V1sc+iLzmgg8778SoUtVDy/xheXyAgKndHhAkKK8='}}
0:20:07.712359	LOG	Server --------------------> DUT
0:20:07.715359	LOG	Send Test Command TxFramesCtrlReq process completed
0:20:07.719367	LOG	Send Test Command TxFramesCtrlReq process starts
0:20:11.072543	LOG	GPS Time updated: 1385120354300
0:20:11.074512	LOG	PULL_DATA: 02 bb29 02 0016c001ff1025bf
0:20:11.075512	LOG	PULL_ACK: 02 bb29 04
0:20:12.582721	LOG	First uplink received. Open reception window.
0:20:12.685362	LOG	PUSH_ACK: 02 e795 01
0:20:12.687363	LOG	GPS Time from gateway: 1385120355816
0:20:12.688364	LOG	PUSH_DATA: Protocol version = 02, Token = e795, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1924994936, 'time': '2023-11-27T11:38:56.816808Z', 'tmms': 1385120355816, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAbAkCOvnyi6iBCCDQXvE='}]}
0:20:12.689403	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 096c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 20d05ef1)
0:20:12.691364	LOG	Server <-------------------- DUT
0:20:12.693390	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0626, FOpts:), FPort: e0, FRMPayload: 070001), MIC: e00e6e61)
0:20:12.694363	LOG	Frame command sent to the DUT
0:20:12.696365	LOG	PULL_RESP: Protocol version = 02, Token = 67a0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1926994936, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAJgbgywP7omsinvmILD20YxAyPr1i9VKYlMhTMimuSALQ0AkFoRjHrn2xZALmC/vOa+tiT8TK/MHkOF4cSJQ3oJumanOE9oA06tQUzFVXWu2n7OfAoWM/ovpXc4r9Fq9xt1JliCjbQ2WYz/6D4wtDu5DADDG9VOAObmE='}}
0:20:12.697396	LOG	Server --------------------> DUT
0:20:12.700397	LOG	Send Test Command TxFramesCtrlReq process completed
0:20:12.704374	LOG	Send Test Command TxFramesCtrlReq process starts
0:20:17.580723	LOG	First uplink received. Open reception window.

0:20:17.691130	LOG	PUSH_ACK: 02 926b 01
0:20:17.693096	LOG	GPS Time from gateway: 1385120360816
0:20:17.694095	LOG	PUSH_DATA: Protocol version = 02, Token = 926b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1929994703, 'time': '2023-11-27T11:39:01.816573Z', 'tmms': 1385120360816, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3377, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAbQkCL8Hs7elQYyM7sa4='}]}
0:20:17.695096	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 096d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 233bb1ae)
0:20:17.697096	LOG	Server <-------------------- DUT
0:20:17.699096	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0627, FOpts:), FPort: e0, FRMPayload: 070001), MIC: dd3c5b8d)
0:20:17.700095	LOG	Frame command sent to the DUT
0:20:17.702096	LOG	PULL_RESP: Protocol version = 02, Token = ae97, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1931994703, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAJwbgqGreS3WWTDNZQuB4X0erjSTKbaiT9QG38q9pUEOMgBZAXqPKf+E2iNbijH0Te6h+JTvsxTF9aIg6llgK8qruEezEavWeKqg73j6uE25RRm5Y9fYLzignlTdsAeUBzejCIRs9vhrCec+WxwkS2nAxiwnRCd08W40='}}
0:20:17.703095	LOG	Server --------------------> DUT
0:20:17.706117	LOG	Send Test Command TxFramesCtrlReq process completed
0:20:17.710110	LOG	Send Test Command TxFramesCtrlReq process starts
0:20:21.272404	LOG	GPS Time updated: 1385120364508
0:20:21.274416	LOG	PULL_DATA: 02 2a1c 02 0016c001ff1025bf
0:20:21.275407	LOG	PULL_ACK: 02 2a1c 04
0:20:22.588363	LOG	First uplink received. Open reception window.
0:20:22.690974	LOG	PUSH_ACK: 02 323d 01
0:20:22.692945	LOG	GPS Time from gateway: 1385120365815
0:20:22.693977	LOG	PUSH_DATA: Protocol version = 02, Token = 323d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1934994450, 'time': '2023-11-27T11:39:06.816321Z', 'tmms': 1385120365815, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAbgkCVdm4WqvkYozCysQ='}]}
0:20:22.694976	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 096e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8cc2cac4)
0:20:22.696944	LOG	Server <-------------------- DUT
0:20:22.698976	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0628, FOpts:), FPort: e0, FRMPayload: 070001), MIC: a1976063)
0:20:22.699946	LOG	Frame command sent to the DUT
0:20:22.701942	LOG	PULL_RESP: Protocol version = 02, Token = 2667, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1936994450, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAKAbgOpojgggURShc19WJ5D64n8AHaNYBEsyeSiPlpl7nvKmsGWB53p3CBIjS2Zl+x8V8dgQ5BaF9si1l247vmmBtKjmgwbvoUy3GToJLa2WyvzBs3gXVTAOjhjUGKVzQeZPSE1/ZwwzV15Z1Tsw7eaPp/bpRTqGXYGM='}}
0:20:22.702942	LOG	Server --------------------> DUT
0:20:22.705941	LOG	Send Test Command TxFramesCtrlReq process completed

0:20:22.709944	LOG	Send Test Command TxFramesCtrlReq process starts
0:20:27.581082	LOG	First uplink received. Open reception window.
0:20:27.695339	LOG	PUSH_ACK: 02 8330 01
0:20:27.697340	LOG	GPS Time from gateway: 1385120370815
0:20:27.698308	LOG	PUSH_DATA: Protocol version = 02, Token = 8330, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1939994213, 'time': '2023-11-27T11:39:11.816083Z', 'tmms': 1385120370815, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAbwkCKDypf6gpRKwDdTs='}]}
0:20:27.699343	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 096f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ac03753b)
0:20:27.701306	LOG	Server <-------------------- DUT
0:20:27.703339	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0629, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 9104d444)
0:20:27.704306	LOG	Frame command sent to the DUT
0:20:27.706306	LOG	PULL_RESP: Protocol version = 02, Token = f155, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1941994213, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAKQbgbaZBs4NEhTNfr93OcXtoyhLNH1Cwzba/oSZjR4MD+Yi/mTOi2RuWu6s2jHzraiGiP7Y5Ir7GOz0UXbp6LWXNW+9wT3qn0L0v5hkYeZYSk9UFnZhwSIMBwdfAQOQwDoV+S9Igda+xwqvt9KMi9SKWlCfO1pEE1EQ='}}
0:20:27.707305	LOG	Server --------------------> DUT
0:20:27.710305	LOG	Send Test Command TxFramesCtrlReq process completed
0:20:27.713306	LOG	Send Test Command TxFramesCtrlReq process starts
0:20:31.482579	LOG	#***************************CURRENT BEACON SENT***************************#
0:20:31.484548	LOG	PULL_RESP: Protocol version = 02, Token = 22dd, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385120384000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAQo9S5N8AAAAAAAAAAAA='}}
0:20:31.485549	LOG	Server --------------------> DUT
0:20:31.486580	LOG	#**#
0:20:31.496589	LOG	#***************************NEXT BEACON QUEUED***************************#
0:20:31.497547	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385120512000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAQ49S7DUAAAAAAAAAAAA='}}
0:20:31.499558	LOG	Server --------------------> DUT
0:20:31.500547	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 00438f52, CRC1: ec35, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385120512000
0:20:31.502581	LOG	#**#
0:20:31.503580	LOG	Next BEACON scheduled at GPS time (ms): 1385120640000
0:20:31.504596	LOG	GPS Time updated: 1385120374738
0:20:31.506587	LOG	PULL_DATA: 02 1728 02 0016c001ff1025bf
0:20:31.507548	LOG	PULL_ACK: 02 1728 04
0:20:31.509546	LOG	TX_ACK: 02 22dd 05 0016c001ff1025bf
0:20:32.588292	LOG	First uplink received. Open reception window.

0:20:32.697032	LOG	PUSH_ACK: 02 0f46 01
0:20:32.699001	LOG	GPS Time from gateway: 1385120375815
0:20:32.700000	LOG	PUSH_DATA: Protocol version = 02, Token = 0f46, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1944993970, 'time': '2023-11-27T11:39:16.815839Z', 'tmms': 1385120375815, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAcAkCU5f8FXhL6SMp6J0='}]}
0:20:32.701001	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0970, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2329e89d)
0:20:32.703001	LOG	Server <-------------------- DUT
0:20:32.705000	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 062a, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 3344d8a6)
0:20:32.706000	LOG	Frame command sent to the DUT
0:20:32.708001	LOG	PULL_RESP: Protocol version = 02, Token = 38ee, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1946993970, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAKgbg1U0w8rxLsN+b9xc9zDy6KgIFXNJYItDZAXiOAuFQcDiyuMiDbl8a1fEr2d4QvoR9iPjiASfx6r3k/RaAzIkDQ7iiTcwSxMhhL5HVtlSXPaavVEUkASyXVEdcskSmKFDr3vqcb3ne9OxuvOwHSmpDvMbaBjNE2KY='}}
0:20:32.709006	LOG	Server --------------------> DUT
0:20:32.712002	LOG	Send Test Command TxFramesCtrlReq process completed
0:20:32.716001	LOG	Send Test Command TxFramesCtrlReq process starts
0:20:37.580812	LOG	First uplink received. Open reception window.
0:20:37.689557	LOG	PUSH_ACK: 02 edae 01
0:20:37.691559	LOG	GPS Time from gateway: 1385120380815
0:20:37.692560	LOG	PUSH_DATA: Protocol version = 02, Token = edae, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1949993696, 'time': '2023-11-27T11:39:21.815564Z', 'tmms': 1385120380815, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAcQkCmg620NdiwcR9jwQ='}]}
0:20:37.693560	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0971, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c47d8f04)
0:20:37.695526	LOG	Server <-------------------- DUT
0:20:37.697527	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 062b, FOpts:), FPort: e0, FRMPayload: 070001), MIC: accaa483)
0:20:37.698527	LOG	Frame command sent to the DUT
0:20:37.700559	LOG	PULL_RESP: Protocol version = 02, Token = 3f2a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1951993696, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAKwbgyTW8f/jb78rKxfkEXaAgvYDr1juQCUxuSDNEZbguxSN0bHI67fn24uYcGVryh731gRuxizQvG532scNbD+I4myZNd395ixJbEidhlI5BeGjzyfXqSRrY7SDVbsrGGCkfu4alucIWQZF94H3GOJRYZkQakqzKpIM='}}
0:20:37.701559	LOG	Server --------------------> DUT
0:20:37.704526	LOG	Send Test Command TxFramesCtrlReq process completed
0:20:37.708526	LOG	Send Test Command TxFramesCtrlReq process starts
0:20:41.492116	LOG	GPS Time updated: 1385120384727
0:20:41.494117	LOG	PULL_DATA: 02 e02b 02 0016c001ff1025bf

0:20:41.495118	LOG	PULL_ACK: 02 e02b 04
0:20:42.585763	LOG	First uplink received. Open reception window.
0:20:42.692371	LOG	PUSH_ACK: 02 9acd 01
0:20:42.694339	LOG	GPS Time from gateway: 1385120385814
0:20:42.695340	LOG	PUSH_DATA: Protocol version = 02, Token = 9acd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1954993448, 'time': '2023-11-27T11:39:26.815314Z', 'tmms': 1385120385814, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3369, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAcgkC3uzILZqJnE+BKmg='}]}
0:20:42.697339	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0972, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4f812a68)
0:20:42.698339	LOG	Server <-------------------- DUT
0:20:42.700338	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 062c, FOpts:), FPort: e0, FRMPayload: 070001), MIC: eb62df68)
0:20:42.702338	LOG	Frame command sent to the DUT
0:20:42.703338	LOG	PULL_RESP: Protocol version = 02, Token = dd25, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1956993448, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAALAbg3HTs6unXMBwKdKYl0RGI4RCwb5Bbgmn2frBsKNRff7tRJzjOSpZ7HdJIRkTwuVnS3Rc9vTMGP8g94HxCL9xJkBdDH3yOVaY76NyGJjI8bBR/qjVPEMB6Rq97SObAxbMcUrXKidnfOFVsLmJ6DRy6VEeBNuti32g='}}
0:20:42.704338	LOG	Server --------------------> DUT
0:20:42.707340	LOG	Send Test Command TxFramesCtrlReq process completed
0:20:42.711344	LOG	Send Test Command TxFramesCtrlReq process starts
0:20:47.588332	LOG	First uplink received. Open reception window.
0:20:47.694306	LOG	PUSH_ACK: 02 7407 01
0:20:47.696307	LOG	GPS Time from gateway: 1385120390814
0:20:47.697272	LOG	PUSH_DATA: Protocol version = 02, Token = 7407, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1959993184, 'time': '2023-11-27T11:39:31.815051Z', 'tmms': 1385120390814, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3366, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAcwkCg3LDwy5EyDmR260='}]}
0:20:47.699273	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0973, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3991dbad)
0:20:47.700272	LOG	Server <-------------------- DUT
0:20:47.702309	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 062d, FOpts:), FPort: e0, FRMPayload: 070001), MIC: bc85395c)
0:20:47.703304	LOG	Frame command sent to the DUT
0:20:47.705306	LOG	PULL_RESP: Protocol version = 02, Token = b8e8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1961993184, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAALQbgwZCT760Pe/iEHqrDb+4qzZ4fTr8IIs8I1SUNPv/ILFOhEXWNfAw6a28OasAj5jyILLAutbUykpeZzejDS2dUWCWOKDKZr5mGSLu/rEOcG/Y54kFVMLDkf7Znw7dcYA4650Knk1HjW6MAXQ0IIXHuJNiNDLyFOVw='}}
0:20:47.706305	LOG	Server --------------------> DUT
0:20:47.709272	LOG	Send Test Command TxFramesCtrlReq process completed
0:20:47.713273	LOG	Send Test Command TxFramesCtrlReq process starts

0:20:51.692332	LOG	GPS Time updated: 1385120394919
0:20:51.693331	LOG	PULL_DATA: 02 d55c 02 0016c001ff1025bf
0:20:51.695334	LOG	PULL_ACK: 02 d55c 04
0:20:52.579658	LOG	First uplink received. Open reception window.
0:20:52.692790	LOG	PUSH_ACK: 02 9f3d 01
0:20:52.694824	LOG	GPS Time from gateway: 1385120395814
0:20:52.695793	LOG	PUSH_DATA: Protocol version = 02, Token = 9f3d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1964992955, 'time': '2023-11-27T11:39:36.814821Z', 'tmms': 1385120395814, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAdAkCUGSEJKyJQO9oZYA='}]}
0:20:52.696828	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0974, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ef686580)
0:20:52.698792	LOG	Server <-------------------- DUT
0:20:52.700791	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 062e, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 419fb4f9)
0:20:52.701792	LOG	Frame command sent to the DUT
0:20:52.703823	LOG	PULL_RESP: Protocol version = 02, Token = 636b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1966992955, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAALgbgFHtM+DZKpJ4gP5c0Ie3m8rABYLwPzKU4Oz/2VzqyTCJIfG91Wu2+yXTSFzsu7kGLqh/v7ZdE8AXBSVhd2wBDubOvPANjD4rVCniJ0V67Y11qKn40vlxOxSQPQ6ycygddcyaYgRaA+mMJBAJ/xSFwsbXA5UGftPk='}}
0:20:52.704825	LOG	Server --------------------> DUT
0:20:52.707825	LOG	Send Test Command TxFramesCtrlReq process completed
0:20:52.711797	LOG	Send Test Command TxFramesCtrlReq process starts
0:20:57.580209	LOG	First uplink received. Open reception window.
0:20:57.685192	LOG	PUSH_ACK: 02 668a 01
0:20:57.687198	LOG	GPS Time from gateway: 1385120400814
0:20:57.688160	LOG	PUSH_DATA: Protocol version = 02, Token = 668a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1969992720, 'time': '2023-11-27T11:39:41.814585Z', 'tmms': 1385120400814, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAdQkCki/DbjJrUfOYLj0='}]}
0:20:57.690159	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0975, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f3982e3d)
0:20:57.691160	LOG	Server <-------------------- DUT
0:20:57.693162	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 062f, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 8a1721e4)
0:20:57.695159	LOG	Frame command sent to the DUT
0:20:57.696160	LOG	PULL_RESP: Protocol version = 02, Token = a4a0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1971992720, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAALwbgkyRNAzxvQZypk7gJSvuONYTKxJy6oRnaWCa+c6XHePH5H9joC28OV/NbIBWh2jbPzOBmnRbZAn9klQsSda5EO5UAFR+ukONfUAL4wqmr08t82zLpVJZf/4VpbkzoiZt38pS6y9ymO3YwGHyOKBnnnutw3YoXIeQ='}}
0:20:57.697159	LOG	Server --------------------> DUT

0:20:57.700159	LOG	Send Test Command TxFramesCtrlReq process completed
0:20:57.704162	LOG	Send Test Command TxFramesCtrlReq process starts
0:21:01.891249	LOG	GPS Time updated: 1385120405126
0:21:01.893211	LOG	PULL_DATA: 02 f0f8 02 0016c001ff1025bf
0:21:01.894212	LOG	PULL_ACK: 02 f0f8 04
0:21:02.584464	LOG	First uplink received. Open reception window.
0:21:02.687177	LOG	PUSH_ACK: 02 f51a 01
0:21:02.689175	LOG	GPS Time from gateway: 1385120405813
0:21:02.690176	LOG	PUSH_DATA: Protocol version = 02, Token = f51a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1974992467, 'time': '2023-11-27T11:39:46.814331Z', 'tmms': 1385120405813, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAdgkC2KJuvGkFD/3vmSQ='}]}
0:21:02.692148	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0976, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fdef9924)
0:21:02.693143	LOG	Server <-------------------- DUT
0:21:02.695142	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0630, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 88538ed6)
0:21:02.696142	LOG	Frame command sent to the DUT
0:21:02.698143	LOG	PULL_RESP: Protocol version = 02, Token = 8d59, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1976992467, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAMAbgRlkWYJB/lhhbOjJG/9sfX89rmTpsjpWzOtUDYYLuwcUkQtb/bYHj7Y2+6XHoF8WZrOLz59nNq+K0f9W+9Buef3r0k7WYTYrGJLjGOseYcF9CCDrluYPDuEvmmFkd41XIm49X2/PmFd2RkU0a2587INHleohTjtY='}}
0:21:02.699141	LOG	Server --------------------> DUT
0:21:02.702143	LOG	Send Test Command TxFramesCtrlReq process completed
0:21:02.706160	LOG	Send Test Command TxFramesCtrlReq process starts
0:21:07.587106	LOG	First uplink received. Open reception window.
0:21:07.691247	LOG	PUSH_ACK: 02 1427 01
0:21:07.693216	LOG	GPS Time from gateway: 1385120410813
0:21:07.694249	LOG	PUSH_DATA: Protocol version = 02, Token = 1427, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1979992245, 'time': '2023-11-27T11:39:51.814107Z', 'tmms': 1385120410813, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAdwkCLwUVAaHI7MB89nM='}]}
0:21:07.696215	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0977, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c07cf673)
0:21:07.697250	LOG	Server <-------------------- DUT
0:21:07.699217	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0631, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 3c2396c2)
0:21:07.701216	LOG	Frame command sent to the DUT
0:21:07.702214	LOG	PULL_RESP: Protocol version = 02, Token = f4f5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1981992245, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAMQbgnoiSbQWzlDqQbNDUs7VPADroUtuHA7c9bu/JwC8SClFOH

		yV6H47RQ3VYjeB0WqzIfIt6FIU5qkiiCroy97UvBHPZAp7+tnqKe1or6lM1imMS2gLr2NhS6yWAc3M2uRHddSWWgSi1ma43S81CBt8escRM7jwjlsI='}}
0:21:07.703214	LOG	Server --------------------> DUT
0:21:07.706214	LOG	Send Test Command TxFramesCtrlReq process completed
0:21:07.710215	LOG	Send Test Command TxFramesCtrlReq process starts
0:21:11.901525	LOG	GPS Time updated: 1385120415128
0:21:11.903515	LOG	PULL_DATA: 02 5796 02 0016c001ff1025bf
0:21:11.904525	LOG	PULL_ACK: 02 5796 04
0:21:12.580830	LOG	First uplink received. Open reception window.
0:21:12.695690	LOG	PUSH_ACK: 02 aeda 01
0:21:12.697657	LOG	GPS Time from gateway: 1385120415813
0:21:12.698658	LOG	PUSH_DATA: Protocol version = 02, Token = aeda, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1984991979, 'time': '2023-11-27T11:39:56.813842Z', 'tmms': 1385120415813, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAeAkC7srjpi77lTQX1cg='}]}
0:21:12.700657	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0978, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3417d5c8)
0:21:12.701660	LOG	Server <-------------------- DUT
0:21:12.703710	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0632, FOpts:), FPort: e0, FRMPayload: 070001), MIC: ca5f421e)
0:21:12.705690	LOG	Frame command sent to the DUT
0:21:12.706693	LOG	PULL_RESP: Protocol version = 02, Token = d994, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1986991979, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAMgbg750qCTWfj/yKHoTM/ekQ2NqET+BW+YztzZ2djMDttojaAnDjrLvhsAoVuEOlNWEDKdSVQIH34Qth7UuRoDWYbMVeXCzBot8jWSucE4UybPI+4Kkb/eEppF1FlFjrIcyYJxdfm5oyBRVWkYWWatYrQIaBzMpfQh4='}}
0:21:12.707691	LOG	Server --------------------> DUT
0:21:12.710657	LOG	Send Test Command TxFramesCtrlReq process completed
0:21:12.714658	LOG	Send Test Command TxFramesCtrlReq process starts
0:21:17.580273	LOG	First uplink received. Open reception window.
0:21:17.688187	LOG	PUSH_ACK: 02 c6c6 01
0:21:17.690156	LOG	GPS Time from gateway: 1385120420813
0:21:17.692155	LOG	PUSH_DATA: Protocol version = 02, Token = c6c6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1989991748, 'time': '2023-11-27T11:40:01.813610Z', 'tmms': 1385120420813, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3369, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAeQkCVNsISs4eFIptMNg='}]}
0:21:17.693155	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0979, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8a6d30d8)
0:21:17.694157	LOG	Server <-------------------- DUT
0:21:17.696192	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0633, FOpts:), FPort: e0, FRMPayload: 070001), MIC: dc1e59da)
0:21:17.697731	LOG	Frame command sent to the DUT
0:21:17.699769	LOG	PULL_RESP: Protocol version = 02, Token = 8a37, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1991991748, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True,

		'size': 128, 'data': 'YAAAAAAAMwbgWjbB5m5cnmoYHXBfzOjOYmQNTrRQ+VHiULjtl76+1+w9wIis9TmuZHJ+ssUuPG8cml/MkXd9XU0xxsaGkLByikfwdmx0mEbMQ1ax/BWFDiGVDcjQwNA0OkmbZBoHISFdoJaPzgnr62oBkv94w9A4Uzc1cdweWdo='}}
0:21:17.700769	LOG	Server --------------------> DUT
0:21:17.703736	LOG	Send Test Command TxFramesCtrlReq process completed
0:21:17.707752	LOG	Send Test Command TxFramesCtrlReq process starts
0:21:21.911077	LOG	GPS Time updated: 1385120425144
0:21:21.913080	LOG	PULL_DATA: 02 02d5 02 0016c001ff1025bf
0:21:21.914080	LOG	PULL_ACK: 02 02d5 04
0:21:22.585802	LOG	First uplink received. Open reception window.
0:21:22.691495	LOG	PUSH_ACK: 02 0cef 01
0:21:22.693496	LOG	GPS Time from gateway: 1385120425812
0:21:22.694506	LOG	PUSH_DATA: Protocol version = 02, Token = 0cef, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1994991514, 'time': '2023-11-27T11:40:06.813375Z', 'tmms': 1385120425812, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAegkC51Z6PSI4Uzsdrek='}]}
0:21:22.696464	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 097a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3b1dade9)
0:21:22.697463	LOG	Server <-------------------- DUT
0:21:22.699461	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0634, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 90b17e3b)
0:21:22.700496	LOG	Frame command sent to the DUT
0:21:22.702034	LOG	PULL_RESP: Protocol version = 02, Token = f8b8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1996991514, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAANAbgNXSKSr0HOAb+xi2B+hnK+n/kTVE+yxNJtkTxNCFna3fagrV1kipPFmo2WYJFwR6zEy/79GGSNoU7YeU50qbwpdFNkn67C5ln0SOYkNMPJxIXR6Sr9EIgFK41Oc1AZe4yCjJo4VUDQP7fJGuur7iWTYyj6ZCxfjs='}}
0:21:22.704072	LOG	Server --------------------> DUT
0:21:22.707040	LOG	Send Test Command TxFramesCtrlReq process completed
0:21:22.711048	LOG	Send Test Command TxFramesCtrlReq process starts
0:21:27.579101	LOG	First uplink received. Open reception window.
0:21:27.688810	LOG	PUSH_ACK: 02 1a1e 01
0:21:27.690778	LOG	GPS Time from gateway: 1385120430812
0:21:27.691777	LOG	PUSH_DATA: Protocol version = 02, Token = 1a1e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 1999991266, 'time': '2023-11-27T11:40:11.813126Z', 'tmms': 1385120430812, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAewkCduK2ZG0r3YGMrvo='}]}
0:21:27.692782	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 097b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 818caefa)
0:21:27.694782	LOG	Server <-------------------- DUT
0:21:27.696783	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0635, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 5b3bf4d0)
0:21:27.698783	LOG	Frame command sent to the DUT

0:21:27.699782	LOG	PULL_RESP: Protocol version = 02, Token = 71d6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2001991266, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAANQbg+auxlSZYwMY2gIbI2BYYBjIAgAb5QRBqcCOJzi0ZtNwOhobGwEWUp15efPC5dCzQLNFu6RFiXR+gzEBTmjyb1NNC8ti5oYuDD0tuY0aGJltnd1pOmo+bkmisF+LDkfcrkf+i8hqXQs4dsg/F4YrRdhSj0Fs79NA='}}
0:21:27.700782	LOG	Server --------------------> DUT
0:21:27.703782	LOG	Send Test Command TxFramesCtrlReq process completed
0:21:27.706815	LOG	Send Test Command TxFramesCtrlReq process starts
0:21:32.111967	LOG	GPS Time updated: 1385120435344
0:21:32.112970	LOG	PULL_DATA: 02 b98f 02 0016c001ff1025bf
0:21:32.114973	LOG	PULL_ACK: 02 b98f 04
0:21:32.582320	LOG	First uplink received. Open reception window.
0:21:32.694015	LOG	PUSH_ACK: 02 258e 01
0:21:32.695981	LOG	GPS Time from gateway: 1385120435812
0:21:32.696980	LOG	PUSH_DATA: Protocol version = 02, Token = 258e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2004991000, 'time': '2023-11-27T11:40:16.812860Z', 'tmms': 1385120435812, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAfAkCnz98DL0XIPIjjFY='}]}
0:21:32.698995	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 097c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f2238c56)
0:21:32.699984	LOG	Server <-------------------- DUT
0:21:32.701984	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0636, FOpts:), FPort: e0, FRMPayload: 070001), MIC: f5482871)
0:21:32.703985	LOG	Frame command sent to the DUT
0:21:32.704984	LOG	PULL_RESP: Protocol version = 02, Token = 6363, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2006991000, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAANgbg3n4GhO/ArGayW9qf+VR9RTE8fxXI47I1gneqYWHC7+dBRu8O7p7mmZ1WDV1BcKy8denmVr0nINW/ZRKqffPQbHvZeRNfzCRTtDnrYy34W6KV5qUjHbkA+kpIRLnoeNTCjU0/WEtOMZ5r+qIq26j0+s5M5PVIKHE='}}
0:21:32.705984	LOG	Server --------------------> DUT
0:21:32.710026	LOG	Send Test Command TxFramesCtrlReq process completed
0:21:32.713493	LOG	Send Test Command TxFramesCtrlReq process starts
0:21:37.584410	LOG	First uplink received. Open reception window.
0:21:37.693777	LOG	PUSH_ACK: 02 ebc5 01
0:21:37.695779	LOG	GPS Time from gateway: 1385120440812
0:21:37.696753	LOG	PUSH_DATA: Protocol version = 02, Token = ebc5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2009990744, 'time': '2023-11-27T11:40:21.812603Z', 'tmms': 1385120440812, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAfQkCTo6PpPShysWcCYE='}]}
0:21:37.698757	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 097d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c59c0981)
0:21:37.699747	LOG	Server <-------------------- DUT
0:21:37.701747	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0637, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101

		01010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: fd91f420)
0:21:37.702784	LOG	Frame command sent to the DUT
0:21:37.704753	LOG	PULL_RESP: Protocol version = 02, Token = bef6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2011990744, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAANwbghuJofAtwrA7r9huRGvW4SE8X81m2DnDwtKVjigqcOFqedD3Yw8pXDLq5ccl3S5SXZrZcR0Vsw15MfFAq3v3I3essKwAgdVnohOe+cvvuyMMXmJQ/5DQlz21h9XWpm6mbwEwYcXB5+uBLXruW+uRjk38yff2R9CA='}}
0:21:37.705785	LOG	Server ----------> DUT
0:21:37.708751	LOG	Send Test Command TxFramesCtrlReq process completed
0:21:37.712753	LOG	Send Test Command TxFramesCtrlReq process starts
0:21:42.321709	LOG	GPS Time updated: 1385120445548
0:21:42.322712	LOG	PULL_DATA: 02 cb8f 02 0016c001ff1025bf
0:21:42.324715	LOG	PULL_ACK: 02 cb8f 04
0:21:42.579094	LOG	First uplink received. Open reception window.
0:21:42.680526	LOG	PUSH_ACK: 02 2031 01
0:21:42.682522	LOG	GPS Time from gateway: 1385120445811
0:21:42.683542	LOG	PUSH_DATA: Protocol version = 02, Token = 2031, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2014990514, 'time': '2023-11-27T11:40:26.812372Z', 'tmms': 1385120445811, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAfgkC441p4g8d58dM+0k='}]}
0:21:42.685507	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 097e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c74cfb49)
0:21:42.686494	LOG	Server <---------- DUT
0:21:42.688493	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0638, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 94b969cb)
0:21:42.689492	LOG	Frame command sent to the DUT
0:21:42.691495	LOG	PULL_RESP: Protocol version = 02, Token = 3f12, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2016990514, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAOAbgel0PEXAY39jZYEri8UDs4oVPE7mW8gsxAHRGdBp08qwGWuuuEoCnVdYGkLYoRPbF93hNh+9zRc60h6wjwSIn/tJReMJw/PDf/8YvUXnq9ktY17AP8zQKGpIkKVdlJtp/tek9GkTuW78aHGv69/ebew6rkpS5acs='}}
0:21:42.692493	LOG	Server ----------> DUT
0:21:42.695496	LOG	Send Test Command TxFramesCtrlReq process completed
0:21:42.699496	LOG	Send Test Command TxFramesCtrlReq process starts
0:21:47.579931	LOG	First uplink received. Open reception window.
0:21:47.685240	LOG	PUSH_ACK: 02 1910 01
0:21:47.687240	LOG	GPS Time from gateway: 1385120450811
0:21:47.688244	LOG	PUSH_DATA: Protocol version = 02, Token = 1910, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2019990283, 'time': '2023-11-27T11:40:31.812140Z', 'tmms': 1385120450811, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAfwkCnKE3Piuix9zhQxc='}]}
0:21:47.690208	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 097f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: dce14317)
0:21:47.691211	LOG	Server <---------- DUT
0:21:47.693235	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0639, FOpts:), FPort: e0, FRMPayload:

		07000101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101), MIC: fa2f1005)
0:21:47.695217	LOG	Frame command sent to the DUT
0:21:47.696242	LOG	PULL_RESP: Protocol version = 02, Token = 4c42, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2021990283, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAOQbgZeOgoIzHqSimGd2SoMTK5LpduYKGzc3zGt5gtCPlTFlKczCyIOnj95G95qEzXoGBKq2HAj3Duy1eysb+UIG3wqJDZXbghzxuFjvlqlMMlg/1pf6MXomipvMWOU/s2ck0m1C4Om8DLyJQ5p3wdZ/8vbbFq/ovEAU='}}
0:21:47.697240	LOG	Server --------------------> DUT
0:21:47.700214	LOG	Send Test Command TxFramesCtrlReq process completed
0:21:47.704209	LOG	Send Test Command TxFramesCtrlReq process starts
0:21:52.521501	LOG	GPS Time updated: 1385120455753
0:21:52.522500	LOG	PULL_DATA: 02 290f 02 0016c001ff1025bf
0:21:52.524500	LOG	PULL_ACK: 02 290f 04
0:21:52.578808	LOG	First uplink received. Open reception window.
0:21:52.688904	LOG	PUSH_ACK: 02 2a3d 01
0:21:52.690872	LOG	GPS Time from gateway: 1385120455811
0:21:52.691872	LOG	PUSH_DATA: Protocol version = 02, Token = 2a3d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2024990058, 'time': '2023-11-27T11:40:36.811914Z', 'tmms': 1385120455811, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3369, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAgAkCrPScpHN8yCVMLnQ='}]}
0:21:52.693871	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0980, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 254c2e74)
0:21:52.694872	LOG	Server <-------------------- DUT
0:21:52.696872	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 063a, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101), MIC: b948fc0f)
0:21:52.697871	LOG	Frame command sent to the DUT
0:21:52.699872	LOG	PULL_RESP: Protocol version = 02, Token = efef, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2026990058, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAOgbgr903ZWrljlOAVM+LHESF1mRySfMwMky1yZ8oRydetuz2Zbz/MhJF0OnD9zzjCGAz+4q8gNvql+RjTx6s9XwnL8HaQVOYvtm8EyBi+YM04z5a2WKTJoY9BpNlb6wFzW4CSaKqnRKUpWkGu5pMsulwdKQ/bblI/A8='}}
0:21:52.700871	LOG	Server --------------------> DUT
0:21:52.703874	LOG	Send Test Command TxFramesCtrlReq process completed
0:21:52.707873	LOG	Send Test Command TxFramesCtrlReq process starts
0:21:57.579488	LOG	First uplink received. Open reception window.
0:21:57.681981	LOG	PUSH_ACK: 02 d3e5 01
0:21:57.683946	LOG	GPS Time from gateway: 1385120460811
0:21:57.684946	LOG	PUSH_DATA: Protocol version = 02, Token = d3e5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2029989827, 'time': '2023-11-27T11:40:41.811683Z', 'tmms': 1385120460811, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAgQkC9Mr/ylH9tyrw9EU='}]}
0:21:57.686946	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0981, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2af0f445)
0:21:57.687945	LOG	Server <-------------------- DUT

0:21:57.689945	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 063b, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 571f788c)
0:21:57.690945	LOG	Frame command sent to the DUT
0:21:57.692945	LOG	PULL_RESP: Protocol version = 02, Token = 8115, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2031989827, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAOwbgmeer4BEQ7hvGCN+kEaCptkCHJq4YtPO4kaZcixSUp8UtxuRTUElMXx0Y2QT4CcOzsxAheRcWDo7BUymps+tDiW2Xo4gC2hviZpW/CFJoKWdJvEhXQL29ycidtM37ZFZpwGJeYxye3jE3Ryz9kE6qXS4WGFcfeIw='}}
0:21:57.693945	LOG	Server --------------------> DUT
0:21:57.696948	LOG	Send Test Command TxFramesCtrlReq process completed
0:21:57.700982	LOG	Send Test Command TxFramesCtrlReq process starts
0:22:02.575222	LOG	First uplink received. Open reception window.
0:22:02.683740	LOG	PUSH_ACK: 02 5b99 01
0:22:02.685741	LOG	GPS Time from gateway: 1385120465811
0:22:02.686777	LOG	PUSH_DATA: Protocol version = 02, Token = 5b99, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2034989607, 'time': '2023-11-27T11:40:46.811462Z', 'tmms': 1385120465811, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAggkC2XYW3T9DpLX3dho='}]}
0:22:02.688777	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0982, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b5f7761a)
0:22:02.689778	LOG	Server <-------------------- DUT
0:22:02.691743	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 063c, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 68d1daeb)
0:22:02.693777	LOG	Frame command sent to the DUT
0:22:02.694775	LOG	PULL_RESP: Protocol version = 02, Token = 8f50, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2036989607, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAPAbgXDI2PYCJDqa2o4mHAMbk2v6McqvlAkPNERGXIaN0jS71IJUPpmHwYvf3ok+AQeS+2VHMe1uWTUobNrgk9qLaKEpJtKgXJ2D6kTi4ziynZl36ocZiKizDBIbHXRr8BtxBU2Dr7LAHV448ojEa5xZziWNGQ2jR2us='}}
0:22:02.695777	LOG	Server --------------------> DUT
0:22:02.698743	LOG	Send Test Command TxFramesCtrlReq process completed
0:22:02.702778	LOG	Send Test Command TxFramesCtrlReq process starts
0:22:07.576780	LOG	First uplink received. Open reception window.
0:22:07.689482	LOG	PUSH_ACK: 02 6eb7 01
0:22:07.691452	LOG	GPS Time from gateway: 1385120470810
0:22:07.692450	LOG	PUSH_DATA: Protocol version = 02, Token = 6eb7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2039989343, 'time': '2023-11-27T11:40:51.811197Z', 'tmms': 1385120470810, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAgwkC9by8WyesJb6YdeI='}]}
0:22:07.694457	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0983, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: be9875e2)
0:22:07.695450	LOG	Server <-------------------- DUT

0:22:07.697470	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 063d, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 104848f8)
0:22:07.698450	LOG	Frame command sent to the DUT
0:22:07.700451	LOG	PULL_RESP: Protocol version = 02, Token = b3f7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2041989343, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAPQbg73ZwMiEXdPpwDKYRZeOnXbbU9Gjxo+hBXwqStC6rOGwJXjLA0cfqcbongHZ7fxF5q8aAjvJQQmqUFWLwulP+3X/vWUvuSG74GdNB1MJqeePmMHdMDzIjD9p2ilvgYaNTUGWHnHL2balkS6vqzA4dTtcS1xBISPg='}}
0:22:07.701449	LOG	Server --------------------> DUT
0:22:07.704455	LOG	Send Test Command TxFramesCtrlReq process completed
0:22:07.708453	LOG	Step 06-07
0:22:07.711451	LOG	Send Test Command RxAppCntReq process starts
0:22:12.582661	LOG	First uplink received. Open reception window.
0:22:12.689672	LOG	PUSH_ACK: 02 4cf2 01
0:22:12.691672	LOG	GPS Time from gateway: 1385120475810
0:22:12.692674	LOG	PUSH_DATA: Protocol version = 02, Token = 4cf2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2044989105, 'time': '2023-11-27T11:40:56.810958Z', 'tmms': 1385120475810, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3369, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAhAkCvbocGLbezWjMsVI='}]}
0:22:12.693674	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0984, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 68ccb152)
0:22:12.695675	LOG	Server <-------------------- DUT
0:22:12.697672	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 063e, FOpts:), FPort: e0, FRMPayload: 09), MIC: 3857b9d0)
0:22:12.698672	LOG	Frame command sent to the DUT
0:22:12.699672	LOG	PULL_RESP: Protocol version = 02, Token = 7f87, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2046989105, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAPgbgOzhXudA='}}
0:22:12.701672	LOG	Server --------------------> DUT
0:22:12.704674	LOG	TX_ACK: 02 7f87 05 0016c001ff1025bf
0:22:12.706674	LOG	GPS Time updated: 1385120475934
0:22:12.707673	LOG	PULL_DATA: 02 a367 02 0016c001ff1025bf
0:22:12.708674	LOG	PULL_ACK: 02 a367 04
0:22:14.795079	LOG	First uplink received. Open reception window.
0:22:14.898892	LOG	PUSH_ACK: 02 105c 01
0:22:14.900891	LOG	GPS Time from gateway: 1385120478031
0:22:14.901859	LOG	PUSH_DATA: Protocol version = 02, Token = 105c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2047209954, 'time': '2023-11-27T11:40:59.031806Z', 'tmms': 1385120478031, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3377, 'rssi': -50, 'size': 16, 'data': 'QAAAAACAhQng43meiFohDA=='}]}
0:22:14.903859	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0985, FOpts:), FPort: e0, FRMPayload: 09b904, MIC: 885a210c)
0:22:14.904858	LOG	Server <-------------------- DUT
0:22:14.905886	LOG	Frame Command Payload in the Answer: 09b904
0:22:14.909896	LOG	RX Count received by DUT: 1209
0:22:14.911907	LOG	Send Test Command RxAppCntReq process completed
0:22:14.919858	LOG	End Test Step: Test packet error rate for SF9BW125 using RX2 window

0:22:14.923859	LOG	Partial Verdict: PASS
0:22:14.927857	LOG	==========
0:22:14.932858	LOG	==========
0:22:14.935860	LOG	Start Test Step: Test packet error rate for SF8BW125 using RX2 window
0:22:14.946575	LOG	Step 01-03
0:22:14.950607	LOG	Send RXParamSetupReq process starts
0:22:17.582180	LOG	First uplink received. Open reception window.
0:22:17.695091	LOG	PUSH_ACK: 02 f635 01
0:22:17.697060	LOG	GPS Time from gateway: 1385120480810
0:22:17.698092	LOG	PUSH_DATA: Protocol version = 02, Token = f635, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2049988851, 'time': '2023-11-27T11:41:01.810702Z', 'tmms': 1385120480810, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3369, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAhgkCvR/w/IfW50wxUQE='}]}
0:22:17.700059	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0986, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4c315101)
0:22:17.701059	LOG	Server <---------- DUT
0:22:17.703057	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 063f, FOpts:), FPort: 00, FRMPayload: 0504d2ad84), MIC: 542f725d)
0:22:17.705059	LOG	PULL_RESP: Protocol version = 02, Token = a12e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2051988851, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAPwYAg3s23WpUL3Jd'}}
0:22:17.706058	LOG	Server ----------> DUT
0:22:17.709057	LOG	TX_ACK: 02 a12e 05 0016c001ff1025bf
0:22:22.575665	LOG	First uplink received. Open reception window.
0:22:22.679084	LOG	PUSH_ACK: 02 eae1 01
0:22:22.681052	LOG	GPS Time from gateway: 1385120485810
0:22:22.682052	LOG	PUSH_DATA: Protocol version = 02, Token = eae1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2054988724, 'time': '2023-11-27T11:41:06.810576Z', 'tmms': 1385120485810, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3370, 'rssi': -51, 'size': 22, 'data': 'QAAAAACChwkFBwJ0zE4XsqSz6TNCBQ=='}]}
0:22:22.684052	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0987, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: e9334205)
0:22:22.685052	LOG	Server <---------- DUT
0:22:22.687058	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:22:22.689052	LOG	Command Answer: 0507
0:22:22.701052	LOG	MAC command communication completed
0:22:22.705061	LOG	Step 03-04
0:22:22.715413	LOG	Send Test Command RxAppCntReq process starts
0:22:22.741388	LOG	GPS Time updated: 1385120485976
0:22:22.742389	LOG	PULL_DATA: 02 fab5 02 0016c001ff1025bf
0:22:22.744388	LOG	PULL_ACK: 02 fab5 04
0:22:27.581968	LOG	First uplink received. Open reception window.
0:22:27.684403	LOG	PUSH_ACK: 02 e68a 01
0:22:27.686371	LOG	GPS Time from gateway: 1385120490809
0:22:27.687371	LOG	PUSH_DATA: Protocol version = 02, Token = e68a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2059988468, 'time': '2023-11-27T11:41:11.810319Z', 'tmms': 1385120490809, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3374, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCiAkFBwLKJvBUZ2aEwCLCgg=='}]}
0:22:27.689370	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0988, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: c022c282)
0:22:27.690371	LOG	Server <---------- DUT

0:22:27.691370	LOG	MAC Command RXParamSetupAns received
0:22:27.693371	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0640, FOpts:), FPort: e0, FRMPayload: 09), MIC: a93f6a1f)
0:22:27.694370	LOG	Frame command sent to the DUT
0:22:27.696371	LOG	PULL_RESP: Protocol version = 02, Token = b393, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2061988468, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAQAbg2Kk/ah8='}}
0:22:27.697371	LOG	Server --------------------> DUT
0:22:27.700372	LOG	TX_ACK: 02 b393 05 0016c001ff1025bf
0:22:29.740496	LOG	First uplink received. Open reception window.
0:22:29.844526	LOG	PUSH_ACK: 02 2a0f 01
0:22:29.846493	LOG	GPS Time from gateway: 1385120492966
0:22:29.847496	LOG	PUSH_DATA: Protocol version = 02, Token = 2a0f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2062145046, 'time': '2023-11-27T11:41:13.966895Z', 'tmms': 1385120492966, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3374, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAiQngyCh78ckRKQ=='}]}
0:22:29.849494	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0989, FOpts:), FPort: e0, FRMPayload: 09ba04, MIC: f1c91129)
0:22:29.850493	LOG	Server <-------------------- DUT
0:22:29.852493	LOG	Frame Command Payload in the Answer: 09ba04
0:22:29.855534	LOG	RX Count received by DUT: 1210
0:22:29.858498	LOG	Send Test Command RxAppCntReq process completed
0:22:29.862498	LOG	Step 05
0:22:29.865500	LOG	Send Test Command TxFramesCtrlReq process starts
0:22:32.572364	LOG	First uplink received. Open reception window.
0:22:32.682233	LOG	PUSH_ACK: 02 9954 01
0:22:32.684235	LOG	GPS Time from gateway: 1385120495809
0:22:32.686244	LOG	PUSH_DATA: Protocol version = 02, Token = 9954, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2064988099, 'time': '2023-11-27T11:41:16.809949Z', 'tmms': 1385120495809, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAigkCr0T6v0kRdwn8fGY='}]}
0:22:32.687234	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 098a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 09fc7c66)
0:22:32.688234	LOG	Server <-------------------- DUT
0:22:32.690234	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0641, FOpts:), FPort: e0, FRMPayload: 070001), MIC: f6971b95)
0:22:32.692237	LOG	Frame command sent to the DUT
0:22:32.693267	LOG	PULL_RESP: Protocol version = 02, Token = e5fb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2066988099, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAQQbgLDpdFhfYAKisOt1QKvu3Zx8TFPOjoPJp+5SP0EIx7VzWTVrkkufOiiXC6KwtAbjKvKZBhtOzCnPhZTMsxxevk+jmXrUYnVWD3PdsJSBtHAoKUWMzQtGbKEU5s83rrg7ERw41Wsxe7QoKljiBR5MFGsC52bZrFtnCRqZHXXLC8gqSccVKM00Fhwf4n9H9675sdndo1M20k+gisvBgVmd6c0XAcWbILTZbWB

		4ls5lulu/GWqEqRn5AR+Wa01J6CpdKuAPSVtGY+4JzRRh7KB7GJroh0GWccA DWSkeqtvw0kshCE83TqwQgwOKe+YurQxwEXkP2lxuV'}}
0:22:32.695236	LOG	Server --------------------> DUT
0:22:32.698234	LOG	Send Test Command TxFramesCtrlReq process completed
0:22:32.701262	LOG	Send Test Command TxFramesCtrlReq process starts
0:22:32.900888	LOG	GPS Time updated: 1385120496137
0:22:32.902856	LOG	PULL_DATA: 02 4ccf 02 0016c001ff1025bf
0:22:32.903854	LOG	PULL_ACK: 02 4ccf 04
0:22:37.583092	LOG	First uplink received. Open reception window.
0:22:37.691817	LOG	PUSH_ACK: 02 d51f 01
0:22:37.693820	LOG	GPS Time from gateway: 1385120500809
0:22:37.695821	LOG	PUSH_DATA: Protocol version = 02, Token = d51f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2069987841, 'time': '2023-11-27T11:41:21.809690Z', 'tmms': 1385120500809, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3374, 'rssi': - 51, 'size': 20, 'data': 'QAAAAACAiwkC0jKu6nTGLeiBQEg='}]}
0:22:37.696876	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 098b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e8814048)
0:22:37.697852	LOG	Server <-------------------- DUT
0:22:37.699826	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0642, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: db760b33)
0:22:37.701818	LOG	Frame command sent to the DUT
0:22:37.702817	LOG	PULL_RESP: Protocol version = 02, Token = 38fa, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2071987841, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAQgbgtWStjMBLfAryvuQl2sA4QchOz4ByFpw1lfZSFaIWgTWh5H9 49inkpTfcsRCEGbCbaJt4ci/WRFhqmHNu/+b6sGnPe1FGMRw50qm5Dh7HeGoK TShfLrLm/SHLcder4HX2dSFYw+oKQuQ973bRj9b1kfvsqztWTI9XuLiT8FqKQt8 jLts42n3Y7KPqpTlzTWQaqvzSTrNjSgRV0VCyEnyt0iaSalzIaB23xr55xfJyTPPtN 0li0tb9V59memwLFCiApUCbrl+WPduYlD4lAO7AtbKs4Zg3yEmRowN/Kzq6G2 4dQ2NF5+qborQhl1jStkW8yfjbdgsz'}}
0:22:37.704817	LOG	Server --------------------> DUT
0:22:37.707821	LOG	Send Test Command TxFramesCtrlReq process completed
0:22:37.710817	LOG	Send Test Command TxFramesCtrlReq process starts
0:22:42.573637	LOG	#****************************CURRENT BEACON SENT****************************#
0:22:42.575615	LOG	PULL_RESP: Protocol version = 02, Token = e7b0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385120512000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAQ49S7DUAAAAAAAAAAAA='}}
0:22:42.576617	LOG	Server --------------------> DUT
0:22:42.578616	LOG	#** ******#
0:22:42.588127	LOG	#****************************NEXT BEACON QUEUED****************************#
0:22:42.590126	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385120640000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu':

		'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAQ49S1OgAAAAAAAAAAAA='}}
0:22:42.591124	LOG	Server --------------------> DUT
0:22:42.593124	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 80438f52, CRC1: d4e8, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385120640000
0:22:42.594158	LOG	#**#
0:22:42.595158	LOG	Next BEACON scheduled at GPS time (ms): 1385120768000
0:22:42.597126	LOG	First uplink received. Open reception window.
0:22:42.598124	LOG	TX_ACK: 02 e7b0 05 0016c001ff1025bf
0:22:42.708404	LOG	PUSH_ACK: 02 b430 01
0:22:42.710407	LOG	GPS Time from gateway: 1385120505808
0:22:42.711404	LOG	PUSH_DATA: Protocol version = 02, Token = b430, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2074987586, 'time': '2023-11-27T11:41:26.809434Z', 'tmms': 1385120505808, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAjAkCjMSoV4ixGd/qB+8='}]}
0:22:42.712404	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 098c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: dfea07ef)
0:22:42.714406	LOG	Server <-------------------- DUT
0:22:42.716404	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0643, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 56c8a52e)
0:22:42.717402	LOG	Frame command sent to the DUT
0:22:42.719406	LOG	PULL_RESP: Protocol version = 02, Token = 39bf, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2076987586, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAQwbgiVvSB8xdWjFGPAvtixZwnHMC1+6XO/Ph81mDf7fYKAeHaTAC07RiBIxWpDWaJuMc/XvutXTdsjYpXOFKc8Zh2HagX906R5Iruu+Er9ut+OrPCP16dr2k3J5KYANz7qDp/XcqGdL8RkgodNvRbG545EmeKT67wElhpEtPsHJgSsexhNrc4OHaNoduTwFf3RDiMnGL/lu+3pHjJSR1k1vqq365QCuM8Lklie9n8Uv310ms7IjdEMPyFiTWoce0u1jscFlg1Lrax61PDut3HHp8MVX8JeWzSM4wFolzPDArL44eORZaC+of9x7v7SchLpC6UMBWyKUu'}}
0:22:42.720404	LOG	Server --------------------> DUT
0:22:42.723373	LOG	Send Test Command TxFramesCtrlReq process completed
0:22:42.726406	LOG	Send Test Command TxFramesCtrlReq process starts
0:22:42.931125	LOG	GPS Time updated: 1385120506141
0:22:42.932134	LOG	PULL_DATA: 02 b85f 02 0016c001ff1025bf
0:22:42.934134	LOG	PULL_ACK: 02 b85f 04
0:22:47.580450	LOG	First uplink received. Open reception window.
0:22:47.689509	LOG	PUSH_ACK: 02 8d26 01
0:22:47.691510	LOG	GPS Time from gateway: 1385120510808
0:22:47.692511	LOG	PUSH_DATA: Protocol version = 02, Token = 8d26, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2079987360, 'time': '2023-11-27T11:41:31.809208Z', 'tmms': 1385120510808, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAjQkCq63kbLKqWzc/mqo='}]}

0:22:47.694511	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 098d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 373f9aaa)
0:22:47.695511	LOG	Server <-------------------- DUT
0:22:47.697511	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0644, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 3d57d466)
0:22:47.699510	LOG	Frame command sent to the DUT
0:22:47.700511	LOG	PULL_RESP: Protocol version = 02, Token = c97f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2081987360, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAARAbg1Rz6ktUrX4liM0sWZvgSos3TIXd6jF7nJz83h9mQIvwtr+1Apr7QWgM+xm/SNiz9/ZI9VTq7MWW5LQ2fBTKbkCKd4KGtxLIsvQvug4cZqsXt1W8M3lJNn5XvP+FhmSPaRkzmmUPivw9OVsJBjZ7kVW324eVlLBOWMsHLA8Q+FFWwXRgYNqbNMgYitDuWMtEyyykmeVBrKqQUG+pjHW20Hjo5BoNxaJ7BK+iFXCXyz208rWkAkJjzowoCIS0hSeDxin1aEHrIqc3X47yyeO8/HN2OiZzFLCzBRE3SObZ62X4HXJKO7HIUbyZ/qnFMTLs9Prk9V9Rm'}}
0:22:47.702509	LOG	Server --------------------> DUT
0:22:47.705511	LOG	Send Test Command TxFramesCtrlReq process completed
0:22:47.709513	LOG	Send Test Command TxFramesCtrlReq process starts
0:22:52.579568	LOG	First uplink received. Open reception window.
0:22:52.688690	LOG	PUSH_ACK: 02 16da 01
0:22:52.690666	LOG	GPS Time from gateway: 1385120515808
0:22:52.691655	LOG	PUSH_DATA: Protocol version = 02, Token = 16da, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2084987141, 'time': '2023-11-27T11:41:36.808988Z', 'tmms': 1385120515808, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAjgkCk3J3vngR+IOmDz8='}]}
0:22:52.693990	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 098e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 83a60f3f)
0:22:52.694992	LOG	Server <-------------------- DUT
0:22:52.697023	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0645, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 179bfe76)
0:22:52.699040	LOG	Frame command sent to the DUT
0:22:52.700027	LOG	PULL_RESP: Protocol version = 02, Token = e025, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2086987141, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAARQbgYxZeD2VEa95S5vKlzwQLJr+Awnu3UFAtNpFExTHSROxj73E1pM08gSVwOAjGyo6gXV2O58GTooJi7dmguJ+NLCkiCMAyITCVW/iDsuxMbP8Zc91zCsRLWH8bizN/c2EJTg/OgaqYj+ztZJqMBxCf1EflPUvXExXTjUB+Pfl1z/Xj2OhsPErfD8SDsTjlyYB2g9Y3iMZFpiaioPHHy+QzBWAzUt9IFuMucIewDb

		AI8An9xsxLsIeKSk+zD4jZWbAcyxziWIOps1H6rsNFUyk68sd/6+saAbN5YCS6dYShcTLZh/KI6MaUIdzvIXe1SIO2GPcXm/52'}}
0:22:52.701024	LOG	Server --------------------> DUT
0:22:52.703997	LOG	Send Test Command TxFramesCtrlReq process completed
0:22:52.708028	LOG	Send Test Command TxFramesCtrlReq process starts
0:22:53.120876	LOG	GPS Time updated: 1385120516349
0:22:53.122873	LOG	PULL_DATA: 02 18b9 02 0016c001ff1025bf
0:22:53.123844	LOG	PULL_ACK: 02 18b9 04
0:22:57.573029	LOG	First uplink received. Open reception window.
0:22:57.681673	LOG	PUSH_ACK: 02 1537 01
0:22:57.683645	LOG	GPS Time from gateway: 1385120520808
0:22:57.684644	LOG	PUSH_DATA: Protocol version = 02, Token = 1537, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2089986865, 'time': '2023-11-27T11:41:41.808711Z', 'tmms': 1385120520808, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAjwkCkrEYeJDKs6LZdqs='}]}
0:22:57.686655	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 098f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a2d976ab)
0:22:57.687644	LOG	Server <-------------------- DUT
0:22:57.689645	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0646, FOpts:), FPort: e0, FRMPayload: 070001), MIC: c794ce3f)
0:22:57.691645	LOG	Frame command sent to the DUT
0:22:57.692644	LOG	PULL_RESP: Protocol version = 02, Token = 275d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2091986865, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAARgbgS7V85X9dnQ3QDavKaMjd3hv13N34hINc7JwZSSyIoBn2Asu++KI/o7Q+pZGsjer3XCuIkb3wa/vNRo7HpgPMMqtIAo2m/eqXPEfXopNlUiI8qE1AwZyn6IW7/8wJLTsUOFrhCbhgD8i67fs7DsauW0iSj6A6P/X2yZhAsbvfSiaHmNengD47K86mvFnpT+ZvnnM04tjky62fLJIHvmIDKEdSOWMGsXn2jG7J7Tun9oaV3rlDZ7cTBkKg9X46BWvYNRRIIY8WlAY+Z9vreMP91tfT3BlobJCkZRVkmc7OZRW0N1kejNk7xxNFOKBN9NFTzHXHlM4/'}}
0:22:57.693644	LOG	Server --------------------> DUT
0:22:57.697644	LOG	Send Test Command TxFramesCtrlReq process completed
0:22:57.701154	LOG	Send Test Command TxFramesCtrlReq process starts
0:23:02.571593	LOG	First uplink received. Open reception window.
0:23:02.684207	LOG	PUSH_ACK: 02 5eff 01
0:23:02.686174	LOG	GPS Time from gateway: 1385120525808
0:23:02.687173	LOG	PUSH_DATA: Protocol version = 02, Token = 5eff, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2094986612, 'time': '2023-11-27T11:41:46.808457Z', 'tmms': 1385120525808, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3369, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAkAkCRoWmUAfVjaF7bRo='}]}
0:23:02.689178	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0990, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a17b6d1a)
0:23:02.690178	LOG	Server <-------------------- DUT
0:23:02.692178	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0647, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010

		1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: ba06b292)
0:23:02.694178	LOG	Frame command sent to the DUT
0:23:02.695177	LOG	PULL_RESP: Protocol version = 02, Token = 28b2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2096986612, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAARwbgBVvelj6MGY7cKoifD5sE0yByOAOXMnRA0h7WCGVztyjeWOBNb8zC9lQZyFF6nB94hmRlDUpZ6eA3l62Rd55ZqkWuSAVFTLl+drZPrD7IdsMvFZgSxws9u/aN2ESqnxpuqVCoa6pp0C1mhyH17NGsjfkzHGBIoPt54aLuXdV2tAXLtzUNMxpIx+k4HWguFtlR5keYcoKxf1qTzzCwkElGefWR05PtdzuO5tAxSeYXxhyNH2jHUO4IOIE9+igtx2XnicTelFpnkvcKei2uRKWlUqY7Kpi3PTxKwtN+b873Mo2vvz9keA6xDgkWTTh+2Dron5C6BrKS'}}
0:23:02.696178	LOG	Server --------------------> DUT
0:23:02.699179	LOG	Send Test Command TxFramesCtrlReq process completed
0:23:02.703770	LOG	Send Test Command TxFramesCtrlReq process starts
0:23:03.321323	LOG	GPS Time updated: 1385120526558
0:23:03.322323	LOG	PULL_DATA: 02 1858 02 0016c001ff1025bf
0:23:03.324324	LOG	PULL_ACK: 02 1858 04
0:23:07.578778	LOG	First uplink received. Open reception window.
0:23:07.693886	LOG	PUSH_ACK: 02 b489 01
0:23:07.695887	LOG	GPS Time from gateway: 1385120530807
0:23:07.696855	LOG	PUSH_DATA: Protocol version = 02, Token = b489, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2099986386, 'time': '2023-11-27T11:41:51.808230Z', 'tmms': 1385120530807, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3377, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAkQkCvQnvgygtMh0TsUg='}]}
0:23:07.698854	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0991, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1d13b148)
0:23:07.699853	LOG	Server <-------------------- DUT
0:23:07.701853	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0648, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 30efdb3d)
0:23:07.703853	LOG	Frame command sent to the DUT
0:23:07.704854	LOG	PULL_RESP: Protocol version = 02, Token = 3462, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2101986386, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAASAbgwOcPhhxg7l1Lhf/yOwUVIdtTe7/vzDePmXtYS1piExw3ys7hcQzfOiE2SvN5UUnvM9cK4ngMafqw+GCmcX1aNW4YfC/oBOiFHI+iPC/iSFm9XG+KD9av8Qiyueeu2FM9zkMD8Vo99qAwYbyMAMlcNmrZcZ8X0QHGXi7Ai8E5mWEc9e5eME2ybopW+I9VSRPZmom8GDhreBXvJVSLC2aMMdcFS2cOJpgrE+t2LpfGmnjdBJaT86wcFr5dDBxTnsMmbAMDaR3+JA8fNmRB++XnZTQHYrMyGdZWc7Sra8X33jJfH2oXMnoVPAXH3SmUNM9M1WQw79s9'}}
0:23:07.705854	LOG	Server --------------------> DUT

0:23:07.709362	LOG	Send Test Command TxFramesCtrlReq process completed
0:23:07.712394	LOG	Send Test Command TxFramesCtrlReq process starts
0:23:12.580067	LOG	First uplink received. Open reception window.
0:23:12.692771	LOG	PUSH_ACK: 02 739a 01
0:23:12.694737	LOG	GPS Time from gateway: 1385120535807
0:23:12.695736	LOG	PUSH_DATA: Protocol version = 02, Token = 739a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2104986122, 'time': '2023-11-27T11:41:56.807966Z', 'tmms': 1385120535807, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAkgkCoQe9s3iA6uyW7lI='}]}
0:23:12.697742	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0992, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ec96ee52)
0:23:12.698741	LOG	Server <-------------------- DUT
0:23:12.700740	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0649, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 90fb95e0)
0:23:12.702741	LOG	Frame command sent to the DUT
0:23:12.703741	LOG	PULL_RESP: Protocol version = 02, Token = fada, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2106986122, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAASQbg4NB+otZ82EwhEWYFPcM2sbhKZ4GytjLQtRC3ud8ppnhKhd N9eDkSb3EEWf5jvxcIFVAkiE7lw+N2t+J5wYw99nQ/IIRTf4vK9kDoG1s8eenmd 01nDFFFT2pMHtwE28j+eWaRzU6WTMqYOClsec5K+KHwavD6rYogAFDcRH pa5pSUqZ1mIDED9HhhNCpgnbgwhHbPEUvegfSiMkPa4pQCXFF8z73i6specXpr 9hFBNhg8uyLEEyQKtP8TZtvhLQgnr0ENEsg+YSoBtHhCpDVM70WcJwcvid31 +6LYx/Uq0Yc11CDVl4CTyyojxYPuK/OwEG2Q+5Xg'}}
0:23:12.705741	LOG	Server --------------------> DUT
0:23:12.708744	LOG	Send Test Command TxFramesCtrlReq process completed
0:23:12.712248	LOG	Send Test Command TxFramesCtrlReq process starts
0:23:13.330495	LOG	GPS Time updated: 1385120536558
0:23:13.331495	LOG	PULL_DATA: 02 139d 02 0016c001ff1025bf
0:23:13.333497	LOG	PULL_ACK: 02 139d 04
0:23:17.577360	LOG	First uplink received. Open reception window.
0:23:17.682605	LOG	PUSH_ACK: 02 a9ac 01
0:23:17.684572	LOG	GPS Time from gateway: 1385120540807
0:23:17.685573	LOG	PUSH_DATA: Protocol version = 02, Token = a9ac, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2109985899, 'time': '2023-11-27T11:42:01.807742Z', 'tmms': 1385120540807, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAkwkCiC/o7XF2sID7+R0='}]}
0:23:17.687573	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0993, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 80fbf91d)
0:23:17.688573	LOG	Server <-------------------- DUT
0:23:17.690573	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 064a, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101

		0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 94bfc012)
0:23:17.692573	LOG	Frame command sent to the DUT
0:23:17.693573	LOG	PULL_RESP: Protocol version = 02, Token = f3ee, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2111985899, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAASgbgK5gIi394s5PRIcv7k8oWATlT108nAnUFunTXVn3gfNH7ZxL +b2KDKBRq8wI9E9aZEsXfwrTnCk9ixKs6gop+lrDLJmJdjj0lHM5rJ8A+OnLSGe JlKgLmFGPoncWJ+/FQTX/ObJ32B0DhdO3q9vHgvcXVTfW37lbVQ8Im1AEWA d6v/7aMc2+WfvJiaNKTPUkXZHcF3BhexM9XOm6Y8E9swuo2S/WGUNvkTvP HgYYzQsO7UMjThQ9wvJd+FrTlOc/agoauvkBy8AwcqtJ8qF9e6s4KXcAmuoMD 2aPSA5qXChM745KnQs2ObzW6Nw+7pUUf/rSUv8AS'}}
0:23:17.694573	LOG	Server --------------------> DUT
0:23:17.697572	LOG	Send Test Command TxFramesCtrlReq process completed
0:23:17.701637	LOG	Send Test Command TxFramesCtrlReq process starts
0:23:22.575821	LOG	First uplink received. Open reception window.
0:23:22.678932	LOG	PUSH_ACK: 02 f2f5 01
0:23:22.680900	LOG	GPS Time from gateway: 1385120545807
0:23:22.681900	LOG	PUSH_DATA: Protocol version = 02, Token = f2f5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2114985630, 'time': '2023-11-27T11:42:06.807472Z', 'tmms': 1385120545807, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAlAkCnvxy5zk1sjZWxNQ='}]}
0:23:22.683901	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0994, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3656c4d4)
0:23:22.684900	LOG	Server <-------------------- DUT
0:23:22.686900	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 064b, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 3fd83e94)
0:23:22.688900	LOG	Frame command sent to the DUT
0:23:22.689900	LOG	PULL_RESP: Protocol version = 02, Token = 2b7a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2116985630, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAASwbgSjeDrKdqWd9VkGwBjU9GJFwsyntYD+8BhPnnjuZE8fYx2z 8HzZMM3Uw4B0oGpAhoTMxgULBlZ2SmrYN/P3TibuzpioT3NslI2wHy7KEytA lXTDm4Jn86WLgP2d/JQPBhM58Dm0/mlXY1EuueI8BeDL4tryF5jph6kRJo3Fx5 NPZeHoS+iPqPeXlQWzxH0lGRX1/AyJkt41WfWiG0Z9FY3Qh9nXlJLY+D4xHT r16926Sl2glmjyVHJhRv0ncX0ZFuiywSIaqQOCc3UnULUEa2ZO/YO3Enn32O7+ aEvfz9Hw+XoZ+6aqCCOL60lgHMnGzPzWE/2D6U'}}
0:23:22.690900	LOG	Server --------------------> DUT
0:23:22.693900	LOG	Send Test Command TxFramesCtrlReq process completed
0:23:22.697899	LOG	Send Test Command TxFramesCtrlReq process starts
0:23:23.530686	LOG	GPS Time updated: 1385120546763
0:23:23.531691	LOG	PULL_DATA: 02 7bc7 02 0016c001ff1025bf
0:23:23.533656	LOG	PULL_ACK: 02 7bc7 04
0:23:27.577175	LOG	First uplink received. Open reception window.

0:23:27.686221	LOG	PUSH_ACK: 02 f8cc 01
0:23:27.688220	LOG	GPS Time from gateway: 1385120550806
0:23:27.689188	LOG	PUSH_DATA: Protocol version = 02, Token = f8cc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2119985380, 'time': '2023-11-27T11:42:11.807221Z', 'tmms': 1385120550806, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAlQkCW6TQArhflMwf2Iw='}]}
0:23:27.691188	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0995, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: cc1fd88c)
0:23:27.692186	LOG	Server <-------------------- DUT
0:23:27.694186	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 064c, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 371e063b)
0:23:27.696186	LOG	Frame command sent to the DUT
0:23:27.697186	LOG	PULL_RESP: Protocol version = 02, Token = 13c2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2121985380, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAATAbg2LGMn8zeQFpymujLVpxOwL2f9KLu340i2RmD55YS5wcO TbFT1G06gvHpG2d2bCEgxyYQbxYMy5kRyWx5pMUYorJBmmVmJhzYgtF5V ND/q8mFViJ4aW1IDo4wk+kLck5zrN48BU1lfxmbCd5UyfYyHDMOAdv2kN2Zo Rur9nbTcAIjHcsXP1Aj2NoqFX88l/WYthKSGLt+M39sfHnmhHcz766PwGEOaf4 GWDsMGsozdji7bEB1HaQx2OjDug/8VPxD8PFTD68ab+QVI+qhmNxTmWBfvK NajGRuQoaT/omcolBAPMdQ3M/o5QidEoDij/2ByU43HgY7'}}
0:23:27.698224	LOG	Server --------------------> DUT
0:23:27.701187	LOG	Send Test Command TxFramesCtrlReq process completed
0:23:27.705167	LOG	Send Test Command TxFramesCtrlReq process starts
0:23:32.579513	LOG	First uplink received. Open reception window.
0:23:32.685846	LOG	PUSH_ACK: 02 8f85 01
0:23:32.687815	LOG	GPS Time from gateway: 1385120555806
0:23:32.688813	LOG	PUSH_DATA: Protocol version = 02, Token = 8f85, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2124985112, 'time': '2023-11-27T11:42:16.806951Z', 'tmms': 1385120555806, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAlgkCY+3PZxbQfvJnxdk='}]}
0:23:32.690814	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0996, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f267c5d9)
0:23:32.691814	LOG	Server <-------------------- DUT
0:23:32.693814	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 064d, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: c18ab4e2)
0:23:32.695814	LOG	Frame command sent to the DUT

0:23:32.696813	LOG	PULL_RESP: Protocol version = 02, Token = b684, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2126985112, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAATQbgXiMH9okMIrB8Yc/bJRc6EcUd4TrFckJ1770jitAkh383RcDcgXaDxPV9mlNe+8PTvTF9dV9nkCYnXGkB1kduAjMNT3a/FGBoOqKLwV6JmNZVyIWqD6U2wBm8aH0mXHeiJGNru0tmfpim2ZSKZz5oDEJszO4sePc2JMqiwBmnjcKewE4WUOatBoxs569vKCZLeCW4XSSqc/kZNp5NEwkLNRwttyRvnMfo9Rp40h/vshHZT8RtfvEagaszsrMNp8lJqX79Ebli8TGvJPKyzwqJdWMA6lUtSYtCxHKxBLCAzK6g1tCgx3RuNZk9xUq8TZaI1XzBirTi'}}
0:23:32.698814	LOG	Server --------------------> DUT
0:23:32.701815	LOG	Send Test Command TxFramesCtrlReq process completed
0:23:32.705813	LOG	Send Test Command TxFramesCtrlReq process starts
0:23:33.541307	LOG	GPS Time updated: 1385120556767
0:23:33.542307	LOG	PULL_DATA: 02 f3a6 02 0016c001ff1025bf
0:23:33.544308	LOG	PULL_ACK: 02 f3a6 04
0:23:37.570157	LOG	First uplink received. Open reception window.
0:23:37.674885	LOG	PUSH_ACK: 02 5f0b 01
0:23:37.676886	LOG	GPS Time from gateway: 1385120560806
0:23:37.677890	LOG	PUSH_DATA: Protocol version = 02, Token = 5f0b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2129984856, 'time': '2023-11-27T11:42:21.806696Z', 'tmms': 1385120560806, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3369, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAlwkCSX6mnjUJddHJNNg='}]}
0:23:37.679852	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0997, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d1c934d8)
0:23:37.680853	LOG	Server <-------------------- DUT
0:23:37.682855	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 064e, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 5a8d6a05)
0:23:37.684854	LOG	Frame command sent to the DUT
0:23:37.685885	LOG	PULL_RESP: Protocol version = 02, Token = 32bf, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2131984856, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAATgbgecI3y2JAAWvkyAguH3RaEBKWjcbo7aNamtKDjZk+Du6r5X4yih/T0ovmmuH93vQw+5a37Byr0m4g8Jz7kRp2ZnE9jV73bJKRZ/EORVPDPclM8YrLacE7uXDIF69GlogqTcB3ARyV5tFQzZrncN4EXZdgMZ5tDFqK7F1p2qnz2WUfAji8Dnk9dkFyrtjrPxsMqSZ2OMPY1j5rxxSZJxmYOX4XnJM84gsIDmWQ7Jal6rQcI04SSkjd3XT6gZCYvF2sNDp2DUkY6p7rRcJFef8sCbn8PrvORcT0lba5QHMWQN6hMFon/J8QQgQ+V5P12ythL1lajWoF'}}
0:23:37.686886	LOG	Server --------------------> DUT
0:23:37.689886	LOG	Send Test Command TxFramesCtrlReq process completed
0:23:37.693853	LOG	Send Test Command TxFramesCtrlReq process starts
0:23:42.574892	LOG	First uplink received. Open reception window.
0:23:42.686546	LOG	PUSH_ACK: 02 5fa0 01
0:23:42.688540	LOG	GPS Time from gateway: 1385120565805
0:23:42.689509	LOG	PUSH_DATA: Protocol version = 02, Token = 5fa0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2134984627, 'time': '2023-11-27T11:42:26.806466Z', 'tmms': 1385120565805, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3369, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAmAkCZYy/CCMyIeZk+Bw='}]}
0:23:42.691559	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0998, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e664f81c)
0:23:42.692541	LOG	Server <-------------------- DUT
0:23:42.694510	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 064f, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 5bf15571)
0:23:42.696512	LOG	Frame command sent to the DUT
0:23:42.697546	LOG	PULL_RESP: Protocol version = 02, Token = 12cd, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2136984627, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAATwbg6jniJc0amyZR+imRr7e05Nak10ktKRgfgZkRJdMe3MNfdzzQe0+2iWQUgPGCMh26lcCEyoKneNngVvlHcir4JofYG0qx4reOivpamzVjhrP4YY2WDkYOqxRwSxA209E+LxQtvtopw0bLMoQUyJg346X2yHSxdk+okmYRrlwFe+3/ZY+Ks4TADvMGfATF8fo78cmDqh4Er1KslY6Cj2fQFFdMidZ+WKbWpll0Ke0FZ6tBpqlYSLChCv6Om3Zyz5G3un49NUwMTRL78Ji4/JCvs+IcKv6h6PKBgEL2VjBGPmnxpKFpeOORfukPquTQWMMVN0Nb8VVx'}}
0:23:42.699509	LOG	Server --------------------> DUT
0:23:42.701507	LOG	Send Test Command TxFramesCtrlReq process completed
0:23:42.705512	LOG	Send Test Command TxFramesCtrlReq process starts
0:23:43.750276	LOG	GPS Time updated: 1385120566981
0:23:43.751910	LOG	PULL_DATA: 02 3475 02 0016c001ff1025bf
0:23:43.753619	LOG	PULL_ACK: 02 3475 04
0:23:47.568992	LOG	First uplink received. Open reception window.
0:23:47.676459	LOG	PUSH_ACK: 02 d792 01
0:23:47.678425	LOG	GPS Time from gateway: 1385120570805
0:23:47.680428	LOG	PUSH_DATA: Protocol version = 02, Token = d792, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2139984396, 'time': '2023-11-27T11:42:31.806234Z', 'tmms': 1385120570805, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3377, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAmQkC2fjiU4ZlNcWX6SM='}]}
0:23:47.681464	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0999, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c597e923)
0:23:47.682466	LOG	Server <-------------------- DUT
0:23:47.684429	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0650, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 6d223f85)
0:23:47.686426	LOG	Frame command sent to the DUT
0:23:47.687461	LOG	PULL_RESP: Protocol version = 02, Token = 8a3c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2141984396, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True,

		'size': 255, 'data': 'YAAAAAAAUAbgKJNOEubnr98GFl/eg6Qr8JnveCafYCiJzPPN9PbBpvMksPjnC/q04DbX+QbIBwR975tzSZpIorXdQTbi7XeJdiV/IBfO4jMdPoy76ZTrVFOeItVqEXKRVfWtEl1B26LA3TK8CyXvWEcmHSFEAd/jw/K4mviC+nWUYOOdIN1WMxBOyRNerYdpHBgwV7gXs+ROO2SO5u6mE8u8ckq6r6O5dvSvhvTH7mlWiergzDp6fmUkdmWAip6U1JSexKfSq+jpbSypcDbl2TB5TOhAzfX62w1nqW+J6wG/NkEupMl1DdyLqLMRNWbQfWyRbwGmH9DdX2ttIj+F'}}
0:23:47.689428	LOG	Server --------------------> DUT
0:23:47.692428	LOG	Send Test Command TxFramesCtrlReq process completed
0:23:47.696432	LOG	Send Test Command TxFramesCtrlReq process starts
0:23:52.569547	LOG	First uplink received. Open reception window.
0:23:52.677554	LOG	PUSH_ACK: 02 74f0 01
0:23:52.679555	LOG	GPS Time from gateway: 1385120575805
0:23:52.680525	LOG	PUSH_DATA: Protocol version = 02, Token = 74f0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2144984165, 'time': '2023-11-27T11:42:36.806002Z', 'tmms': 1385120575805, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAmgkC6qvLWDZib32rTqc='}]}
0:23:52.682522	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 099a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7dab4ea7)
0:23:52.683524	LOG	Server <-------------------- DUT
0:23:52.685526	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0651, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 7f38a2ee)
0:23:52.687545	LOG	Frame command sent to the DUT
0:23:52.688555	LOG	PULL_RESP: Protocol version = 02, Token = 5171, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2146984165, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAUQbgKThcAq4mPfDVcSeisEgnc71+UzLbpKoIGcb13nMFQgvNBY/emo6NRf9mvYk7mHV5Jl0prA/ZEQPtrrKnbX6I3lSsNZq96SDIDABk0uUVaW3EC+cRm/Jd6lOUk9pM5gafmj1+pOeSsygp93BuLUtSGsOgy5HR6tWyv6irnnR4BQVJIG/3TkGE/c9B4nDShcEr9M7fOPWM865C6kMQSeQDslEONWi4inGyIS0om5ifqEkDqBGh5yrApXFTSssI2AgAMsQRUGzP9OB5u4WORN3Fs5LGPiT6X2SLQzq6zcABZO0rmqDdPUL04sapWy7MOtfa4mF/OKLu'}}
0:23:52.689525	LOG	Server --------------------> DUT
0:23:52.692523	LOG	Send Test Command TxFramesCtrlReq process completed
0:23:52.696569	LOG	Send Test Command TxFramesCtrlReq process starts
0:23:53.950976	LOG	GPS Time updated: 1385120577186
0:23:53.951113	LOG	PULL_DATA: 02 ea29 02 0016c001ff1025bf
0:23:53.953643	LOG	PULL_ACK: 02 ea29 04
0:23:57.570132	LOG	First uplink received. Open reception window.
0:23:57.685916	LOG	PUSH_ACK: 02 c38c 01
0:23:57.687879	LOG	GPS Time from gateway: 1385120580805
0:23:57.688879	LOG	PUSH_DATA: Protocol version = 02, Token = c38c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2149983916, 'time': '2023-11-27T11:42:41.805751Z', 'tmms': 1385120580805, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAmwkCgbjWbJ4DK9MLFqE='}]}

0:23:57.689880	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 099b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d30b16a1)
0:23:57.691880	LOG	Server <-------------------- DUT
0:23:57.693880	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0652, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: a7764a17)
0:23:57.695880	LOG	Frame command sent to the DUT
0:23:57.696880	LOG	PULL_RESP: Protocol version = 02, Token = 193b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2151983916, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAUgbgwvcBw2MrVdvzyKYxpHa+sJh6o0vpVeS9flwuso8jUJBzHUB F72DW5486F5s3fiHFbzykRKV5shX2uX892XMdvPlV71yvep47tRbuzXC0obcW MqifieBd4pt27TFqzeWZTosEjoEwuzpWptdWZHZJGyxUS91A5uQ46+87N/GCv p5DqiO6SpIRGy/pRRHtKHMsp5apbWrkumtQxWXndPZskeBZ5irCkQPRSvMsT GKSMLKDPnRSb58r/7CXHWxVSL0dCyEujTsQAiFdpeXwBl8Uwd8Tkh0Fc45S 7RmBWboEDE394ONnuAQSlEzTae7JPot4rEindkoX'}}
0:23:57.697879	LOG	Server --------------------> DUT
0:23:57.700880	LOG	Send Test Command TxFramesCtrlReq process completed
0:23:57.704926	LOG	Send Test Command TxFramesCtrlReq process starts
0:24:02.573569	LOG	First uplink received. Open reception window.
0:24:02.688143	LOG	PUSH_ACK: 02 fb6d 01
0:24:02.690109	LOG	GPS Time from gateway: 1385120585804
0:24:02.691110	LOG	PUSH_DATA: Protocol version = 02, Token = fb6d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2154983654, 'time': '2023-11-27T11:42:46.805490Z', 'tmms': 1385120585804, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAnAkCG02SXtWj1FJrTt0='}]}
0:24:02.693110	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 099c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 526b4edd)
0:24:02.694110	LOG	Server <-------------------- DUT
0:24:02.696109	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0653, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 37413d3a)
0:24:02.698110	LOG	Frame command sent to the DUT
0:24:02.699110	LOG	PULL_RESP: Protocol version = 02, Token = 6329, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2156983654, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAUwbgsLdjoqat0oofSAMJq9tkU8ctp4hPsM4mhVHVFJGTKsD+2E2 VGbs9hXDoHhhVkikcJQDPFblhxBI6huenomjLU+gdgv6zbFcXXpIQRCbfLrJRJH q4Alr4nqMHpJdUw1RE3+iDWJhLTnmpJsDGWasxmbkbDhTnJ7bNf6/g0NBK89 ufLCab6geWm8cAxaeeO8vaTRnUdLTQ30rlLsq2rvEerHiL0RlgNki+8P6aye5bQik

		k7OL7vi1BDhboiJfokm5fOheqnVu8g+5fqT2x9sOFlkXqixW/zAvZ9KFpkaImAUJ 1Tq62S0Dvs79weTCb91v+at83QT06'}}
0:24:02.701109	LOG	Server ----------> DUT
0:24:02.703110	LOG	Send Test Command TxFramesCtrlReq process completed
0:24:02.707110	LOG	Send Test Command TxFramesCtrlReq process starts
0:24:03.960919	LOG	GPS Time updated: 1385120587191
0:24:03.961996	LOG	PULL_DATA: 02 38ed 02 0016c001ff1025bf
0:24:03.964003	LOG	PULL_ACK: 02 38ed 04
0:24:07.569671	LOG	First uplink received. Open reception window.
0:24:07.680399	LOG	PUSH_ACK: 02 62b3 01
0:24:07.682365	LOG	GPS Time from gateway: 1385120590804
0:24:07.683368	LOG	PUSH_DATA: Protocol version = 02, Token = 62b3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2159983422, 'time': '2023-11-27T11:42:51.805257Z', 'tmms': 1385120590804, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAnQkC206FNazW33BXPzI='}]}
0:24:07.685367	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 099d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 70573f32)
0:24:07.686367	LOG	Server <---------- DUT
0:24:07.688366	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0654, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 101010101010101), MIC: b8ed74bb)
0:24:07.690367	LOG	Frame command sent to the DUT
0:24:07.691367	LOG	PULL_RESP: Protocol version = 02, Token = 6a49, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2161983422, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAVAbgK7rwNTNUeC+7ZsNDUlYWxVfAcRmVyJGg/LL0FtLkBF6i NSPoQpPgdKSjddfVlQB8n7weLGQPtUQhXRLdF5m/VcJ16MXW/xhF1216KXf8 XH2//ktRXn54UWPcU5cdhvUWXBZ9gEH2LWn8eWPmEJSNu9iEPKGsT/kkMB VtI5lmP96Z3CBub0ewzUaEl2WSPWGB2wocuYU+Qrf+JRuL+oBePlne4s2g9dPi UuE+lFLbOBs+hkDSM89N2l2bbKTw9u7qxZFnjAbx7b6Lb+bwdJWlUeoc9rdImb yO2f5kWJ6Z8KdOc6QmkyFDUWV66mt/MbE9IIe47XS7'}}
0:24:07.692366	LOG	Server ----------> DUT
0:24:07.695366	LOG	Send Test Command TxFramesCtrlReq process completed
0:24:07.699368	LOG	Send Test Command TxFramesCtrlReq process starts
0:24:12.567739	LOG	First uplink received. Open reception window.
0:24:12.682462	LOG	PUSH_ACK: 02 b477 01
0:24:12.684430	LOG	GPS Time from gateway: 1385120595805
0:24:12.685430	LOG	PUSH_DATA: Protocol version = 02, Token = b477, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2164983193, 'time': '2023-11-27T11:42:56.805027Z', 'tmms': 1385120595805, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAngkChcDtL/sX+Yh5iuc='}]}
0:24:12.687430	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 099e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 88798ae7)
0:24:12.688430	LOG	Server <---------- DUT
0:24:12.690431	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0655, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101

		10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: e38b8f37)
0:24:12.692431	LOG	Frame command sent to the DUT
0:24:12.693430	LOG	PULL_RESP: Protocol version = 02, Token = 70c7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2166983193, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAVQbg+ssaZMCLjbNzcJ+VdbFURQIWrOL7qSsXuOrRVpijUs/OsF GJkp2qX03QMIlDxx8sa7BeSa01A1ud9UEJfvfNH55oZksHSHBHgRMlyMKJF/q FZHopJzGoXAZs+kZDe0iaLODStlfVU1WavFUlfv6T6c6fd/kl8OpxlEWPPvZ2CP +6YPruIJRdUwFHAio03NPLwTzaaoBMW4KTbTquZaaGEVPj/JEZjf7fAmPgiIiZ OLb9IfLlop8x6NLmoB196XqG/Gc1Zhc864X2EqzFYn9qC2t2otRqPsOKqf2iC7Its nbOrH5uC2937LFcVtUQ+tW15bvji483'}}
0:24:12.695431	LOG	Server --------------------> DUT
0:24:12.697431	LOG	Send Test Command TxFramesCtrlReq process completed
0:24:12.701433	LOG	Send Test Command TxFramesCtrlReq process starts
0:24:14.160280	LOG	GPS Time updated: 1385120597397
0:24:14.161279	LOG	PULL_DATA: 02 e3ac 02 0016c001ff1025bf
0:24:14.163279	LOG	PULL_ACK: 02 e3ac 04
0:24:17.577357	LOG	First uplink received. Open reception window.
0:24:17.686873	LOG	PUSH_ACK: 02 4373 01
0:24:17.688836	LOG	GPS Time from gateway: 1385120600805
0:24:17.689839	LOG	PUSH_DATA: Protocol version = 02, Token = 4373, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2169982965, 'time': '2023-11-27T11:43:01.804798Z', 'tmms': 1385120600805, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAnwkC8A7MSqT6VGovkwQ='}]}
0:24:17.691839	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 099f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6a2f9304)
0:24:17.692837	LOG	Server <-------------------- DUT
0:24:17.694853	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0656, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 6baef57b)
0:24:17.696870	LOG	Frame command sent to the DUT
0:24:17.697871	LOG	PULL_RESP: Protocol version = 02, Token = a059, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2171982965, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAVgbg7uBiOvmpA9Oj/FSfEn9goJYqloCG9MNYrmeC9WTl0fB3OA i/5ITStd2QiZT0E8OYDHDzpiJoKbxydiTbNjrXfyMontu4seNjA21UQv1Kc+dXBx cetmFufMzoW2TqkVn1tiJmih8Aunuuv63xrnSDQfIUpMuR8JkN/+2JeR6CRAoov uvtKLj23GJQywaVfkFEd6EF+WHo7WwGjv0a/xuwTo5sYTgFhm4gBqvnOji/PXb n3DDP7btWxPTBppQ4kTR3f5IUapEecFkek12nREz5CsylvU5NcIgnsITjriQx2a6F 0AC3falGVDc7UY9n0EAi/2NrrvV7'}}
0:24:17.698871	LOG	Server --------------------> DUT

0:24:17.701840	LOG	Send Test Command TxFramesCtrlReq process completed
0:24:17.705839	LOG	Send Test Command TxFramesCtrlReq process starts
0:24:22.576391	LOG	First uplink received. Open reception window.
0:24:22.685594	LOG	PUSH_ACK: 02 3236 01
0:24:22.687561	LOG	GPS Time from gateway: 1385120605805
0:24:22.688562	LOG	PUSH_DATA: Protocol version = 02, Token = 3236, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2174982735, 'time': '2023-11-27T11:43:06.804566Z', 'tmms': 1385120605805, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAoAkC8rO11RxPjggfKZk='}]}
0:24:22.690563	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09a0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 081f2999)
0:24:22.691564	LOG	Server <-------------------- DUT
0:24:22.693562	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0657, FOpts:), FPort: e0, FRMPayload: 070001), MIC: a2464602)
0:24:22.694561	LOG	Frame command sent to the DUT
0:24:22.696594	LOG	PULL_RESP: Protocol version = 02, Token = 0e03, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2176982735, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAVwbgVNYrkL+lc/A2A49QcxzNYXlYGhSYFqchqWgsYitgZdcv+RcA2joaRsjU6egsK8AoO4DKFv2e0xFlcXV7j/BHgFmKGZQzoCMKI+mGgFN2Q9EryCDFwWVCAsPA4N03YTpzXF7kuFd4YY+o7YToO3S/YJevDmPAn91Gbkfjo+ycvhY9FBYA+5NPVSgPu1yY6G8ntcsRf3ir1Ch+SXWrvrz/veGW/6odMOclYfRLrEO29fwfZ9nBa2jJwOOCsrTTar3ZoJajFtVZ1tUGvggsglEEBov08sBozNwoBe+kFdXSQalnPhnCwPkZ3qmymAoqAvqoHnyiRkYC'}}
0:24:22.697593	LOG	Server --------------------> DUT
0:24:22.700595	LOG	Send Test Command TxFramesCtrlReq process completed
0:24:22.703599	LOG	Send Test Command TxFramesCtrlReq process starts
0:24:24.170386	LOG	GPS Time updated: 1385120607399
0:24:24.172352	LOG	PULL_DATA: 02 1991 02 0016c001ff1025bf
0:24:24.173353	LOG	PULL_ACK: 02 1991 04
0:24:27.568240	LOG	First uplink received. Open reception window.
0:24:27.677482	LOG	PUSH_ACK: 02 3276 01
0:24:27.679482	LOG	GPS Time from gateway: 1385120610804
0:24:27.680450	LOG	PUSH_DATA: Protocol version = 02, Token = 3276, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2179982512, 'time': '2023-11-27T11:43:11.804344Z', 'tmms': 1385120610804, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAoQkCX8O33wU6Gm0ORC4='}]}
0:24:27.682451	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09a1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6d0e442e)
0:24:27.683484	LOG	Server <-------------------- DUT
0:24:27.685021	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0658, FOpts:), FPort: e0, FRMPayload: 070001

		0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: b9100bb9)
0:24:27.687069	LOG	Frame command sent to the DUT
0:24:27.688059	LOG	PULL_RESP: Protocol version = 02, Token = 095c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2181982512, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAWAbg7O9WmXHN2Piw6vSF7CWe/zueBPi9Kt9psKg6TB6NVTkebwSgStVAJyLZfVMHMw2doVNND24hDT6k724+QZBrtpvsycNzB76W1Th4mwD99AY0qS4OvCdEvc2XfyVpITPvh3Fcow8aqI1OEaFeLJmOREwt+uvjEmqOEVgO3WgBp/KIdBfTq6RalbumJ94tRwPuD2Y6m8pwjiKbC04H/8MQfrRe+G+B95YRC4fFD9Ml34qJ5+ETOC9iT1zabjcREGJ6AbTGB0k7ZB5peoPZ8lSCXAtFb9rakTLIbqslgFgUggJWnhYH5lQOQDCTqWaxWwVW4JG5EAu5'}}
0:24:27.689058	LOG	Server --------------------> DUT
0:24:27.692063	LOG	Send Test Command TxFramesCtrlReq process completed
0:24:27.696024	LOG	Send Test Command TxFramesCtrlReq process starts
0:24:32.567883	LOG	First uplink received. Open reception window.
0:24:32.676676	LOG	PUSH_ACK: 02 ed09 01
0:24:32.678728	LOG	GPS Time from gateway: 1385120615804
0:24:32.680678	LOG	PUSH_DATA: Protocol version = 02, Token = ed09, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2184982254, 'time': '2023-11-27T11:43:16.804085Z', 'tmms': 1385120615804, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAogkCu5lh5e3wCeWY9s4='}]}
0:24:32.681677	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09a2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e598f6ce)
0:24:32.682678	LOG	Server <-------------------- DUT
0:24:32.684677	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0659, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 7df55d00)
0:24:32.686715	LOG	Frame command sent to the DUT
0:24:32.687713	LOG	PULL_RESP: Protocol version = 02, Token = 3c73, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2186982254, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAWQbgUKga5gTRjWwKGA3dp5MIngc+UcB22RT2Aq+tLZBUVxh1RPC+/PgXH2ozaoY3nqOzKdDeFVM6BDvo7LTl1Px8LUgMHDaj1IMcosu7wA75FQuImJlbQ7xG4588D3XAhbxHpEq/VVm1sum00OexxZTaDKL1voqJC5vccGdNee+tPgqq4DLRWXNSt4qQdLAvSVp3SOtMBHlNThPY5JBbhW/pmpSDs2DUetEzrQQszAJQVflkoB258LEKeVXsBvaiautuRFSaJsLVEZ078s8Xr2MdKMRNvZIpt7hGMwvIsx88pfKv9WLZ2K9pgLg0HSGA+7oSSdB99V0A'}}
0:24:32.689251	LOG	Server --------------------> DUT
0:24:32.692257	LOG	Send Test Command TxFramesCtrlReq process completed
0:24:32.695288	LOG	Send Test Command TxFramesCtrlReq process starts
0:24:34.369339	LOG	GPS Time updated: 1385120617606
0:24:34.371304	LOG	PULL_DATA: 02 0862 02 0016c001ff1025bf
0:24:34.373304	LOG	PULL_ACK: 02 0862 04
0:24:37.572612	LOG	First uplink received. Open reception window.

0:24:37.683229	LOG	PUSH_ACK: 02 f9f2 01
0:24:37.685263	LOG	GPS Time from gateway: 1385120620804
0:24:37.686231	LOG	PUSH_DATA: Protocol version = 02, Token = f9f2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2189981986, 'time': '2023-11-27T11:43:21.803816Z', 'tmms': 1385120620804, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAowkCkxoF6JevINkzVWQ='}]}
0:24:37.688231	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09a3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d9335564)
0:24:37.689237	LOG	Server <-------------------- DUT
0:24:37.691262	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 065a, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 0a77c6b5)
0:24:37.692803	LOG	Frame command sent to the DUT
0:24:37.694809	LOG	PULL_RESP: Protocol version = 02, Token = d6ac, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2191981986, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAWgbgVBr2jUbY8O/qesjRa2Fb9/6+bRZknZgQMkBErRtikFcBhLy1qnV1Ncx7L7OCRWpSL7w7YewYzEYdgh5iY3oHQQeeSIqMxhYFPNcESydTs13RPpzAZkSAtuyHr5Mlktmdd/ofacSgd+6NSBctYrnXY6yPHBDBYWujAIMZhFAf+FOfy3OpXOniRjw9c8aZ+0IoeN3qygkXK+sBOICir/ZPtwO31e1wLHgyaiXXM94AQOnyqipXFcCdwJN+hchKaj/zSmo042WzfFoal3OBzaTHHxT4mxdT57WAt8IIoG1JkIkpeeRvQ+l89NzCPzGQ+/pmLusKd8a1'}}
0:24:37.695841	LOG	Server --------------------> DUT
0:24:37.698809	LOG	Send Test Command TxFramesCtrlReq process completed
0:24:37.701841	LOG	Send Test Command TxFramesCtrlReq process starts
0:24:42.571074	LOG	First uplink received. Open reception window.
0:24:42.679948	LOG	PUSH_ACK: 02 8b72 01
0:24:42.681919	LOG	GPS Time from gateway: 1385120625804
0:24:42.682919	LOG	PUSH_DATA: Protocol version = 02, Token = 8b72, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2194981764, 'time': '2023-11-27T11:43:26.803593Z', 'tmms': 1385120625804, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACApAkCiCPQBN30Gaj2kRM='}]}
0:24:42.684920	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09a4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a8f69113)
0:24:42.685919	LOG	Server <-------------------- DUT
0:24:42.687920	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 065b, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 0a804499)
0:24:42.689919	LOG	Frame command sent to the DUT

0:24:42.690919	LOG	PULL_RESP: Protocol version = 02, Token = 937b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2196981764, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAWwbgQ/6Y76CjCoaE5nrkc09EoC7BNhF190IR9BOVx37xfeQWcD06efHtUcncOG07v46hhRfmpE3ubvu50UwEueYDiF97lr7khSs5EHMMPUid0m79gMS2TOlCR0lLQ1fKXjGB9KoLcJXh5jRQKKZ/qbxxnkg5AQRByAcyNeUKjfW8LM3TFyFzK1p+q008b8zH31aVdY5zNom3rqeWf+vjWvdOtZrfJd5LWhZPWLCI17evdTeWSFx1+L3PdHebuirdXIzGLJzaTAdbyuFO3Pg+WSCcCKq8Kd92cH4R0aJ8WXWzoQhkodfueS+XCm5+awGSCbui4XYKgESZ'}}
0:24:42.692919	LOG	Server --------------------> DUT
0:24:42.694919	LOG	Send Test Command TxFramesCtrlReq process completed
0:24:42.699476	LOG	Send Test Command TxFramesCtrlReq process starts
0:24:44.579359	LOG	GPS Time updated: 1385120627813
0:24:44.581359	LOG	PULL_DATA: 02 504e 02 0016c001ff1025bf
0:24:44.582365	LOG	PULL_ACK: 02 504e 04
0:24:47.565940	LOG	#****************************CURRENT BEACON SENT****************************#
0:24:47.566956	LOG	PULL_RESP: Protocol version = 02, Token = 2c9d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385120640000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAQ49S1OgAAAAAAAAAAAA='}}
0:24:47.568923	LOG	Server --------------------> DUT
0:24:47.570924	LOG	#***#
0:24:47.579925	LOG	#****************************NEXT BEACON QUEUED****************************#
0:24:47.581925	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385120768000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAARI9SfLAAAAAAAAAAAAA='}}
0:24:47.582926	LOG	Server --------------------> DUT
0:24:47.584923	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 00448f52, CRC1: 7cb0, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385120768000
0:24:47.585957	LOG	#***#
0:24:47.586955	LOG	Next BEACON scheduled at GPS time (ms): 1385120896000
0:24:47.588960	LOG	First uplink received. Open reception window.
0:24:47.589961	LOG	TX_ACK: 02 2c9d 05 0016c001ff1025bf
0:24:47.701622	LOG	PUSH_ACK: 02 fe4b 01
0:24:47.703146	LOG	GPS Time from gateway: 1385120630803
0:24:47.705144	LOG	PUSH_DATA: Protocol version = 02, Token = fe4b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2199981499, 'time': '2023-11-27T11:43:31.803326Z', 'tmms': 1385120630803, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACApQkCC7yvcqxOjgCmU94='}]}
0:24:47.706143	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09a5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 00a653de)
0:24:47.707144	LOG	Server <-------------------- DUT
0:24:47.709144	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 065c, FOpts:), FPort: e0, FRMPayload: 0700010

		1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 6588a4f9)
0:24:47.711144	LOG	Frame command sent to the DUT
0:24:47.713145	LOG	PULL_RESP: Protocol version = 02, Token = 1d92, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2201981499, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAXAbg+LwOOy39jY5qwQaG1q8ssKl5ZBDJDRO5L7vlSjSG7F0r/PDpNZe/V8EZhp5O3SeuCvBz8GcU+T4PcDqIKd2ltmVS8NzKr3lkHKHg94pC4fwGJcKNOyPzmpn+ziRrUHPA+mwT+GP1RkXMmlg63e+j5WZ5NpFvqGWM31JIzd+J436qxYgfSa8xNh3GADdPBifZb3svF6aWNuzatcgIaGiuonFdhZFJfRicKySa8XUIs//nRtIOiUVQpr/AZS1tY47iI4hZ6Ye7oaMdLiIVjflsEN/trZ4Fp0Bz4XGeoxHfu+fjjSB2yz05P1iPRiCmxuATpytliKT5'}}
0:24:47.714144	LOG	Server --------------------> DUT
0:24:47.718147	LOG	Send Test Command TxFramesCtrlReq process completed
0:24:47.722146	LOG	Send Test Command TxFramesCtrlReq process starts
0:24:52.570972	LOG	First uplink received. Open reception window.
0:24:52.686650	LOG	PUSH_ACK: 02 bb36 01
0:24:52.688619	LOG	GPS Time from gateway: 1385120635803
0:24:52.689618	LOG	PUSH_DATA: Protocol version = 02, Token = bb36, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2204981264, 'time': '2023-11-27T11:43:36.803092Z', 'tmms': 1385120635803, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACApgkCZuHuIwzCA2kJ30U='}]}
0:24:52.691619	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09a6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6909df45)
0:24:52.692624	LOG	Server <-------------------- DUT
0:24:52.694624	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 065d, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: fd638285)
0:24:52.696624	LOG	Frame command sent to the DUT
0:24:52.697623	LOG	PULL_RESP: Protocol version = 02, Token = c141, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2206981264, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAXQbgDN68uKVwYCRK3lL/y5Ybc/dFwopWUX4yvBgFN7Fx76NisjCp5jf1XojMMUBTFHm4syRPZia2rH6SgZCc+rf/VDr9steywVfZqtoP1fnzC+/o0+6nSqzqlFt0+eg7AVvtZmB7RWjz2Pi7A6gZhVe1hmoTBuf0as7FQRBCZX3IIxRtxGALxDSQF+TU9GXJgAiLVlOPFriYbRzRP8m0A+V2fw7j3cM+8KI142lqVoJJsvnHD7NPuyECDo3mUMJUNrJxOzGYyOcUFZmIMW9fjTbS4E0mxY7fUX/zrRmJMFG3Pb6k2wMSFuR1K53/k+U2sKMlzY79Y4KF'}}
0:24:52.699624	LOG	Server --------------------> DUT
0:24:52.702625	LOG	Send Test Command TxFramesCtrlReq process completed
0:24:52.705624	LOG	Send Test Command TxFramesCtrlReq process starts
0:24:54.589801	LOG	GPS Time updated: 1385120637822
0:24:54.590801	LOG	PULL_DATA: 02 381e 02 0016c001ff1025bf
0:24:54.592782	LOG	PULL_ACK: 02 381e 04
0:24:57.571934	LOG	First uplink received. Open reception window.
0:24:57.676979	LOG	PUSH_ACK: 02 95cd 01

0:24:57.678979	LOG	GPS Time from gateway: 1385120640803
0:24:57.680982	LOG	PUSH_DATA: Protocol version = 02, Token = 95cd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2209981018, 'time': '2023-11-27T11:43:41.802845Z', 'tmms': 1385120640803, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3385, 'rssi': - 51, 'size': 20, 'data': 'QAAAAACApwkC3rmhjDw40Rvg/lo='}]}
0:24:57.681951	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09a7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1be0fe5a)
0:24:57.683946	LOG	Server <-------------------- DUT
0:24:57.685947	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 065e, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: e4dab31f)
0:24:57.686946	LOG	Frame command sent to the DUT
0:24:57.688971	LOG	PULL_RESP: Protocol version = 02, Token = 0972, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2211981018, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAXgbgCHP0HjkbUOuUrR3VR1h95R6jrsJBNMqAivJ6IRZwV3KJBo JATZ7Am4BTeQ5agMCDKslzRL65JQ3Jpnyw4Y6PJtY+pdUy7ksDJw8Sd0puFo+ +xS8FXi1RskffrRHbJnFqkQWvAU6PAuZa/S3+y9wOBiVHGvdhmc6R27mQ2G1 kWrCfejZ7qOjf35jy0fgW8C+CTrowq+dcBekfAP9K7oQL3pGXH79XGB8W2Z0F 0jzs0pWoj7ZQ+FFXkpw/peGJmillkgoXNGClcCbDU22l20bw0NJdKWpyRSJrybT scgMf0RqHooKNN0LEcOULBuGEdyF2Xy7k2rMf'}}
0:24:57.689977	LOG	Server --------------------> DUT
0:24:57.692960	LOG	Send Test Command TxFramesCtrlReq process completed
0:24:57.696945	LOG	Send Test Command TxFramesCtrlReq process starts
0:25:02.570283	LOG	First uplink received. Open reception window.
0:25:02.674265	LOG	PUSH_ACK: 02 99d8 01
0:25:02.676266	LOG	GPS Time from gateway: 1385120645803
0:25:02.677267	LOG	PUSH_DATA: Protocol version = 02, Token = 99d8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2214980751, 'time': '2023-11-27T11:43:46.802577Z', 'tmms': 1385120645803, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3370, 'rssi': - 51, 'size': 20, 'data': 'QAAAAACAqAkCKrWjpTcIOiwj+N8='}]}
0:25:02.679234	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09a8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2c23f8df)
0:25:02.680233	LOG	Server <-------------------- DUT
0:25:02.682233	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 065f, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 74d45465)
0:25:02.684285	LOG	Frame command sent to the DUT
0:25:02.685268	LOG	PULL_RESP: Protocol version = 02, Token = 0aa4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2216980751, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True,

		'size': 255, 'data': 'YAAAAAAAXwbgf9gh/9RoBRWT3ihhC8/lwi+EW8hbaCBGzmoRSU1FAtYZS5FGRvmNLA+UjywFAgredrLIk6sy3qb7CqsShvC1tSr3C+OIonggYp39u78+3uONx6Zvk2MsHmWw7aqUXcKziuHLDWwRa0OUATVDsEZ6EbTQXhCCYy1JGn/wvrZ73mzK93GgQ/4DMBHHcwFva/CXqTE5r2V1M+v8ZVWOH7B7PufJiZL6G+94kwwJjKmv4u1RS6fNsSC26FkbEeBzmmaQakr/vZ7g0ySrV8RhpwgMVbYPFdruLDHSNFJtzC09gNpJFGbGBWLh/BJQ25DZEz/FUoN01FRl'}}
0:25:02.687272	LOG	Server -------------------> DUT
0:25:02.690234	LOG	Send Test Command TxFramesCtrlReq process completed
0:25:02.693232	LOG	Send Test Command TxFramesCtrlReq process starts
0:25:04.789428	LOG	GPS Time updated: 1385120648022
0:25:04.791395	LOG	PULL_DATA: 02 40cb 02 0016c001ff1025bf
0:25:04.792397	LOG	PULL_ACK: 02 40cb 04
0:25:07.570183	LOG	First uplink received. Open reception window.
0:25:07.683576	LOG	PUSH_ACK: 02 0f59 01
0:25:07.685577	LOG	GPS Time from gateway: 1385120650802
0:25:07.686607	LOG	PUSH_DATA: Protocol version = 02, Token = 0f59, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2219980495, 'time': '2023-11-27T11:43:51.802320Z', 'tmms': 1385120650802, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAqQkCMXfovy+89sahuMI='}]}
0:25:07.688611	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09a9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c6a1b8c2)
0:25:07.689612	LOG	Server <-------------------- DUT
0:25:07.691579	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0660, FOpts:), FPort: e0, FRMPayload: 070001), MIC: e079d129)
0:25:07.693579	LOG	Frame command sent to the DUT
0:25:07.694615	LOG	PULL_RESP: Protocol version = 02, Token = 1584, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2221980495, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAYAbgaFPczLT3WLPTzBLkGgdevRePWyGsTZ0Bsyj6IcDgj7pwwPq2orllrbeHqIPCaaSmoezzUqdTEXxOHWmwqOE77Sn3JLS6QvFuiRzsd039XWbZDyJ/Vyhf3sVM/mjNlRxAOZBB908kJTmQ7422CRlux4vreZLFLky2ss4RUeRSWbyHsW60M+fTvOnjZkznan5m3m6T++Vp6e4Xq5gLbViJPAaFVSAI5d66GZkXp2xKLviyUzrrpwAqw2Ik93MlglRml7Y2L6KhuO9xKjUfmYu1LAVc+oGC/4X8MqVdrjgnW+/J29V7u++DlkFfYxOGdhfW02/gedEp'}}
0:25:07.695611	LOG	Server -------------------> DUT
0:25:07.698602	LOG	Send Test Command TxFramesCtrlReq process completed
0:25:07.702579	LOG	Send Test Command TxFramesCtrlReq process starts
0:25:12.572167	LOG	First uplink received. Open reception window.
0:25:12.680428	LOG	PUSH_ACK: 02 5c51 01
0:25:12.682430	LOG	GPS Time from gateway: 1385120655802
0:25:12.683431	LOG	PUSH_DATA: Protocol version = 02, Token = 5c51, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2224980258, 'time': '2023-11-27T11:43:56.802081Z', 'tmms': 1385120655802, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAqgkCGnAs1IiEYipRVz8='}]}

0:25:12.685397	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09aa, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2a51573f)
0:25:12.686396	LOG	Server <-------------------- DUT
0:25:12.688397	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0661, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: a317bf7d)
0:25:12.690430	LOG	Frame command sent to the DUT
0:25:12.691429	LOG	PULL_RESP: Protocol version = 02, Token = cca4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2226980258, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAYQbgTnCO1f34DlxUfo/5wEk4YQ4MntCxDzntwdvnTEhKAZqyk mZxLVJcXT3RCaogwLmKJhBZ93P8uTAwWQEYR/8mAFP37ctOQtyiLY50qxqf 8OkQOpx0U1V0qteDSeZmLVRaxRyjjGMbIGNt0jy/Om1Cgsg2g5bxqxzNVsQTB M2kVqxnBtgZJCD2C7904Sc1gpRmY6cmXrwYSwWp0armQxuV/YtnsTVtbRW DGYNbJD0TOV2lNdMWTgcTJt0jKQ7BGlyi+wJJWxtKszExi9lQtpLyx7iTNffnH JxowA2XmqY0WJ+M7OFIQnP6zjREdxu3pPDFa+ajF799'}}
0:25:12.693433	LOG	Server --------------------> DUT
0:25:12.696430	LOG	Send Test Command TxFramesCtrlReq process completed
0:25:12.700396	LOG	Send Test Command TxFramesCtrlReq process starts
0:25:14.799977	LOG	GPS Time updated: 1385120658029
0:25:14.801944	LOG	PULL_DATA: 02 d28e 02 0016c001ff1025bf
0:25:14.802946	LOG	PULL_ACK: 02 d28e 04
0:25:17.573003	LOG	First uplink received. Open reception window.
0:25:17.676932	LOG	PUSH_ACK: 02 c7bf 01
0:25:17.678932	LOG	GPS Time from gateway: 1385120660802
0:25:17.679933	LOG	PUSH_DATA: Protocol version = 02, Token = c7bf, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2229980011, 'time': '2023-11-27T11:44:01.801835Z', 'tmms': 1385120660802, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAqwkC7eoAt+kK82j3YPo='}]}
0:25:17.681933	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09ab, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 68f760fa)
0:25:17.682899	LOG	Server <-------------------- DUT
0:25:17.684903	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0662, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 6ee8792a)
0:25:17.686943	LOG	Frame command sent to the DUT
0:25:17.687932	LOG	PULL_RESP: Protocol version = 02, Token = ef1b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2231980011, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAYgbgoW/PcTwYl9d46flSdcICaltF1yqZjy2hz62uPsGpNFfsTVk8Em

		CXUR9CoJ/OTy/1UUxAG1Stae+BOa6GJqJpV+5bgU/W8cfa0XD/XY8AzCO7UGhlrlrlPwqbMb9OyOngSeOHHl7zg5qMrEElWZGDsfytr2QTnMdnMTiWu4KeLZf6FFHY++4gb0AR9MSBvQbEpLWaHAvLx5/O1nuKqfka8cGSaGngzZIgmEp1aWIAVo7wMCs3Kc879r65JfeAMM6Id1z5ZZlSVkeJPgGYEUyha3cfI3mKN01GO/q/mjA1CLbAjEpaYZlDBs8lBkGj5gYHEp5u6Hkq'}}
0:25:17.689933	LOG	Server --------------------> DUT
0:25:17.691935	LOG	Send Test Command TxFramesCtrlReq process completed
0:25:17.695901	LOG	Send Test Command TxFramesCtrlReq process starts
0:25:22.571681	LOG	First uplink received. Open reception window.
0:25:22.676820	LOG	PUSH_ACK: 02 98cf 01
0:25:22.678787	LOG	GPS Time from gateway: 1385120665802
0:25:22.679821	LOG	PUSH_DATA: Protocol version = 02, Token = 98cf, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2234979750, 'time': '2023-11-27T11:44:06.801573Z', 'tmms': 1385120665802, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACArAkCwgogG1Mt4I45R6Y='}]}
0:25:22.681788	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09ac, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8e3947a6)
0:25:22.682819	LOG	Server <-------------------- DUT
0:25:22.684794	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0663, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 1a4b8fa4)
0:25:22.686823	LOG	Frame command sent to the DUT
0:25:22.687819	LOG	PULL_RESP: Protocol version = 02, Token = 0692, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2236979750, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAYwbg4jUzx9GOa9oCQgGr10m/u1oNXzOzQLU8TvrFR8nSh/4yos/j0kjYRhezgegLvUCF/GhxzOs9avdk9g0zgT/9/HAbHd5LwrQgWtWgrTBE9OPRvOs7wJRHdGYd8yFydsf7KCpO63Vsiee5yAJ1OWchR3zCqC1tippF/2Q5XutCVWb7bAcC+IvXAz/trExG3TOTVaY2hd9U44MKvSjvR8iVP3f7egF8gCaZXYkruUwm8jwFrs+K1KhS68EbiaMSUoz6Q7qQLJDvieIC+8ez7ExJxgYVhy9YcNMj4YjG88bINHPJskfbXEOgkLSeOJ3CicrRKscaS4+k'}}
0:25:22.688819	LOG	Server --------------------> DUT
0:25:22.691788	LOG	Send Test Command TxFramesCtrlReq process completed
0:25:22.695791	LOG	Send Test Command TxFramesCtrlReq process starts
0:25:24.999510	LOG	GPS Time updated: 1385120668230
0:25:25.001510	LOG	PULL_DATA: 02 2191 02 0016c001ff1025bf
0:25:25.002511	LOG	PULL_ACK: 02 2191 04
0:25:27.570239	LOG	First uplink received. Open reception window.
0:25:27.673031	LOG	PUSH_ACK: 02 0411 01
0:25:27.674999	LOG	GPS Time from gateway: 1385120670801
0:25:27.675998	LOG	PUSH_DATA: Protocol version = 02, Token = 0411, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2239979520, 'time': '2023-11-27T11:44:11.801342Z', 'tmms': 1385120670801, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACArQkCMGMaFzN+rsgJ+Gc='}]}
0:25:27.678015	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09ad, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c809f867)
0:25:27.678998	LOG	Server <-------------------- DUT

0:25:27.680999	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0664, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: ae869532)
0:25:27.682999	LOG	Frame command sent to the DUT
0:25:27.683999	LOG	PULL_RESP: Protocol version = 02, Token = e957, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2241979520, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAZAbgVb/vFjYgbxSJvZegKO1NdqE7tcmyTk3uuvEDyRRbeWoXhn HKbJClRMO4gBRAvsLoxImJArgn2jYQ+VMDs2Qf+dmTCmAFED9PVhv1Fj4B af0HfmkxxFBvV2CpZY+91cZKL6oGTHA80tlFADvCaIX6JTsvSLz0w0SsUD41a bKljAJsTCME8No46DGHTXwdfQ7otSxzH51RwXUiCyYJTmM3N3taYQDPCQq L49egEvP8IVqwdSyLwyjfhG9cywASdazjOHk3ci1PWkobl20PReAOGwrPQCdoI zcW8FOtHZ5yP0icNarfH51/xcI1HorXlLpd2aGuhpUy'}}
0:25:27.684998	LOG	Server --------------------> DUT
0:25:27.688004	LOG	Send Test Command TxFramesCtrlReq process completed
0:25:27.691998	LOG	Send Test Command TxFramesCtrlReq process starts
0:25:32.568301	LOG	First uplink received. Open reception window.
0:25:32.673765	LOG	PUSH_ACK: 02 fb02 01
0:25:32.675766	LOG	GPS Time from gateway: 1385120675801
0:25:32.676746	LOG	PUSH_DATA: Protocol version = 02, Token = fb02, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2244979291, 'time': '2023-11-27T11:44:16.801112Z', 'tmms': 1385120675801, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACArgkCMx4Wpni1mNONmKY='}]}
0:25:32.678733	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09ae, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d38d98a6)
0:25:32.679767	LOG	Server <-------------------- DUT
0:25:32.681734	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0665, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 213547b8)
0:25:32.683763	LOG	Frame command sent to the DUT
0:25:32.684768	LOG	PULL_RESP: Protocol version = 02, Token = 4e5b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2246979291, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAZQbgwM9umFB2J5fx44o4uvAsbVLEVFNXhQPH53n+487T/qAB8 ECSsbx91kJjekbRXNDkmehVW802r2VVJ8ZxWFK62As6ntFuOIDC2mCVPB7tF tR60+PLXU4E5/BKQNzEbbG9zusQzq4YS7x7rEh4O0ITE/t1ACmY7mNpIANuQ 6PY0Y81F6wEKjn4FLvhumIMVpbyzo41f9a9GlgORF0QSyD3NBHjTzTBLaBcW RHS2ip+MzwLLZK2JSrA9toiwDRh4+G5gemYAOdIrJigIaYkGB/+1NEXjPTOl34 5VWU6+uRqgm+uSo9eaeYbLECOyWgYXzZqvmQhNUe4'}}
0:25:32.685766	LOG	Server --------------------> DUT
0:25:32.688733	LOG	Send Test Command TxFramesCtrlReq process completed

0:25:32.692733	LOG	Send Test Command TxFramesCtrlReq process starts
0:25:35.199678	LOG	GPS Time updated: 1385120678433
0:25:35.201646	LOG	PULL_DATA: 02 5cb6 02 0016c001ff1025bf
0:25:35.202646	LOG	PULL_ACK: 02 5cb6 04
0:25:37.566072	LOG	First uplink received. Open reception window.
0:25:37.679749	LOG	PUSH_ACK: 02 3994 01
0:25:37.681783	LOG	GPS Time from gateway: 1385120680801
0:25:37.682785	LOG	PUSH_DATA: Protocol version = 02, Token = 3994, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2249979062, 'time': '2023-11-27T11:44:21.800881Z', 'tmms': 1385120680801, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACArwkCvuv95/v5nXOJWfM='}]}
0:25:37.684757	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09af, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 738959f3)
0:25:37.685751	LOG	Server <-------------------- DUT
0:25:37.687785	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0666, FOpts:), FPort: e0, FRMPayload: 070001), MIC: b33c9f94)
0:25:37.689802	LOG	Frame command sent to the DUT
0:25:37.690787	LOG	PULL_RESP: Protocol version = 02, Token = f76b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2251979062, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAZgbgi/S7qY2XB5EzUNP1wrQgWGkzEVGRn8ronlf82YBbDiX7jPNgtn/FtB+4fxotB1k09ceDPAMx2Nlx4Prjn90x1d/AAPkMgGHTG5KZJcVbHlwBWJpuR/cvqwKEr6avHnAd5/2/shlvYw2lwvOGbxUUO6XqJjnDlz9pH0itcdU/LuCoG/0dKFXhd0HaGScH58LVwS84QdhbL3eMLP7t+491jo3JT7vQhFvZteo0q+mVQ4rtmkqsjvGM0WVAdsMGzOmplVSUZeZnNC3RiHAUXoyg4vQfJvBZc8FkIdr0uTtf5L1ZkF4AOoNIref4r53CJa2FuZizPJ+U'}}
0:25:37.691783	LOG	Server --------------------> DUT
0:25:37.694783	LOG	Send Test Command TxFramesCtrlReq process completed
0:25:37.698782	LOG	Send Test Command TxFramesCtrlReq process starts
0:25:42.566840	LOG	First uplink received. Open reception window.
0:25:42.678538	LOG	PUSH_ACK: 02 d423 01
0:25:42.680538	LOG	GPS Time from gateway: 1385120685801
0:25:42.681540	LOG	PUSH_DATA: Protocol version = 02, Token = d423, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2254978830, 'time': '2023-11-27T11:44:26.800650Z', 'tmms': 1385120685801, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3377, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAsAkCOAyxYiL/YJM3s7w='}]}
0:25:42.682539	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09b0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9337b3bc)
0:25:42.684539	LOG	Server <-------------------- DUT
0:25:42.686540	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0667, FOpts:), FPort: e0, FRMPayload: 0700010

		1010101010101010101010101010101010101010101010101010101010101010 0101010101010101010101010101010101010101010101010101010101010101 101010101010101), MIC: 4eca138e)
0:25:42.688538	LOG	Frame command sent to the DUT
0:25:42.689538	LOG	PULL_RESP: Protocol version = 02, Token = c1f8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2256978830, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAZwbgyx3FgXmDQFuAa6NCGFYY/0nspQ+wFVS+IxQhW2/21kLA3uvEdyMWnco3/PE+dz6yHFQIOMuUS9UjYnBjLjSl9WuHz0jjvwW8D9geBLHDQTb60W/zJkuDRNbRFmBLIsJhgdgJYwmEhyRhPvkIIkNBO4EdqesU9bYWajvLM8p82jWUr5/rS8KpVqhrxKVvdxUDLBKDBsOqqPrLAqx+Qzd/8KftV5Rtn/DkZRrx610puQAS3Xg6jCH7jk/B50kJREPFo8lRxHFamq1afDBPCzK3iELMK7AJQRD5aMYnHLo/GuoIW18kSyHz9okc6J4Ks6AKvmBOyhOO'}}
0:25:42.690540	LOG	Server --------------------> DUT
0:25:42.693539	LOG	Send Test Command TxFramesCtrlReq process completed
0:25:42.697538	LOG	Send Test Command TxFramesCtrlReq process starts
0:25:45.209761	LOG	GPS Time updated: 1385120688445
0:25:45.210762	LOG	PULL_DATA: 02 8169 02 0016c001ff1025bf
0:25:45.212728	LOG	PULL_ACK: 02 8169 04
0:25:47.569182	LOG	First uplink received. Open reception window.
0:25:47.685280	LOG	PUSH_ACK: 02 f01a 01
0:25:47.687248	LOG	GPS Time from gateway: 1385120690800
0:25:47.688250	LOG	PUSH_DATA: Protocol version = 02, Token = f01a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2259978598, 'time': '2023-11-27T11:44:31.800417Z', 'tmms': 1385120690800, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAsQkCPFA43in4f/fJYmc='}]}
0:25:47.690249	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09b1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f7c96267)
0:25:47.691246	LOG	Server <-------------------- DUT
0:25:47.693247	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0668, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010 0101010101010101010101010101010101010101010101010101010101010101 1010101010101010101010101010101010101010101010101010101010101010 0101010101010101010101010101010101010101010101010101010101010101 1010101010101010101010101010101010101010101010101010101010101010 0101010101010101010101010101010101010101010101010101010101010101 101010101010101), MIC: dcd858bb)
0:25:47.695281	LOG	Frame command sent to the DUT
0:25:47.696285	LOG	PULL_RESP: Protocol version = 02, Token = 5d84, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2261978598, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAaAbgBWEjM/cT6JiSDE76uG4wbUAMtL/P8gWhnfGf3EVsk50zbEmGOpe/P/NSzvR5c/ctYi73TPriO/TEFUMKNiQt1CDRzZ0vb86CZeSgqgppya28kjXypgmpcV0sV9Z78sbYXMYwZrQeiSqairxIdEe4+ZjKJ5OXUIG/7LlkogN10WXJgsIsMAEkjyv8MqNDMGRrWNrzGW5/KuDGBSBrJNMFpslya/gE+Tj69fxOcxPqcdCFGYHJSc16f2V3ddn/sxexZGatslA+/sV4FWn8ipwbeiAeJcAzPbYOgn+3axF4NYAQQLbGEY6BUZYkebKJBLse/jvc2Fi7'}}
0:25:47.697279	LOG	Server --------------------> DUT
0:25:47.700253	LOG	Send Test Command TxFramesCtrlReq process completed
0:25:47.704277	LOG	Send Test Command TxFramesCtrlReq process starts
0:25:52.561630	LOG	First uplink received. Open reception window.
0:25:52.670498	LOG	PUSH_ACK: 02 4231 01

0:25:52.672464	LOG	GPS Time from gateway: 1385120695800
0:25:52.673463	LOG	PUSH_DATA: Protocol version = 02, Token = 4231, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2264978339, 'time': '2023-11-27T11:44:36.800157Z', 'tmms': 1385120695800, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3377, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAsgkC5aNf9XIZwY2m078='}]}
0:25:52.675463	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09b2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8da6d3bf)
0:25:52.676463	LOG	Server <-------------------- DUT
0:25:52.678464	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0669, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101 1010101010101010101010101010101010101010101010101010101010101010 0101010101010101010101010101010101010101010101010101010101010101 1010101010101010101010101010101010101010101010101010101010101010 0101010101010101010101010101010101010101010101010101010101010101 1010101010101010101010101010101010101010101010101010101010101010 0101010101010101010101010101010101010101010101010101010101010101 101010101010101), MIC: 7f77882d)
0:25:52.680464	LOG	Frame command sent to the DUT
0:25:52.681463	LOG	PULL_RESP: Protocol version = 02, Token = ba15, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2266978339, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAaQbgYVwaXeNJkEXWLourTgpFRuSjgNfC0frJ+VH1wGNt4K+eWWX3gVLppiS4fCXN0OqHcS2KIqulaVTYUR/ygwEgJMavYuw9JmJsok8Eh+S+qliVGgO6x1rwT+4MYZ7C4bIYA5OWm2+Ah/r0cCe6Nq74vmW16RydeCcaoW4W250Mi/XIeE8idt1HXTUq8WrjwMV9escoE9+ktq9ZnIetNBZrpznaQVKr5u2xPiD00SdYg3h6CiQvxgfC1w/zEakIj6YhrSbJXbSeDocVeL/7osvnC5RXWWJdkBd0/763m+OQBYu9IVS6OybvGMs34/PN/baXbPZ/d4gt'}}
0:25:52.682463	LOG	Server --------------------> DUT
0:25:52.685464	LOG	Send Test Command TxFramesCtrlReq process completed
0:25:52.689466	LOG	Send Test Command TxFramesCtrlReq process starts
0:25:55.409224	LOG	GPS Time updated: 1385120698648
0:25:55.410256	LOG	PULL_DATA: 02 e551 02 0016c001ff1025bf
0:25:55.412261	LOG	PULL_ACK: 02 e551 04
0:25:57.567771	LOG	First uplink received. Open reception window.
0:25:57.674450	LOG	PUSH_ACK: 02 a25c 01
0:25:57.676700	LOG	GPS Time from gateway: 1385120700800
0:25:57.678989	LOG	PUSH_DATA: Protocol version = 02, Token = a25c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2269978093, 'time': '2023-11-27T11:44:41.799910Z', 'tmms': 1385120700800, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAswkC0Sfd4sPYUbkEtp0='}]}
0:25:57.680096	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09b3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b904b69d)
0:25:57.681781	LOG	Server <-------------------- DUT
0:25:57.683964	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 066a, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101 1010101010101010101010101010101010101010101010101010101010101010 0101010101010101010101010101010101010101010101010101010101010101 1010101010101010101010101010101010101010101010101010101010101010 0101010101010101010101010101010101010101010101010101010101010101 1010101010101010101010101010101010101010101010101010101010101010 0101010101010101010101010101010101010101010101010101010101010101 101010101010101), MIC: 53a7c091)

0:25:57.685670	LOG	Frame command sent to the DUT
0:25:57.686774	LOG	PULL_RESP: Protocol version = 02, Token = da05, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2271978093, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAagbgTp2hJj9lsdtY0C7PZiXx2RK6PaYt3/wisI4tuy6jLdNmrWxHltKrpRvg5a9C9+z5NB22W5vz1gMPNB5Sudw5aLv+52yTX16CYVDnHh6c3XXvnsQo2+VJeTFppNutaZaAkmK0WFHOA2UDUC1pQpxSdBuB25eJhiJSaC7aR8fd4Z+VaAgvdQ/ukM8b6I3JuNS7oXpqVlL7rspUWH/6tXbUzk9nbCltncvhxmcO7oxgpaA05BrNyjmZDnaxl3XR/WmPhfRfYPBtTo9+2B9+6Lzjk8Z2LcFwShkYLDKDV+bzQBZzwF0DCN6HG3hqzuZDP0PWy6JTp8CR'}}
0:25:57.687826	LOG	Server --------------------> DUT
0:25:57.690829	LOG	Send Test Command TxFramesCtrlReq process completed
0:25:57.694828	LOG	Send Test Command TxFramesCtrlReq process starts
0:26:02.562091	LOG	First uplink received. Open reception window.
0:26:02.671323	LOG	PUSH_ACK: 02 d069 01
0:26:02.673289	LOG	GPS Time from gateway: 1385120705800
0:26:02.674289	LOG	PUSH_DATA: Protocol version = 02, Token = d069, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2274977824, 'time': '2023-11-27T11:44:46.799639Z', 'tmms': 1385120705800, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3377, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAtAkCU9k6eiFGQr3V4uc='}]}
0:26:02.675794	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09b4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: bdd5e2e7)
0:26:02.677799	LOG	Server <-------------------- DUT
0:26:02.679800	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 066b, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 55a2a9b4)
0:26:02.680798	LOG	Frame command sent to the DUT
0:26:02.682799	LOG	PULL_RESP: Protocol version = 02, Token = 195a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2276977824, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAawbg7t1qINd7+zD0wqqZvsTidA9pI0/qG8iRylYM4AgP6dB3y47iXpuelED2baF6q7dpYt9GajDIcmC/YXrwjfs9hctGmseNB5gBvrsQVaA/D8+Nrm14vaESliqB8VyjKUnXMLvjS6/I49Q9B+Y+u8zumAzdHz1IXDIQmXEkPBxuJpS6nQEW6ppsDC2uAppUsXiFzO1RZxx+FX5QMMoyXSu14erEb2AM9WShjQ9laoxdy22pmed/n7wOyW4phGGZr68vg9B3K7TQ7kbHgSrx/dXJE26kKZO9ASH+YyYYZTyyX88zVoScIRZnHc0NNlepy4avoFNVoqm0'}}
0:26:02.683799	LOG	Server --------------------> DUT
0:26:02.686799	LOG	Send Test Command TxFramesCtrlReq process completed
0:26:02.690800	LOG	Send Test Command TxFramesCtrlReq process starts
0:26:05.618924	LOG	GPS Time updated: 1385120708856
0:26:05.619924	LOG	PULL_DATA: 02 1c68 02 0016c001ff1025bf
0:26:05.621926	LOG	PULL_ACK: 02 1c68 04
0:26:07.570117	LOG	First uplink received. Open reception window.
0:26:07.676679	LOG	PUSH_ACK: 02 383d 01
0:26:07.678648	LOG	GPS Time from gateway: 1385120710799
0:26:07.680154	LOG	PUSH_DATA: Protocol version = 02, Token = 383d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2279977601, 'time': '2023-11-27T11:44:51.799417Z',

		'tmms': 1385120710799, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAtQkCll6qBAjRM/VtCSk='}]}
0:26:07.681160	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09b5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f56d0929)
0:26:07.683160	LOG	Server <-------------------- DUT
0:26:07.685159	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 066c, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 14607de9)
0:26:07.686159	LOG	Frame command sent to the DUT
0:26:07.688160	LOG	PULL_RESP: Protocol version = 02, Token = 61f6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2281977601, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAbAbg4KYfaAN5/TpJbM1ZMBfFBZ5n2Oxr7/LkqAhDqstcst4qBrsROmS/Zw0SPOinALBzn20qLgwuXBOvsnroK/SsMCnfzkW0tpR+JF8s5VOgba7oQE/eEeZFDdTcXHMGq1KU5PVy5FPvqjGnJYmaqqZXMqfMEsWolGKpj1lHfZHXg9AtKF1L7UFPwqQbBoxD34ZFT4okQ2rc0VjGNn1pSOtlyBvL3LkiF8FSol0r75awTgrPrd/VoZOMvRPOvDscSXgqwRLZB0O+a4dCKewT1OYs3p00jwam1qGGEsq5PTjNTjNZ3jP41UMC89RqgxJBaHHapP8UYH3p'}}
0:26:07.689160	LOG	Server --------------------> DUT
0:26:07.692161	LOG	Send Test Command TxFramesCtrlReq process completed
0:26:07.695193	LOG	Send Test Command TxFramesCtrlReq process starts
0:26:12.562626	LOG	First uplink received. Open reception window.
0:26:12.677647	LOG	PUSH_ACK: 02 f9f9 01
0:26:12.679643	LOG	GPS Time from gateway: 1385120715799
0:26:12.680644	LOG	PUSH_DATA: Protocol version = 02, Token = f9f9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2284977342, 'time': '2023-11-27T11:44:56.799157Z', 'tmms': 1385120715799, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAtgkCpyhdCbygT6YlEA4='}]}
0:26:12.682613	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09b6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a625100e)
0:26:12.683643	LOG	Server <-------------------- DUT
0:26:12.685643	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 066d, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 3ec856ee)
0:26:12.687829	LOG	Frame command sent to the DUT
0:26:12.688839	LOG	PULL_RESP: Protocol version = 02, Token = 3ea1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2286977342, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAbQbgWgP5RYqn9YZcXNu1tcf3XIk/1HxSb9ALnPdSlsY5D7tISApqVWuE5Yd9MHocN9OSrnEhQ6Ak12kgKfA7fQECzJ/13i7ADqg1sSU6Ou94LuV

		DbN6psxxI2A2tZggjsBgPll9m7OTrqjrzI7K7ycI1hO8yC/mez1327ZS2PqCUkmhr YaAvamJbWWUNeF7fHSmUHON/wh+/Q8eno/wxQDDP4OGYXOGOclWqxng WIZJ+8iCG7qSjPWxF7IJKKJn0MbqVk2mgBD7GHoLgUcGncgzUGwr4k4DlO/X SgcNhUOzwTrGtj/2kIJGvj+obnayeiPVeT+M+yFbu'}}
0:26:12.689834	LOG	Server --------------------> DUT
0:26:12.692802	LOG	Send Test Command TxFramesCtrlReq process completed
0:26:12.695834	LOG	Send Test Command TxFramesCtrlReq process starts
0:26:15.639390	LOG	GPS Time updated: 1385120718877
0:26:15.641358	LOG	PULL_DATA: 02 eafd 02 0016c001ff1025bf
0:26:15.642359	LOG	PULL_ACK: 02 eafd 04
0:26:17.567719	LOG	First uplink received. Open reception window.
0:26:17.680993	LOG	PUSH_ACK: 02 0be5 01
0:26:17.682993	LOG	GPS Time from gateway: 1385120720799
0:26:17.683995	LOG	PUSH_DATA: Protocol version = 02, Token = 0be5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2289977080, 'time': '2023-11-27T11:45:01.798894Z', 'tmms': 1385120720799, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAtwkCjOiFOJkkrF6hdLM='}]}
0:26:17.684994	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09b7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5ea174b3)
0:26:17.686960	LOG	Server <-------------------- DUT
0:26:17.688961	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 066e, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 08dd7759)
0:26:17.689960	LOG	Frame command sent to the DUT
0:26:17.691463	LOG	PULL_RESP: Protocol version = 02, Token = e8b0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2291977080, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAbgbg/V1Hy058yH4SramQ9NLYKvJfgbzJ0PJsdoCegp6KXXJ5ZDz Nxm0WU3Jdl0Es7a88javUMpz7FPBJzfR9q77k5l+SK22fuxhngn+pybfwB3zXkPp o7fTQxLjP3K6Xas2/Mt9+gkwaEMI5SaMbNSULJpy5diqYydLcuzKahUIqL7cCfE 3NIIViJw3BHE0kdczvMNjDYsjifkQtqeXKXc1u3J+wlcgmPHjqJCgSfsC+rbevXX odrW87E2KTkpnC+Hhk0LEIStafO1/LSHrLf6FLOq/w2iML+382bJyeRUyQkeaCi xUV1kNkZIYiUDjDIGFETREI3XdZ'}}
0:26:17.693466	LOG	Server --------------------> DUT
0:26:17.695466	LOG	Send Test Command TxFramesCtrlReq process completed
0:26:17.699470	LOG	Send Test Command TxFramesCtrlReq process starts
0:26:22.565467	LOG	First uplink received. Open reception window.
0:26:22.676601	LOG	PUSH_ACK: 02 0067 01
0:26:22.678569	LOG	GPS Time from gateway: 1385120725799
0:26:22.679568	LOG	PUSH_DATA: Protocol version = 02, Token = 0067, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2294976851, 'time': '2023-11-27T11:45:06.798664Z', 'tmms': 1385120725799, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3369, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAuAkCuodb0I6eOjsBhpw='}]}
0:26:22.681569	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09b8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3b01869c)
0:26:22.682578	LOG	Server <-------------------- DUT

0:26:22.684574	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 066f, FOpts:), FPort: e0, FRMPayload: 070001), MIC: cac407e9)
0:26:22.686574	LOG	Frame command sent to the DUT
0:26:22.687573	LOG	PULL_RESP: Protocol version = 02, Token = f6f4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2296976851, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAbwbgaXodsGuPxEbOj9tpaTz7YzKAQ5WI8BOuVCuw/ZDuD5+rylDhHmcM8qTTZilOT5nLbKe63PZZxtbYKQ2N6hLSbqwSZk39FpH1KM7m37TjGdxh1jA9/nkPdmSpsMeuHp42bAvHr4N1RQ1vfBIy60VpthqQwnqEXEZZ76MSfyRD12AC2copuIzje8hE8j2sATqPgMIUFjWimit6e/0xzl1/zEludIgxEoycxbpRvLPt6mWgvInJ5SrrSEnfaS/EYQktwL3kd8lcmUCWv+e/5cOIlL4DJRtqTPlnT2hwOlEoPPZ8AdP01mjzUY5CWNK9xIFc4ObKxAfp'}}
0:26:22.689573	LOG	Server --------------------> DUT
0:26:22.692575	LOG	Send Test Command TxFramesCtrlReq process completed
0:26:22.695574	LOG	Send Test Command TxFramesCtrlReq process starts
0:26:25.838825	LOG	GPS Time updated: 1385120729072
0:26:25.840535	LOG	PULL_DATA: 02 fc70 02 0016c001ff1025bf
0:26:25.842259	LOG	PULL_ACK: 02 fc70 04
0:26:27.569559	LOG	First uplink received. Open reception window.
0:26:27.671363	LOG	PUSH_ACK: 02 5c7d 01
0:26:27.673361	LOG	GPS Time from gateway: 1385120730798
0:26:27.675352	LOG	PUSH_DATA: Protocol version = 02, Token = 5c7d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2299976621, 'time': '2023-11-27T11:45:11.798432Z', 'tmms': 1385120730798, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAuQkCVOZ1MIREoQStD90='}]}
0:26:27.676332	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09b9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 04ad0fdd)
0:26:27.677330	LOG	Server <-------------------- DUT
0:26:27.679383	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0670, FOpts:), FPort: e0, FRMPayload: 070001), MIC: c55cf47f)
0:26:27.681363	LOG	Frame command sent to the DUT
0:26:27.682363	LOG	PULL_RESP: Protocol version = 02, Token = fbad, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2301976621, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAcAbgFmheT6dyrCZOBXbXMez9rrno7cFtvMEQstD1e64H2d7NO8vrpsdm0lI9FWJw2K6dvmyUteKIwPzd9YKr3hOynMMmCEIkL6ZAVMFXWQgYkp12rp3eCNvWX1qjvGb3fFF7yUnByFuEyLRzk+s/sonUlsYEz/z6CxUPtY9gdhn80kSsQpI+ePle81wcTdIAEaw7B2/+FYt4T5S7pFFf2P5gq6O8eqbFwWuxNeRQo9

		0b1XwVgpPXuSfKMh84Hw8dCG6LKGbo5Id7qeckvxG7S387pIq7vK5xPMc2mukHqDU7dUBdIileBfyAGWebsnB/K0M4e0vFXPR/'}}
0:26:27.684369	LOG	Server --------------------> DUT
0:26:27.687344	LOG	Send Test Command TxFramesCtrlReq process completed
0:26:27.690377	LOG	Send Test Command TxFramesCtrlReq process starts
0:26:27.695349	LOG	TX_ACK: 02 fbad 05 0016c001ff1025bf
0:26:32.559266	LOG	First uplink received. Open reception window.
0:26:32.671395	LOG	PUSH_ACK: 02 d94c 01
0:26:32.673396	LOG	GPS Time from gateway: 1385120735798
0:26:32.674398	LOG	PUSH_DATA: Protocol version = 02, Token = d94c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2304976387, 'time': '2023-11-27T11:45:16.798199Z', 'tmms': 1385120735798, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAugkCL4+1TiN4nBbbh8I='}]}
0:26:32.676363	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09ba, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 16db87c2)
0:26:32.677363	LOG	Server <-------------------- DUT
0:26:32.679364	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0671, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 5c5668ee)
0:26:32.681396	LOG	Frame command sent to the DUT
0:26:32.682396	LOG	PULL_RESP: Protocol version = 02, Token = 7b5d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2306976387, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAcQbg6f2NGDVItBZNI5ci7wa0FYziXY0TrB/vORi4UnerHbdD9l2uK24pbCZY3WM/GUzygl6HZlp2SK5V5LujEkdLMOd7auqItxNHWYR2JvDyp4UQkyqADUIAhaDbA87TD9/xKHiaW2q47u3GnKQP74vKXAK8W//jRPVLUEdeo3VflOoJ1EHQ+SChOBVCaw4Afqd7txVVxySnnOKtFZdev/XHmlXDLWBND1FP3GoRE7x3dRvduLi6yhpmrpzgEs7IL1qiFcPDPe80CpJMDKbGISqpCpMNx7ERiPrcQJ+7cyPrYPHRqZjqcduRz5Wb3KJnsvd56ThcVmju'}}
0:26:32.684368	LOG	Server --------------------> DUT
0:26:32.687365	LOG	Send Test Command TxFramesCtrlReq process completed
0:26:32.690363	LOG	Send Test Command TxFramesCtrlReq process starts
0:26:32.695402	LOG	TX_ACK: 02 7b5d 05 0016c001ff1025bf
0:26:36.038582	LOG	GPS Time updated: 1385120739277
0:26:36.039581	LOG	PULL_DATA: 02 971b 02 0016c001ff1025bf
0:26:36.042109	LOG	PULL_ACK: 02 971b 04
0:26:37.560952	LOG	First uplink received. Open reception window.
0:26:37.662804	LOG	PUSH_ACK: 02 7d7c 01
0:26:37.664772	LOG	GPS Time from gateway: 1385120740798
0:26:37.665771	LOG	PUSH_DATA: Protocol version = 02, Token = 7d7c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2309976136, 'time': '2023-11-27T11:45:21.797947Z', 'tmms': 1385120740798, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAuwkCikWOUiY19gF4OSQ='}]}
0:26:37.667772	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09bb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 01783924)
0:26:37.668772	LOG	Server <-------------------- DUT

0:26:37.670772	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0672, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: f065c3ba)
0:26:37.672772	LOG	Frame command sent to the DUT
0:26:37.673771	LOG	PULL_RESP: Protocol version = 02, Token = ddea, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2311976136, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAcgbgK1yaxjhKLmPvtB2E9YxoeyGBEgtiJCWc90voML96CiMkG8y WH/EDcWhl/DNueMhY973wO7MDRvereVV9otie3gH1Oh9hk66bHDr40PxTw0 Lbix8BeLJVm/NZ0RAq7FHyN+mU+ltjB3o/AnJUvTIRuUa2AFl0G7TrcbpRuFU2 afRky7/8zXKhwYPtemkvrAbUoAUZt0yn0Mh5wusF6XXfR9k76/6uAOrnVcQOlt Xfe/vqTfydOCY7+Vq0IEzrWNczTOpVrqPqYvR17hjKkq/zJfWbVjyqFbbh1PnEJ0 2zhYiF2DzHW/DHl6K/FGZzUq10tOPwZcO6'}}
0:26:37.674772	LOG	Server --------------------> DUT
0:26:37.677772	LOG	Send Test Command TxFramesCtrlReq process completed
0:26:37.681771	LOG	Send Test Command TxFramesCtrlReq process starts
0:26:42.559886	LOG	First uplink received. Open reception window.
0:26:42.660551	LOG	PUSH_ACK: 02 6c08 01
0:26:42.662535	LOG	GPS Time from gateway: 1385120745798
0:26:42.663558	LOG	PUSH_DATA: Protocol version = 02, Token = 6c08, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2314975872, 'time': '2023-11-27T11:45:26.797682Z', 'tmms': 1385120745798, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3377, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAvAkCf+ltGDYc31QbddY='}]}
0:26:42.665519	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09bc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 541b75d6)
0:26:42.666518	LOG	Server <-------------------- DUT
0:26:42.668531	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0673, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 67911286)
0:26:42.670517	LOG	Frame command sent to the DUT
0:26:42.671518	LOG	PULL_RESP: Protocol version = 02, Token = 917a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2316975872, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAcwbgP8YDg0E/weQzMDcXcd/o71NaUCdiBM143VtIzmVng9xx43 YMMnq5PCH9J3uXqYjWxPzSPvD+GN7RmvENVa8ySZY79y1vTxhhWgbYlK0 7K9sa/L/Dzz2ipaR9XNZvtyKtCrfF2GYBIuiXggjz+5gziglK1+HyfZKZVHOxQtu VXk2rRJjF4znDqMfO+zDMNfOgcuBpIlJw1wzkIfwh9I/aDZ6hIOVA9KrdtgoGV TOiJAhtYhOiAHpdGQ5bspOMJ1ipDhhtX+2+dOkI8nXVjNXyeAWII31jfFEcVR Agdci3qXRcYYPlkGTEMGhWHket2Blv625nkRKG'}}
0:26:42.673518	LOG	Server --------------------> DUT
0:26:42.676518	LOG	Send Test Command TxFramesCtrlReq process completed

0:26:42.679517	LOG	Send Test Command TxFramesCtrlReq process starts
0:26:46.239284	LOG	GPS Time updated: 1385120749478
0:26:46.240284	LOG	PULL_DATA: 02 bd0e 02 0016c001ff1025bf
0:26:46.242297	LOG	PULL_ACK: 02 bd0e 04
0:26:47.560077	LOG	First uplink received. Open reception window.
0:26:47.669486	LOG	PUSH_ACK: 02 648d 01
0:26:47.671488	LOG	GPS Time from gateway: 1385120750797
0:26:47.672454	LOG	PUSH_DATA: Protocol version = 02, Token = 648d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2319975647, 'time': '2023-11-27T11:45:31.797456Z', 'tmms': 1385120750797, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAvQkCUBOCyCzG/g9XhTg='}]}
0:26:47.674500	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09bd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0f578538)
0:26:47.675486	LOG	Server <-------------------- DUT
0:26:47.677455	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0674, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 09c90cba)
0:26:47.679487	LOG	Frame command sent to the DUT
0:26:47.680486	LOG	PULL_RESP: Protocol version = 02, Token = 10a1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2321975647, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAdAbgMzrOJ2un8KIZCgy6Un9UiJdmsqyNw5k2fBaw2ElJaZnJ1CZlJ+YexYTu2YQTKH+EV2vaK0vXlQBuqIDegvq0eJANmR1VLZgEtCsFSB8AfXTsk0HO/HSzIvaLnfYpPwPKVkBTHW78Ah/yzbBvFIh1DSy97izstDtw2BqptY1h8kPE+Pg0+CZVJmujHLbxgl13IOlVzZcF5JpnbhHSwZOplAKUfNrzBfrswgw1ilza5Pvo1DuQ/AlwuN4TauSXeHNpDC4yhhCkzwDTiCvsmqJVSTS9rP2k94t0nIRMqz1DdBm6mTYpgRC1yRdrtM9d2Z9CPQgJyQy6'}}
0:26:47.681488	LOG	Server --------------------> DUT
0:26:47.684455	LOG	Send Test Command TxFramesCtrlReq process completed
0:26:47.688454	LOG	Send Test Command TxFramesCtrlReq process starts
0:26:52.565788	LOG	First uplink received. Open reception window.
0:26:52.680454	LOG	PUSH_ACK: 02 7780 01
0:26:52.682422	LOG	GPS Time from gateway: 1385120755797
0:26:52.683422	LOG	PUSH_DATA: Protocol version = 02, Token = 7780, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2324975379, 'time': '2023-11-27T11:45:36.797188Z', 'tmms': 1385120755797, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAvgkCRyJ2AgtTDWobKIg='}]}
0:26:52.685423	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09be, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6a1b2888)
0:26:52.686423	LOG	Server <-------------------- DUT
0:26:52.688423	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0675, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010

		10101010101010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: b86737ab)
0:26:52.690422	LOG	Frame command sent to the DUT
0:26:52.691422	LOG	PULL_RESP: Protocol version = 02, Token = 87c2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2326975379, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAdQbgJEQQkPqXIUrJpxoHKaBkmF+IPIl1+AKu5uFOxOXVyxrI3QZee5K7QiIaAuJc697QCCe12+LghI/l4hTU5kZQaGLQDYS456FBnt2Ugc2EOnfAX3PysoMzJcPWdpnZMmbioXAAVZBE7csmXE3k4cXSH4qUs55Xvd1XYO4oERfq7bfzrrYlMTXclZyttVFLOmya3I5k5kaXPGZ94C4nzDoqCHeapPvuQWCikKRWjC462TWTPp9BomxGuYWjRMXREpVhgimGBzdrUuACBZgq7DanIQ9Vfo1W51DX3euh5EFTtFADf6yCDyjcBMli9iMHMNAQ1YK4Zzer'}}
0:26:52.693422	LOG	Server --------------------> DUT
0:26:52.695422	LOG	Send Test Command TxFramesCtrlReq process completed
0:26:52.699422	LOG	Send Test Command TxFramesCtrlReq process starts
0:26:52.704422	LOG	TX_ACK: 02 87c2 05 0016c001ff1025bf
0:26:55.523763	LOG	#***************************CURRENT BEACON SENT***************************#
0:26:55.524762	LOG	PULL_RESP: Protocol version = 02, Token = 3a4b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385120768000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAARI9SfLAAAAAAAAAAAAA='}}
0:26:55.527781	LOG	Server --------------------> DUT
0:26:55.529287	LOG	#**#
0:26:55.538324	LOG	#***************************NEXT BEACON QUEUED***************************#
0:26:55.539326	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385120896000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACARI9SRG0AAAAAAAAAAAA='}}
0:26:55.541294	LOG	Server --------------------> DUT
0:26:55.542292	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 80448f52, CRC1: 446d, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385120896000
0:26:55.543291	LOG	#**#
0:26:55.545293	LOG	Next BEACON scheduled at GPS time (ms): 1385121024000
0:26:55.546291	LOG	TX_ACK: 02 3a4b 05 0016c001ff1025bf
0:26:56.368581	LOG	GPS Time updated: 1385120759601
0:26:56.369581	LOG	PULL_DATA: 02 beef 02 0016c001ff1025bf
0:26:56.371584	LOG	PULL_ACK: 02 beef 04
0:26:57.564037	LOG	First uplink received. Open reception window.
0:26:57.672483	LOG	PUSH_ACK: 02 a9a8 01
0:26:57.674484	LOG	GPS Time from gateway: 1385120760797
0:26:57.675474	LOG	PUSH_DATA: Protocol version = 02, Token = a9a8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2329975125, 'time': '2023-11-27T11:45:41.796933Z', 'tmms': 1385120760797, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAvwkCnK6GEuWMQs8ILxs='}]}
0:26:57.677460	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09bf, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: cf082f1b)
0:26:57.678450	LOG	Server <-------------------- DUT
0:26:57.680484	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0676, FOpts:), FPort: e0, FRMPayload:

		070001), MIC: 71fedafc)
0:26:57.682483	LOG	Frame command sent to the DUT
0:26:57.683483	LOG	PULL_RESP: Protocol version = 02, Token = 0f5d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2331975125, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAdgbgvKmlLwWppFQBZxVktIZ/5g+NRpDcxlO/jl/teQg6yAOQtKwqbg1PUZ+oCPVlbCIh2MSiXkcPt8Ri9VqljIfYLEVq0r0DNVlETIsOUdCx9GFboME8Ohk33jG799w3ghntRwgd3kOhDo5VHYuDsKZ3tf7F1p3HB8F5NfdH1K7VUncGjarPV1JA7+UQOSqxrl7+ltxk4sEVdW4WZ9ak/SDQdqEqhadLe947f+ggDrhLxiYPjjISfpZcq0KO6fSWukPlc5eABNt7lqlaLPZVULjSzwRzqe5OEBjxae7MGTMM2paiQpNju3sIhteXNpzW68tuScZx/tr8'}}
0:26:57.684483	LOG	Server --------------------> DUT
0:26:57.688451	LOG	Send Test Command TxFramesCtrlReq process completed
0:26:57.691479	LOG	Send Test Command TxFramesCtrlReq process starts
0:26:57.696483	LOG	TX_ACK: 02 0f5d 05 0016c001ff1025bf
0:27:02.557770	LOG	First uplink received. Open reception window.
0:27:02.672579	LOG	PUSH_ACK: 02 ecb4 01
0:27:02.674579	LOG	GPS Time from gateway: 1385120765797
0:27:02.675579	LOG	PUSH_DATA: Protocol version = 02, Token = ecb4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2334974894, 'time': '2023-11-27T11:45:46.796701Z', 'tmms': 1385120765797, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAwAkCSSwPEJItTNjdb70='}]}
0:27:02.676579	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09c0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d8dd6fbd)
0:27:02.678579	LOG	Server <-------------------- DUT
0:27:02.680588	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0677, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 6e35d04a)
0:27:02.682578	LOG	Frame command sent to the DUT
0:27:02.683577	LOG	PULL_RESP: Protocol version = 02, Token = f4ea, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2336974894, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAdwbgvQw4cKAq22BlKY3aKqzXiYbIkonhsrorgSJGNBCIUmnP+XyQXfVqsEu+Zst4tvqTpUCdGJ8OQhD7x6d1thoTUN63baVsCPuYPLyPJ+NMZ5o1dwiWHPiEavnwhz51ca9+5pOnC92dyAe9LILr58WUSYhuPT4bKFHhXiCYgu3m2w9hO9faOBvR0Hlk8Gfjz8MFXjBuDtDGrtnnzSlWc2nP5u3LkWjDKyFfq8Fcnm3o3FPRCGVEUtgVRVLrUuJiDajAC9kv3xcSktGIQiGwakxrG9TCgLICAUa44+u/27KCu/ibpmjWn7E+F4+g3Od4/YwrevtuNdBK'}}
0:27:02.684578	LOG	Server --------------------> DUT
0:27:02.688587	LOG	Send Test Command TxFramesCtrlReq process completed
0:27:02.691577	LOG	Send Test Command TxFramesCtrlReq process starts

0:27:06.459038	LOG	GPS Time updated: 1385120769699
0:27:06.460039	LOG	PULL_DATA: 02 8dec 02 0016c001ff1025bf
0:27:06.462039	LOG	PULL_ACK: 02 8dec 04
0:27:07.561585	LOG	First uplink received. Open reception window.
0:27:07.671542	LOG	PUSH_ACK: 02 1b28 01
0:27:07.673509	LOG	GPS Time from gateway: 1385120770796
0:27:07.674508	LOG	PUSH_DATA: Protocol version = 02, Token = 1b28, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2339974676, 'time': '2023-11-27T11:45:51.796482Z', 'tmms': 1385120770796, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3377, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAwQkCzBRavM46MndA/yA='}]}
0:27:07.676509	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09c1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7740ff20)
0:27:07.677508	LOG	Server <-------------------- DUT
0:27:07.679509	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0678, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 81d05667)
0:27:07.681508	LOG	Frame command sent to the DUT
0:27:07.682508	LOG	PULL_RESP: Protocol version = 02, Token = e593, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2341974676, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAeAbgoJ88ClzT6RucI/hsPNZ0yklPtFRUhKXSoMuiaCfGamWev5J4JG/+R4siYpsFFBBc8TXKhLz1eLYoyAWYRBZ+DjjsdSmCDzu/ox7z204jM2C3HoIBmRNQqkHK5hhlMWETdHQZG5f8SgGZOAziWAO21xC+aiFIuvCa9FmR1llVECAPCI7LYK+ri/QQHSwrolX0nybCBOz6fujSUbrVNqVlPMpEsUGqCB7eeWlGFIEXfeB6f2NpU1LvfJwUioWHBVSmmv0Fd+pKba33SaHkDRvb8B7klwsUIyyOfELnN02IXH2I3jro8kTaAub45a+sMMStHC2B0FZn'}}
0:27:07.684509	LOG	Server --------------------> DUT
0:27:07.686508	LOG	Send Test Command TxFramesCtrlReq process completed
0:27:07.690539	LOG	Send Test Command TxFramesCtrlReq process starts
0:27:12.556690	LOG	First uplink received. Open reception window.
0:27:12.669589	LOG	PUSH_ACK: 02 2517 01
0:27:12.671589	LOG	GPS Time from gateway: 1385120775796
0:27:12.672592	LOG	PUSH_DATA: Protocol version = 02, Token = 2517, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2344974406, 'time': '2023-11-27T11:45:56.796211Z', 'tmms': 1385120775796, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAwgkClR6GO3VPwrFcCNk='}]}
0:27:12.674590	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09c2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b15c08d9)
0:27:12.675591	LOG	Server <-------------------- DUT
0:27:12.677590	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0679, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101

		01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 3dd0b404)
0:27:12.679588	LOG	Frame command sent to the DUT
0:27:12.680589	LOG	PULL_RESP: Protocol version = 02, Token = 06b5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2346974406, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAeQbgG8Z65jNeqXCp+3Zjqu9ljKxVLne1qXbiRB6vuwFKOkrTOPBkG9t/oFzuxCZ3GZ6YcSHsbh9lyNCtIT/UweFbbHLkrdHT9uA4UzC81ZEebfyfYX9LqNvXNK+pmmqobcGE9BXd+zftdviuL1YW+iYkZ02+84IvIqpBVKOUsBYUiF0WPFfif289uFR4kIuf7t7PergcZC4joiwr+8EkcRHlIRVSzSfo9XZjCGhUiDHjMEnz3Y83erYmRM7HSd6U9Du+1aHD5q3hxp7wnZ5UoUC1LthmCLEvGPAL6G1Et4DB2FF/43f1k+rS2D9b9lHGx/K5ywc90LQE'}}
0:27:12.682591	LOG	Server --------------------> DUT
0:27:12.684588	LOG	Send Test Command TxFramesCtrlReq process completed
0:27:12.688588	LOG	Send Test Command TxFramesCtrlReq process starts
0:27:12.693593	LOG	TX_ACK: 02 06b5 05 0016c001ff1025bf
0:27:16.668357	LOG	GPS Time updated: 1385120779908
0:27:16.670357	LOG	PULL_DATA: 02 9881 02 0016c001ff1025bf
0:27:16.672360	LOG	PULL_ACK: 02 9881 04
0:27:17.560162	LOG	First uplink received. Open reception window.
0:27:17.672934	LOG	PUSH_ACK: 02 9472 01
0:27:17.674935	LOG	GPS Time from gateway: 1385120780796
0:27:17.676909	LOG	PUSH_DATA: Protocol version = 02, Token = 9472, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2349974155, 'time': '2023-11-27T11:46:01.795960Z', 'tmms': 1385120780796, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAwwkCv/YDt9VI5nkwx0U='}]}
0:27:17.677930	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09c3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7930c745)
0:27:17.679904	LOG	Server <-------------------- DUT
0:27:17.680935	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 067a, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 72588f34)
0:27:17.682936	LOG	Frame command sent to the DUT
0:27:17.683935	LOG	PULL_RESP: Protocol version = 02, Token = a888, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2351974155, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAegbgtrGdrsL2GAx8NUmuyuopdYhnDBRL2UGw7M1OrD8vnk4m9BJCMZhtd7UkXSllSqGuWRU6t1Qqqrdrj9rGkVdM5P5zZrwF4pC//5S+LMP5aX0a82ql1ToLQvztXvkbIBvlVzgrp87hn+qyWUx2SBx7O0eIscqSeeaqNKY3T/oSPj48+b6hZEc/wrTHASwXkL7gKhALpbniBB2AeGQPElXdCwvkUv/ru9rI6q4pvjONn0QN9y2o5fMkzIpkViWD7i3MxXtXBhVous++Ew/osXhmHg1bVDcjzxxCsvOMbhFu0kEoRIOOG2SS82jp5CVN5R1aCChyWI80'}}
0:27:17.685937	LOG	Server --------------------> DUT
0:27:17.687935	LOG	Send Test Command TxFramesCtrlReq process completed
0:27:17.691901	LOG	Send Test Command TxFramesCtrlReq process starts
0:27:22.559928	LOG	First uplink received. Open reception window.
0:27:22.670741	LOG	PUSH_ACK: 02 ce2b 01

0:27:22.672741	LOG	GPS Time from gateway: 1385120785796
0:27:22.673741	LOG	PUSH_DATA: Protocol version = 02, Token = ce2b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2354973892, 'time': '2023-11-27T11:46:06.795696Z', 'tmms': 1385120785796, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAxAkCTIZXYkTre9ajsIo='}]}
0:27:22.675708	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09c4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d6a3b08a)
0:27:22.676707	LOG	Server <-------------------- DUT
0:27:22.678709	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 067b, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 912cd1f5)
0:27:22.680709	LOG	Frame command sent to the DUT
0:27:22.681740	LOG	PULL_RESP: Protocol version = 02, Token = 3fa7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2356973892, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAewbgAhuAKIIBeDSnA1rEUyuim4x6vnWSTHbne3WNq8wYUXH+k5WkVnUmcbjcWIanPlYhgMRBRwYxjn7OkeWtr6kc4WqXtq2c829uZKmQbHVc5A7540w3VhHzCI51gOdczIn8LVSMftBmd/8R9P5IRr3+tBjpXFgQOlMZ47FHyiAzyxE9SR5XMuhx2+eM8TtVp2revSb9OXaH5vFFbrrrapI4KHvZ3KCW5DhaeC2CCFQn39nA5SAQ0uj70yDFRsHSckeLNQBGarHDIj/qDdMhEe+r9n/kKQCo5vWyORvG6yOoeIuym3EDvp9qF47GHKMNy5d7pFiRLNH1'}}
0:27:22.682743	LOG	Server --------------------> DUT
0:27:22.685709	LOG	Send Test Command TxFramesCtrlReq process completed
0:27:22.689709	LOG	Send Test Command TxFramesCtrlReq process starts
0:27:22.693708	LOG	TX_ACK: 02 3fa7 05 0016c001ff1025bf
0:27:26.677665	LOG	GPS Time updated: 1385120789914
0:27:26.679705	LOG	PULL_DATA: 02 a7fa 02 0016c001ff1025bf
0:27:26.680667	LOG	PULL_ACK: 02 a7fa 04
0:27:27.558251	LOG	First uplink received. Open reception window.
0:27:27.674016	LOG	PUSH_ACK: 02 5365 01
0:27:27.675984	LOG	GPS Time from gateway: 1385120790795
0:27:27.676983	LOG	PUSH_DATA: Protocol version = 02, Token = 5365, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2359973632, 'time': '2023-11-27T11:46:11.795435Z', 'tmms': 1385120790795, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3377, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAxQkCJljPxZP35wZ1HHk='}]}
0:27:27.678986	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09c5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 06751c79)
0:27:27.679984	LOG	Server <-------------------- DUT
0:27:27.682985	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 067c, FOpts:), FPort: e0, FRMPayload: 070001

		01010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 38dc1f90)
0:27:27.683984	LOG	Frame command sent to the DUT
0:27:27.685984	LOG	PULL_RESP: Protocol version = 02, Token = 54b5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2361973632, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAfAbgUiwtKXYCFWefjdTqriJdhmhBfrVqowQmNB8vQta60CDH9gLptb0dn5M3TMYC2Tu2BIeerlKyjUnk1spDqVi8OB728yA9Mebs8guYYiih9ELKrxcP80H179wNoea1RXKE656IwFLj+u2C12AhCFe8TYKO1O+C64EQhVc2qcFSoqjJimMWANkTP0cr7z19AKmUdbHZF+q/Vt92ROxxGoOnCqVALqr+Q5/6Iba+0iyInSMHHQtavMpTtiViWIT2qGQLSf+cgxOIE3PWrOTHG+XM5YU2rZBUa1M8R5Bp6tTNM9pMFqDKt5UGurHbz15zECJD/Po43B+Q'}}
0:27:27.686983	LOG	Server ----------> DUT
0:27:27.689984	LOG	Send Test Command TxFramesCtrlReq process completed
0:27:27.693983	LOG	Step 06-07
0:27:27.697018	LOG	Send Test Command RxAppCntReq process starts
0:27:32.557759	LOG	First uplink received. Open reception window.
0:27:32.672612	LOG	PUSH_ACK: 02 08b8 01
0:27:32.674580	LOG	GPS Time from gateway: 1385120795795
0:27:32.675579	LOG	PUSH_DATA: Protocol version = 02, Token = 08b8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2364973396, 'time': '2023-11-27T11:46:16.795198Z', 'tmms': 1385120795795, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAxgkC0eg4mxgakbeImgg='}]}
0:27:32.677579	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09c6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b7889a08)
0:27:32.678579	LOG	Server <---------- DUT
0:27:32.680578	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 067d, FOpts:), FPort: e0, FRMPayload: 09), MIC: 6122f793)
0:27:32.681579	LOG	Frame command sent to the DUT
0:27:32.683579	LOG	PULL_RESP: Protocol version = 02, Token = 66d7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2366973396, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAfQbgemEi95M='}}
0:27:32.684579	LOG	Server ----------> DUT
0:27:32.688612	LOG	TX_ACK: 02 66d7 05 0016c001ff1025bf
0:27:34.720901	LOG	First uplink received. Open reception window.
0:27:34.822185	LOG	PUSH_ACK: 02 f280 01
0:27:34.824185	LOG	GPS Time from gateway: 1385120797952
0:27:34.825188	LOG	PUSH_DATA: Protocol version = 02, Token = f280, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2367130200, 'time': '2023-11-27T11:46:18.952002Z', 'tmms': 1385120797952, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3377, 'rssi': -50, 'size': 16, 'data': 'QAAAAACAxwngpHKiqM6dFg=='}]}
0:27:34.826186	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09c7, FOpts:), FPort: e0, FRMPayload: 09f604, MIC: a8ce9d16)
0:27:34.828189	LOG	Server <---------- DUT
0:27:34.829219	LOG	Frame Command Payload in the Answer: 09f604
0:27:34.833185	LOG	RX Count received by DUT: 1270
0:27:34.836186	LOG	Send Test Command RxAppCntReq process completed
0:27:34.843185	LOG	End Test Step: Test packet error rate for SF8BW125 using RX2 window
0:27:34.846187	LOG	Partial Verdict: PASS
0:27:34.850188	LOG	==========
0:27:34.855429	LOG	==========
0:27:34.857427	LOG	Start Test Step: Test packet error rate for SF7BW125 using RX2 window

0:27:34.873363	LOG	Step 01-03
0:27:34.877513	LOG	Send RXParamSetupReq process starts
0:27:36.878892	LOG	GPS Time updated: 1385120800111
0:27:36.879922	LOG	PULL_DATA: 02 38e8 02 0016c001ff1025bf
0:27:36.881890	LOG	PULL_ACK: 02 38e8 04
0:27:37.560184	LOG	First uplink received. Open reception window.
0:27:37.668289	LOG	PUSH_ACK: 02 2ff6 01
0:27:37.670289	LOG	GPS Time from gateway: 1385120800795
0:27:37.671797	LOG	PUSH_DATA: Protocol version = 02, Token = 2ff6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2369973139, 'time': '2023-11-27T11:46:21.794940Z', 'tmms': 1385120800795, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAyAkC+U0RwnDoend3Wp4='}]}
0:27:37.672802	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09c8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 77775a9e)
0:27:37.674803	LOG	Server <---------- DUT
0:27:37.676801	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 067e, FOpts:), FPort: 00, FRMPayload: 0505d2ad84), MIC: e81c32bb)
0:27:37.677801	LOG	PULL_RESP: Protocol version = 02, Token = e642, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2371973139, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAfgYA+LAcXljoHDK7'}}
0:27:37.679852	LOG	Server ----------> DUT
0:27:37.682804	LOG	TX_ACK: 02 e642 05 0016c001ff1025bf
0:27:42.564220	LOG	First uplink received. Open reception window.
0:27:42.667792	LOG	PUSH_ACK: 02 d7d8 01
0:27:42.669754	LOG	GPS Time from gateway: 1385120805795
0:27:42.670755	LOG	PUSH_DATA: Protocol version = 02, Token = d7d8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2374973010, 'time': '2023-11-27T11:46:26.794811Z', 'tmms': 1385120805795, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3381, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCyQkFBwKQ1zANrb2u5vzIxQ=='}]}
0:27:42.672755	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 09c9, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: e6fcc8c5)
0:27:42.673755	LOG	Server <---------- DUT
0:27:42.675756	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:27:42.677274	LOG	Command Answer: 0507
0:27:42.689266	LOG	MAC command communication completed
0:27:42.693266	LOG	Step 03-04
0:27:42.704265	LOG	Send Test Command RxAppCntReq process starts
0:27:46.917963	LOG	GPS Time updated: 1385120810148
0:27:46.918957	LOG	PULL_DATA: 02 9ec3 02 0016c001ff1025bf
0:27:46.920959	LOG	PULL_ACK: 02 9ec3 04
0:27:47.560885	LOG	First uplink received. Open reception window.
0:27:47.662877	LOG	PUSH_ACK: 02 8c2b 01
0:27:47.664876	LOG	GPS Time from gateway: 1385120810794
0:27:47.665878	LOG	PUSH_DATA: Protocol version = 02, Token = 8c2b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2379972758, 'time': '2023-11-27T11:46:31.794558Z', 'tmms': 1385120810794, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3377, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCygkFBwKz4HdO3z4ZTc/2JQ=='}]}
0:27:47.667882	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 09ca, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 4dcff625)
0:27:47.668882	LOG	Server <---------- DUT
0:27:47.669884	LOG	MAC Command RXParamSetupAns received

0:27:47.671916	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 067f, FOpts:), FPort: e0, FRMPayload: 09), MIC: 41c50eb1)
0:27:47.672914	LOG	Frame command sent to the DUT
0:27:47.674919	LOG	PULL_RESP: Protocol version = 02, Token = dde5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2381972758, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAfwbgRkHFDrE='}}
0:27:47.675911	LOG	Server --------------------> DUT
0:27:47.678881	LOG	TX_ACK: 02 dde5 05 0016c001ff1025bf
0:27:49.678311	LOG	First uplink received. Open reception window.
0:27:49.792362	LOG	PUSH_ACK: 02 b0a8 01
0:27:49.794365	LOG	GPS Time from gateway: 1385120812909
0:27:49.795364	LOG	PUSH_DATA: Protocol version = 02, Token = b0a8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2382087687, 'time': '2023-11-27T11:46:33.909485Z', 'tmms': 1385120812909, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3377, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAywnguW4GjCuxSg=='}]}
0:27:49.796363	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09cb, FOpts:), FPort: e0, FRMPayload: 09f704, MIC: 8c2bb14a)
0:27:49.798364	LOG	Server <-------------------- DUT
0:27:49.799364	LOG	Frame Command Payload in the Answer: 09f704
0:27:49.803364	LOG	RX Count received by DUT: 1271
0:27:49.805364	LOG	Send Test Command RxAppCntReq process completed
0:27:49.809396	LOG	Step 05
0:27:49.813363	LOG	Send Test Command TxFramesCtrlReq process starts
0:27:52.558715	LOG	First uplink received. Open reception window.
0:27:52.663800	LOG	PUSH_ACK: 02 54d5 01
0:27:52.665800	LOG	GPS Time from gateway: 1385120815794
0:27:52.666806	LOG	PUSH_DATA: Protocol version = 02, Token = 54d5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2384972433, 'time': '2023-11-27T11:46:36.794232Z', 'tmms': 1385120815794, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAzAkCzehUGunZEt4UqcI='}]}
0:27:52.668767	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09cc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: de14a9c2)
0:27:52.669767	LOG	Server <-------------------- DUT
0:27:52.671820	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0680, FOpts:), FPort: e0, FRMPayload: 070001), MIC: b773ed56)
0:27:52.673804	LOG	Frame command sent to the DUT
0:27:52.674804	LOG	PULL_RESP: Protocol version = 02, Token = e4a3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2386972433, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAgAbghOWX7R6GFPPcQm7nl9zD9KdYH8NqhYcIUkFGNRAicq9FzyukZTVLfIahemEDGXIVBg1kYUtlXVlVXzPfBdNDg85XeZevNhftz1TS2RgJub3nIbVSRF8T22eZRusr3fg967HTHcyBRLYguqQ0QzZYeS8axl1e+lLqEWhuO1cvNc8ZSLf0VLzmPV0w/nNO03ybIAQu+Xu8lKT8Byqq2h4b72LuxRQaQ4PAihPWpq+0ZAYaP9FZz8tSTGaBZqK9QRX3IXhPwjRvUL1AI8Zc+SkQvHGdF8SstC7aBwtxnqai82mv8uVpcOwVJ/fczp0OQ7NUv9+3c+1W'}}

0:27:52.675807	LOG	Server --------------------> DUT
0:27:52.678804	LOG	Send Test Command TxFramesCtrlReq process completed
0:27:52.682771	LOG	Send Test Command TxFramesCtrlReq process starts
0:27:57.098118	LOG	GPS Time updated: 1385120820334
0:27:57.099115	LOG	PULL_DATA: 02 5754 02 0016c001ff1025bf
0:27:57.101118	LOG	PULL_ACK: 02 5754 04
0:27:57.561779	LOG	First uplink received. Open reception window.
0:27:57.669654	LOG	PUSH_ACK: 02 5e25 01
0:27:57.671620	LOG	GPS Time from gateway: 1385120820794
0:27:57.672621	LOG	PUSH_DATA: Protocol version = 02, Token = 5e25, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2389972167, 'time': '2023-11-27T11:46:41.793965Z', 'tmms': 1385120820794, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAzQkC4MJ/B++SABdKXVY='}]}
0:27:57.674622	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09cd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 174a5d56)
0:27:57.675621	LOG	Server <-------------------- DUT
0:27:57.677624	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0681, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 6c211511)
0:27:57.678624	LOG	Frame command sent to the DUT
0:27:57.680624	LOG	PULL_RESP: Protocol version = 02, Token = 4316, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2391972167, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAgQbg/4gw0z1gVi78e25F9tFSMAQhjcB8CwbMgnVGVEE+dcPe/BDc8W625kLFljZLBwoZDCXvuZhg5P1MG92xYHYfMUmmUbIW3DD/KhDjSnD/YIEyNQxcVSqgMsfq85TbVMpdOUwg4/BYhMTG3bxVral4g3gsjNk1j0IPjsEpRkfOkVhs0VSOW/raTiJMJwjQ5KKgInhYLjHaMrVZ4cNvBBJSMRrQ3b2K2QTrtc7R4Wfm1TKxvVlW+EzOGlD5DXEaXo8hdAEdI4VyD8Pv0dr82VdZKlSdKf5tjj17LMG1PPaycMEV8jf92pnSe42PKZB7Mw1H6K5sIRUR'}}
0:27:57.681626	LOG	Server --------------------> DUT
0:27:57.685625	LOG	Send Test Command TxFramesCtrlReq process completed
0:27:57.688659	LOG	Send Test Command TxFramesCtrlReq process starts
0:28:02.561067	LOG	First uplink received. Open reception window.
0:28:02.667033	LOG	PUSH_ACK: 02 7fec 01
0:28:02.669036	LOG	GPS Time from gateway: 1385120825794
0:28:02.670034	LOG	PUSH_DATA: Protocol version = 02, Token = 7fec, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2394971936, 'time': '2023-11-27T11:46:46.793733Z', 'tmms': 1385120825794, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAzgkCVU7JQECiXcPwaLs='}]}
0:28:02.672002	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09ce, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c3f068bb)
0:28:02.673041	LOG	Server <-------------------- DUT
0:28:02.675003	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0682, FOpts:), FPort: e0, FRMPayload: 0700010

		10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 5878dc99)
0:28:02.677003	LOG	Frame command sent to the DUT
0:28:02.678037	LOG	PULL_RESP: Protocol version = 02, Token = acd7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2396971936, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAggbgLF+eHIGseRo8DQGm4QIHxU9Ur+COnaj32hz7f1EQpEBvWLJMUpg++Xb0Y6Vs6NtOheJPcza9h+r8pv6xIh0aRgdSJkFTQoABR5/TcLpS4NXbrtRbcAO+FAhB9AEpLyohMdphltZoZhf+vg6G4a1FG+TXcrwQ6h1KebMAkcAGW1k5lMfp3snhvXMDFxiR3hwmqq2Z+OZtCuddv1btazxUWjz6FJ9GagF0G/jq2fmH0cyXGgVRiE0Vz3ks1iX73SiwgtwJDl+bcJjxCF0GxIZxY+SnYNl+7O3glx9OqarqvNo/CJLQLIKghiuNElA74l6Hj6RYeNyZ'}}
0:28:02.679034	LOG	Server --------------------> DUT
0:28:02.682011	LOG	Send Test Command TxFramesCtrlReq process completed
0:28:02.686009	LOG	Send Test Command TxFramesCtrlReq process starts
0:28:07.297952	LOG	GPS Time updated: 1385120830530
0:28:07.298921	LOG	PULL_DATA: 02 7027 02 0016c001ff1025bf
0:28:07.301432	LOG	PULL_ACK: 02 7027 04
0:28:07.562268	LOG	First uplink received. Open reception window.
0:28:07.676631	LOG	PUSH_ACK: 02 e6c4 01
0:28:07.678632	LOG	GPS Time from gateway: 1385120830793
0:28:07.679599	LOG	PUSH_DATA: Protocol version = 02, Token = e6c4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2399971701, 'time': '2023-11-27T11:46:51.793496Z', 'tmms': 1385120830793, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAzwkCDndyLuI+sTaWI2w='}]}
0:28:07.681597	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09cf, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3696236c)
0:28:07.682597	LOG	Server <-------------------- DUT
0:28:07.684597	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0683, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 778514ef)
0:28:07.686668	LOG	Frame command sent to the DUT
0:28:07.687669	LOG	PULL_RESP: Protocol version = 02, Token = 9456, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2401971701, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAgwbgDwd87mpYA5uoX9DcBO7TduHjwsIVZVHGZLTGqct7FSpkPA/xAAk9fjfVe6l1pskf+E35In54PEiC525qVZQG382ScSIzu0ZDl1yxpqVw+ueBoTujHo4m6IvdRbDVecNDbj98fYPYMq2K6imbxOy1siSMrlHvmRbN7x/11W33XIPOV0l/k/qAub50KLKNrUY1zqYMcZg+3qfzVHzsJYxcxWnxy21slWiDE2u//LwculhoZVd2xKyTSzMajlmpCmwOncVglAhecNeEsxjZOUgJJALtoT7aNVgNtPCAxDXFyPSguVkYPdMyN7bHnY1az/AJsA13hRTv'}}
0:28:07.688666	LOG	Server --------------------> DUT
0:28:07.691649	LOG	Send Test Command TxFramesCtrlReq process completed
0:28:07.694668	LOG	Send Test Command TxFramesCtrlReq process starts

0:28:07.699670	LOG	TX_ACK: 02 9456 05 0016c001ff1025bf
0:28:12.558103	LOG	First uplink received. Open reception window.
0:28:12.661681	LOG	PUSH_ACK: 02 8cee 01
0:28:12.663682	LOG	GPS Time from gateway: 1385120835793
0:28:12.664682	LOG	PUSH_DATA: Protocol version = 02, Token = 8cee, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2404971452, 'time': '2023-11-27T11:46:56.793248Z', 'tmms': 1385120835793, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA0AkCVJLLJ6cEvjgW46w='}]}
0:28:12.666682	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09d0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3816e3ac)
0:28:12.667683	LOG	Server <-------------------- DUT
0:28:12.669683	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0684, FOpts:), FPort: e0, FRMPayload: 070001), MIC: b9acf839)
0:28:12.670682	LOG	Frame command sent to the DUT
0:28:12.672682	LOG	PULL_RESP: Protocol version = 02, Token = 338e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2406971452, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAhAbgIHraoJHucFSw3QJ7K3IWlMjPuoX/wO4HqdLhkomZQ7V2Ch/0Z/0wYgXCUVzciW/yXjPgy//s9qK7XORfB/gx61Cy1VZanQCHgg/tBfdA/0J/KoWdRsdtrltmEey9/Rx1Nqc2xk+b1rZJUp/Nru0eTDB819wdOj9WT5e/a1juAH0QR0VYU1T6gzs6jSEWZ0FDVTLjXjBtBZqkus2N1XG0a566scAi5dBCs/7mm1oii163JfALex5PCnuZnXG1GesBvbtCxG+cLpeZmW2MJILJO1UtYtM7cC/W7B7u7WQbmPpAVBzw8BoX02gOpAVgr5xYso+5rPg5'}}
0:28:12.673682	LOG	Server --------------------> DUT
0:28:12.676685	LOG	Send Test Command TxFramesCtrlReq process completed
0:28:12.679714	LOG	Send Test Command TxFramesCtrlReq process starts
0:28:17.498329	LOG	GPS Time updated: 1385120840733
0:28:17.500304	LOG	PULL_DATA: 02 7c7e 02 0016c001ff1025bf
0:28:17.502295	LOG	PULL_ACK: 02 7c7e 04
0:28:17.561790	LOG	First uplink received. Open reception window.
0:28:17.671310	LOG	PUSH_ACK: 02 6eb4 01
0:28:17.673271	LOG	GPS Time from gateway: 1385120840793
0:28:17.674272	LOG	PUSH_DATA: Protocol version = 02, Token = 6eb4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2409971186, 'time': '2023-11-27T11:47:01.792981Z', 'tmms': 1385120840793, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA0QkCi49X+2dzYHjLdlg='}]}
0:28:17.676307	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09d1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 78cb7658)
0:28:17.677309	LOG	Server <-------------------- DUT
0:28:17.679272	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0685, FOpts:), FPort: e0, FRMPayload: 0700010

		101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 9391820b)
0:28:17.681271	LOG	Frame command sent to the DUT
0:28:17.682272	LOG	PULL_RESP: Protocol version = 02, Token = 2940, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2411971186, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAhQbgR8A+yg6CNJx5r07iaNZTLlx794A6hkn/VxRmH7WT6Ce3c7sfJE869KAHlKWsha/KmDUsBtcJTfEb1ZsJJEBQRZX/3XwFzYE26mGAB9vPuJgA/9efzdr79bCEtQDjMMZa/lzK99v5QmIyJAH6iIVaLsZaSvsHA5g54olFH8q4JWOhl3LjDI3DPoWehW7pMfqIhiPGkOiy7cPWJLQc2QS/hcjtf9G0WbFZDMhZglmd+IbX0schFmYJWRgEP4HJvtSkPRxmNlPXwevQ2xF9wnKAUZWpfs62TlkTIt+GZYY/yDs8ufTBt6a6snVtkP3LBkdm9zGTkYIL'}}
0:28:17.684305	LOG	Server --------------------> DUT
0:28:17.686307	LOG	Send Test Command TxFramesCtrlReq process completed
0:28:17.690285	LOG	Send Test Command TxFramesCtrlReq process starts
0:28:22.561027	LOG	First uplink received. Open reception window.
0:28:22.671134	LOG	PUSH_ACK: 02 669e 01
0:28:22.673170	LOG	GPS Time from gateway: 1385120845793
0:28:22.674169	LOG	PUSH_DATA: Protocol version = 02, Token = 669e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2414970957, 'time': '2023-11-27T11:47:06.792751Z', 'tmms': 1385120845793, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA0gkCoQUyPlMWAoWMGLc='}]}
0:28:22.676138	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09d2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 858c18b7)
0:28:22.677170	LOG	Server <-------------------- DUT
0:28:22.679136	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0686, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 9cb0ca23)
0:28:22.680172	LOG	Frame command sent to the DUT
0:28:22.682171	LOG	PULL_RESP: Protocol version = 02, Token = 2097, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2416970957, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAhgbgnI0XqhwI8AjEPRysj4jax2XJWzp4eWn1RKAWsu5Y5QQpsTl3GJdVxo3r/iR+RBjpVcmIfud7u/F7vwHTx4StHqzb/dI+DEPmF9BmiFktis7snc5SdtEdbjyPAZbSmejLgTXIoMZT7Fg5HUdMoed0kw5MnMDsU2c9x7PgX/h64hmgf8/xLK597w125H95ZX7giZA5/N8ojES0ld81WBFLMUlHV5NZrSeKTmAV9pHi8gtLu//WLOA9veaKUjNCCIMR3tKFCyMJ3X5OxrNf4WbqEhzYf+X1rzDau31n78Hxi51ugvWTRcBE3zWhdCmeCwTMiX6csMoj'}}
0:28:22.683168	LOG	Server --------------------> DUT
0:28:22.686135	LOG	Send Test Command TxFramesCtrlReq process completed
0:28:22.690135	LOG	Send Test Command TxFramesCtrlReq process starts
0:28:27.508090	LOG	GPS Time updated: 1385120850739
0:28:27.509090	LOG	PULL_DATA: 02 7649 02 0016c001ff1025bf
0:28:27.511060	LOG	PULL_ACK: 02 7649 04
0:28:27.557955	LOG	First uplink received. Open reception window.
0:28:27.661129	LOG	PUSH_ACK: 02 0103 01

0:28:27.663096	LOG	GPS Time from gateway: 1385120850792
0:28:27.664096	LOG	PUSH_DATA: Protocol version = 02, Token = 0103, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2419970700, 'time': '2023-11-27T11:47:11.792493Z', 'tmms': 1385120850792, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA0wkCzg8wSpFJRhOGcrg='}]}
0:28:27.666097	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09d3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 138672b8)
0:28:27.667096	LOG	Server <-------------------- DUT
0:28:27.669096	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0687, FOpts:), FPort: e0, FRMPayload: 070001), MIC: a37492ce)
0:28:27.671096	LOG	Frame command sent to the DUT
0:28:27.672096	LOG	PULL_RESP: Protocol version = 02, Token = 3c95, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2421970700, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAhwbgCM+l9nTCcCas8lNXclbABbxwArE6hYrqOx2Yc9dC904mnwibp6ou8Odm/7qrRJXU7gz69OVjFx1LdEY0y+YAxBWB7eqcruS1BDL+uHnXqWVkaM5Qp8TdmClfl2RS4iMY2Oo8XdM8H6hkKUf0132Cdj2+croAoJdvQwPI1WMKgjeRgCSRseHiO1Gk7nzl3il4zZH4x6ISq59hGxrJ9pIYcRAJ2uwSoW2ACndOSwQBOG0JaHizn5ATByA/LcKHhfPncerm5qmMaos2Xte9AnDN4gM0xpaHMI9XR0/4EcL026k1uqjtsodWxJePrLMF3zISH4KjdJLO'}}
0:28:27.673096	LOG	Server --------------------> DUT
0:28:27.676096	LOG	Send Test Command TxFramesCtrlReq process completed
0:28:27.680096	LOG	Send Test Command TxFramesCtrlReq process starts
0:28:32.559886	LOG	First uplink received. Open reception window.
0:28:32.674218	LOG	PUSH_ACK: 02 75b1 01
0:28:32.676182	LOG	GPS Time from gateway: 1385120855792
0:28:32.677182	LOG	PUSH_DATA: Protocol version = 02, Token = 75b1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2424970477, 'time': '2023-11-27T11:47:16.792268Z', 'tmms': 1385120855792, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA1AkC6h/BRNKjn9U71o4='}]}
0:28:32.679186	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09d4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d53bd68e)
0:28:32.680182	LOG	Server <-------------------- DUT
0:28:32.682182	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0688, FOpts:), FPort: e0, FRMPayload: 070001), MIC: b4b316c5)
0:28:32.684182	LOG	Frame command sent to the DUT
0:28:32.685182	LOG	PULL_RESP: Protocol version = 02, Token = a354, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2426970477, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True,

		'size': 255, 'data': 'YAAAAAAAiAbgIZeNDgJpWn2tp0BqQkWaoK/0Unq32OARKgGAJ8nyhAKTG2odYJKl6xlkwNEb0FrAMsZy7vzN4zx2v7YQhgT6D4OsJP3vkRmxVX5Z9s89b+lk2fk0HE+H3xR4o8VTBOr1jgoIaBa5V+2gRBmjRdT9P25AEAbRwZgs6xFRmEt9GArbT6TJHBI5VmzScBLrG2MPNCfBuyem5asNSwdCmXWtZJ96yCFZ9gV11HHB1uERIhGsQfKMiAl/l5FZNbqpwYKn61cSHcXx66RH879tJ+CquZE+d/xKZ1nuCGsGGifSaSvsPfHhI2ZSFhdpKyPukwYd0tm0sxbF'}}
0:28:32.686182	LOG	Server --------------------> DUT
0:28:32.689183	LOG	Send Test Command TxFramesCtrlReq process completed
0:28:32.692181	LOG	Send Test Command TxFramesCtrlReq process starts
0:28:37.517895	LOG	GPS Time updated: 1385120860750
0:28:37.518895	LOG	PULL_DATA: 02 abc9 02 0016c001ff1025bf
0:28:37.520898	LOG	PULL_ACK: 02 abc9 04
0:28:37.556001	LOG	First uplink received. Open reception window.
0:28:37.661467	LOG	PUSH_ACK: 02 866a 01
0:28:37.663507	LOG	GPS Time from gateway: 1385120860792
0:28:37.664505	LOG	PUSH_DATA: Protocol version = 02, Token = 866a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2429970215, 'time': '2023-11-27T11:47:21.792007Z', 'tmms': 1385120860792, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA1QkCZMh0jSVTvirqNLg='}]}
0:28:37.665505	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09d5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2aea34b8)
0:28:37.667506	LOG	Server <-------------------- DUT
0:28:37.669506	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0689, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 68492075)
0:28:37.670509	LOG	Frame command sent to the DUT
0:28:37.671506	LOG	PULL_RESP: Protocol version = 02, Token = 4348, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2431970215, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAiQbg3bCxrorXaTsyDuiyRacQ332ILuFhG+m9lKpVGYfiGPVBTL9EqlSsYQBs9eOPo/jXOu/arl3Ic0Ornnf0z9oxVoNjetzFlMgs+dSj0fQMa1KPT9LZu2dYmP1bNT9ftNXtXX6zDgToQwEOLPlYzzNySOyicJ3dKm15CJGdbardmWedCLw7iLprVLpKjxbJYbrK80MiJIuhCc2TuP9ozTtK6/8A24RCOUnnI3Dlsw+FrHsu/YNnIMBgrVir99fmU370vbit/50GDwiHPCQpQcolBSEuV6xTh06Tit6Vh+RPM+5zbRTjR8ggAHLgoO37WRWQupNoSSB1'}}
0:28:37.673507	LOG	Server --------------------> DUT
0:28:37.676490	LOG	Send Test Command TxFramesCtrlReq process completed
0:28:37.680419	LOG	Send Test Command TxFramesCtrlReq process starts
0:28:42.559980	LOG	First uplink received. Open reception window.
0:28:42.665183	LOG	PUSH_ACK: 02 b5dd 01
0:28:42.667149	LOG	GPS Time from gateway: 1385120865792
0:28:42.668149	LOG	PUSH_DATA: Protocol version = 02, Token = b5dd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2434969981, 'time': '2023-11-27T11:47:26.791772Z', 'tmms': 1385120865792, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA1gkCA/IjjYq2XEwK4/o='}]}

0:28:42.669148	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09d6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4c0ae3fa)
0:28:42.671149	LOG	Server <-------------------- DUT
0:28:42.673148	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 068a, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 16a3e0b3)
0:28:42.675148	LOG	Frame command sent to the DUT
0:28:42.676149	LOG	PULL_RESP: Protocol version = 02, Token = 4b86, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2436969981, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAigbg9f6LkQjkDoLV+7mRLXNUBqBEjaDQtvYEuKzV4lNgI59SsGxxuTgMUHB2uVhhcxziCO22oRK+EdmANtCepgZxWUJZPEL+NeWm/XY++I8QLvlnDFSx9q4eTWFD6G4Uw0Qk6gRglgbYHgoRpj7ulG8GjL4r+ogc3VIaR74jQdgkm7AYXwdnmUqw8JiAKesdWO/DusdLdEtR6IA/w6HPlBOGqIgr6lYcGnu/B5gTdxq6HDrMXLrBvgbYZ92+jwy/2Mo50jcRnlJc3MeWTFtVkiS6PEKSVw7Hp2w8TtDG5xsgH6DWjLKrP7tiYrKSMVl9E2gXpvMWo+Cz'}}
0:28:42.677149	LOG	Server --------------------> DUT
0:28:42.681152	LOG	Send Test Command TxFramesCtrlReq process completed
0:28:42.684148	LOG	Send Test Command TxFramesCtrlReq process starts
0:28:47.561456	LOG	First uplink received. Open reception window.
0:28:47.676874	LOG	PUSH_ACK: 02 be14 01
0:28:47.678841	LOG	GPS Time from gateway: 1385120870791
0:28:47.679840	LOG	PUSH_DATA: Protocol version = 02, Token = be14, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2439969733, 'time': '2023-11-27T11:47:31.791523Z', 'tmms': 1385120870791, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA1wkCfHlohXdJWhKwa8M='}]}
0:28:47.680841	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09d7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 12b06bc3)
0:28:47.682840	LOG	Server <-------------------- DUT
0:28:47.684840	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 068b, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 3d94e778)
0:28:47.685840	LOG	Frame command sent to the DUT
0:28:47.687840	LOG	PULL_RESP: Protocol version = 02, Token = 43df, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2441969733, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAiwbgNOyhSOiA8Ls4JaryG4BzyMR4kuCQ7XOByxAz7ISNaXE3FPyetGrp8ck2YyOMkAHwTNr4HU+GMilZqx694QVTVZEGH5fPS94GzwtORxUIOvBpHqWcGssJdYteNYn4NnR+xVEmpHuOyZggY9g2DL6QmVAVcibOiMZivBP/2z7gzK8kb1J5wr7qPBBdKuLR3QwdEVg6Z4Z9X4MVyqHYUSb5gBKx6U4jph

		0M8bbAcPY6QRfDbmbT9GCkLRVXI++50Y018OjqnkWjdttzTQyKxVB1UM7nz wvXet9DUa5JYU9saQ+cR8NHLu4C0TlEMsU58YfXuLo9lOd4'}}
0:28:47.688840	LOG	Server --------------------> DUT
0:28:47.691841	LOG	Send Test Command TxFramesCtrlReq process completed
0:28:47.695839	LOG	Send Test Command TxFramesCtrlReq process starts
0:28:52.561195	LOG	First uplink received. Open reception window.
0:28:52.675678	LOG	PUSH_ACK: 02 0073 01
0:28:52.677679	LOG	GPS Time from gateway: 1385120875791
0:28:52.678680	LOG	PUSH_DATA: Protocol version = 02, Token = 0073, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2444969468, 'time': '2023-11-27T11:47:36.791257Z', 'tmms': 1385120875791, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA2AkCEOPdrZuhfvefofo='}]}
0:28:52.680716	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09d8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f79fa1fa)
0:28:52.681680	LOG	Server <-------------------- DUT
0:28:52.683682	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 068c, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 686a5279)
0:28:52.685709	LOG	Frame command sent to the DUT
0:28:52.686713	LOG	PULL_RESP: Protocol version = 02, Token = 36c1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2446969468, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAjAbgYnoZWLbOt0EyO+49FYtrWUBxbXYGQh9LOtWO0+CruZbn OtnVKNM0fJA7Hjq/i8JZcKLHFOeIoPyTeOzy7oj62SfPvm0BFNILHqakCERzXd sgZqIiLy1togHqiuOlUi1GqCQ0gitmHfI9LekwOccy5dq1Hdo1mB0J/qZQ3/nz2e0q EsB8m4RoLOu7ZMoyuJLuba6RY692gBwmvZD3oPq1Q39lD11gjsNN74YqSe/0l ZA6SrW+5d0MFLov8ep/iKd+g3gwlbXHEH1pqPdoihkpLNpGbxfTueqE0gRxD9/ mXVe7h1WJDdcuyYi1K4t9jl7cs/5oalJ5'}}
0:28:52.687680	LOG	Server --------------------> DUT
0:28:52.691680	LOG	Send Test Command TxFramesCtrlReq process completed
0:28:52.694712	LOG	Send Test Command TxFramesCtrlReq process starts
0:28:52.702681	LOG	TX_ACK: 02 36c1 05 0016c001ff1025bf
0:28:57.551896	LOG	First uplink received. Open reception window.
0:28:57.663927	LOG	PUSH_ACK: 02 37f1 01
0:28:57.665962	LOG	GPS Time from gateway: 1385120880791
0:28:57.666963	LOG	PUSH_DATA: Protocol version = 02, Token = 37f1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2449969235, 'time': '2023-11-27T11:47:41.791023Z', 'tmms': 1385120880791, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA2QkCda1/f3cUtRLddQg='}]}
0:28:57.668929	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09d9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 12dd7508)
0:28:57.669928	LOG	Server <-------------------- DUT
0:28:57.671931	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 068d, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010101010

		101), MIC: 668047bd)
0:28:57.673930	LOG	Frame command sent to the DUT
0:28:57.674961	LOG	PULL_RESP: Protocol version = 02, Token = 4ad9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2451969235, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAjQbg9IgZdbCs12doEgKMGA7GV2WiNwsbPW7AfB0UZpOE+HjBebo0kfQoPW6FxRtAj1oquMyiObMkPsqSIUgKQTLMADyjZohV/WcSOO5IJSUjD3iIp6MFZPZ2miJn+WJAJ6C0tplhXftpk8qmdXW+dqY+Hifr5tR1gIqWSuUT+gs3Jqb1FYlUmwY6+GxGps5YjDRI61F61/lWK31epHo3FvGoRsmxAmEF66JgkbNdu60ldP4ZU/SrVg3LkTT1B0nszRPuCPrR7OPgNbQatH2jG35cXVGShQt1eOODIqdAOyDe+ZCxgSTpgj4gdXCcNveaY8d8kDZmgEe9'}}
0:28:57.675965	LOG	Server --------------------> DUT
0:28:57.678935	LOG	Send Test Command TxFramesCtrlReq process completed
0:28:57.682934	LOG	Send Test Command TxFramesCtrlReq process starts
0:28:57.887584	LOG	GPS Time updated: 1385120881127
0:28:57.888585	LOG	PULL_DATA: 02 d4b3 02 0016c001ff1025bf
0:28:57.890585	LOG	PULL_ACK: 02 d4b3 04
0:29:02.553057	LOG	First uplink received. Open reception window.
0:29:02.665031	LOG	PUSH_ACK: 02 6f43 01
0:29:02.667031	LOG	GPS Time from gateway: 1385120885791
0:29:02.668032	LOG	PUSH_DATA: Protocol version = 02, Token = 6f43, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2454969007, 'time': '2023-11-27T11:47:46.790793Z', 'tmms': 1385120885791, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA2gkCDNPJ/2OOuF26VMQ='}]}
0:29:02.669998	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09da, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5dba54c4)
0:29:02.670998	LOG	Server <-------------------- DUT
0:29:02.673014	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 068e, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 27be44e6)
0:29:02.675028	LOG	Frame command sent to the DUT
0:29:02.676034	LOG	PULL_RESP: Protocol version = 02, Token = 1211, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2456969007, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAjgbgXuC1/VEaGFdj1agsMN0KLyrGd0VK3VuSZyavt3Gr4RTjG5OYvRGSj1O+815zmR2ZUuBe0R48zE/00yTLYhnNWe3YnQnLUxl/HEAgRYE3tabf34OokJrnCX2QETpkzNeG/oxWmwQiaIXw9FskI2nI20aoQPtk7YxU8ryzyKu4qbc8bBloRK2Xx/9q2GquAJ5Rp61OQew/dNtguShbWUOaMLuH2L1JQcl6XNfLmL8jGvTs3FRjvJl7Fe4Zz3Pc5jlpmhDoxIi7ohEu+hxzgUXQ1ESqgly9Um288THHubEl2XxIgCjm2eByWuhyGcnPUkg+gognvkTm'}}
0:29:02.677032	LOG	Server --------------------> DUT
0:29:02.679998	LOG	Send Test Command TxFramesCtrlReq process completed
0:29:02.683998	LOG	Send Test Command TxFramesCtrlReq process starts

0:29:07.560226	LOG	#***************************CURRENT BEACON SENT***************************#
0:29:07.561229	LOG	PULL_RESP: Protocol version = 02, Token = 7874, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385120896000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACARI9SRG0AAAAAAAAAAAA='}}
0:29:07.562229	LOG	Server --------------------> DUT
0:29:07.564741	LOG	#** ******#
0:29:07.573739	LOG	#***************************NEXT BEACON QUEUED***************************#
0:29:07.575751	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385121024000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAARY9STIcAAAAAAAAAAAA='}}
0:29:07.577742	LOG	Server --------------------> DUT
0:29:07.578742	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 00458f52, CRC1: 4c87, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385121024000
0:29:07.579740	LOG	#** ******#
0:29:07.581739	LOG	Next BEACON scheduled at GPS time (ms): 1385121152000
0:29:07.582740	LOG	First uplink received. Open reception window.
0:29:07.584740	LOG	TX_ACK: 02 7874 05 0016c001ff1025bf
0:29:07.697098	LOG	PUSH_ACK: 02 67d6 01
0:29:07.699104	LOG	GPS Time from gateway: 1385120890790
0:29:07.700102	LOG	PUSH_DATA: Protocol version = 02, Token = 67d6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2459968779, 'time': '2023-11-27T11:47:51.790566Z', 'tmms': 1385120890790, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA2wkCzZA3Bp97/0LkTtI='}]}
0:29:07.701103	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09db, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 42e44ed2)
0:29:07.703103	LOG	Server <-------------------- DUT
0:29:07.705104	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 068f, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: ae62da3a)
0:29:07.707103	LOG	Frame command sent to the DUT
0:29:07.708103	LOG	PULL_RESP: Protocol version = 02, Token = 3d53, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2461968779, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAjwbgkyei2VyqkLZZU/yZEyUvCMS5HIvvI/34023PIQxMtFvspef9o dbb/jebVUddDOVNQ5B6D5+ZL5z9U2TY/E2U8C9XnnglGFvZ6KaVJZkVkYG/8 TNBBl1I9zA1dveBH1Q7GfF3TRuuJMJV6HPI3Rj8HfspFrkq4rh7kogbBmrJHNCt L6e5pRFxsyDLGducDxfsD6NZ5FYTqAe82W8iGLUiVcb8OCv5soysRZlXh2qY/ 1pdHQeV70Okkogy1LkNmL7qgIT7WWMt2SURQ73dBp5HVtBfTHVIuLX7EHL 7F6dYZrW7U8GT4WRP9k1oWpjtoCJ+DAquYto6'}}
0:29:07.710115	LOG	Server --------------------> DUT

0:29:07.713106	LOG	Send Test Command TxFramesCtrlReq process completed
0:29:07.717115	LOG	Send Test Command TxFramesCtrlReq process starts
0:29:07.917344	LOG	GPS Time updated: 1385120891124
0:29:07.920300	LOG	PULL_DATA: 02 e112 02 0016c001ff1025bf
0:29:07.923297	LOG	PULL_ACK: 02 e112 04
0:29:12.554196	LOG	First uplink received. Open reception window.
0:29:12.662782	LOG	PUSH_ACK: 02 1357 01
0:29:12.664748	LOG	GPS Time from gateway: 1385120895790
0:29:12.665749	LOG	PUSH_DATA: Protocol version = 02, Token = 1357, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2464968556, 'time': '2023-11-27T11:47:56.790342Z', 'tmms': 1385120895790, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3385, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA3AkCN1JxXOR8G3qutfw='}]}
0:29:12.667254	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09dc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7aaeb5fc)
0:29:12.668258	LOG	Server <-------------------- DUT
0:29:12.670292	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0690, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: b7fdfa05)
0:29:12.672259	LOG	Frame command sent to the DUT
0:29:12.673290	LOG	PULL_RESP: Protocol version = 02, Token = 4afe, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2466968556, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAkAbg0cay9y82zsvdGbL/3TV8KPNJPtzjl3KjtjTKPc1yHoYNeWCYE39wfu+QWHcCnzGv1LUOqf5/vjTJootvak2GR/tUg5mil0qbitKn2BEAt2lBkFD58r9kS/D26Xr9Xry5MPXeiqompbLig6qSM7L7GPPtcJaUlm+zWx1sAqZPydQTVIDpYoN1ao8ccl+wPb7SCJcZU7gC1u/a3UWyjBO3YMdVc0gwNpcOEOR9kBVG5Aet5Plzp6MO407AgE/9kgAe6PuJrYlHty8USiRaRCv4ruWbvqWTwhTa+AL8yc1Zl2DfvkOOANhuU5ANg0HquFSAIrG3/foF'}}
0:29:12.675306	LOG	Server --------------------> DUT
0:29:12.678258	LOG	Send Test Command TxFramesCtrlReq process completed
0:29:12.681294	LOG	Send Test Command TxFramesCtrlReq process starts
0:29:17.559714	LOG	First uplink received. Open reception window.
0:29:17.668094	LOG	PUSH_ACK: 02 5c14 01
0:29:17.670064	LOG	GPS Time from gateway: 1385120900790
0:29:17.671098	LOG	PUSH_DATA: Protocol version = 02, Token = 5c14, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2469968296, 'time': '2023-11-27T11:48:01.790081Z', 'tmms': 1385120900790, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA3QkCg3IIkeenETcX2bY='}]}
0:29:17.672635	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09dd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3717d9b6)
0:29:17.674640	LOG	Server <-------------------- DUT
0:29:17.676640	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0691, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101

		0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 1582591d)
0:29:17.677639	LOG	Frame command sent to the DUT
0:29:17.679639	LOG	PULL_RESP: Protocol version = 02, Token = d0f8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2471968296, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAkQbgdwKQX4se8YURYZZxjDgcZOALYTyqlfY59YtISeL43AQOIbxgmEDzMTIGIpThsPGc1msO98lZOGc4Hi9ybm3QJzwHWfZF79vmSEePn9jYo6Od6TLd8MKdzTqLMjWZFdnrmGB91ZvOyYKCcIvMbSMkPoguchc1loUU5i/eGFDymxa8I0B66mkuMqsO2gU0fOas3XihWqghUlgH4+9d9opXs/LDDaxRFhOVz/irLxuMEgGhJjMxfT+NqqMensjjfCwg3jIuREqjVI7swYmyAbaep9abP0+Tg64ooE+FY3/gjh9/UgBTM69ydjfvT2NpWy3rpi4Vglkd'}}
0:29:17.680639	LOG	Server --------------------> DUT
0:29:17.683638	LOG	Send Test Command TxFramesCtrlReq process completed
0:29:17.687640	LOG	Send Test Command TxFramesCtrlReq process starts
0:29:18.097714	LOG	GPS Time updated: 1385120901328
0:29:18.098708	LOG	PULL_DATA: 02 5ad1 02 0016c001ff1025bf
0:29:18.100709	LOG	PULL_ACK: 02 5ad1 04
0:29:22.554403	LOG	First uplink received. Open reception window.
0:29:22.669912	LOG	PUSH_ACK: 02 c505 01
0:29:22.671881	LOG	GPS Time from gateway: 1385120905790
0:29:22.672915	LOG	PUSH_DATA: Protocol version = 02, Token = c505, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2474968029, 'time': '2023-11-27T11:48:06.789813Z', 'tmms': 1385120905790, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA3gkC2WJbjilyhm53Bo4='}]}
0:29:22.673918	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09de, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6e77068e)
0:29:22.675914	LOG	Server <-------------------- DUT
0:29:22.677419	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0692, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 091643dc)
0:29:22.679446	LOG	Frame command sent to the DUT
0:29:22.680456	LOG	PULL_RESP: Protocol version = 02, Token = ada3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2476968029, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAkgbgSjGVyJ/3oo+UbCxpp/FkTxlkQ8k0mJZ9qbueyulCZaUMjvNzMfleycdOgQRuuRaFL5jY9QAulKiUMzDyrWDG5yu+PdIh+cKShSdA1N5Sia9NjWtqq1YD6qjG4jS1OR1qZHH2MReeSo9gtvhbDnafN3+AWajVPt/lTgQVIyNuWHg70GkTRztTr9JSCjuFoNYICqKs9vPHjNvhEP5rlOnrE8n5lt1oHSqgo+TDSBQA+WljvDbrRMhtuCFRdEjAS5yoBKakNjXqSNWDvZntLm2mMGbzmMj+1Qah42IQTaz/f71jiM5xBFRJuqYzWhw9VCfHS2YJFkPc'}}
0:29:22.682423	LOG	Server --------------------> DUT
0:29:22.685440	LOG	Send Test Command TxFramesCtrlReq process completed
0:29:22.690423	LOG	Send Test Command TxFramesCtrlReq process starts
0:29:27.552556	LOG	First uplink received. Open reception window.

0:29:27.658304	LOG	PUSH_ACK: 02 704f 01
0:29:27.660301	LOG	GPS Time from gateway: 1385120910789
0:29:27.661308	LOG	PUSH_DATA: Protocol version = 02, Token = 704f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2479967767, 'time': '2023-11-27T11:48:11.789549Z', 'tmms': 1385120910789, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA3wkCbaxgj7P5nr8AELc='}]}
0:29:27.663271	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09df, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: bf0010b7)
0:29:27.664270	LOG	Server <-------------------- DUT
0:29:27.666270	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0693, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 5a53f01a)
0:29:27.668310	LOG	Frame command sent to the DUT
0:29:27.669310	LOG	PULL_RESP: Protocol version = 02, Token = e2d6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2481967767, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAkwbgYPcQUwhtbH/QfTXgnVh9O5HE3X4vYPGvdcc1oDPGzn4Bbfuhjn+ijEC2nEvXr6OYvefld1PmCQuT+LDBHBIL5iG3O+GNgZKOjr/YYewQtmL3bb38SIlufoBTqTq9xzo141iD0EzSs6CJzGkM5fyhQjHgX5sTN/YsSvwLwuIkxn/WS86v8nYI608MEM9XJFpbUyTnsM/5sCcpWS2pW/LYGAIz88tV8yZjz5TOD6+b81sZxefHb1FtP29nknKLCtH17/U1D8HB1dhC8BhPgGChDzsLE8ohct+uokkl4iZfj+HFmwWnyPV9wjJQejXxGf7nq9xaU/Aa'}}
0:29:27.670309	LOG	Server --------------------> DUT
0:29:27.673278	LOG	Send Test Command TxFramesCtrlReq process completed
0:29:27.677273	LOG	Send Test Command TxFramesCtrlReq process starts
0:29:28.297536	LOG	GPS Time updated: 1385120911533
0:29:28.298536	LOG	PULL_DATA: 02 292e 02 0016c001ff1025bf
0:29:28.299537	LOG	PULL_ACK: 02 292e 04
0:29:32.555290	LOG	First uplink received. Open reception window.
0:29:32.656930	LOG	PUSH_ACK: 02 632c 01
0:29:32.658930	LOG	GPS Time from gateway: 1385120915789
0:29:32.659912	LOG	PUSH_DATA: Protocol version = 02, Token = 632c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2484967512, 'time': '2023-11-27T11:48:16.789295Z', 'tmms': 1385120915789, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA4AkCPOGQt5l3TCvDwtA='}]}
0:29:32.661899	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09e0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2bc3c2d0)
0:29:32.662896	LOG	Server <-------------------- DUT
0:29:32.664924	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0694, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101

		0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: e6bc4e9b)
0:29:32.666930	LOG	Frame command sent to the DUT
0:29:32.667929	LOG	PULL_RESP: Protocol version = 02, Token = b06e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2486967512, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAlAbgCxwa7xRIr+1YNwGdVogea2b4a9zI9iEtEYjsBYuovVFaoGMe3zYMNSeSjVJecjwWLLAheB1AZUR5CPDSQFBQcr76s95VyA4zLZ+wpVB9OexKJNWKu0sUyZ8O2QnJfghLepGLzeAf1/QmSWdxIALjFQllZKas485zZ0QiwfmJNKHfivsKmnSX6wqnpyZW3M//KG+LqLwJAq3lPNWzFm165IV/8qhh2zZoVsDdzKFQvUejbXj3SrfdocI5y/TaUpJf01ra+Im+Nfhlpdwd5Xi4qqfFrKzFXUCjBlSGA5qF0u5IsWZt6YdURYPm/GVbzIC0/rjmvE6b'}}
0:29:32.668929	LOG	Server --------------------> DUT
0:29:32.671896	LOG	Send Test Command TxFramesCtrlReq process completed
0:29:32.675902	LOG	Send Test Command TxFramesCtrlReq process starts
0:29:37.551863	LOG	First uplink received. Open reception window.
0:29:37.661021	LOG	PUSH_ACK: 02 6c63 01
0:29:37.663021	LOG	GPS Time from gateway: 1385120920789
0:29:37.664058	LOG	PUSH_DATA: Protocol version = 02, Token = 6c63, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2489967290, 'time': '2023-11-27T11:48:21.789072Z', 'tmms': 1385120920789, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA4QkCoqDgJvvwNFEAp24='}]}
0:29:37.666058	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09e1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5100a76e)
0:29:37.667040	LOG	Server <-------------------- DUT
0:29:37.669022	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0695, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: de4a07c4)
0:29:37.671021	LOG	Frame command sent to the DUT
0:29:37.672022	LOG	PULL_RESP: Protocol version = 02, Token = 53ba, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2491967290, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAlQbgEJrOAiThlRymgx3ts5Nxe79QjiUD+yf53poljKK0FoptpVLUXJ0FS9N+fgfFgap0d8MMJB6wliQeuVTvloWah4FHdPKDqa7UgkC2/lTQwiJMdFXcfDwMMxm2YZqOjtqZcCz8S+e56VrsInzUIUsqKKWlYZLVWLKspaBOjEziwnld6ZNOxdBcjnnfWFaM9H1U7u1Dfl4s402y65toQD8iouuj+J8evbGjlhHIFNgBOCnO/9FO+02FEQ7NaUm8w7iAjSXXtNN+iiKet3UxYL6xKo9Dy2hdK8hKMJ/atBuVlC5t1s4aigD9MdBdm5vutlcx9WreSgfE'}}
0:29:37.674021	LOG	Server --------------------> DUT
0:29:37.677027	LOG	Send Test Command TxFramesCtrlReq process completed
0:29:37.680028	LOG	Send Test Command TxFramesCtrlReq process starts
0:29:38.507028	LOG	GPS Time updated: 1385120921746
0:29:38.508027	LOG	PULL_DATA: 02 9fd1 02 0016c001ff1025bf
0:29:38.510028	LOG	PULL_ACK: 02 9fd1 04
0:29:42.549789	LOG	First uplink received. Open reception window.
0:29:42.661312	LOG	PUSH_ACK: 02 49d6 01
0:29:42.663312	LOG	GPS Time from gateway: 1385120925789

0:29:42.664315	LOG	PUSH_DATA: Protocol version = 02, Token = 49d6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2494967028, 'time': '2023-11-27T11:48:26.788809Z', 'tmms': 1385120925789, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA4gkCM3B2Gc0WqyYx6dY='}]}
0:29:42.666317	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09e2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2631e9d6)
0:29:42.667292	LOG	Server <-------------------- DUT
0:29:42.669281	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0696, FOpts:), FPort: e0, FRMPayload: 070001), MIC: c555ed74)
0:29:42.671280	LOG	Frame command sent to the DUT
0:29:42.672312	LOG	PULL_RESP: Protocol version = 02, Token = 1f76, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2496967028, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAlgbg0RAlJOLB/AGKFzkm8je+xWf5trijYNCZndt3221kuCWEN7MnuubdQMFhefFtSifoFnlN35PLc797OMnPyok7IykqTrrqeVruY7qDr+QNy6JTx3fBgD24mkN65VJS+KP4okpQ+JoZTWEgK50zn71VFmUxPxUY2oRYxsk6GHzjzxCjmd6zQuO00AAy+4FFJc94MOhpZ6VkdG7fAV9rLFgwjymj0kN8HTGOZyYrIisD29hlC6eBNvCSghn6PiqxwgHeUQJfjJPKW6ekxdjSoDuaq6K9J32Yrr9Nv0XlJq6Ty5yeOcXKXoys47qx4ITwZbPgGKHFVe10'}}
0:29:42.673315	LOG	Server --------------------> DUT
0:29:42.676283	LOG	Send Test Command TxFramesCtrlReq process completed
0:29:42.680302	LOG	Send Test Command TxFramesCtrlReq process starts
0:29:47.548900	LOG	First uplink received. Open reception window.
0:29:47.662539	LOG	PUSH_ACK: 02 c21e 01
0:29:47.664539	LOG	GPS Time from gateway: 1385120930788
0:29:47.665546	LOG	PUSH_DATA: Protocol version = 02, Token = c21e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2499966804, 'time': '2023-11-27T11:48:31.788584Z', 'tmms': 1385120930788, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA4wkCmgT3A2wimeZ9YjA='}]}
0:29:47.667505	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09e3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e67d6230)
0:29:47.668505	LOG	Server <-------------------- DUT
0:29:47.670511	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0697, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 64bee52a)
0:29:47.672505	LOG	Frame command sent to the DUT
0:29:47.673505	LOG	PULL_RESP: Protocol version = 02, Token = 51a6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2501966804, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data':

		'YAAAAAAAlwbgx/ooonvFfRfG8L85qu3qUeXlJsLU5bkngEabsVX9IHOIEUbR2UprCBAUGEVTbiDaQJlK8Oyt/9KNw38R8tfKgCCzBI7RgKmkH/6/ROYqk0Va4rVzuV1naingVBZ+ngqzhDQ82ujpNCJaNFMXVHjJrEDvTzZmgiE8H6sxD6YO96v2s0jMsQSb4RqqpA0Ra9gOI1ExshgGwsHI67/5d54MPEymXCG1urbs32GPiw+iX6jEQZ/bXe2RdfAmoqPKxrVIDHjMtUnadFIWKTBqKQm7wq+VFTk7X4cOOsdrVgP44wpy26fQEm4wZvNxYBZAjZIGC3lkvuUq'}}
0:29:47.675505	LOG	Server --------------------> DUT
0:29:47.678512	LOG	Send Test Command TxFramesCtrlReq process completed
0:29:47.681506	LOG	Send Test Command TxFramesCtrlReq process starts
0:29:48.516533	LOG	GPS Time updated: 1385120931757
0:29:48.518533	LOG	PULL_DATA: 02 8932 02 0016c001ff1025bf
0:29:48.519500	LOG	PULL_ACK: 02 8932 04
0:29:52.551618	LOG	First uplink received. Open reception window.
0:29:52.662567	LOG	PUSH_ACK: 02 61f0 01
0:29:52.664569	LOG	GPS Time from gateway: 1385120935788
0:29:52.665568	LOG	PUSH_DATA: Protocol version = 02, Token = 61f0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2504966538, 'time': '2023-11-27T11:48:36.788317Z', 'tmms': 1385120935788, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA5AkC7q84pT324b5juFU='}]}
0:29:52.667587	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09e4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: be63b855)
0:29:52.668568	LOG	Server <-------------------- DUT
0:29:52.670537	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0698, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 1ed7536b)
0:29:52.672538	LOG	Frame command sent to the DUT
0:29:52.673534	LOG	PULL_RESP: Protocol version = 02, Token = ffe2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2506966538, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAmAbgOnrTIbFN7J8WiyI6qt/ItvzZjKH2XhJ68GJOmrmKDYIaLGhXeCHQZVywpZI+67x2SxFUivzWsy9/FB0eU3PZo7MzYkiooDfTA+Mm7ZcgTZMRyO8NSTQ0KigRY1q/4g8No3KUECYs/2kCDEvTMOY0VKCY6n2pR4OMby3VXjdGs/iwoKNeDspfPXl6EZkD9e0bw3suN/Gb72gDEUIB2hKRErhBtSYh7CgTHF55BANW8Y+EvEkhm/9OMiF1jdPLMWTxpPtu5t48cQfGAnTgF4W9JawriorXyk+mCM1ECAIO/iqv4Z5v7ie2qu9+7Gu8qZkeADAe11Nr'}}
0:29:52.675534	LOG	Server --------------------> DUT
0:29:52.678534	LOG	Send Test Command TxFramesCtrlReq process completed
0:29:52.681569	LOG	Send Test Command TxFramesCtrlReq process starts
0:29:57.546925	LOG	First uplink received. Open reception window.
0:29:57.652473	LOG	PUSH_ACK: 02 031b 01
0:29:57.654507	LOG	GPS Time from gateway: 1385120940788
0:29:57.655509	LOG	PUSH_DATA: Protocol version = 02, Token = 031b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2509966302, 'time': '2023-11-27T11:48:41.788079Z', 'tmms': 1385120940788, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA5QkCFGh9awNaEYxJY2Q='}]}
0:29:57.657509	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09e5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8c496364)

0:29:57.658509	LOG	Server <-------------------- DUT
0:29:57.660476	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0699, FOpts:), FPort: e0, FRMPayload: 070001), MIC: e714a121)
0:29:57.662476	LOG	Frame command sent to the DUT
0:29:57.663508	LOG	PULL_RESP: Protocol version = 02, Token = 8426, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2511966302, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAmQbgdDMwnlkszVbv1i5op5Dm9zYmQlxMLd8crg9cg7Gpby+s35BSw30ANXP27QHNmmGepDu75atnRRCxvThc66PhZFeoXTinmRxeA0CCKaCaDJeJhcIDEOs8dXQfU79U9f8RU/LlgBXQBiPLXHVfJzbLlodKmjVer97jZvhUnz9A/UDTnxVrPQB5BjUiYhNIqFXBrBeuXGvTs26n+fZWyh6dqJXc62vwILKpDX7cRXvLLFWKVuPLEA6T6yT3MEuivCFzctokW3sshLDGTybKOdldRVsyNMVWlaFBsff18TnOw5QsNysQc1iRxgiaee3VUGbkTdDnFKEh'}}
0:29:57.664507	LOG	Server --------------------> DUT
0:29:57.667518	LOG	Send Test Command TxFramesCtrlReq process completed
0:29:57.671475	LOG	Send Test Command TxFramesCtrlReq process starts
0:29:58.716596	LOG	GPS Time updated: 1385120941958
0:29:58.718564	LOG	PULL_DATA: 02 995f 02 0016c001ff1025bf
0:29:58.719564	LOG	PULL_ACK: 02 995f 04
0:30:02.547909	LOG	First uplink received. Open reception window.
0:30:02.652188	LOG	PUSH_ACK: 02 30f4 01
0:30:02.654181	LOG	GPS Time from gateway: 1385120945788
0:30:02.656155	LOG	PUSH_DATA: Protocol version = 02, Token = 30f4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2514966046, 'time': '2023-11-27T11:48:46.787824Z', 'tmms': 1385120945788, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA5gkC46QuHYap0OWB72I='}]}
0:30:02.657154	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09e6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e581ef62)
0:30:02.658153	LOG	Server <-------------------- DUT
0:30:02.660154	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 069a, FOpts:), FPort: e0, FRMPayload: 070001), MIC: e88e543c)
0:30:02.662187	LOG	Frame command sent to the DUT
0:30:02.663187	LOG	PULL_RESP: Protocol version = 02, Token = 4ba3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2516966046, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAmgbgZc8YCZB0gksssxEDtmANhWzdDeWRpQNIiTu8oPuqxpO9cWsOeqdR5w1Q2CCqXFqE1huYmHoNGW6T7EjtaJX7+DOJl4x7LixU1PsGltRe/DmUnld053pRnWOlqkc42mzA2spSNrUlbDzG0lf1CJsIIveKN7tL91CuWuIvWdsJ2BBCn5emOyb902d7SkxroeUL4i2815JUtD+SJjFAOCfaeb3qGVfD+Os0ZMGazx

		orEH1gJl5kaDX1il1wIJR2g9CH4ytgxpa12GEYnnLmT6eS6h0T6W2mpSoDOUbu2loBV8GPIcETYRjzsAlQCqSiNwL6MT/ojlQ8'}}
0:30:02.665186	LOG	Server --------------------> DUT
0:30:02.668191	LOG	Send Test Command TxFramesCtrlReq process completed
0:30:02.671154	LOG	Send Test Command TxFramesCtrlReq process starts
0:30:02.682189	LOG	TX_ACK: 02 4ba3 05 0016c001ff1025bf
0:30:07.555776	LOG	First uplink received. Open reception window.
0:30:07.656298	LOG	PUSH_ACK: 02 30f5 01
0:30:07.658263	LOG	GPS Time from gateway: 1385120950787
0:30:07.660266	LOG	PUSH_DATA: Protocol version = 02, Token = 30f5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2519965783, 'time': '2023-11-27T11:48:51.787560Z', 'tmms': 1385120950787, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA5wkCgHQZrEUzkzSN/hA='}]}
0:30:07.661264	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09e7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 348dfe10)
0:30:07.662263	LOG	Server <-------------------- DUT
0:30:07.664264	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 069b, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 14bff39a)
0:30:07.666265	LOG	Frame command sent to the DUT
0:30:07.667299	LOG	PULL_RESP: Protocol version = 02, Token = 15c0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2521965783, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAmwbg0ZwaooW82RVuoeMAiy5A1ncEHV7MjsPjiRL8Ugw3lTJ+Louc7VESmvZTXrDQLUOhAXO6RwjrOYQWquZ+lwd/FcpQG+gk2POpbdGxFEJ3bR01ahXqxoa1zn5IU7JmHvswdLmAbYkrfllKG4LkuOcZsGZKEtB7VtD312n5lXJb0LT5b2cNxiSOusEKO9+hTBW0TY/OVwdRx14ud8wyFEPre+9NS8RFNPm3jALAkgQ8+UDjpmr+f8RPnYl1kapeeOk0luXJthXUsBu3nuuyBsXG714MyT7xYSuau1YAxgLvKSEOLnHLutYGOGjt1Don7hVjkrcUv/Oa'}}
0:30:07.668297	LOG	Server --------------------> DUT
0:30:07.671266	LOG	Send Test Command TxFramesCtrlReq process completed
0:30:07.675286	LOG	Send Test Command TxFramesCtrlReq process starts
0:30:08.716552	LOG	GPS Time updated: 1385120951948
0:30:08.718551	LOG	PULL_DATA: 02 f9ca 02 0016c001ff1025bf
0:30:08.719555	LOG	PULL_ACK: 02 f9ca 04
0:30:12.546396	LOG	First uplink received. Open reception window.
0:30:12.657557	LOG	PUSH_ACK: 02 4169 01
0:30:12.659560	LOG	GPS Time from gateway: 1385120955787
0:30:12.660594	LOG	PUSH_DATA: Protocol version = 02, Token = 4169, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2524965538, 'time': '2023-11-27T11:48:56.787314Z', 'tmms': 1385120955787, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA6AkCriAQItKab9Jsr+A='}]}
0:30:12.662560	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09e8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d26cafe0)
0:30:12.663593	LOG	Server <-------------------- DUT
0:30:12.665591	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 069c, FOpts:), FPort: e0, FRMPayload:

		070001010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 6c193c3e)
0:30:12.666591	LOG	Frame command sent to the DUT
0:30:12.668559	LOG	PULL_RESP: Protocol version = 02, Token = 9f2d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2526965538, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAnAbgXYPadiMBkv+7y0/ed43UgL49voT03nhlhxoBUgN4G/NlnT6ue3w4YNdYnVflFEnGQSsfcFm5b2vBJTr3QbapdOYguhNkmW/k+1pGCplTt9yezBxb+aoxVAfexY1Do93wUWavJdfDldLI2gxwMPqIYEPTVEqObci4Imy5I7ZKwvwx+x28bNwwg5qwrRQoh0ffSv+8+QHS59E96sg3tNT38cNACz4Hqmh3Ink0/UjjY6+SpqEOy5p6KO/pfxub7pl22wwU9Gt5Ia2pNrI9QCxDiHi/sIWksfivuBdIs12DvGofUSPOcYZ6oECo3hKLDxLn+shsGTw+'}}
0:30:12.669594	LOG	Server --------------------> DUT
0:30:12.672560	LOG	Send Test Command TxFramesCtrlReq process completed
0:30:12.675569	LOG	Send Test Command TxFramesCtrlReq process starts
0:30:17.556260	LOG	First uplink received. Open reception window.
0:30:17.661274	LOG	PUSH_ACK: 02 196b 01
0:30:17.663247	LOG	GPS Time from gateway: 1385120960787
0:30:17.665267	LOG	PUSH_DATA: Protocol version = 02, Token = 196b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2529965267, 'time': '2023-11-27T11:49:01.787042Z', 'tmms': 1385120960787, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA6QkCkPh+mix3fe5p19w='}]}
0:30:17.666243	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09e9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ee69d7dc)
0:30:17.668243	LOG	Server <-------------------- DUT
0:30:17.669245	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 069d, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: dc3f07f5)
0:30:17.671275	LOG	Frame command sent to the DUT
0:30:17.672275	LOG	PULL_RESP: Protocol version = 02, Token = e575, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2531965267, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAnQbgSyFqmrUfZ1LCvbLUUGQVid5lEh6DYbj4wDMu1/TRCcEijBwoTJtBq47yo604aay71loX8PgpX+tQoDiiZAvCQtXlhvcDr4FItVz5ZoGn5YYKTHtsWrDX9Cib35K9nW8B9G/EB32ZR6jag60trJngiVNJXxvZzDylVNwgpf7Bp8Av3rUpMCnQY/x3+g4Umn7cfkWdCgTOUWOBl07oxxARxSTol9HUgXmY6KxjoVWZ3ZuXJh3Ig538GvRjSD+oZSCcMWxAAjaC/SBzwQm5Vp/VXSluMzhy74hxK2eBFt17l9FfsZL8IOjcpk5l+GfXYXQ57NncPwf1'}}
0:30:17.674260	LOG	Server --------------------> DUT
0:30:17.676278	LOG	Send Test Command TxFramesCtrlReq process completed
0:30:17.680241	LOG	Send Test Command TxFramesCtrlReq process starts
0:30:18.727326	LOG	GPS Time updated: 1385120961958

0:30:18.728293	LOG	PULL_DATA: 02 987d 02 0016c001ff1025bf
0:30:18.730294	LOG	PULL_ACK: 02 987d 04
0:30:22.551755	LOG	First uplink received. Open reception window.
0:30:22.661592	LOG	PUSH_ACK: 02 9704 01
0:30:22.663559	LOG	GPS Time from gateway: 1385120965787
0:30:22.664560	LOG	PUSH_DATA: Protocol version = 02, Token = 9704, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2534965013, 'time': '2023-11-27T11:49:06.786786Z', 'tmms': 1385120965787, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA6gkC0XzMUCxMC87SWr4='}]}
0:30:22.666560	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09ea, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ced25abe)
0:30:22.667560	LOG	Server <-------------------- DUT
0:30:22.669578	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 069e, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 3d42ee7b)
0:30:22.670593	LOG	Frame command sent to the DUT
0:30:22.672593	LOG	PULL_RESP: Protocol version = 02, Token = 5640, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2536965013, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAngbg0gHApLi5V9dGj2MiUZyGDzBJxDNp6AP0Rq1/xMalsupOOLM1z4XYiCwhHUlEluW2I1vx1gYLVXpk+YUBPGlPW4BXfEYSNsitrvxqXDQlO1O92tULfMx+vizb1m8wSqg8xip8tPty+WCJZvMY6tVyaj5fCAvqDRArE2+PUM12KIaTQ8HOZItaAAt3PdgrA+nMmH5SQAZN+VTZgvk75JTRc41OlNs79U63fOI12TiOSHBnh+Ep0vG9gX8UpCHUn4+ukCi31qNEF4trTNCjtKb6d49Z1E8tGnS5ZK2r+pSSO7M2cGqwi5xlWvgkBT0E20Ki6yk9Qu57'}}
0:30:22.673593	LOG	Server --------------------> DUT
0:30:22.676563	LOG	Send Test Command TxFramesCtrlReq process completed
0:30:22.680568	LOG	Send Test Command TxFramesCtrlReq process starts
0:30:27.551251	LOG	First uplink received. Open reception window.
0:30:27.663885	LOG	PUSH_ACK: 02 d62a 01
0:30:27.665887	LOG	GPS Time from gateway: 1385120970786
0:30:27.666885	LOG	PUSH_DATA: Protocol version = 02, Token = d62a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2539964781, 'time': '2023-11-27T11:49:11.786555Z', 'tmms': 1385120970786, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3377, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA6wkCCEKGxN/mnOZpZHg='}]}
0:30:27.668853	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09eb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e6696478)
0:30:27.669863	LOG	Server <-------------------- DUT
0:30:27.671879	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 069f, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101

		01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 8bc07f24)
0:30:27.673885	LOG	Frame command sent to the DUT
0:30:27.674885	LOG	PULL_RESP: Protocol version = 02, Token = 54e2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2541964781, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAnwbgk+M7Jebe0e59A22FfVIXfwes9mVmHbOwp2tuyJEDlLm8mg6w3u8FEROdunLoF43M4/7zDG22nK79j4Ro8u2Ss05JNOYISmj2TqPHwPwbjrStYpDpMaw56spcdj5BSpzD/FMcJuCLoZ5PQSr9Ee9VAKJi9Bc6/GYp3bELHL+IUdL1mAhU1G4khZ8jmqVBupxgYTLZ6fYIY87xp9O6tRFBo7H+V2osKjcrsWb8jLz+lQMzgEvwTrWMGVH8DthGfU/BRfbEryNAzYOtNDnptqZWnNoA4gsOPvp2A5ERk81hMGg54Q3k0V0Hcd8ETY8jY7+9n4iLwH8k'}}
0:30:27.675885	LOG	Server --------------------> DUT
0:30:27.678867	LOG	Send Test Command TxFramesCtrlReq process completed
0:30:27.682855	LOG	Send Test Command TxFramesCtrlReq process starts
0:30:27.693888	LOG	TX_ACK: 02 54e2 05 0016c001ff1025bf
0:30:28.936885	LOG	GPS Time updated: 1385120972171
0:30:28.937865	LOG	PULL_DATA: 02 0c98 02 0016c001ff1025bf
0:30:28.939846	LOG	PULL_ACK: 02 0c98 04
0:30:32.547720	LOG	First uplink received. Open reception window.
0:30:32.651789	LOG	PUSH_ACK: 02 4895 01
0:30:32.653755	LOG	GPS Time from gateway: 1385120975786
0:30:32.655794	LOG	PUSH_DATA: Protocol version = 02, Token = 4895, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2544964553, 'time': '2023-11-27T11:49:16.786326Z', 'tmms': 1385120975786, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA7AkCsJAUEPGGnR0nxkI='}]}
0:30:32.656790	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09ec, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1d27c642)
0:30:32.657790	LOG	Server <-------------------- DUT
0:30:32.659761	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06a0, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 3fd40cfb)
0:30:32.661755	LOG	Frame command sent to the DUT
0:30:32.663755	LOG	PULL_RESP: Protocol version = 02, Token = 29fe, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2546964553, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAoAbgwBHIfWSrmDJ66uJGuv0qydgaMN7Hp/kLmtZ4JzZjFGgnACxqhFj9bqy/4jISbutiswnV6H4i1H1Cz7t9Q9S0QtihHVxcsDQn7n8LGf8usCQCj7yjBaxHcs2SrZQPpgvBce1IxMymfr9qK/ckHqRHYJYcGzNl6+ARJ2CVK94Rmnu3RjRLFfPZNP3ZjzzuTL8HHwd0Jg0FWoz86MVZ11QdtmzUGDphDWcD7WMzeQFYU4Hr3Jxc052tVR15B6FledAyhh0rD1wRgCKMgfyViiiBR6f1ucF8X9ew8pJIjF152J/Olm3rbZbYmzoB6QBiAhL3Fu8/1Az7'}}
0:30:32.664756	LOG	Server --------------------> DUT
0:30:32.667756	LOG	Send Test Command TxFramesCtrlReq process completed
0:30:32.671757	LOG	Send Test Command TxFramesCtrlReq process starts
0:30:37.554039	LOG	First uplink received. Open reception window.
0:30:37.659692	LOG	PUSH_ACK: 02 caa9 01

0:30:37.661693	LOG	GPS Time from gateway: 1385120980786
0:30:37.662662	LOG	PUSH_DATA: Protocol version = 02, Token = caa9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2549964326, 'time': '2023-11-27T11:49:21.786098Z', 'tmms': 1385120980786, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3385, 'rssi': - 51, 'size': 20, 'data': 'QAAAAACA7QkCx2Gl95e0QqtpqtE='}]}
0:30:37.664686	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09ed, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ab69aad1)
0:30:37.665660	LOG	Server <-------------------- DUT
0:30:37.667660	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06a1, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 5ecae2db)
0:30:37.669692	LOG	Frame command sent to the DUT
0:30:37.670695	LOG	PULL_RESP: Protocol version = 02, Token = cff7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2551964326, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAoQbgd4+rkuyNGzQIMgUDWxYtyFk4HvYps4rdmVyASpSBA9k10 ITZSTGecYh7u4IDNB5ZMMHkU+nPPPIHidDr/Og9aCIqKK4axfAaXtJ2azvKGh BrMi0KtJhvDghrc0K5mSLiM6g0quLlzKkUzlxQwifpLY1z0MRJUWKyf4m1xLS P4XrwZ4sFentWqclG+2zWqEyf8RB3GmBWl7SHBEUnfwDjorQJOZl0vOXOUV 5E/fEQSHs7MgSAbsMbDpAtUb1CwGILgicLPR/V2jD/LV2UmDdgZSUKFARjrk kH7T5BSHdlmU9poiwlnqCFyVOUylF7guZjINdeyuLb'}}
0:30:37.671692	LOG	Server --------------------> DUT
0:30:37.675666	LOG	Send Test Command TxFramesCtrlReq process completed
0:30:37.678660	LOG	Send Test Command TxFramesCtrlReq process starts
0:30:39.136791	LOG	GPS Time updated: 1385120982367
0:30:39.137795	LOG	PULL_DATA: 02 85d2 02 0016c001ff1025bf
0:30:39.139796	LOG	PULL_ACK: 02 85d2 04
0:30:42.550768	LOG	First uplink received. Open reception window.
0:30:42.659734	LOG	PUSH_ACK: 02 eb88 01
0:30:42.661703	LOG	GPS Time from gateway: 1385120985786
0:30:42.662734	LOG	PUSH_DATA: Protocol version = 02, Token = eb88, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2554964096, 'time': '2023-11-27T11:49:26.785867Z', 'tmms': 1385120985786, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3370, 'rssi': - 51, 'size': 20, 'data': 'QAAAAACA7gkC+uNV8SSUM+s6xQU='}]}
0:30:42.664725	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09ee, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: eb3ac505)
0:30:42.665734	LOG	Server <-------------------- DUT
0:30:42.667735	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06a2, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: b8541ee7)

0:30:42.668734	LOG	Frame command sent to the DUT
0:30:42.670750	LOG	PULL_RESP: Protocol version = 02, Token = 3bba, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2556964096, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAogbgfhYSeYvJMYsg7VGGzvqxDKs8z8Lsfy5cCkFRD7fDvZpigyogC9hz/H7F/zh6OpKXQsy/Rp9n6+pE5raiqQnUqDW8x4Wtv++oV/MSjvpS5laSgbPXT7DBkNi0zTol9RVVzPqC3olXsDCEGRQjhw7Z8yWh+mQAFXhc01/GFXrWBEuGmjQKVv8ypdSCNkaF35etm3Hl4KAELczUNgV62waEqdVpdyGatPKqBfUqI+hgg9hmUYCwrmTWlunmmcevLsyNItF8W77H2xb5wc4hjKxF6Pe+Wcu8wf2J4xRcNb5KFGpQq3PZJ6/aH7ObTMsN2yWu8Ly4VB7n'}}
0:30:42.671734	LOG	Server --------------------> DUT
0:30:42.674703	LOG	Send Test Command TxFramesCtrlReq process completed
0:30:42.678701	LOG	Send Test Command TxFramesCtrlReq process starts
0:30:47.548939	LOG	First uplink received. Open reception window.
0:30:47.649519	LOG	PUSH_ACK: 02 ee84 01
0:30:47.651487	LOG	GPS Time from gateway: 1385120990785
0:30:47.652486	LOG	PUSH_DATA: Protocol version = 02, Token = ee84, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2559963863, 'time': '2023-11-27T11:49:31.785633Z', 'tmms': 1385120990785, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA7wkCulUPemuBScHVIoU='}]}
0:30:47.654488	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09ef, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c1d52285)
0:30:47.655488	LOG	Server <-------------------- DUT
0:30:47.657488	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06a3, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 1c4a2d84)
0:30:47.658486	LOG	Frame command sent to the DUT
0:30:47.659991	LOG	PULL_RESP: Protocol version = 02, Token = cebd, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2561963863, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAowbg3D/7nkovTRW+EtBNtfKlCxuo65kbnDiUMXuxhYxfzxDTFH/hL6Po80yuL4e1NV703MlCHG6lmtYMjB4gIABTsaxMgUIE9v+HKi65wv8eiONwZWftaPX/gedkiA7LGMTzrBkuBMIXm2Q3lJDsMH/eJ5OIdGfwS8by75c+i9/gJMzRupnYgsyjA7OAH7H/qUgWwSOBnjhXlblbW4kCfpzWVAIr5V4Qknx2IR81Lcy5xSn+guJqRBsskeA6giPhXq1FPzc/B7KwkzhAtETozFHcuAdoeXXL+SHPC0k/uDR7MUNJW0Y760jDeoueqzUWCyC2IxAcSi2E'}}
0:30:47.661995	LOG	Server --------------------> DUT
0:30:47.663996	LOG	Send Test Command TxFramesCtrlReq process completed
0:30:47.667994	LOG	Send Test Command TxFramesCtrlReq process starts
0:30:49.336578	LOG	GPS Time updated: 1385120992574
0:30:49.338543	LOG	PULL_DATA: 02 e71e 02 0016c001ff1025bf
0:30:49.339543	LOG	PULL_ACK: 02 e71e 04
0:30:52.553879	LOG	First uplink received. Open reception window.
0:30:52.664625	LOG	PUSH_ACK: 02 7817 01
0:30:52.666665	LOG	GPS Time from gateway: 1385120995785
0:30:52.667663	LOG	PUSH_DATA: Protocol version = 02, Token = 7817, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2564963608, 'time': '2023-11-27T11:49:36.785376Z',

		'tmms': 1385120995785, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA8AkCfUEEOY8XmYY8/dA='}]}
0:30:52.669647	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09f0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 863cfdd0)
0:30:52.670630	LOG	Server <-------------------- DUT
0:30:52.672649	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06a4, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 763bd75e)
0:30:52.674670	LOG	Frame command sent to the DUT
0:30:52.675666	LOG	PULL_RESP: Protocol version = 02, Token = 2499, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2566963608, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAApAbg9/8mvyy9GFrbtVwG530oZIaa2h4KfNCIOvyTHwG2HUT26TpgAGrajPDF6/9jEQpmIt6CQe7jbO8tkHgC/8l4q12bcw2vmqnu5MUMQWAqoigUSWhVRrS0bObsJHVFEjmRkWJOAHOKj/ftR77kCcpiDHNGJfK0cDszZY2/jCPT4+qNAanIVAvXl7q2nZ4T2nKa2L4VmjcRJjMkarbLEN5620997eA+9XFFQN6odBAeYb9fsY2Fw9hbIOTqBy+m9p2ZKykoGCngDGGaDMznJKMnMnpn3Sqg/1hZaRKVx07VFMfjw2bfxTjI6TaL+wTgy9HPU0F2O9de'}}
0:30:52.676663	LOG	Server --------------------> DUT
0:30:52.679631	LOG	Send Test Command TxFramesCtrlReq process completed
0:30:52.682630	LOG	Send Test Command TxFramesCtrlReq process starts
0:30:57.544980	LOG	First uplink received. Open reception window.
0:30:57.645614	LOG	PUSH_ACK: 02 e155 01
0:30:57.647604	LOG	GPS Time from gateway: 1385121000785
0:30:57.648605	LOG	PUSH_DATA: Protocol version = 02, Token = e155, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2569963382, 'time': '2023-11-27T11:49:41.785151Z', 'tmms': 1385121000785, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA8QkCSSHflOa87m5HYGY='}]}
0:30:57.650577	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09f1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6e476066)
0:30:57.651577	LOG	Server <-------------------- DUT
0:30:57.653638	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06a5, FOpts:), FPort: e0, FRMPayload: 070001), MIC: a1cc43b3)
0:30:57.655625	LOG	Frame command sent to the DUT
0:30:57.656664	LOG	PULL_RESP: Protocol version = 02, Token = dcf2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2571963382, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAApQbg2UUQO7E6f1JtPZJhPTph4bhwkBSkicXa5kInh3gGbGGI3FceRqlmcxn6l8sg8yrZBc5otNyCEnuDsi3zWNzJ5+7hWX9ZWpQYGZZ9S2NHEshIjf

		vCyn9Ehv4NwVLsHo71NI6MuHPXAfFEoI9hg35I8wvOnFKrH2VJLPEkUiL8b8V71vmuVqJc2h7CzYNORjAz64eCCcI6vzrsrg6tO37DWYqmde2rkDBA2GuDdJLUEdxEPrjWbvWeZAStm5R+4u9nbL/r7YA64OBNm8RFsEErS92aLPubQFdbL7ela9JssNoIVxbFsZNzAOLAHkXc8zz3+iqhzEOz'}}
0:30:57.657663	LOG	Server --------------------> DUT
0:30:57.660663	LOG	Send Test Command TxFramesCtrlReq process completed
0:30:57.664627	LOG	Send Test Command TxFramesCtrlReq process starts
0:30:59.546626	LOG	GPS Time updated: 1385121002788
0:30:59.548589	LOG	PULL_DATA: 02 dbfb 02 0016c001ff1025bf
0:30:59.549590	LOG	PULL_ACK: 02 dbfb 04
0:31:02.548159	LOG	First uplink received. Open reception window.
0:31:02.662038	LOG	PUSH_ACK: 02 c073 01
0:31:02.664036	LOG	GPS Time from gateway: 1385121005785
0:31:02.665036	LOG	PUSH_DATA: Protocol version = 02, Token = c073, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2574963155, 'time': '2023-11-27T11:49:46.784923Z', 'tmms': 1385121005785, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA8gkCDFfwLqfh8lMWsMg='}]}
0:31:02.667001	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09f2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5316b0c8)
0:31:02.668001	LOG	Server <-------------------- DUT
0:31:02.670003	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06a6, FOpts:), FPort: e0, FRMPayload: 070001), MIC: a6621f26)
0:31:02.671036	LOG	Frame command sent to the DUT
0:31:02.673003	LOG	PULL_RESP: Protocol version = 02, Token = 2e76, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2576963155, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAApgbgLKhuTqQozvStrK3eeJRM5YHOIFV2YinaiK3koO6vWmjSIWnANCIed0i3npndJ1FK2mzznH84ksCbCJcAxc0UWNPBmnY3vHmG092bFAyqcMkyE7BcI78P7gEAQSaeJuSlzGzq4Nz3UPaUIcguflKsLVwVf8czhL99cXpgoqIHUqc82XIP/6jG92GZq6cFkswTj7u5C3JL83sBdjnmlH7BAC5fp8/Sws7v2+hGJ1Fm7bArUWtiV/yQD+NuyY/Eeu1ZO3OjoSPBHiXUSTjOUmqxihQK2e/jGOfty46cl+FtNhS92PjvesP30Gs88olB3RsyxU+mYh8m'}}
0:31:02.674040	LOG	Server --------------------> DUT
0:31:02.676622	LOG	Send Test Command TxFramesCtrlReq process completed
0:31:02.680621	LOG	Send Test Command TxFramesCtrlReq process starts
0:31:07.550174	LOG	First uplink received. Open reception window.
0:31:07.652788	LOG	PUSH_ACK: 02 7857 01
0:31:07.654755	LOG	GPS Time from gateway: 1385121010784
0:31:07.655755	LOG	PUSH_DATA: Protocol version = 02, Token = 7857, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2579962897, 'time': '2023-11-27T11:49:51.784664Z', 'tmms': 1385121010784, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA8wkC23AUyJIHNQJDhtc='}]}
0:31:07.657758	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09f3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 024386d7)
0:31:07.658755	LOG	Server <-------------------- DUT

0:31:07.660755	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06a7, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 20953fa2)
0:31:07.661755	LOG	Frame command sent to the DUT
0:31:07.663789	LOG	PULL_RESP: Protocol version = 02, Token = 7254, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2581962897, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAApwbgWb5oygT0AAYMTBEggJ9JjPu7qa74lD+C9gbyCd9bv9OrXe ZNMBGWDtp+XPCvDaXrEDZyOyc4d/tOb0FQKPSqX+fI/N6o6PTFAS8mhGrC DJBWmWg20+nyX2Z3FB5191qwZL9A2uP7EM7cflo5cLsUMCjqFbg2lOBKYLk RqJb1+WujhxxMg5zEH0yPwpZW8We5r0LzqCFD9JCEr8BKUO2baTVQ29vYM 5xCM/nBq2szFCNNyOV/2LDv7d8X1/X8b1l/H6XFJK+97RNB1ZLZXGQbYaL0 OYZFfYhZsXzNMevIFr4IeCvjnsW4+elvMwz+r50ZSusglT+i'}}
0:31:07.664788	LOG	Server --------------------> DUT
0:31:07.667795	LOG	Send Test Command TxFramesCtrlReq process completed
0:31:07.671795	LOG	Send Test Command TxFramesCtrlReq process starts
0:31:09.556344	LOG	GPS Time updated: 1385121012790
0:31:09.557344	LOG	PULL_DATA: 02 7858 02 0016c001ff1025bf
0:31:09.559346	LOG	PULL_ACK: 02 7858 04
0:31:12.552952	LOG	#****************************CURRENT BEACON SENT***************************#
0:31:12.553984	LOG	PULL_RESP: Protocol version = 02, Token = ae67, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385121024000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAARY9STIcAAAAAAAAAAAA='}}
0:31:12.555951	LOG	Server --------------------> DUT
0:31:12.557952	LOG	#**#
0:31:12.566951	LOG	#****************************NEXT BEACON QUEUED****************************#
0:31:12.568950	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385121152000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACARY9SdFoAAAAAAAAAAAA='}}
0:31:12.569951	LOG	Server --------------------> DUT
0:31:12.570954	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 80458f52, CRC1: 745a, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385121152000
0:31:12.571955	LOG	#**#
0:31:12.573957	LOG	Next BEACON scheduled at GPS time (ms): 1385121280000
0:31:12.574954	LOG	First uplink received. Open reception window.
0:31:12.575967	LOG	TX_ACK: 02 ae67 05 0016c001ff1025bf
0:31:12.685726	LOG	PUSH_ACK: 02 8d4e 01
0:31:12.687234	LOG	GPS Time from gateway: 1385121015784
0:31:12.689268	LOG	PUSH_DATA: Protocol version = 02, Token = 8d4e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2584962636, 'time': '2023-11-27T11:49:56.784402Z', 'tmms': 1385121015784, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3377, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA9AkCJ/VkSNlFBjffdlk='}]}
0:31:12.690268	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09f4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 37df7659)
0:31:12.691268	LOG	Server <-------------------- DUT
0:31:12.693268	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06a8, FOpts:), FPort: e0, FRMPayload: 070001), MIC: a5149517)
0:31:12.695283	LOG	Frame command sent to the DUT
0:31:12.696267	LOG	PULL_RESP: Protocol version = 02, Token = 080b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2586962636, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAqAbgKxiXDelFUNrgx7A0/UenZk2rh5YKBCs+hx7thTkNM65LiD81n5+485JibjMfgTJKGU/A+ncV3+SypM3QQvBUxoZeXL5/yA/RUdKsxrbpNxNpFHk451zDG89IIZdJSGv1m1pa10O4IfIVcPqVifMQupJrHkLPf/bSbnmaX+EB1mJMxglpyT359ZD/KDJ+VbCdE9JxitoJve6D8UAjvP8IFqw3CSiipTioLkelTN0I0585FHuAGJofjy69BGkdNIiDfqf8ardTU3L3ibJFlXYNCBZRc2fr8Vfjmb6Ui+WtuBQdWZuR15UnS4YybEsqgHmMGDOlFJUX'}}
0:31:12.698234	LOG	Server --------------------> DUT
0:31:12.701236	LOG	Send Test Command TxFramesCtrlReq process completed
0:31:12.704267	LOG	Send Test Command TxFramesCtrlReq process starts
0:31:17.543796	LOG	First uplink received. Open reception window.
0:31:17.647041	LOG	PUSH_ACK: 02 8299 01
0:31:17.649008	LOG	GPS Time from gateway: 1385121020784
0:31:17.650041	LOG	PUSH_DATA: Protocol version = 02, Token = 8299, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2589962376, 'time': '2023-11-27T11:50:01.784141Z', 'tmms': 1385121020784, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA9QkC960Y+VbHTdjs+rA='}]}
0:31:17.652007	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09f5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d8ecfab0)
0:31:17.653005	LOG	Server <-------------------- DUT
0:31:17.655008	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06a9, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 92fa3e2f)
0:31:17.657032	LOG	Frame command sent to the DUT
0:31:17.658039	LOG	PULL_RESP: Protocol version = 02, Token = eb35, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2591962376, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAqQbgnpsQpWdtxc7HDOrhLKEzCWq6ZY1Y0MAplKQHbMY6a1W3H2j/ULNV9ypQjo9UiYG/m+SEPUkdvjre0KFu+7OZlVuk5aXHRoYm6STA4v9b/qXCX9DEYILzk8Cq0wrKCoJO1HVAHWjqm96JjMnykAMKe1pZkbEn2Y1ZJ

		5nCZvgBDiSS7neP4egUXswkzzWHs65Mv1z0E07q8J4tfOgiZaXLwOjIUjEdWm3n5qR7qccMNCCjf4dwNw/9vpoyBUkhfY84d4j/HQXhUR3hLyvmwrNNcqFb4g9lXhTF0eMy5kZzv0yMk02nONysYfWmh5/8mzOeJwqS+j4v'}}
0:31:17.659040	LOG	Server --------------------> DUT
0:31:17.662006	LOG	Send Test Command TxFramesCtrlReq process completed
0:31:17.666016	LOG	Send Test Command TxFramesCtrlReq process starts
0:31:19.756847	LOG	GPS Time updated: 1385121022998
0:31:19.757847	LOG	PULL_DATA: 02 e6ca 02 0016c001ff1025bf
0:31:19.759850	LOG	PULL_ACK: 02 e6ca 04
0:31:22.545976	LOG	First uplink received. Open reception window.
0:31:22.661945	LOG	PUSH_ACK: 02 2eb1 01
0:31:22.663914	LOG	GPS Time from gateway: 1385121025784
0:31:22.664913	LOG	PUSH_DATA: Protocol version = 02, Token = 2eb1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2594962146, 'time': '2023-11-27T11:50:06.783909Z', 'tmms': 1385121025784, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3385, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA9gkCTX4y1LqRRKfvXvU='}]}
0:31:22.666914	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09f6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a7ef5ef5)
0:31:22.667913	LOG	Server <-------------------- DUT
0:31:22.669914	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06aa, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 1f039c5b)
0:31:22.671913	LOG	Frame command sent to the DUT
0:31:22.672913	LOG	PULL_RESP: Protocol version = 02, Token = 49f5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2596962146, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAqgbgUB+PY1h8z8cEsKQYtQKdj0OFq0ZE6zTWStQLuh6FCL43SClhoBj6mNE/6sHikjQ0S7NvJUB1mWMSK86sxsyO7L7J3nu5HsIMhYqtm/ECgY9WQFG5zN+7j74yu/XnAMJ+fUBxYYmffPGhw2KyilTjYrkPBdhWidGJF01HYwpcfvOZoNDyWVhB2neKjfESlTICqLqsgyC0iwILZn4FBXyg91qpFFieeWNSNv6+rdXaUWGnS1PDKd/u3krlnUTCIkLd/YilteDKE8u/pLRzGP5vYlDs1H7gOW2EGmf/93gTbL+/oBxFx/tTkEsOvbxgeettkxkfA5xb'}}
0:31:22.673913	LOG	Server --------------------> DUT
0:31:22.676917	LOG	Send Test Command TxFramesCtrlReq process completed
0:31:22.679912	LOG	Send Test Command TxFramesCtrlReq process starts
0:31:27.545721	LOG	First uplink received. Open reception window.
0:31:27.653177	LOG	PUSH_ACK: 02 835e 01
0:31:27.655215	LOG	GPS Time from gateway: 1385121030783
0:31:27.656181	LOG	PUSH_DATA: Protocol version = 02, Token = 835e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2599961918, 'time': '2023-11-27T11:50:11.783682Z', 'tmms': 1385121030783, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA9wkCgzeqEKgKYKZfSuY='}]}
0:31:27.658180	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09f7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a65f4ae6)
0:31:27.659214	LOG	Server <-------------------- DUT
0:31:27.661181	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06ab, FOpts:), FPort: e0, FRMPayload:

		0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 53dc224d)
0:31:27.662213	LOG	Frame command sent to the DUT
0:31:27.664181	LOG	PULL_RESP: Protocol version = 02, Token = 6b47, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2601961918, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAqwbg1rqtXE7qkWeUV5bjJyUmk/ysmsKRp+oJGrJkIuA/ldyI1O8grMSu8j73+DoKURSpQtaxjUBo5DvyOjQ6WFoBDpUY91ff8GxaKveMC/P8lIdhpOd0+I4KgmdeX1NurXhPcwvox9+jcVxrfRoGwTjE//KDb7rbf9sJ6h+zXJ2qJRl4mBGbKv0DJAHx0/f2P1UXSgeaXKlhzu2ZgPaOh4Wi3oEm/4OOBjDYJMzskvAJQrPU5U13rugAo4Gp7dGJB7Wxrifk9/JGNrsK6eJvGqewaOYnaJOArhxCNriA9aglDwWwkc2YH/rWGxos/v+K4V+/b/BT3CJN'}}
0:31:27.665179	LOG	Server --------------------> DUT
0:31:27.668179	LOG	Send Test Command TxFramesCtrlReq process completed
0:31:27.672178	LOG	Send Test Command TxFramesCtrlReq process starts
0:31:29.766191	LOG	GPS Time updated: 1385121033004
0:31:29.768159	LOG	PULL_DATA: 02 3c71 02 0016c001ff1025bf
0:31:29.769159	LOG	PULL_ACK: 02 3c71 04
0:31:32.546009	LOG	First uplink received. Open reception window.
0:31:32.657857	LOG	PUSH_ACK: 02 e323 01
0:31:32.659858	LOG	GPS Time from gateway: 1385121035783
0:31:32.660825	LOG	PUSH_DATA: Protocol version = 02, Token = e323, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2604961657, 'time': '2023-11-27T11:50:16.783420Z', 'tmms': 1385121035783, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA+AkCh3b4zztpQA4huXA='}]}
0:31:32.662836	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09f8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0e21b970)
0:31:32.663825	LOG	Server <-------------------- DUT
0:31:32.665827	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06ac, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 9ccef875)
0:31:32.667849	LOG	Frame command sent to the DUT
0:31:32.668858	LOG	PULL_RESP: Protocol version = 02, Token = e00e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2606961657, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAArAbg6hNRHcAqxVayIfilcjU0fbT8Du7czkHQlD2J9eYJTeFzPZk9Vqg/74QxrkaCoX5Kzr7b1WIAe74vvuLVcOHdBIRCcxmNTxrf6HCbFtNpi8/h1ggqqNlq83JCe9vlcY1yKZ6MOey960vGiP4/vcYwDQgcPTK5njSV8Qw8Ag3qKngl3CdlJIzfgrhfx3V8g2EA54rKJO4XH9KnEEoMXy7eQWsP5RJoAlxTP9Juhp+L6RQTryO4Sbskac9tXg3MheHTlp7JxjPddYKD1ArXf5hdCf6DkuFNlVEt7eRJup5q5t+OjFX140FzYo0h7xZfK7Vf2bCczvh1'}}
0:31:32.669858	LOG	Server --------------------> DUT

0:31:32.672828	LOG	Send Test Command TxFramesCtrlReq process completed
0:31:32.675824	LOG	Send Test Command TxFramesCtrlReq process starts
0:31:37.541351	LOG	First uplink received. Open reception window.
0:31:37.646834	LOG	PUSH_ACK: 02 8f5b 01
0:31:37.648868	LOG	GPS Time from gateway: 1385121040783
0:31:37.649836	LOG	PUSH_DATA: Protocol version = 02, Token = 8f5b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2609961427, 'time': '2023-11-27T11:50:21.783189Z', 'tmms': 1385121040783, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA+QkCFCW0CJjwI/frEu4='}]}
0:31:37.651835	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09f9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f7eb12ee)
0:31:37.652868	LOG	Server <-------------------- DUT
0:31:37.654837	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06ad, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 7c236320)
0:31:37.655838	LOG	Frame command sent to the DUT
0:31:37.657868	LOG	PULL_RESP: Protocol version = 02, Token = 8e76, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2611961427, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAArQbg7ajduXkwvuCaPJWU9sVolss5uSpw5NI63Z1pE1IMLzf4yuxwdSxuXNvs65zxe9f3ZEffhdtmRYyNCmDqXrUGs2NmBX8VUyReTz8DNokNTSBHJDqzRV60YJz5D0Uq1Sb0AiVnDBERoh9quB/Ma6vL7pjCR4Sa45yZSaBP9nIKG/TDOg2alB5vQUBg7dk0+NOj8haV6FikbCpip9NpkV+g6YDlbBYn6K50W8xX/jBy3y1bPvKk9hvaF6d3+Xi8YsrnzJ6jGYWXnqk+IPUBBTEsMOnmwFvmz1PoKHrA+C4TrXsRPh23hwBXlweR8peGO102WEt8I2Mg'}}
0:31:37.658868	LOG	Server --------------------> DUT
0:31:37.661837	LOG	Send Test Command TxFramesCtrlReq process completed
0:31:37.665841	LOG	Send Test Command TxFramesCtrlReq process starts
0:31:39.965703	LOG	GPS Time updated: 1385121043207
0:31:39.967704	LOG	PULL_DATA: 02 3ba3 02 0016c001ff1025bf
0:31:39.969713	LOG	PULL_ACK: 02 3ba3 04
0:31:42.547931	LOG	First uplink received. Open reception window.
0:31:42.650646	LOG	PUSH_ACK: 02 cd1c 01
0:31:42.652648	LOG	GPS Time from gateway: 1385121045783
0:31:42.653647	LOG	PUSH_DATA: Protocol version = 02, Token = cd1c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2614961198, 'time': '2023-11-27T11:50:26.782959Z', 'tmms': 1385121045783, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3377, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA+gkCaRucZReB9PM5mkU='}]}
0:31:42.654648	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09fa, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f3399a45)
0:31:42.656648	LOG	Server <-------------------- DUT
0:31:42.658647	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06ae, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101010101

		01), MIC: 977a09d6)
0:31:42.660647	LOG	Frame command sent to the DUT
0:31:42.661647	LOG	PULL_RESP: Protocol version = 02, Token = 360e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2616961198, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAArgbgW9acCn+By7L9u5s45HO/Q6sVdi4JBjy2coNdXry+nwQe1dHj+WLLvZYsvG10R7t7xGCxX4FD6ML6LckBJ0+4uv5jmApE6eLzIsnGts1jVv0PytSvOAjjzV+vKUt8Nr9IvOHHEYhu88WgHBwIIWGPU6jw7vRDclgTFztfQMpM3lLM1bf9AHDio0AaCNDTKWIcVfRCKgKgrZp8XxTQj/PZ/PO/XGsynJYm4l7aMb54tQw3ylvaC4Ws3wY1xhlljOEPM/V+RWvHDpp/mAkuURlgud4073og/G/xF/I1kZeihiito5MhcPjkBzWvdtxprUmhb7SXegnW'}}
0:31:42.662647	LOG	Server --------------------> DUT
0:31:42.665647	LOG	Send Test Command TxFramesCtrlReq process completed
0:31:42.668647	LOG	Send Test Command TxFramesCtrlReq process starts
0:31:47.542787	LOG	First uplink received. Open reception window.
0:31:47.653731	LOG	PUSH_ACK: 02 f8a9 01
0:31:47.655731	LOG	GPS Time from gateway: 1385121050782
0:31:47.656735	LOG	PUSH_DATA: Protocol version = 02, Token = f8a9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2619960970, 'time': '2023-11-27T11:50:31.782729Z', 'tmms': 1385121050782, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA+wkCAtWpCA410n5Xvyc='}]}
0:31:47.658715	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09fb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7e57bf27)
0:31:47.659699	LOG	Server <-------------------- DUT
0:31:47.661733	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06af, FOpts:), FPort: e0, FRMPayload: 070001), MIC: e8e4fbfc)
0:31:47.662737	LOG	Frame command sent to the DUT
0:31:47.664733	LOG	PULL_RESP: Protocol version = 02, Token = b300, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2621960970, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAArwbgv46cOtM4vSMzQ76TN7r5feRxHWc3FunN9OhK3k45Oc6ccXX1B4xLa//HnP//YkbWmHZ4V7t5bOTL0NP2CPf6OgY+W87vY3Tz9ZFA8Gjt2zzMBRp0oK9tiipu8vGEjxv35Vi5PvD21YBjEVF2U2rPlM1wCS8ak5mrLpwOGR8/RpzNDv66itSyZrLbo2k4bwJDGlzmPBN0WNTrPjmQq9X49uOnOVtznbxXjUBZafhDVm7s5kKazK2zwIMbgk1sDDAjXlylh5RXQQM/SEw4kxHUSIVhVbgY1ySVcO8u53N7fYfyEtE8UIv5DIQm4OPlk1/kujvo5Pv8'}}
0:31:47.665732	LOG	Server --------------------> DUT
0:31:47.668698	LOG	Send Test Command TxFramesCtrlReq process completed
0:31:47.671735	LOG	Send Test Command TxFramesCtrlReq process starts
0:31:49.976567	LOG	GPS Time updated: 1385121053216
0:31:49.978553	LOG	PULL_DATA: 02 17b8 02 0016c001ff1025bf
0:31:49.979551	LOG	PULL_ACK: 02 17b8 04
0:31:52.543134	LOG	First uplink received. Open reception window.

0:31:52.651807	LOG	PUSH_ACK: 02 1c8f 01
0:31:52.653808	LOG	GPS Time from gateway: 1385121055782
0:31:52.654778	LOG	PUSH_DATA: Protocol version = 02, Token = 1c8f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2624960737, 'time': '2023-11-27T11:50:36.782497Z', 'tmms': 1385121055782, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA/AkCUY6j+lQjUwMmfrM='}]}
0:31:52.656791	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09fc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 03267eb3)
0:31:52.657774	LOG	Server <-------------------- DUT
0:31:52.659775	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06b0, FOpts:), FPort: e0, FRMPayload: 070001), MIC: d2877ff7)
0:31:52.661807	LOG	Frame command sent to the DUT
0:31:52.662809	LOG	PULL_RESP: Protocol version = 02, Token = 29d0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2626960737, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAsAbgEn+GEuJDb0eNh7I9Y1/mqzKyu3ep5bLN3bIMaG5cNGu/vwt4wiWm3a/cqCnXFwe1vfnLTMgbVCLIM9E5XT2XM5D1zkrPOjkW89/mdjBdH+rr3d60W5G6o5/KkGxH/8+zRY906B8oT6fJhvqWHWXmyN1nhcuT1YpmJ9u49fx/hNEmSO8N4pmyCQVGnmqHa/mYI4FxTiKgzJdElhfcGlJ6LVDk0IyhS9ti2ygm+6XNTbu1Qg/6/hJbXJb/v38rTWjVYqrgKapQXI2RnwDDEYkZe3d2UpN+z2aHqPnSq4XHj39iqHcXescy8GZ6Y+9d8NUsaADSh3/3'}}
0:31:52.663813	LOG	Server --------------------> DUT
0:31:52.666807	LOG	Send Test Command TxFramesCtrlReq process completed
0:31:52.670776	LOG	Send Test Command TxFramesCtrlReq process starts
0:31:57.542186	LOG	First uplink received. Open reception window.
0:31:57.651764	LOG	PUSH_ACK: 02 e89c 01
0:31:57.653764	LOG	GPS Time from gateway: 1385121060782
0:31:57.654767	LOG	PUSH_DATA: Protocol version = 02, Token = e89c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2629960484, 'time': '2023-11-27T11:50:41.782243Z', 'tmms': 1385121060782, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3377, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA/QkCdO4wySgNhfeglrs='}]}
0:31:57.656768	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09fd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f7a096bb)
0:31:57.657799	LOG	Server <-------------------- DUT
0:31:57.659766	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06b1, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 22a7d797)
0:31:57.660799	LOG	Frame command sent to the DUT

0:31:57.662798	LOG	PULL_RESP: Protocol version = 02, Token = 5b3f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2631960484, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAsQbgydqlS4dn7DV51VykQmIa83WTEdMpVbiGNAMoGQ/b6XuI0EosPZYo2WP0fnQFXlRpUvdLaCYEtJ5JTBk09rvk0cDJhog9dRN4G/8ndzHaRt28cbAeS6kpyK5nYm5XJ98sQGSIxtaDfn+UkD4TrUPEP0mW/Wz6zftNe0Ip0sJ3pqJTtvNJ1A5jg//O8DHy/ktBEs9PD3+CjdgKZRtx6Ek7c0nOhmkjAQyuTi6kvIjwnb+pL2QlzoUXf8RGurqvWPiwUnetG5XNzXd3VneudivvhSpEyAEUwijTe+6ZEiVLqQbI3gl5H/IBDzExYvTcwY9F1Igip9eX'}}
0:31:57.663799	LOG	Server --------------------> DUT
0:31:57.666767	LOG	Send Test Command TxFramesCtrlReq process completed
0:31:57.669765	LOG	Send Test Command TxFramesCtrlReq process starts
0:31:59.986294	LOG	GPS Time updated: 1385121063226
0:31:59.987261	LOG	PULL_DATA: 02 e26a 02 0016c001ff1025bf
0:31:59.989263	LOG	PULL_ACK: 02 e26a 04
0:32:02.548084	LOG	First uplink received. Open reception window.
0:32:02.651615	LOG	PUSH_ACK: 02 35c9 01
0:32:02.653616	LOG	GPS Time from gateway: 1385121065782
0:32:02.654617	LOG	PUSH_DATA: Protocol version = 02, Token = 35c9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2634960253, 'time': '2023-11-27T11:50:46.782011Z', 'tmms': 1385121065782, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA/gkCMxEd3BuCmEMVPlI='}]}
0:32:02.656583	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09fe, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 43153e52)
0:32:02.657582	LOG	Server <-------------------- DUT
0:32:02.659582	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06b2, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 88dec050)
0:32:02.661616	LOG	Frame command sent to the DUT
0:32:02.662619	LOG	PULL_RESP: Protocol version = 02, Token = 546f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2636960253, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAsgbg31BHhrAvNf8Rp07oxU5YM9DxGj0NomD8X0BT45foNsWefS+wsk0eyhQ8HNgrAw8y1dfMJaKeUDMRwafmC0GP+gi9E7D6gljQ6Ub6mftTU8pm12VtBcziOfbEZmDom+xtRTHjo6hLJtBBD9fjewdXzmnrqHZSWefG6tDUGENH8JdhFVpkD2PxBizXpGx9spVaLpP+9oeYV/E1/q33XrocNJwRCGcMpOr4n0ePfgR4lgsQXVv5p1uhN+G6SyEg5mRg4xn3ZVDQPO3979Z6jivq2+sepHLwndKCSsQja0+NQ/GyoHacGirBdR3tuJ+9uebMk52I3sBQ'}}
0:32:02.663616	LOG	Server --------------------> DUT
0:32:02.666618	LOG	Send Test Command TxFramesCtrlReq process completed
0:32:02.670634	LOG	Send Test Command TxFramesCtrlReq process starts
0:32:07.544234	LOG	First uplink received. Open reception window.
0:32:07.654860	LOG	PUSH_ACK: 02 3563 01
0:32:07.656860	LOG	GPS Time from gateway: 1385121070781
0:32:07.657861	LOG	PUSH_DATA: Protocol version = 02, Token = 3563, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2639960031, 'time': '2023-11-27T11:50:51.781788Z', 'tmms': 1385121070781, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA/wkC9jAOSn0e46KIP7U='}]}
0:32:07.659866	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 09ff, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a2883fb5)
0:32:07.660861	LOG	Server <-------------------- DUT
0:32:07.662862	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06b3, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 95e34004)
0:32:07.664896	LOG	Frame command sent to the DUT
0:32:07.665894	LOG	PULL_RESP: Protocol version = 02, Token = 5590, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2641960031, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAswbgNSnmalGji+4PVfsmfRaxG8uGmJwiPQTNmC01i52USjDAdN9qu1J6oR4riPJIJ1UtslJkmKfa21Oehna9zUFaTI4tcEIzqCe8voDWD+WTvej1tSQWOYN6BCDHCxShfyk2gqyvAGj0tsz3GN2zrdVn+14+GbtiTm3X+2EeAmxj9FzZoE6fjrW0SU7UYXox2D63nh7t8vGgI3DhDboHZegjELn4j3JzJX/6imRkVum4v6b/WKAavwNeIwOY/5hwAEI1rnVhAehD9VMVLHIIK6KNXVwSLCfluGPcce0SxsdfhD60tBIxeo+FnCTKe5ayG9dmK9uV40AE'}}
0:32:07.666895	LOG	Server --------------------> DUT
0:32:07.669864	LOG	Send Test Command TxFramesCtrlReq process completed
0:32:07.673860	LOG	Send Test Command TxFramesCtrlReq process starts
0:32:10.185401	LOG	GPS Time updated: 1385121073423
0:32:10.187401	LOG	PULL_DATA: 02 7aa8 02 0016c001ff1025bf
0:32:10.188402	LOG	PULL_ACK: 02 7aa8 04
0:32:12.541867	LOG	First uplink received. Open reception window.
0:32:12.652124	LOG	PUSH_ACK: 02 16fd 01
0:32:12.654091	LOG	GPS Time from gateway: 1385121075781
0:32:12.655093	LOG	PUSH_DATA: Protocol version = 02, Token = 16fd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2644959759, 'time': '2023-11-27T11:50:56.781515Z', 'tmms': 1385121075781, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3377, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAAAoCkQDMLeP0i6itBFI='}]}
0:32:12.657125	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a00, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a8ad0452)
0:32:12.658124	LOG	Server <-------------------- DUT
0:32:12.660093	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06b4, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 83629b78)
0:32:12.662092	LOG	Frame command sent to the DUT
0:32:12.663125	LOG	PULL_RESP: Protocol version = 02, Token = 87d8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2646959759, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True,

		'size': 255, 'data': 'YAAAAAAAtAbgZT0RY9Jy2/OsNF1ZcLbHOFkxpYG3JB/ycw+zlb/5u548CxDIGH5O2TIzkrDj7sOsbpzs6AUBKntlT7PaVlJPMrq4y3XC1QSoS6bZ1Vth1yTNoTD1Bvc0HIpwZUVTuTY+slcqC5LMvmjGZzRynPo+s7KuiA7LbHRSscutwqAYgXCJaQqCqU+Po9h1r688c09lsnDtlpLpYfqyp41jgXQTAoeChOCL72i8WbW+vrne9KHTbZBuSxkQimOR3hKpxvQlJqwBMDvg4dyDRg0F7mVZr+s7cqT46MPpwY8kNjcWBfsMnQhsr3UgNG8T0+jBVPdL6V6DYpt4'}}
0:32:12.665094	LOG	Server --------------------> DUT
0:32:12.668128	LOG	Send Test Command TxFramesCtrlReq process completed
0:32:12.671125	LOG	Send Test Command TxFramesCtrlReq process starts
0:32:17.548941	LOG	First uplink received. Open reception window.
0:32:17.656759	LOG	PUSH_ACK: 02 0752 01
0:32:17.658724	LOG	GPS Time from gateway: 1385121080781
0:32:17.659753	LOG	PUSH_DATA: Protocol version = 02, Token = 0752, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2649959513, 'time': '2023-11-27T11:51:01.781267Z', 'tmms': 1385121080781, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAAQoClLrN3Zt1OtOMEXo='}]}
0:32:17.661727	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a01, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d38c117a)
0:32:17.662759	LOG	Server <-------------------- DUT
0:32:17.664758	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06b5, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 9588ed76)
0:32:17.665762	LOG	Frame command sent to the DUT
0:32:17.667762	LOG	PULL_RESP: Protocol version = 02, Token = f731, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2651959513, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAtQbgttmuKlD9swlKTEp+Wf451X2JJEiVfoP1+XysM5gygxgunmsz4N3R3vKL9tV7sy1YbsHtm1ly71Wf8G1LSQQPEV9k7ocWwSSsZZubV0HjF3yD1qJ2gIk6kSl+3Z6iUuMWjCfaPhOmXlK/f4phIK5znRVG9K8CtoYSM+2eBY8+fIERZukkTuX9pO2R7qqkIxnyKzCLvW7MOmkQmWvrinaMEwrM+f0fvb7JhZ9QX66n9f9354gT9xFAPWc6h7BNPrrPJeyU/YDPe6Hax+WwaLIaSxpl0HTWIu/u+PyOExl4HaXVQksh0u9C+siw9qsiBHvdK52ViO12'}}
0:32:17.668758	LOG	Server --------------------> DUT
0:32:17.671727	LOG	Send Test Command TxFramesCtrlReq process completed
0:32:17.674760	LOG	Send Test Command TxFramesCtrlReq process starts
0:32:20.396101	LOG	GPS Time updated: 1385121083629
0:32:20.397101	LOG	PULL_DATA: 02 6fea 02 0016c001ff1025bf
0:32:20.399103	LOG	PULL_ACK: 02 6fea 04
0:32:22.547328	LOG	First uplink received. Open reception window.
0:32:22.658801	LOG	PUSH_ACK: 02 76fe 01
0:32:22.660770	LOG	GPS Time from gateway: 1385121085781
0:32:22.661769	LOG	PUSH_DATA: Protocol version = 02, Token = 76fe, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2654959246, 'time': '2023-11-27T11:51:06.781001Z', 'tmms': 1385121085781, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3377, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAAgoCZF/V61Q7uUow/m4='}]}

0:32:22.663769	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a02, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4a30fe6e)
0:32:22.664769	LOG	Server <-------------------- DUT
0:32:22.666770	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06b6, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 8901babb)
0:32:22.668769	LOG	Frame command sent to the DUT
0:32:22.669769	LOG	PULL_RESP: Protocol version = 02, Token = 3561, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2656959246, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAtgbgkhUdiYL5cUXw/+pE65dxE+L0dcV1vKAQsZ83ab2Opq8oDxEhwQ1IFkHzknRUa/5oI0E6fT4S+BSwFaMOO/iL0OSukQ2svqc20G4lLP/fheY1FmOyeW2xouVfErFPU9i11GeT2k734hGVNVZd/5d8KLnGq+aCIbmIdLo146cQ3XE+vUR4xkpNQUwPlE3UplpUx+32ZbOzRJqCU7iZGsJu2lIQ6rhCQiIrC3FcxOejEO7x6f7TlYiTHfFTkafxjbFNs4PUu943XADOzPdNicRWqSk9+4Jja2IIn3/uNQ69HVlZ24nPaPCTFcXQkG9Z0UyYxt+JAbq7'}}
0:32:22.671769	LOG	Server --------------------> DUT
0:32:22.674772	LOG	Send Test Command TxFramesCtrlReq process completed
0:32:22.677801	LOG	Send Test Command TxFramesCtrlReq process starts
0:32:27.538122	LOG	First uplink received. Open reception window.
0:32:27.652527	LOG	PUSH_ACK: 02 a113 01
0:32:27.654494	LOG	GPS Time from gateway: 1385121090780
0:32:27.655495	LOG	PUSH_DATA: Protocol version = 02, Token = a113, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2659959024, 'time': '2023-11-27T11:51:11.780778Z', 'tmms': 1385121090780, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3377, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAAwoCeTZYM9+d+jVUdmo='}]}
0:32:27.657495	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a03, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3554766a)
0:32:27.658494	LOG	Server <-------------------- DUT
0:32:27.661003	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06b7, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 756fe6b1)
0:32:27.662002	LOG	Frame command sent to the DUT
0:32:27.664003	LOG	PULL_RESP: Protocol version = 02, Token = ebca, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2661959024, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAtwbgiFfYNZFZ4zNYILXRG81K2rrlRH8VTG2HnqpkhN8VPH6159MdML/ydpPG0uuELEr5otlA2uf4fsZ/znZmnGzPBgMjZGpbMXCc8EpnuOl/Ctb/Ug8pYEkXYE8WaSl2AVzXhpgxfsuFYz6VcRMOnQ7gspVHRG7exYAQProBhV4jjzAf8U2GxQZFrI1bvNJ6nAQKbxq9Wu3JuKdShOfS7eyiJbVv6ES2eedipouL9z

		VO0ruEYqQZwX5JEMUza7wvqve7ErCRv6abFWMz/rOpXtKbeoeEYRhUeg3+GgMVW357bIOOAazuS75hlMadPCW7pUFrI5B1b+ax'}}
0:32:27.665003	LOG	Server --------------------> DUT
0:32:27.667003	LOG	Send Test Command TxFramesCtrlReq process completed
0:32:27.671035	LOG	Send Test Command TxFramesCtrlReq process starts
0:32:30.605189	LOG	GPS Time updated: 1385121093847
0:32:30.607157	LOG	PULL_DATA: 02 cd99 02 0016c001ff1025bf
0:32:30.608168	LOG	PULL_ACK: 02 cd99 04
0:32:32.540129	LOG	First uplink received. Open reception window.
0:32:32.652732	LOG	PUSH_ACK: 02 bce5 01
0:32:32.654735	LOG	GPS Time from gateway: 1385121095780
0:32:32.655734	LOG	PUSH_DATA: Protocol version = 02, Token = bce5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2664958752, 'time': '2023-11-27T11:51:16.780505Z', 'tmms': 1385121095780, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACABAoCTOMM6Nrt7uzgizg='}]}
0:32:32.657735	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a04, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ece08b38)
0:32:32.658734	LOG	Server <-------------------- DUT
0:32:32.660735	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06b8, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 5e7e67dc)
0:32:32.662734	LOG	Frame command sent to the DUT
0:32:32.664239	LOG	PULL_RESP: Protocol version = 02, Token = d4a8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2666958752, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAuAbgAdybjdekslWMEXW5aX9WmoFiUyOWnjXwmDVTrBKtJvgb4fX6PE57BPDXpOy2Sh7Zna3dn5AXCjxAgJiZp2XvDqigQC1Vi8YnHefzXRU28wYHgNqbXGNjwXy3Flu8UZMNq1VWMi0/Cx5qqfoHi1IxcBhz+Ce4fgjfXdZyWNV4AdIIaiGQbl/+Zeh1tWmHhDQou7EzvUhLoNcs1PG0AyBn6Nz5uSBheMHuIWXziPWNtkTvcMtPoNnMmO8JZ3S4SsHCQiilSLR/69pqSWrDY/Da5hvHIFd2Ma3uZKm74bG4o1AQt0QGrMaNaWMHEYe7YyZskjJefmfc'}}
0:32:32.665243	LOG	Server --------------------> DUT
0:32:32.668244	LOG	Send Test Command TxFramesCtrlReq process completed
0:32:32.672255	LOG	Send Test Command TxFramesCtrlReq process starts
0:32:37.544242	LOG	First uplink received. Open reception window.
0:32:37.655039	LOG	PUSH_ACK: 02 51d8 01
0:32:37.657037	LOG	GPS Time from gateway: 1385121100780
0:32:37.658038	LOG	PUSH_DATA: Protocol version = 02, Token = 51d8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2669958500, 'time': '2023-11-27T11:51:21.780252Z', 'tmms': 1385121100780, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACABQoCic1icVpGxITVHPA='}]}
0:32:37.660003	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a05, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 84d51cf0)
0:32:37.661003	LOG	Server <-------------------- DUT
0:32:37.663045	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06b9, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010

		101), MIC: 75b2c1ac)
0:32:37.665041	LOG	Frame command sent to the DUT
0:32:37.666037	LOG	PULL_RESP: Protocol version = 02, Token = ace7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2671958500, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAuQbgDzdpcaJEJprTytyJqNknzUCDbt4pOfnjfm+vm2si9BrLhk9w/Zxhf/abIRZlP14nBBuB9X8xrIYUsMLAA3FJBkpy4aJXJO3sBO9NGY0FLNl7pcPFbRyHyVwH8KAMKJuQWAuCZWrWk+ZUxpLrzKm8/xfTCmTAdSlknvedxKQ52PVbXyRTEcuR2SPAUUent8fpCI2kDApOCZimlLpeNFfDxI9+hmY+8K/djS44AlzCJ3+dGvuqX1l6g4j7gUuMX+Zo3PPMRFcnL41hOyhWJMaP9MOrtOcK+XMJxjRQEQyKhuGe/GjpS/ThXNnv/ilKHC+ygdR1ssGs'}}
0:32:37.667036	LOG	Server --------------------> DUT
0:32:37.669542	LOG	Send Test Command TxFramesCtrlReq process completed
0:32:37.673550	LOG	Send Test Command TxFramesCtrlReq process starts
0:32:40.815205	LOG	GPS Time updated: 1385121104051
0:32:40.817220	LOG	PULL_DATA: 02 7460 02 0016c001ff1025bf
0:32:40.818206	LOG	PULL_ACK: 02 7460 04
0:32:42.544579	LOG	First uplink received. Open reception window.
0:32:42.654890	LOG	PUSH_ACK: 02 6d5c 01
0:32:42.656919	LOG	GPS Time from gateway: 1385121105780
0:32:42.657924	LOG	PUSH_DATA: Protocol version = 02, Token = 6d5c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2674958266, 'time': '2023-11-27T11:51:26.780017Z', 'tmms': 1385121105780, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACABgoCRH2Jojff+UdJzoo='}]}
0:32:42.659966	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a06, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4749ce8a)
0:32:42.660965	LOG	Server <-------------------- DUT
0:32:42.662931	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06ba, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 81cf0f29)
0:32:42.664932	LOG	Frame command sent to the DUT
0:32:42.665932	LOG	PULL_RESP: Protocol version = 02, Token = ccde, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2676958266, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAugbgAzUO6shfMfJbmxT13t11TjEOKCSoHBpV1Ys7NKo4n0LLURrwDXdHVWa4XsTtVZ/9+jxaCD/bCqDhcmEjN0ydHs8/42kYl7vfOpKUtYnN3h6u8Ejkqc4w7hNB40TlG3Ohfluf/t5GiCQC/uut0xcYzmyDGFVkUETjX7SHmFD2oHdixH5RefdZMEVt8/GVA9QctnlOcco4jVP69ggMc+Rm2lXFeNkcjNDByaMcABPGx5+ZjtvnaxvqVWOkUHBFziZCdQ6lJUzoZOJrumIRmDytGlYgjB4w9iAqsLx9eeVw6ILGV5k2PIinQ7X+Zqlkgp2X7IaBzw8p'}}
0:32:42.666967	LOG	Server --------------------> DUT

0:32:42.669965	LOG	Send Test Command TxFramesCtrlReq process completed
0:32:42.673932	LOG	Send Test Command TxFramesCtrlReq process starts
0:32:47.540790	LOG	First uplink received. Open reception window.
0:32:47.645908	LOG	PUSH_ACK: 02 fc4f 01
0:32:47.647877	LOG	GPS Time from gateway: 1385121110779
0:32:47.648878	LOG	PUSH_DATA: Protocol version = 02, Token = fc4f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2679958009, 'time': '2023-11-27T11:51:31.779760Z', 'tmms': 1385121110779, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3377, 'rssi': -50, 'size': 20, 'data': 'QAAAAACABwoCJe7bXCLpfgMxF7E='}]}
0:32:47.650876	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a07, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 033117b1)
0:32:47.651876	LOG	Server <-------------------- DUT
0:32:47.653879	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06bb, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 833e01fa)
0:32:47.655902	LOG	Frame command sent to the DUT
0:32:47.656912	LOG	PULL_RESP: Protocol version = 02, Token = 4b4d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2681958009, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAuwbgzKVNtqUA6FWlI2vv8aBOo7XNE4jOG74+MDIQhYIZM04C5h05Y4tNKWdyPrQIkXJtaEx0P0l3CrWGMhPA0ihuxKIx3RkhfzyS9F7czw3b/EDzrE141md8oVukhRC5YSrDhrm5aAC45f/nlbdisBvNffwDSHsfPVXW6BjhQFZ/u+LalcozPH32QWY2hMDweY0TaqIYumve6yPB4I8RER/9U7/VwaYTsWkOnOiPzduXd+dk1hlZpek+PA5oumXKcnKQxCYdeOsXcPtrDL5toBlSsK5PEUxjbNa89isPje9tI2w4HNnEWF5wxGjMXIEbKMyuXC2DPgH6'}}
0:32:47.658876	LOG	Server --------------------> DUT
0:32:47.660908	LOG	Send Test Command TxFramesCtrlReq process completed
0:32:47.664874	LOG	Step 06-07
0:32:47.667882	LOG	Send Test Command RxAppCntReq process starts
0:32:51.015890	LOG	GPS Time updated: 1385121114254
0:32:51.016898	LOG	PULL_DATA: 02 c731 02 0016c001ff1025bf
0:32:51.018882	LOG	PULL_ACK: 02 c731 04
0:32:52.542699	LOG	First uplink received. Open reception window.
0:32:52.645898	LOG	PUSH_ACK: 02 18fc 01
0:32:52.647892	LOG	GPS Time from gateway: 1385121115779
0:32:52.648893	LOG	PUSH_DATA: Protocol version = 02, Token = 18fc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2684957787, 'time': '2023-11-27T11:51:36.779537Z', 'tmms': 1385121115779, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3377, 'rssi': -50, 'size': 20, 'data': 'QAAAAACACAoC0deSmg8/TsrYDqM='}]}
0:32:52.650867	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a08, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: cad80ea3)
0:32:52.651901	LOG	Server <-------------------- DUT
0:32:52.653867	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06bc, FOpts:), FPort: e0, FRMPayload: 09), MIC: 5331b449)
0:32:52.654904	LOG	Frame command sent to the DUT
0:32:52.656866	LOG	PULL_RESP: Protocol version = 02, Token = ee24, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2686957787, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAvAbg11MxtEk='}}
0:32:52.657897	LOG	Server ----------> DUT
0:32:52.660905	LOG	TX_ACK: 02 ee24 05 0016c001ff1025bf
0:32:54.661551	LOG	First uplink received. Open reception window.
0:32:54.776942	LOG	PUSH_ACK: 02 9492 01
0:32:54.778909	LOG	GPS Time from gateway: 1385121117894
0:32:54.779909	LOG	PUSH_DATA: Protocol version = 02, Token = 9492, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2687072790, 'time': '2023-11-27T11:51:38.894538Z', 'tmms': 1385121117894, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3374, 'rssi': -51, 'size': 16, 'data': 'QAAAAACACQrg81AiYnFu6g=='}]}
0:32:54.780909	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a09, FOpts:), FPort: e0, FRMPayload: 093405, MIC: 62716eea)
0:32:54.782909	LOG	Server <---------- DUT
0:32:54.783909	LOG	Frame Command Payload in the Answer: 093405
0:32:54.788415	LOG	RX Count received by DUT: 1332
0:32:54.790451	LOG	Send Test Command RxAppCntReq process completed
0:32:54.797419	LOG	End Test Step: Test packet error rate for SF7BW125 using RX2 window
0:32:54.801418	LOG	Partial Verdict: PASS
0:32:54.804418	LOG	==========
0:32:54.809420	LOG	==========
0:32:54.811419	LOG	Start Test Step: Test packet error rate for SF7BW250 using RX2 window
0:32:54.823421	LOG	Step 01-03
0:32:54.828048	LOG	Send RXParamSetupReq process starts
0:32:57.545082	LOG	First uplink received. Open reception window.
0:32:57.654513	LOG	PUSH_ACK: 02 90ab 01
0:32:57.656475	LOG	GPS Time from gateway: 1385121120779
0:32:57.657475	LOG	PUSH_DATA: Protocol version = 02, Token = 90ab, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2689957523, 'time': '2023-11-27T11:51:41.779272Z', 'tmms': 1385121120779, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3377, 'rssi': -50, 'size': 20, 'data': 'QAAAAACACgoCwV4DKXAEsSufhms='}]}
0:32:57.659477	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a0a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2b9f866b)
0:32:57.660476	LOG	Server <---------- DUT
0:32:57.662479	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06bd, FOpts:), FPort: 00, FRMPayload: 0506d2ad84), MIC: 4e1b1a3f)
0:32:57.664478	LOG	PULL_RESP: Protocol version = 02, Token = 387a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2691957523, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAvQYAgKPEBO9OGxo/'}}
0:32:57.665509	LOG	Server ----------> DUT
0:32:57.668094	LOG	TX_ACK: 02 387a 05 0016c001ff1025bf
0:33:01.035637	LOG	GPS Time updated: 1385121124269
0:33:01.037606	LOG	PULL_DATA: 02 fdff 02 0016c001ff1025bf
0:33:01.038605	LOG	PULL_ACK: 02 fdff 04
0:33:02.537220	LOG	First uplink received. Open reception window.
0:33:02.652472	LOG	PUSH_ACK: 02 9573 01
0:33:02.654439	LOG	GPS Time from gateway: 1385121125779
0:33:02.655439	LOG	PUSH_DATA: Protocol version = 02, Token = 9573, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2694957395, 'time': '2023-11-27T11:51:46.779143Z', 'tmms': 1385121125779, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3374, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCCwoFBwLHbaFhg1cNSXzbGg=='}]}

0:33:02.657439	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0a0b, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 497cdb1a)
0:33:02.658439	LOG	Server <---------- DUT
0:33:02.660439	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:33:02.661441	LOG	Command Answer: 0507
0:33:02.673125	LOG	MAC command communication completed
0:33:02.678095	LOG	Step 03-04
0:33:02.688132	LOG	Send Test Command RxAppCntReq process starts
0:33:07.539203	LOG	First uplink received. Open reception window.
0:33:07.643614	LOG	PUSH_ACK: 02 fddb 01
0:33:07.645580	LOG	GPS Time from gateway: 1385121130779
0:33:07.646580	LOG	PUSH_DATA: Protocol version = 02, Token = fddb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2699957130, 'time': '2023-11-27T11:51:51.778877Z', 'tmms': 1385121130779, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3374, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCDAoFBwLPNz6+saKibpPhXA==\'}]}
0:33:07.648583	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0a0c, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 6e93e15c)
0:33:07.649580	LOG	Server <---------- DUT
0:33:07.650580	LOG	MAC Command RXParamSetupAns received
0:33:07.652580	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06be, FOpts:), FPort: e0, FRMPayload: 09), MIC: fdcccd5b)
0:33:07.653579	LOG	Frame command sent to the DUT
0:33:07.655580	LOG	PULL_RESP: Protocol version = 02, Token = 1148, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2701957130, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAAvgbgaf3MzVs=\'}}
0:33:07.656580	LOG	Server ----------> DUT
0:33:07.660580	LOG	TX_ACK: 02 1148 05 0016c001ff1025bf
0:33:09.632788	LOG	First uplink received. Open reception window.
0:33:09.745502	LOG	PUSH_ACK: 02 249f 01
0:33:09.747503	LOG	GPS Time from gateway: 1385121132872
0:33:09.748504	LOG	PUSH_DATA: Protocol version = 02, Token = 249f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2702050458, 'time': '2023-11-27T11:51:53.872205Z', 'tmms': 1385121132872, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3374, 'rssi': -51, 'size': 16, 'data': 'QAAAAACADQrgNm7+LBZiLQ==\'}]}
0:33:09.750504	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a0d, FOpts:), FPort: e0, FRMPayload: 093505, MIC: 2c16622d)
0:33:09.751504	LOG	Server <---------- DUT
0:33:09.752505	LOG	Frame Command Payload in the Answer: 093505
0:33:09.756537	LOG	RX Count received by DUT: 1333
0:33:09.758537	LOG	Send Test Command RxAppCntReq process completed
0:33:09.762504	LOG	Step 05
0:33:09.765504	LOG	Send Test Command TxFramesCtrlReq process starts
0:33:11.235591	LOG	GPS Time updated: 1385121134474
0:33:11.236592	LOG	PULL_DATA: 02 eef2 02 0016c001ff1025bf
0:33:11.237593	LOG	PULL_ACK: 02 eef2 04
0:33:12.544687	LOG	First uplink received. Open reception window.
0:33:12.657769	LOG	PUSH_ACK: 02 38aa 01
0:33:12.659768	LOG	GPS Time from gateway: 1385121135778
0:33:12.660770	LOG	PUSH_DATA: Protocol version = 02, Token = 38aa, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2704956769, 'time': '2023-11-27T11:51:56.778515Z', 'tmms': 1385121135778, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACADgoCy3M+Sy1hDFCfcns='}]}
0:33:12.661736	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a0e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 509f727b)
0:33:12.663735	LOG	Server <-------------------- DUT
0:33:12.665737	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06bf, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 29d2a535)
0:33:12.667740	LOG	Frame command sent to the DUT
0:33:12.668736	LOG	PULL_RESP: Protocol version = 02, Token = 2f91, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2706956769, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAvwbg32bttAzFaGUqKESLu5PwXtHUzRhOHn8i3R/mAgGWXJA+vfMdzwkDEw4TpOlW8KX8tw8iuCMBYPZTst0AeK1yfI2ge3DBYxI/YOxlGiOQfBQqBLWlpEJ2EpAwEbg6TvBeILxpuNhriKQcU/rkJP15g7lq32NIFIqvQ04cNNV2kgUsvv3qLP7czSGEMF8wb2xohB5WrS3WTYnsBOM9MJC6lqWaTx4p4K5LY7y27IH4dNbVeTJysc5lQSw+aDPcjuG+g+zBX2G3eKxeXX5uzAypDW6/K8VDxPzuLskf4++/P2eZzxAmicNjlOWGVtGsHQR3UREp0qU1'}}
0:33:12.669735	LOG	Server --------------------> DUT
0:33:12.672735	LOG	Send Test Command TxFramesCtrlReq process completed
0:33:12.676736	LOG	Send Test Command TxFramesCtrlReq process starts
0:33:17.537756	LOG	First uplink received. Open reception window.
0:33:17.650221	LOG	PUSH_ACK: 02 d78a 01
0:33:17.652217	LOG	GPS Time from gateway: 1385121140778
0:33:17.653222	LOG	PUSH_DATA: Protocol version = 02, Token = d78a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2709956522, 'time': '2023-11-27T11:52:01.778266Z', 'tmms': 1385121140778, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACADwoC4OaA+TSAKePJODo='}]}
0:33:17.655188	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a0f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e3c9383a)
0:33:17.656188	LOG	Server <-------------------- DUT
0:33:17.658189	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06c0, FOpts:), FPort: e0, FRMPayload: 070001), MIC: c40dbdec)
0:33:17.660190	LOG	Frame command sent to the DUT
0:33:17.661223	LOG	PULL_RESP: Protocol version = 02, Token = e663, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2711956522, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAwAbgRLEFwvFcm/0dwcvdPI+u0DCYGCS1ja973TLBRJ+sOl/F0Lix4xCzE5MLkiaYDeVnNyS4RBiNDK59/HAEye3nYHlGC8rTn7jk7isvPrmSSomdCRcmppGVYZBrVpIl591zAvo1HgJJ7/kxp2CxU/MkxPWwbsZSSmWB1To7Zbb9

		eonmfrL4qAVf6tt4n22ki/XziOcHA5NBEp998vMNVpMBs1vhOBgDJ1pgkwf8/e/5ZQhVU9trWS0JZ7Yj/22tRS/xGEEHuP8DNpOGA+bIAqXpaz3TDGe9CsSduOAdRU+2PbZCYIeftbi1tGAk3nyfdTl028jEDb3s'}}
0:33:17.662221	LOG	Server --------------------> DUT
0:33:17.665200	LOG	Send Test Command TxFramesCtrlReq process completed
0:33:17.668187	LOG	Send Test Command TxFramesCtrlReq process starts
0:33:21.445418	LOG	#**************************CURRENT BEACON SENT**************************#
0:33:21.447418	LOG	PULL_RESP: Protocol version = 02, Token = 3891, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385121152000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACARY9SdFoAAAAAAAAAAAA='}}
0:33:21.448419	LOG	Server --------------------> DUT
0:33:21.450420	LOG	#**#
0:33:21.459452	LOG	#**************************NEXT BEACON QUEUED**************************#
0:33:21.460452	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385121280000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAARo9SHN4AAAAAAAAAAAA='}}
0:33:21.462452	LOG	Server --------------------> DUT
0:33:21.463452	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 00468f52, CRC1: 1cde, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385121280000
0:33:21.464451	LOG	#**#
0:33:21.465452	LOG	Next BEACON scheduled at GPS time (ms): 1385121408000
0:33:21.467451	LOG	GPS Time updated: 1385121144709
0:33:21.468452	LOG	PULL_DATA: 02 824b 02 0016c001ff1025bf
0:33:21.470458	LOG	PULL_ACK: 02 824b 04
0:33:21.471453	LOG	TX_ACK: 02 3891 05 0016c001ff1025bf
0:33:22.542126	LOG	First uplink received. Open reception window.
0:33:22.648425	LOG	PUSH_ACK: 02 eaef 01
0:33:22.650425	LOG	GPS Time from gateway: 1385121145778
0:33:22.651426	LOG	PUSH_DATA: Protocol version = 02, Token = eaef, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2714956262, 'time': '2023-11-27T11:52:06.778007Z', 'tmms': 1385121145778, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAEAoC7Ft2zwqPql5ipsA='}]}
0:33:22.653429	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a10, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5e62a6c0)
0:33:22.654426	LOG	Server <-------------------- DUT
0:33:22.656428	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06c1, FOpts:), FPort: e0, FRMPayload: 070001), MIC: a1c794d9)
0:33:22.658462	LOG	Frame command sent to the DUT
0:33:22.659459	LOG	PULL_RESP: Protocol version = 02, Token = 4d01, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2716956262, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAwQbgc/xnaxekQKQzjK4KouNeLkxOmxQnR/okMAmxpH6KHDXW1N+kFXZocS3IvJz8jdgCf8tUsJT8hvDl+bacOZSEYFMh22/9SOb/e405pXiATHNL2ySCfp7/uwu8A++qao97vfBFHOPHlWdYB+dK4IIabyIKRJ3yJtiThxYKPZNIpt7gyl8mGvbz/QWN4wPQJEuXD+1EzXdATUVYIGa8WepUw9xFxB5pKsST1rbrl0v9P3OfyoPfuXy4dfYVzVQHjfKnHnnHsD8ckwKqOIVwU0R4QbK0ieNzxdM/a6lsvyE03s6baV33CdECfWIpUYMgTrb0ZIahx5TZ'}}
0:33:22.660463	LOG	Server --------------------> DUT
0:33:22.663427	LOG	Send Test Command TxFramesCtrlReq process completed
0:33:22.667425	LOG	Send Test Command TxFramesCtrlReq process starts
0:33:27.540388	LOG	First uplink received. Open reception window.
0:33:27.654349	LOG	PUSH_ACK: 02 3f6f 01
0:33:27.656349	LOG	GPS Time from gateway: 1385121150777
0:33:27.657354	LOG	PUSH_DATA: Protocol version = 02, Token = 3f6f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2719956003, 'time': '2023-11-27T11:52:11.777747Z', 'tmms': 1385121150777, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAEQoCT3qRXge3oJ/4yNc='}]}
0:33:27.659317	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a11, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9ff8c8d7)
0:33:27.660316	LOG	Server <-------------------- DUT
0:33:27.662350	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06c2, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 89c2a3c7)
0:33:27.664351	LOG	Frame command sent to the DUT
0:33:27.665350	LOG	PULL_RESP: Protocol version = 02, Token = 3886, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2721956003, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAwgbgT3wThBcn8tXgriXdiIqWrgBiMCEXtOiBldg2xeZ5cdW2XgWFyl5nwcAcvGD8/LRJcNFmHlN6cVuS7HNHfzA9LYGiJJK/azgGLeScEbi7HBYRirIpGI5ElHmglnq50RjZw1DJ9M4IrkmVkH6hUqz6ho1+fY6AX0U3BOv1VW3aEXBVQMs11qgJm5W0+E3psEmG0sgQD3Eb90jAcSlNprYU6G9SjD0TPZoY18UYjsUfM6vAwTPyfwfg2vk3t8lumHlr6fylskUH7K0Ob+yCanzjKsyZQpykop+B7SwufoKCccSv1pDek/zXJBUxPfXbe2NzukiJwqPH'}}
0:33:27.666352	LOG	Server --------------------> DUT
0:33:27.669317	LOG	Send Test Command TxFramesCtrlReq process completed
0:33:27.673317	LOG	Send Test Command TxFramesCtrlReq process starts
0:33:27.684351	LOG	TX_ACK: 02 3886 05 0016c001ff1025bf
0:33:31.655584	LOG	GPS Time updated: 1385121154893
0:33:31.656584	LOG	PULL_DATA: 02 1857 02 0016c001ff1025bf
0:33:31.658584	LOG	PULL_ACK: 02 1857 04
0:33:32.535108	LOG	First uplink received. Open reception window.
0:33:32.642786	LOG	PUSH_ACK: 02 6bad 01
0:33:32.644789	LOG	GPS Time from gateway: 1385121155777
0:33:32.645821	LOG	PUSH_DATA: Protocol version = 02, Token = 6bad, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2724955732, 'time': '2023-11-27T11:52:16.777475Z', 'tmms': 1385121155777, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAEgoC8l4kxWnni5HoSb4='}]}
0:33:32.647787	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a12, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 91e849be)
0:33:32.648787	LOG	Server <-------------------- DUT
0:33:32.650788	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06c3, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 764bfec6)
0:33:32.651789	LOG	Frame command sent to the DUT
0:33:32.653820	LOG	PULL_RESP: Protocol version = 02, Token = 79d2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2726955732, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAwwbg5mKP8Oln0UMiqlJiPIpvBeZn/Ij4k0CaROv/WXndmqOYYlmuahQBc9+3UhoCu/5a0mqxjOETT6olm+tkFCk+/ShUFAeHXeCSXJN4fE2TZw4QjoYb4XCwDHx6nDOdSvTEaPB+oFdCpda7YALKHo9EprYo4ALBg2u2qOssFQ4lYzsIA5XR2U5O+wUxWKK/3qYdbrbb4npu/FSn8JMzx5cUMo21TMzfJcirTgGfRahggVi1Z16A2znKRqUShmx0nj/twyF+kOFlz71ePxjVGNNHvS4Za/TBuRrdKqES0lDPm2knNi/cXEpxJ/RZB5t7BxidEu52S/7G'}}
0:33:32.654788	LOG	Server --------------------> DUT
0:33:32.657815	LOG	Send Test Command TxFramesCtrlReq process completed
0:33:32.660786	LOG	Send Test Command TxFramesCtrlReq process starts
0:33:37.542619	LOG	First uplink received. Open reception window.
0:33:37.646006	LOG	PUSH_ACK: 02 ea0f 01
0:33:37.647974	LOG	GPS Time from gateway: 1385121160777
0:33:37.649008	LOG	PUSH_DATA: Protocol version = 02, Token = ea0f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2729955484, 'time': '2023-11-27T11:52:21.777226Z', 'tmms': 1385121160777, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAEwoCxYLItVYQjIs/bU4='}]}
0:33:37.650974	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a13, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8b3f6d4e)
0:33:37.651972	LOG	Server <-------------------- DUT
0:33:37.653972	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06c4, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: bcdcfbed)
0:33:37.656003	LOG	Frame command sent to the DUT
0:33:37.657005	LOG	PULL_RESP: Protocol version = 02, Token = 87c9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2731955484, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAxAbg8Jn4QgOuPp3HBOd9UoonNJC40LrTMoWjoiaoTG0xd9caNnXTPIKEaETuqVDe+w3mTbM4UIflV0A1ZWt2OCxpCMtvz8djk9xxw3By/b1pSgNOapuR89ib+UUIsd6dIiaEpflb6xl39AD82s4YZ4hZYJG4Ujal28U8i+/lvRiT2vvBd

		9SLQo1piNm9vOoCelCUkQDh8VvFha/vzvniH8wps8io+n7FYEp3cBPxbtCkzWOIoStNqKWnHpyBr4Zx7azbj+uPm68fcfRlFQkVMHMUultxlrT/DIEtYY+ECllbx9L4QIvDqB31nLaEKcnLy/gkKO+83Pvt'}}
0:33:37.658007	LOG	Server --------------------> DUT
0:33:37.660974	LOG	Send Test Command TxFramesCtrlReq process completed
0:33:37.664971	LOG	Send Test Command TxFramesCtrlReq process starts
0:33:41.865154	LOG	GPS Time updated: 1385121165100
0:33:41.867142	LOG	PULL_DATA: 02 587a 02 0016c001ff1025bf
0:33:41.868153	LOG	PULL_ACK: 02 587a 04
0:33:42.534050	LOG	First uplink received. Open reception window.
0:33:42.647119	LOG	PUSH_ACK: 02 bb55 01
0:33:42.649086	LOG	GPS Time from gateway: 1385121165777
0:33:42.650121	LOG	PUSH_DATA: Protocol version = 02, Token = bb55, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2734955216, 'time': '2023-11-27T11:52:26.776957Z', 'tmms': 1385121165777, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3377, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAFAoC8JRHRqZTDCITmcM='}]}
0:33:42.652130	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a14, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 221399c3)
0:33:42.653121	LOG	Server <-------------------- DUT
0:33:42.655124	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06c5, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 49282145)
0:33:42.657118	LOG	Frame command sent to the DUT
0:33:42.658120	LOG	PULL_RESP: Protocol version = 02, Token = 8537, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2736955216, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAxQbgUitw1K+ACQv0X2dnXNiaEGHQQGPEMY9Dj7dQG5C2JSFJ1m8GhVtdCjqdeN5q9J/OdBJ8uhvC4LKDV9YfB1NdHZHNxhdw4TDE5/iaaPZZpWyeZconoI+QUsVqZvQ7S63QwKy5kB+vxXLwkd9Ue4zIKg+77mEP0anul64MH6dFSKgZkx0AoeVWGg53YB+TlRrtlzxVX3okelr/BktIuoyFjPsghwsT/zYpjTbVxE3ZYlemUS/Ocj4E5IEMQB/5rItBPhmzzy1COEj74IIkcXqeElyXjnOinOck+SG+ya+aUfeZz3hn+jgSe9WMqeXPsbGcFIxJKCFF'}}
0:33:42.659121	LOG	Server --------------------> DUT
0:33:42.662087	LOG	Send Test Command TxFramesCtrlReq process completed
0:33:42.666085	LOG	Send Test Command TxFramesCtrlReq process starts
0:33:47.542595	LOG	First uplink received. Open reception window.
0:33:47.652655	LOG	PUSH_ACK: 02 7950 01
0:33:47.654623	LOG	GPS Time from gateway: 1385121170776
0:33:47.655622	LOG	PUSH_DATA: Protocol version = 02, Token = 7950, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2739954992, 'time': '2023-11-27T11:52:31.776731Z', 'tmms': 1385121170776, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAFQoCVBk5SJy5Gw7YCg4='}]}
0:33:47.657624	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a15, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0ed80a0e)
0:33:47.658623	LOG	Server <-------------------- DUT
0:33:47.660623	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06c6, FOpts:), FPort: e0, FRMPayload:

		070001), MIC: c50c1298)
0:33:47.662623	LOG	Frame command sent to the DUT
0:33:47.663623	LOG	PULL_RESP: Protocol version = 02, Token = b7f6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2741954992, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAxgbgDYl+XpNTUtEuo3GuSOCNBelBMX2ficYqyfY84NPV2D4UxJn1IlXYXCfaMep9+PwWtTVTureWZPBPMdurvMeSdDyQNhNwVETZzH71BJfH55XNqSPehhnyVx8M4U3L5JvgnBdqI1BXlnP6VA0dsvfw/kCgxBdAnj1B3kCDbZR8d6eWUpSdXn1yzyqw62HMssIgNUXw6fY+rp1s6wfwnn0IY02M4ilqfbt4NAH6HqiaeFtXSZ9800LuFQNYCRRU2A1o1fp/QYWSyUehugxIi3kvbaBmRn59dufoTf7v8IW5edmrZ23IAv6es+SjTuq6flyOBU/FDBKY'}}
0:33:47.665623	LOG	Server --------------------> DUT
0:33:47.667623	LOG	Send Test Command TxFramesCtrlReq process completed
0:33:47.671632	LOG	Send Test Command TxFramesCtrlReq process starts
0:33:52.074666	LOG	GPS Time updated: 1385121175308
0:33:52.076636	LOG	PULL_DATA: 02 c976 02 0016c001ff1025bf
0:33:52.077669	LOG	PULL_ACK: 02 c976 04
0:33:52.539650	LOG	First uplink received. Open reception window.
0:33:52.651879	LOG	PUSH_ACK: 02 2bed 01
0:33:52.654046	LOG	GPS Time from gateway: 1385121175776
0:33:52.655047	LOG	PUSH_DATA: Protocol version = 02, Token = 2bed, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2744954759, 'time': '2023-11-27T11:52:36.776499Z', 'tmms': 1385121175776, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAFgoCD9lS6XaFBbDd9zo='}]}
0:33:52.657015	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a16, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b0ddf73a)
0:33:52.658047	LOG	Server <-------------------- DUT
0:33:52.660015	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06c7, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 39304086)
0:33:52.661046	LOG	Frame command sent to the DUT
0:33:52.663029	LOG	PULL_RESP: Protocol version = 02, Token = 5404, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2746954759, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAxwbguWPulBwyb7vlx2jSwBexEJkB+B5crfwp3KAfaDzurCE9xZU4kHtcKz/z39bdA/fL5al2uZZTc4/9FRSB81uC6pFsV89zVyVkDmocyvQEgC7uA3fj41lQQPyLQG/JSXv2HgGfB85MaKa9TxDkPdPVQ/OA6bbnM/AA/jc2c/ubmXw3Fyrh1qPbAfd1bUrd6VSRrOb63kw9GcyJwVIlIMrbtua9qS1N+NPdRapMYtQsEDZVS5H4YRBn0N6Asn030zS8Yrl6Wfxoic5wTp3aKwtv933kWrkczvwusPcX9ejwSRqrzWaA7IjVSa4bj0ANz4pv6ZM5MECG'}}
0:33:52.664046	LOG	Server --------------------> DUT

0:33:52.667013	LOG	Send Test Command TxFramesCtrlReq process completed
0:33:52.670045	LOG	Send Test Command TxFramesCtrlReq process starts
0:33:57.543229	LOG	First uplink received. Open reception window.
0:33:57.655801	LOG	PUSH_ACK: 02 df4e 01
0:33:57.657307	LOG	GPS Time from gateway: 1385121180776
0:33:57.659311	LOG	PUSH_DATA: Protocol version = 02, Token = df4e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2749954539, 'time': '2023-11-27T11:52:41.776278Z', 'tmms': 1385121180776, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAFwoCJcbC80X2U82S3UE='}]}
0:33:57.660308	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a17, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: cd92dd41)
0:33:57.662308	LOG	Server <-------------------- DUT
0:33:57.663345	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06c8, FOpts:), FPort: e0, FRMPayload: 070001, MIC: 7e43e560)
0:33:57.665341	LOG	Frame command sent to the DUT
0:33:57.666341	LOG	PULL_RESP: Protocol version = 02, Token = 278b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2751954539, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAyAbgngRvePFGqcn0THjkjOt8m6BEX7dRfym7QV/xC+Wf1Qyoczh7E294I+zY8C0GKTS7IZ30/LKh+9fwUijAj3zztCkdZtdwRmzdGIarC++fRgwb8z2DQdsHqzl8hQldd1g3w5fAZvibwwehtkACYkwERaDKkdqAk7u4XHLufKADi1/LoOM9IlOUEXoBzpf1R236oClZtUwRB/eLMVKAG/HGks4ncjUf0Kmw/W/2ADLE3twYtdyoDpu46V+jHVuv1O4UrrEN3Wmm+IHG6/u3I6/8IIdt80jFg3YQQjEpmyNcOn381N+zfJgWc78p7I4Lw3JD0Bt+Q+Vg'}}
0:33:57.668331	LOG	Server --------------------> DUT
0:33:57.670347	LOG	Send Test Command TxFramesCtrlReq process completed
0:33:57.674357	LOG	Send Test Command TxFramesCtrlReq process starts
0:34:02.285589	LOG	GPS Time updated: 1385121185517
0:34:02.286588	LOG	PULL_DATA: 02 c3b6 02 0016c001ff1025bf
0:34:02.288558	LOG	PULL_ACK: 02 c3b6 04
0:34:02.539111	LOG	First uplink received. Open reception window.
0:34:02.641910	LOG	PUSH_ACK: 02 d846 01
0:34:02.643878	LOG	GPS Time from gateway: 1385121185776
0:34:02.644877	LOG	PUSH_DATA: Protocol version = 02, Token = d846, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2754954271, 'time': '2023-11-27T11:52:46.776009Z', 'tmms': 1385121185776, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAGAoCmmvWnPYFycY1esI='}]}
0:34:02.646882	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a18, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c6357ac2)
0:34:02.647882	LOG	Server <-------------------- DUT
0:34:02.649882	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06c9, FOpts:), FPort: e0, FRMPayload: 070001

		01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 7f8f81fb)
0:34:02.651883	LOG	Frame command sent to the DUT
0:34:02.652915	LOG	PULL_RESP: Protocol version = 02, Token = d99d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2756954271, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAyQbgRocsQuJtD2Utmvz66hjvAy42WwWMLgvO7gSx30cZ/eHv1ix yXiB9iJQYMWq3MkePGPuqVClrRPYotRLSRHbAf5IGZUnAqs64K5v18rYTQh YtkwAv4bWrWKxRwLnSXsaf3JukzsUyWLm7A74MWRM+4yDUZ857iWrcCGF qqB9kyJk1FSVIDmY4w3lpjxTK9F3mmqWiTtLGiC3ZGY1Zux3rd1HTIHA1S+W S5KAaCLDdrAI3kH8NPR6xMB0Daku8jj+aSx1rMtpIH+q+PxQpASp7MlusPd3A uuy5Sr1ki6Bx0ChHaIbgkMxeYowxxGb1sENtnUJ/j4H7'}}
0:34:02.653915	LOG	Server --------------------> DUT
0:34:02.656883	LOG	Send Test Command TxFramesCtrlReq process completed
0:34:02.660882	LOG	Send Test Command TxFramesCtrlReq process starts
0:34:07.542526	LOG	First uplink received. Open reception window.
0:34:07.646936	LOG	PUSH_ACK: 02 02c2 01
0:34:07.648936	LOG	GPS Time from gateway: 1385121190775
0:34:07.649937	LOG	PUSH_DATA: Protocol version = 02, Token = 02c2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2759954044, 'time': '2023-11-27T11:52:51.775781Z', 'tmms': 1385121190775, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAGQoC+MQVjGdk3n1Fs3U='}]}
0:34:07.651995	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a19, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7d45b375)
0:34:07.653028	LOG	Server <-------------------- DUT
0:34:07.654995	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06ca, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 4d3cfedd)
0:34:07.657029	LOG	Frame command sent to the DUT
0:34:07.658027	LOG	PULL_RESP: Protocol version = 02, Token = 9c3c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2761954044, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAygbgJy2CT56DbaLCZCYVrhqoDmnUTh+2SuHJJZMav3La0knRH o84K4193bbvX4lJQOkKcyLKxmU82aMRMTOsBdWmibbV65T0CQOToC9WY VSjm9qk5786HJ5pxvI3dNV5QYjJzmXYxAW73W4NLvjksbgp5p71IkfNB0/Tz/Rl Xd+bg8973In4liHpuXfTV3LFbrVSDOO4KbHqUuDM3kYgALaEkr13hTLl46L3k ko+Z/leNH3MJS3bM1UND/VViC1ETCIB3vTWyJCUeRWgdmOprTbGdgfb6/eJ4 tHfxTTAO1SZVUl4HOve/SQbzUmHqJbXQwd+ALBNPP7d'}}
0:34:07.659026	LOG	Server --------------------> DUT
0:34:07.661997	LOG	Send Test Command TxFramesCtrlReq process completed
0:34:07.665995	LOG	Send Test Command TxFramesCtrlReq process starts
0:34:12.484549	LOG	GPS Time updated: 1385121195718
0:34:12.486507	LOG	PULL_DATA: 02 35aa 02 0016c001ff1025bf
0:34:12.487507	LOG	PULL_ACK: 02 35aa 04
0:34:12.535538	LOG	First uplink received. Open reception window.

0:34:12.648262	LOG	PUSH_ACK: 02 a974 01
0:34:12.650229	LOG	GPS Time from gateway: 1385121195775
0:34:12.651230	LOG	PUSH_DATA: Protocol version = 02, Token = a974, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2764953810, 'time': '2023-11-27T11:52:56.775546Z', 'tmms': 1385121195775, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAGgoC7lHkn4ImHt6QciM='}]}
0:34:12.653278	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a1a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: de907223)
0:34:12.654230	LOG	Server <-------------------- DUT
0:34:12.656269	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06cb, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 90caa855)
0:34:12.658269	LOG	Frame command sent to the DUT
0:34:12.659300	LOG	PULL_RESP: Protocol version = 02, Token = 7533, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2766953810, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAywbg8D0N0hbEqmgk0fNntDgyRs12O/Fk1sJOsc4MEgXRB5QYai Wi1bpp9y4QToElm9hOXjh1Ihkof77ri/gbQJfLR1cifXKVg7ClENbSPf8PPnFFBdo 8lvPauBKOHhBp/QboDx/oeMc/c9Cz/KQA5wsomAKT2GqCOtIoHt/uXi2huFBQ B7Hz1uRvT3jAQWOAs+O5uzQ22jPGFkk7kgdrrUissoyhMLZVA7NwbotuS+8Lk YOdPpvQUhmXK0wVIDHeYX6TWlUi6kSXqjLeEHkA3QeErXEVSyUxp/hFcM QTZKfMbkU/6si0W+2Bla1yuw5+VExZ+8aQyqhV'}}
0:34:12.661269	LOG	Server --------------------> DUT
0:34:12.664270	LOG	Send Test Command TxFramesCtrlReq process completed
0:34:12.667301	LOG	Send Test Command TxFramesCtrlReq process starts
0:34:17.540566	LOG	First uplink received. Open reception window.
0:34:17.654107	LOG	PUSH_ACK: 02 19c2 01
0:34:17.656107	LOG	GPS Time from gateway: 1385121200775
0:34:17.657112	LOG	PUSH_DATA: Protocol version = 02, Token = 19c2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2769953554, 'time': '2023-11-27T11:53:01.775288Z', 'tmms': 1385121200775, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.8, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAGwoCNjnSGD3aglrhf2s='}]}
0:34:17.659075	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a1b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5ae17f6b)
0:34:17.660079	LOG	Server <-------------------- DUT
0:34:17.662113	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06cc, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 11a740d9)
0:34:17.664113	LOG	Frame command sent to the DUT

0:34:17.665113	LOG	PULL_RESP: Protocol version = 02, Token = 9cc0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2771953554, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAzAbgqr/a2xKCygCR2/eF1IrD0qbYEBS1T3zzk8Ty4rZnu9JXwaf92KHMkTkJc6GRs2D7eMLyjWYPxXASx5AwvppnTNR2cGVh4SPXX+/1n2QUf3tBwXq+fPwf+oa3ZaO02CaJ4unHeglG5l9DIjadR4sEv6X+ibDknECr7jKjTdqW9mUQyXIXLSSG/lw2dsneSNSq4JsqL7J8o0Ik7Dtp9QtPrVVN2pIOXu+0B4+06pkvhRmq6jDy/NNtuyqaYW7DS39cxYe0mWrIcjHc7CJoBJZwQcrWCqZV0cm77Hs81jB/mvhUZt1q6eeB/cB8mqfmYkVjDqIRp0DZ'}}
0:34:17.666114	LOG	Server --------------------> DUT
0:34:17.669081	LOG	Send Test Command TxFramesCtrlReq process completed
0:34:17.673080	LOG	Send Test Command TxFramesCtrlReq process starts
0:34:22.494758	LOG	GPS Time updated: 1385121205729
0:34:22.495757	LOG	PULL_DATA: 02 cc84 02 0016c001ff1025bf
0:34:22.497758	LOG	PULL_ACK: 02 cc84 04
0:34:22.539080	LOG	First uplink received. Open reception window.
0:34:22.653830	LOG	PUSH_ACK: 02 6fb6 01
0:34:22.655849	LOG	GPS Time from gateway: 1385121205775
0:34:22.656848	LOG	PUSH_DATA: Protocol version = 02, Token = 6fb6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2774953328, 'time': '2023-11-27T11:53:06.775063Z', 'tmms': 1385121205775, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAHAoCpx1nWEfFigsZJSY='}]}
0:34:22.658849	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a1c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0b192526)
0:34:22.659849	LOG	Server <-------------------- DUT
0:34:22.661849	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06cd, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 678087da)
0:34:22.663848	LOG	Frame command sent to the DUT
0:34:22.664853	LOG	PULL_RESP: Protocol version = 02, Token = 99d3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2776953328, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAzQbgM9oNsxPAN6Mmonf6QIJVVZF1QZ3ELFwOIbLlt0lOiqNLUkC8Lsx3W72N59vxyT+a07D6GcT1l61WwoWSoO/pZwHEjWTTM1oUJ5hmn8GGqgbp+5iFOLc+jZlv/pA0WwTxK/8t/leScBxlL1r1Ot4i10JWWgYFP4t012a3l/03UWFp2XEOvUziYWpLUJfNXk69jsSVKw5Pbt/6wXWySqN9mEiTcWz+kFBlTV4yS5OdW1vaxgKcf6H8VloVYVaaVkHubZOPHv5CyoG8fZdih0rAzyEOriWVxCoAVoo4lEt77rAeHn0Q+4ccNJTLwhcJSloTTWtngIfa'}}
0:34:22.665853	LOG	Server --------------------> DUT
0:34:22.668870	LOG	Send Test Command TxFramesCtrlReq process completed
0:34:22.672853	LOG	Send Test Command TxFramesCtrlReq process starts
0:34:27.534367	LOG	First uplink received. Open reception window.
0:34:27.638532	LOG	PUSH_ACK: 02 304e 01
0:34:27.640496	LOG	GPS Time from gateway: 1385121210774
0:34:27.641496	LOG	PUSH_DATA: Protocol version = 02, Token = 304e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2779953103, 'time': '2023-11-27T11:53:11.774837Z', 'tmms': 1385121210774, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAHQoCBtZ8gyD5nfFJXHY='}]}
0:34:27.642495	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a1d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f1495c76)
0:34:27.644495	LOG	Server <-------------------- DUT
0:34:27.646496	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06ce, FOpts:), FPort: e0, FRMPayload: 070001), MIC: d93056c1)
0:34:27.648495	LOG	Frame command sent to the DUT
0:34:27.649495	LOG	PULL_RESP: Protocol version = 02, Token = a2a1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2781953103, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAzgbg2mLnThu3z09+MuO2FIEFt3v7RPsuSimMMvEac3R348Ydk/kZ61IsNxiZ/SdbJogKQC+ckTjhvZtBZBc7Sz/ikanviWX1tgHBsJXRfRDtgrxui8O+lsqtx+OcF63SicIvfhgm9aqW2tZGgxgImtshTGO1MgjDxoSpAbe4l6JSV3xm5SYpjgzCRwu5FXzX4I6O33oT1fymNq7UKWMnQS6ryav/RiJf+mqQD7c8LtpUwAALxRXXhqU+xUXRgpu72eIGa5JUpHk2X2C7QXuu7+3ZvdeV0vAAwapsywz7/bykxPi4l6pELptW5QUJzccdhD3vzWbZMFbB'}}
0:34:27.650495	LOG	Server --------------------> DUT
0:34:27.653496	LOG	Send Test Command TxFramesCtrlReq process completed
0:34:27.656531	LOG	Send Test Command TxFramesCtrlReq process starts
0:34:32.532806	LOG	First uplink received. Open reception window.
0:34:32.639309	LOG	PUSH_ACK: 02 1ca9 01
0:34:32.641308	LOG	GPS Time from gateway: 1385121215774
0:34:32.642303	LOG	PUSH_DATA: Protocol version = 02, Token = 1ca9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2784952843, 'time': '2023-11-27T11:53:16.774576Z', 'tmms': 1385121215774, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAHgoCRW1hnXnVUR3Okjg='}]}
0:34:32.644277	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a1e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1dce9238)
0:34:32.645290	LOG	Server <-------------------- DUT
0:34:32.647309	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06cf, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 9f4581b3)
0:34:32.649308	LOG	Frame command sent to the DUT
0:34:32.650312	LOG	PULL_RESP: Protocol version = 02, Token = c233, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2786952843, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAzwbgp3yf774TBBxYduCthV4noo2IddMnThS7KYIugAg4QpCpHEnWzgESE078BcsezumMi0xIeBbO93IARBczYaG6VAE0zGGHZ+Nui7HrwmpHdjSFOxl1+9rYIH1ieRt5gyrej2oleU6jJjEHHbR6trWBCq5ftMYpTNXiEgs7bf76i5blx

		C+91wL9yr/+Ip9dOMQa2jQEpk8eUZr6xkwv2n8bDYXyY0UPkJQFHSXoLdoboc LuChMK/z6CHo7ZTaTN4soNgzugihf06sCd5lhGhB7qN9dJKXg4JRbTn38W3yYo akjJmTZdJ7Sv5uiWR06XlTKyaaqfRYGz'}}
0:34:32.651309	LOG	Server --------------------> DUT
0:34:32.654309	LOG	Send Test Command TxFramesCtrlReq process completed
0:34:32.658274	LOG	Send Test Command TxFramesCtrlReq process starts
0:34:37.535284	LOG	First uplink received. Open reception window.
0:34:37.640264	LOG	PUSH_ACK: 02 1fca 01
0:34:37.642232	LOG	GPS Time from gateway: 1385121220774
0:34:37.643233	LOG	PUSH_DATA: Protocol version = 02, Token = 1fca, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2789952578, 'time': '2023-11-27T11:53:21.774310Z', 'tmms': 1385121220774, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3377, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAHwoCeCVg+OkLzgGeth4='}]}
0:34:37.645233	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a1f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 019eb61e)
0:34:37.646246	LOG	Server <-------------------- DUT
0:34:37.648233	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06d0, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: e603a253)
0:34:37.650232	LOG	Frame command sent to the DUT
0:34:37.651232	LOG	PULL_RESP: Protocol version = 02, Token = 5330, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2791952578, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA0AbgPBbpGyts1yqm6ZTy06Z1OpHhcuP59x68YpGd79+MR2Eu2Y QRpHfnTlVgXKin4Tl4L776Q5KelhwVl4i1udJruk6Vq/esha5Vv6+QqHjTddSbL5v 0URfaM0Xno8nFWZq9eEQEkas/6zeLjqIi1hCEhTbQXKwRbWpW+q4m9mwKyd xxX4NtatJ66nJuND9Wi3F1yqvIpMyNJodamZ6xl4tyQmm8XcCAPqz6LM9PIuj1 N9X/hR2hIi9VPISDlgARdxLihroeIjQVZ7RmKklBwrLmFzcNjtAL92pJW65zJHlt aU4p3zAWzgqZRsVGIEeH4/pUEuXmA6JT'}}
0:34:37.652232	LOG	Server --------------------> DUT
0:34:37.655240	LOG	Send Test Command TxFramesCtrlReq process completed
0:34:37.659230	LOG	Send Test Command TxFramesCtrlReq process starts
0:34:42.538821	LOG	First uplink received. Open reception window.
0:34:42.654325	LOG	PUSH_ACK: 02 d335 01
0:34:42.656293	LOG	GPS Time from gateway: 1385121225774
0:34:42.657292	LOG	PUSH_DATA: Protocol version = 02, Token = d335, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2794952347, 'time': '2023-11-27T11:53:26.774078Z', 'tmms': 1385121225774, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAIAoCU/dklUDTLHTTRgI='}]}
0:34:42.659299	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a20, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 74d34602)
0:34:42.660304	LOG	Server <-------------------- DUT
0:34:42.662295	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06d1, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010

		1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 0f8e6569)
0:34:42.664325	LOG	Frame command sent to the DUT
0:34:42.665325	LOG	PULL_RESP: Protocol version = 02, Token = 0f95, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2796952347, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA0Qbgz5GAf14gvquttHeHA7Hgy0ikQ9fiAUdY/AlKl1D5Wyi3qjzs2W1jZWqrk7oFEitPmc5rKmfcSiXBf+aXRYCu52FJt5e4wN5iKrPGwY0N6EZMUmYoEi0kCauN5HgKDOgbnDELxQrRiVz3PJMJW6yf6g1wHlMlrDAUc5xvURJPzxfRxIYwuKnthgqiyYwJK4SY53/85dVCFCVmov/oPmLjM09gZgI78i8xOOwflVlp6+itFrx/NvpnCoCg6ri/5tqfNMbu5z/ITvDgpYjQ6un/3cAVa8IVn9ZVssKoQydUVcb8Y2RkwX+PCKpE4TyhKLgg5/0PjmVp'}}
0:34:42.666326	LOG	Server --------------------> DUT
0:34:42.669331	LOG	Send Test Command TxFramesCtrlReq process completed
0:34:42.673334	LOG	Send Test Command TxFramesCtrlReq process starts
0:34:47.533130	LOG	First uplink received. Open reception window.
0:34:47.643937	LOG	PUSH_ACK: 02 83a7 01
0:34:47.645937	LOG	GPS Time from gateway: 1385121230773
0:34:47.646940	LOG	PUSH_DATA: Protocol version = 02, Token = 83a7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2799952098, 'time': '2023-11-27T11:53:31.773827Z', 'tmms': 1385121230773, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAIQoC1FwLuXqUebKiNI0='}]}
0:34:47.648906	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a21, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b2a2348d)
0:34:47.649905	LOG	Server <-------------------- DUT
0:34:47.651938	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06d2, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 91f419b1)
0:34:47.653929	LOG	Frame command sent to the DUT
0:34:47.654939	LOG	PULL_RESP: Protocol version = 02, Token = 6761, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2801952098, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA0gbgxKIvTshFYuaeCdjMiOhBwW/6x+BH7FBYPetONtNcUV6TClYTLGfcCttvJDIHCBA79jEz/vtYqxLtr/XJnINtEsJLoStf2lSw+B5cp2mmukuI78Fgh4lMjguYG/i1l+2gHv46LJTL5vWUKfrA5gHm29YjP8eKHNtFGHiAD3WYKRqnIg9MJ/vBNj9eq/dWv7Y6lPmcXWGktLuHJM1snQBqwkracT5HChR7Aq1h4+5ekQ55ejVMxUAB+8LnfxwJbmKrGGKwOnKubZcox3/hiOjz1nrBlc4gcDAWLXB1nM8AITQt0/laAYMY9dMdW0vGgGLF1NmR9Bmx'}}
0:34:47.655937	LOG	Server --------------------> DUT
0:34:47.658905	LOG	Send Test Command TxFramesCtrlReq process completed
0:34:47.662903	LOG	Send Test Command TxFramesCtrlReq process starts
0:34:52.531165	LOG	First uplink received. Open reception window.
0:34:52.641688	LOG	PUSH_ACK: 02 695b 01
0:34:52.643691	LOG	GPS Time from gateway: 1385121235773

0:34:52.645692	LOG	PUSH_DATA: Protocol version = 02, Token = 695b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2804951840, 'time': '2023-11-27T11:53:36.773570Z', 'tmms': 1385121235773, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAIgoCqT95oTENnwYi3JM='}]}
0:34:52.646691	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a22, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0622dc93)
0:34:52.647690	LOG	Server <-------------------- DUT
0:34:52.650690	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06d3, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 9ef50416)
0:34:52.651723	LOG	Frame command sent to the DUT
0:34:52.652723	LOG	PULL_RESP: Protocol version = 02, Token = 5c7a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2806951840, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA0wbggaZZj2dboJWwVlK2bGSV6O8/+BwNQYmU9D6s89ox3o1e85+GXhzE6xPZikqWAmCLNtVGqN8DXoYgxgg4SRzKSDPNpjZht3A1nUHiuuYbAwlMK8cuZ41Kut45EW4tABRGtpdcYJrOrog6QHQTHY12/sP1zJCSX0Q4F1hY6O3+aFnQQ/OzHJh4bL/7u949Wk7on+gtrGt5+EjmklhiHSW+1PK5CoR3Xs3VOQVkoyntv6giJ/S8gjASjL1ewp2B/jwh1bIoibvdbr42t7rUTf1AOr5x8xwPgRXPG0VWkDMj4ZVl9+jK48ibDiajLmOItZiJWCue9QQW'}}
0:34:52.654722	LOG	Server --------------------> DUT
0:34:52.656722	LOG	Send Test Command TxFramesCtrlReq process completed
0:34:52.660724	LOG	Send Test Command TxFramesCtrlReq process starts
0:34:52.864617	LOG	GPS Time updated: 1385121236105
0:34:52.865618	LOG	PULL_DATA: 02 ed6b 02 0016c001ff1025bf
0:34:52.866651	LOG	PULL_ACK: 02 ed6b 04
0:34:57.535743	LOG	First uplink received. Open reception window.
0:34:57.649605	LOG	PUSH_ACK: 02 15c7 01
0:34:57.651604	LOG	GPS Time from gateway: 1385121240773
0:34:57.652606	LOG	PUSH_DATA: Protocol version = 02, Token = 15c7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2809951578, 'time': '2023-11-27T11:53:41.773307Z', 'tmms': 1385121240773, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAIwoCm6m3p23n06GjBl0='}]}
0:34:57.654589	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a23, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a1a3065d)
0:34:57.655607	LOG	Server <-------------------- DUT
0:34:57.657574	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06d4, FOpts:), FPort: e0, FRMPayload: 070001), MIC: b57e57a7)
0:34:57.659605	LOG	Frame command sent to the DUT

0:34:57.660607	LOG	PULL_RESP: Protocol version = 02, Token = db46, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2811951578, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA1AbgeBDjdUeSyHv47l8XJArNeLTGeWcZJr8bTBAD53FXt7rL/liaqJhNELCq9eAMdxkz/JXGfXg1rsF328cZ9kw80Dotm+EnqzQ1EhIojmRvZFNz2kqN1pj48gbJ7okz8y37pfHeCJphCI++hZPN0kRybXg2zBYz92gBO8SVquUHaMFN6B0akjBuRaoO8BWpBKq71DaKcB9r+CESyK5klB5ZBlvetVlegMx7hIylnDsABrb7XW2TwHJMQGHeelhBKh7dokR12Kre/fTCjB825ACu4fuQ6nMngLX61FMthL2ee8ZUDn4L7ZMFXcYzxtk9hMogkie1flen'}}
0:34:57.661605	LOG	Server --------------------> DUT
0:34:57.664607	LOG	Send Test Command TxFramesCtrlReq process completed
0:34:57.668573	LOG	Send Test Command TxFramesCtrlReq process starts
0:35:02.537597	LOG	First uplink received. Open reception window.
0:35:02.652494	LOG	PUSH_ACK: 02 972e 01
0:35:02.654494	LOG	GPS Time from gateway: 1385121245773
0:35:02.655496	LOG	PUSH_DATA: Protocol version = 02, Token = 972e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2814951310, 'time': '2023-11-27T11:53:46.773038Z', 'tmms': 1385121245773, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAJAoCl3ncubWtaIH9ZEs='}]}
0:35:02.657461	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a24, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 81fd644b)
0:35:02.658461	LOG	Server <-------------------- DUT
0:35:02.660479	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06d5, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: bdbe5073)
0:35:02.661495	LOG	Frame command sent to the DUT
0:35:02.663502	LOG	PULL_RESP: Protocol version = 02, Token = 4136, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2816951310, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA1QbgKgKK30H24m42o20qlclDVJ+/+ZF8ZYpxDmZKQJ2+yyD+1eZe8T/2l7xB+C5UVUB26cbTL0Pix91yyt1M5wGqr6Epa60KqRsFPERLEdt8hDlni02GvZuh5z/mFfr5bND7M/Fn3OKn/6jbNBtKYcQGUGc2sSja4NZ1rs4lgLbhgU3Qf31SoQKOvDGs21qDY3Bf3iyDMs1lCN63vSuPry7ebTuTZDO+KKvth7KWn7uibyOaCL/lDtBqeZZbYKQ2N1PGhNFjLvDZduTBlK2v5U5aoumt2hiA+16Y7jgP4wWhKANxXsAeS+bGDw/I8t8hyLGQNO69vlBz'}}
0:35:02.664495	LOG	Server --------------------> DUT
0:35:02.667465	LOG	Send Test Command TxFramesCtrlReq process completed
0:35:02.670461	LOG	Send Test Command TxFramesCtrlReq process starts
0:35:02.879410	LOG	GPS Time updated: 1385121246115
0:35:02.881378	LOG	PULL_DATA: 02 8963 02 0016c001ff1025bf
0:35:02.882378	LOG	PULL_ACK: 02 8963 04
0:35:07.534975	LOG	First uplink received. Open reception window.
0:35:07.642703	LOG	PUSH_ACK: 02 b2f8 01
0:35:07.644671	LOG	GPS Time from gateway: 1385121250772
0:35:07.645670	LOG	PUSH_DATA: Protocol version = 02, Token = b2f8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2819951055, 'time': '2023-11-27T11:53:51.772782Z', 'tmms': 1385121250772, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAJQoCwJ2OuTiwSh1tJ8M='}]}
0:35:07.647671	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a25, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1d6d27c3)
0:35:07.648671	LOG	Server <-------------------- DUT
0:35:07.650670	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06d6, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 9c256569)
0:35:07.652670	LOG	Frame command sent to the DUT
0:35:07.653671	LOG	PULL_RESP: Protocol version = 02, Token = 07f7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2821951055, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA1gbgAmeVbCU7KduJqZLeVJgXqDx3s58AQ5DKP9BUc7zCZwUecVhAcwg/H2kSz8wsUyjBVOcQ/90iLHhjWLTqgYVcsOT+k06AMXjnlvUp7lUVzBMFJC4/jUTKe/Us82KYpOqR0naP3cnSag+hDvjjLogQy2HS8+Tic4eFDq7ALa1ZwxrdIpEWy9bo4tHGcteCxVCp7h/TewbiL5ix3+oDYucrA/eacZWHUGAd26zS+LyWt+NrYjp5SgVXO+/LETflJMnLZQOZDX1z+Nk8Vx6GLGrWLI6Sj6ZrsR/99IirXoZAKLxTOWUFNc3+juxh9FQNE/GoElWcJWVp'}}
0:35:07.654669	LOG	Server --------------------> DUT
0:35:07.657677	LOG	Send Test Command TxFramesCtrlReq process completed
0:35:07.660669	LOG	Send Test Command TxFramesCtrlReq process starts
0:35:12.536839	LOG	First uplink received. Open reception window.
0:35:12.644379	LOG	PUSH_ACK: 02 1945 01
0:35:12.646379	LOG	GPS Time from gateway: 1385121255772
0:35:12.647383	LOG	PUSH_DATA: Protocol version = 02, Token = 1945, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2824950835, 'time': '2023-11-27T11:53:56.772561Z', 'tmms': 1385121255772, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAJgoC+OMM5fqUgXOfNhU='}]}
0:35:12.649381	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a26, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 739f3615)
0:35:12.650380	LOG	Server <-------------------- DUT
0:35:12.652400	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06d7, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 10beeb77)
0:35:12.654415	LOG	Frame command sent to the DUT
0:35:12.655415	LOG	PULL_RESP: Protocol version = 02, Token = e158, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2826950835, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA1wbgQeJpwPH4QWNYpOXu8U0vEIrrbbnMLvwCYzE6n/bym8hPJbWBZi9t/P+AOBRrdr3hUctI5kX0PvT/zhZF5sbW4sD+6f9Ot/HY+g2OWBrTInVrYKiPLPEsuenHv1m5jJyat7UWo3/f5WmL4MlZrLggNKgVrmMP+dViTMr5g/o6C

		KnsKHD2EiTEFIFV+GAx72bk9BvXjM2HYlkCl2O0V8Tmzy9lQsoamYmEACftn 8H+vLXpNMvyudArFbNMzwheKotzKl3nrgLwvpxPOX/bPAk12pLiCeiwAFmM/ npnbUQ4zWtjA0CU9TL8BpKoW3KJTdZ+4WcQvut3'}}
0:35:12.657415	LOG	Server -------------------> DUT
0:35:12.659414	LOG	Send Test Command TxFramesCtrlReq process completed
0:35:12.663379	LOG	Send Test Command TxFramesCtrlReq process starts
0:35:13.075123	LOG	GPS Time updated: 1385121256312
0:35:13.078124	LOG	PULL_DATA: 02 bf49 02 0016c001ff1025bf
0:35:13.081121	LOG	PULL_ACK: 02 bf49 04
0:35:17.530712	LOG	First uplink received. Open reception window.
0:35:17.634133	LOG	PUSH_ACK: 02 94db 01
0:35:17.636100	LOG	GPS Time from gateway: 1385121260772
0:35:17.637119	LOG	PUSH_DATA: Protocol version = 02, Token = 94db, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2829950559, 'time': '2023-11-27T11:54:01.772283Z', 'tmms': 1385121260772, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.0, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAJwoCdY3iiOWb8zRvPVA='}]}
0:35:17.639100	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a27, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 346f3d50)
0:35:17.640099	LOG	Server <------------------- DUT
0:35:17.642101	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06d8, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: e1a20d9a)
0:35:17.644100	LOG	Frame command sent to the DUT
0:35:17.645132	LOG	PULL_RESP: Protocol version = 02, Token = a61e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2831950559, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA2Abg8g6zYpTWoQZlzYi4jdh9RVoOc1yu7RIdILiXUZqiUpi6xUW QK+d+ETHcBKXGLaArcv6bZ2xreiXrt8sM+p1Xfb2LcahKfI8QMG2M/SmaYhKf EZbrduriee7T8cocS0qP6AuxMbkz4sWpMcRt1ozERqTbL5xhRPcfHPKqbQNnsE APk3nAYGxIL38PhyfjZxBu4eaIGZhpG6l0S42XG2UVKqArNmYOOyazkkS20hP 57NdVUbJEzllmK0rYLhQ2+Enk11i6wX2Da/4DHyjyXZg3lMT4w6KqhDfHMW8 gNYWdrW1v6b9iqxbA0vFIu0XnPUORP6zhog2a'}}
0:35:17.646131	LOG	Server -------------------> DUT
0:35:17.649100	LOG	Send Test Command TxFramesCtrlReq process completed
0:35:17.653097	LOG	Send Test Command TxFramesCtrlReq process starts
0:35:22.528495	LOG	First uplink received. Open reception window.
0:35:22.630308	LOG	PUSH_ACK: 02 f233 01
0:35:22.632310	LOG	GPS Time from gateway: 1385121265772
0:35:22.634277	LOG	PUSH_DATA: Protocol version = 02, Token = f233, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2834950311, 'time': '2023-11-27T11:54:06.772036Z', 'tmms': 1385121265772, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAKAoCE9Rlzu8z1qzJM3Q='}]}
0:35:22.635276	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a28, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: acc93374)
0:35:22.636783	LOG	Server <------------------- DUT
0:35:22.638785	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06d9, FOpts:), FPort: e0, FRMPayload:

		070001), MIC: bec2f57f)
0:35:22.639819	LOG	Frame command sent to the DUT
0:35:22.641823	LOG	PULL_RESP: Protocol version = 02, Token = 3312, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2836950311, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA2QbgANPKFg4WfeZPsewRyOkE8FUyfypGhJHtfS13Q4z96Lt4W6+wpUwy0KCi5ezwll8trI/q5Ki5sp6kp+8f4lIm3WR66sdNB4jcXUAYSudwJOoWHB4zDYkYEdA6ikpDDmkzpLjf0TmOaEDZEPLZUSwUrcDswfFuh7epfLePbIilP4jG9GPhTAXj72kzHlZWlgOibAaZM1CX/jk6rkrafdoBmTi7uV9oEZznuQ+gKBHK0BoEsNomAxXILQuilE5W8IJ8dFlvEqxjMD1ZkllorHgRBcTkXZqj3p0hOa+0FjVIwqhNnMSqd6flpHgzUGq75ePP4eC+wvV/'}}
0:35:22.642820	LOG	Server -------------------> DUT
0:35:22.645785	LOG	Send Test Command TxFramesCtrlReq process completed
0:35:22.648783	LOG	Send Test Command TxFramesCtrlReq process starts
0:35:23.274159	LOG	GPS Time updated: 1385121266518
0:35:23.275146	LOG	PULL_DATA: 02 c112 02 0016c001ff1025bf
0:35:23.277116	LOG	PULL_ACK: 02 c112 04
0:35:27.534681	LOG	#***************************CURRENT BEACON SENT**************************#
0:35:27.536663	LOG	PULL_RESP: Protocol version = 02, Token = 89b1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385121280000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAARo9SHN4AAAAAAAAAAAA='}}
0:35:27.537698	LOG	Server -------------------> DUT
0:35:27.539664	LOG	#**#
0:35:27.549204	LOG	#***************************NEXT BEACON QUEUED***************************#
0:35:27.550203	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385121408000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACARo9SJAMAAAAAAAAAAAAA='}}
0:35:27.552172	LOG	Server -------------------> DUT
0:35:27.553204	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 80468f52, CRC1: 2403, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385121408000
0:35:27.555182	LOG	#**#
0:35:27.556184	LOG	Next BEACON scheduled at GPS time (ms): 1385121536000
0:35:27.558173	LOG	First uplink received. Open reception window.
0:35:27.559204	LOG	TX_ACK: 02 89b1 05 0016c001ff1025bf
0:35:27.667398	LOG	PUSH_ACK: 02 47e1 01
0:35:27.669446	LOG	GPS Time from gateway: 1385121270771
0:35:27.670447	LOG	PUSH_DATA: Protocol version = 02, Token = 47e1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2839950052, 'time': '2023-11-27T11:54:11.771776Z', 'tmms': 1385121270771, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAKQoCKo0bc4+eE1BQxu4='}]}

0:35:27.671447	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a29, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5050c6ee)
0:35:27.673459	LOG	Server <-------------------- DUT
0:35:27.675415	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06da, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 1a18c6d5)
0:35:27.676413	LOG	Frame command sent to the DUT
0:35:27.678413	LOG	PULL_RESP: Protocol version = 02, Token = c1c5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2841950052, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA2gbggRczEJLf018Z6IwbQ1BrmXux3C1hRLq2OWzgpSHsgvRspcVN/UpS0284v0UPOVvGmx+g0zNVwWS18PqoA0ozymQNEn1mz2TfwxzCPuKUE0uck1UMO6rvo3ctp9re48O/XET87DjNE3LS2DtXC4HbXoVw+Lft13DRutXGYpQiuP/xopmwUkZw13+2PQ9RPIetGe9TmT8z98qqrT/RuwJAMBczbH2pMuLdefesnoPy3ApYmuAuZSNkmJwQyPuWDywvpZAcaF7Nc4TZicw95OGI6OLxm3pmxT7tedO6quyhzeFbI3ekNw8EdwRg6HLSyqHP1XwaGMbV'}}
0:35:27.679413	LOG	Server --------------------> DUT
0:35:27.683415	LOG	Send Test Command TxFramesCtrlReq process completed
0:35:27.686447	LOG	Send Test Command TxFramesCtrlReq process starts
0:35:32.529246	LOG	First uplink received. Open reception window.
0:35:32.635439	LOG	PUSH_ACK: 02 46ca 01
0:35:32.637407	LOG	GPS Time from gateway: 1385121275771
0:35:32.638406	LOG	PUSH_DATA: Protocol version = 02, Token = 46ca, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2844949784, 'time': '2023-11-27T11:54:16.771507Z', 'tmms': 1385121275771, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAKgoCKjejYCyA3vfj1b8='}]}
0:35:32.640409	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a2a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f7e3d5bf)
0:35:32.641442	LOG	Server <-------------------- DUT
0:35:32.643945	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06db, FOpts:), FPort: e0, FRMPayload: 070001), MIC: dbfb6c23)
0:35:32.644983	LOG	Frame command sent to the DUT
0:35:32.646953	LOG	PULL_RESP: Protocol version = 02, Token = 3355, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2846949784, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA2wbgJslFYSWggVseECOMkwnwrMYGtbrXCg567X8sTl7/chEPNNxPWJ4REtSOO2MQPpVDSRuU95lwdEwwealcsy6+PCwwQxCg03QLgaSPoFbxf13LPit5B37GPHLCUsh3ojDUEzzzz5qUhfLEssEbUX3JuN4fdteiXoF466Eqh/Q3QHftnYtPSjf+k0JWKnfldL0me5x6zX36NypMtDQ8JoV9HzWB0SZr7arbcgVGfd

		L0txFHAbLhGn3ywTsbOI6bz0DhF3ORDnkFCKNef/MfdGMPrdH4S0nf2D5MzRhuprmlKqSsVeXA2Xt4vudzZUxLM/Tf8RTb+2wj'}}
0:35:32.647950	LOG	Server --------------------> DUT
0:35:32.650951	LOG	Send Test Command TxFramesCtrlReq process completed
0:35:32.653950	LOG	Send Test Command TxFramesCtrlReq process starts
0:35:33.484064	LOG	GPS Time updated: 1385121276726
0:35:33.486030	LOG	PULL_DATA: 02 89af 02 0016c001ff1025bf
0:35:33.487031	LOG	PULL_ACK: 02 89af 04
0:35:37.531836	LOG	First uplink received. Open reception window.
0:35:37.642882	LOG	PUSH_ACK: 02 2576 01
0:35:37.644847	LOG	GPS Time from gateway: 1385121280771
0:35:37.645848	LOG	PUSH_DATA: Protocol version = 02, Token = 2576, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2849949530, 'time': '2023-11-27T11:54:21.771252Z', 'tmms': 1385121280771, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAKwoCGViTKriKyi+JJWI='}]}
0:35:37.646849	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a2b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2f892562)
0:35:37.648887	LOG	Server <-------------------- DUT
0:35:37.651085	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06dc, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 1098d32c)
0:35:37.652088	LOG	Frame command sent to the DUT
0:35:37.654052	LOG	PULL_RESP: Protocol version = 02, Token = fa8e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2851949530, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA3Abg2gSRE60I/D8hjB85/h/5kgjB5TR6ANQdY4vOtc1x0C19sxAIb/bZk4Ay4M6OgCimJousa6bgQPBk4tT0t2KrNov2F/+yyGUzg+WAfdaZ6Fx0jDXU6EG817I8UydNPWMGOkoVPddTvXW4cG8jYSUIRNrFL5RsExC5hkMDuJwXPOBm1DJIiEqgkDoqElFBnnzoqTAy8kBPLOBC615pflXHLKoSYBVoUCnkumMB46JZzwIJ/Y5nLVlOPnS8sTh0OT7cdnNiVOnq/f2hwdjhth0ddgrRLd1XNhyGT1aYWfyXjLjITiebVSxMznwRT5Wsb33RnzEQmNMs'}}
0:35:37.655085	LOG	Server --------------------> DUT
0:35:37.658054	LOG	Send Test Command TxFramesCtrlReq process completed
0:35:37.661055	LOG	Send Test Command TxFramesCtrlReq process starts
0:35:42.533208	LOG	First uplink received. Open reception window.
0:35:42.638208	LOG	PUSH_ACK: 02 1a42 01
0:35:42.640213	LOG	GPS Time from gateway: 1385121285771
0:35:42.641213	LOG	PUSH_DATA: Protocol version = 02, Token = 1a42, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2854949298, 'time': '2023-11-27T11:54:26.771019Z', 'tmms': 1385121285771, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACALAoCsVJzlTr0UraXrv0='}]}
0:35:42.642212	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a2c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b697aefd)
0:35:42.644213	LOG	Server <-------------------- DUT
0:35:42.646212	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06dd, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010

		101), MIC: ea0ee733)
0:35:42.647211	LOG	Frame command sent to the DUT
0:35:42.649212	LOG	PULL_RESP: Protocol version = 02, Token = 318b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2856949298, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA3QbgK3fSwi0GiriEygEhEGenaIAdWfWQ1cKXbcmP2E1PrxFz9iw17jhY+IcYvdxjtv4lWnOtfa7E3zx94tc6vnxJ2DNO7uTkj+s1ZqZjJzbTbfrrBclVt72NZGdmuHKg0WjpwbIhcVU12Pxw/sW6faAsd4uAJQLm7B5xRtIj11/2MAQ/MDxb42SrW9sKtd38IP8XY/t0qDGLWRCRi2LPvqz1POWdwNtacq+PMt4GhvdIEIQL0nIdBlQQunFYuWLqeVpC8MYmdRUzhwWUWYklYaPhmyX1vXuoSQIJkII08BZb3ZHmzd0lbRzSydQXQvbE+4KaV2PqDucz'}}
0:35:42.650214	LOG	Server --------------------> DUT
0:35:42.652211	LOG	Send Test Command TxFramesCtrlReq process completed
0:35:42.656722	LOG	Send Test Command TxFramesCtrlReq process starts
0:35:43.694716	LOG	GPS Time updated: 1385121286931
0:35:43.695719	LOG	PULL_DATA: 02 992f 02 0016c001ff1025bf
0:35:43.697686	LOG	PULL_ACK: 02 992f 04
0:35:47.531679	LOG	First uplink received. Open reception window.
0:35:47.645678	LOG	PUSH_ACK: 02 0931 01
0:35:47.647716	LOG	GPS Time from gateway: 1385121290770
0:35:47.648680	LOG	PUSH_DATA: Protocol version = 02, Token = 0931, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2859949063, 'time': '2023-11-27T11:54:31.770783Z', 'tmms': 1385121290770, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACALQoCcHsH3syxyTPcCi4='}]}
0:35:47.650680	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a2d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 33dc0a2e)
0:35:47.651713	LOG	Server <-------------------- DUT
0:35:47.653683	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06de, FOpts:), FPort: e0, FRMPayload: 070001), MIC: f48c2756)
0:35:47.654714	LOG	Frame command sent to the DUT
0:35:47.656715	LOG	PULL_RESP: Protocol version = 02, Token = f455, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2861949063, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA3gbgxVjhVBSavU97mfT8uE6E+PlwdAZn7AAotONWsEY7OCU31pXMzDuXtN8VsjIXYwM/zSLa8lxl48cmk7fu1qVWKLO6TkmpMjWx7tYhjdgn9c5Y//zYTIEtEfZKvGyDkUxDpcEajvph6u0wfVveesG7FMfkEMFQRZXyyIsmlkZv+3nGCig+icTyfYtx4Y7PkTU6mxvA1w6yl6Npc35F6D/exioJMNy5JzFiQcpub9kc59mf+RxtSv+OT4nYxmomobeZLSgwXGhn74qheJXU+GZZll9E3dCmHt8FIg2fdKm3Up6Q8e9jMyRfktevxv4PHNrOxJ30jCdW'}}
0:35:47.657714	LOG	Server --------------------> DUT

0:35:47.660767	LOG	Send Test Command TxFramesCtrlReq process completed
0:35:47.663765	LOG	Send Test Command TxFramesCtrlReq process starts
0:35:52.536099	LOG	First uplink received. Open reception window.
0:35:52.647196	LOG	PUSH_ACK: 02 5d92 01
0:35:52.649213	LOG	GPS Time from gateway: 1385121295770
0:35:52.651205	LOG	PUSH_DATA: Protocol version = 02, Token = 5d92, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2864948812, 'time': '2023-11-27T11:54:36.770530Z', 'tmms': 1385121295770, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACALgoC6VyUJRkp7OP9Vv4='}]}
0:35:52.652205	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a2e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e3fd56fe)
0:35:52.654238	LOG	Server <-------------------- DUT
0:35:52.656237	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06df, FOpts:), FPort: e0, FRMPayload: 070001), MIC: a4f5f9c5)
0:35:52.657239	LOG	Frame command sent to the DUT
0:35:52.658236	LOG	PULL_RESP: Protocol version = 02, Token = 7abb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2866948812, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA3wbgBQEczdO51e/twMh9Ulrlva/uIKGXHXLyV6WUlbSBZkslTBN4Lj6bE0grv42d7DzGtRIWYUDLSmFSppZMW2ZLYszdvpEQFcz1dnBzGO/l3xO4ICkS3l7j6uy6mUxq41l15i/ceIyu1dqai+1FAnlGydehsjCjo49rG95qUj6RHV6kXQMVqD3aTr22bUuCBMWCjSY2Q62X/8HQpVCKY9Nt2y2mGxh65p+WHos7N92S7GHJCKIU8OdbAx3DJh2dQDwwc6BW43v5YQVwBrZJMDQTnyWgh31RtEmSUegJUdqtg0dAUDs1+Ke+5Nu7akh3ky0xIN6k9fnF'}}
0:35:52.660237	LOG	Server --------------------> DUT
0:35:52.662237	LOG	Send Test Command TxFramesCtrlReq process completed
0:35:52.666769	LOG	Send Test Command TxFramesCtrlReq process starts
0:35:53.714069	LOG	GPS Time updated: 1385121296948
0:35:53.716049	LOG	PULL_DATA: 02 940f 02 0016c001ff1025bf
0:35:53.717035	LOG	PULL_ACK: 02 940f 04
0:35:57.528790	LOG	First uplink received. Open reception window.
0:35:57.638039	LOG	PUSH_ACK: 02 5549 01
0:35:57.640039	LOG	GPS Time from gateway: 1385121300770
0:35:57.641037	LOG	PUSH_DATA: Protocol version = 02, Token = 5549, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2869948588, 'time': '2023-11-27T11:54:41.770307Z', 'tmms': 1385121300770, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACALwoCvJfm7cQHgE3OXag='}]}
0:35:57.643038	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a2f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4dce5da8)
0:35:57.644038	LOG	Server <-------------------- DUT
0:35:57.646037	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06e0, FOpts:), FPort: e0, FRMPayload: 070001

		01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 43b21e4a)
0:35:57.648038	LOG	Frame command sent to the DUT
0:35:57.649047	LOG	PULL_RESP: Protocol version = 02, Token = 1b5f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2871948588, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA4AbglqYvh9CzzwUYdlXHQY7LeT6oSLzExzo38ZR+VKRjVIrsTI OmAKc/UmeD3Xuj9EI/iifGhZV3Vst1MkKihXadBzneVI36HDqIBLIYKDVR6JK bPoEfb9UYaP6zAXdtfXjXxHBhcHhKeqgh28LNYWjomi1ZcvzgAwEtjCWJ/8F19 j7dj/9K5UqJ6qD7qZ8dQI+mViKryEOpnJVL6r5ubLkEmm+kpijYP1WG8xPYNU RIKWLAFRImhk/ITsJozfxFcN2JdSIwGShFxAUqq/ZP2ZGmfyJly7LvtGjczeXDe VsheLfelVxGEvVSKeLS/ijN+JglNMtDsh5K'}}
0:35:57.650037	LOG	Server --------------------> DUT
0:35:57.653575	LOG	Send Test Command TxFramesCtrlReq process completed
0:35:57.657580	LOG	Send Test Command TxFramesCtrlReq process starts
0:36:02.525476	LOG	First uplink received. Open reception window.
0:36:02.638688	LOG	PUSH_ACK: 02 f7e9 01
0:36:02.640687	LOG	GPS Time from gateway: 1385121305770
0:36:02.641688	LOG	PUSH_DATA: Protocol version = 02, Token = f7e9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2874948323, 'time': '2023-11-27T11:54:46.770041Z', 'tmms': 1385121305770, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAMAoCkxoGdRjEJ+eG2rA='}]}
0:36:02.643688	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a30, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e786dab0)
0:36:02.644687	LOG	Server <-------------------- DUT
0:36:02.647687	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06e1, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 15562f7e)
0:36:02.648686	LOG	Frame command sent to the DUT
0:36:02.650689	LOG	PULL_RESP: Protocol version = 02, Token = 8e43, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2876948323, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA4QbgO3/ton6GpRGC/R6fn5y17U53qzPSfj96UbKuj/ZKUC9SsdarL UQGMEcREH00y1Cg4CJUbVkyzPitUnvK3yHWohrDUoR6f5dkY72bcwsGG9C mUoJRQj7hool6Wa0uvP4eded5hlWhRYHY4aTuQNufJZSAhzFR1LHXAGuXAZ xNEf5OoxJtaa3VL9xcQJKUsv7lJF/sWMR44pTKRv0O94kybtd71Mckja+LoXW7 xPa0AdjNurK8k/rR9JXPjWJIeBL+l+mJYRgOQTa0naWDrwkg9N0+plUi3tX/WP osLhxqiqku9x1LGWhei7mBDFciozeG8qQVVi9+'}}
0:36:02.651687	LOG	Server --------------------> DUT
0:36:02.655694	LOG	Send Test Command TxFramesCtrlReq process completed
0:36:02.658694	LOG	Send Test Command TxFramesCtrlReq process starts
0:36:03.913395	LOG	GPS Time updated: 1385121307158
0:36:03.915395	LOG	PULL_DATA: 02 25ea 02 0016c001ff1025bf
0:36:03.916396	LOG	PULL_ACK: 02 25ea 04
0:36:07.536199	LOG	First uplink received. Open reception window.

0:36:07.649118	LOG	PUSH_ACK: 02 1ce6 01
0:36:07.651086	LOG	GPS Time from gateway: 1385121310769
0:36:07.652086	LOG	PUSH_DATA: Protocol version = 02, Token = 1ce6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2879948089, 'time': '2023-11-27T11:54:51.769806Z', 'tmms': 1385121310769, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAMQoCc81peRe3IkU0UbA='}]}
0:36:07.654087	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a31, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 453451b0)
0:36:07.655087	LOG	Server <-------------------- DUT
0:36:07.657087	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06e2, FOpts:), FPort: e0, FRMPayload: 070001), MIC: aba858c3)
0:36:07.659087	LOG	Frame command sent to the DUT
0:36:07.660086	LOG	PULL_RESP: Protocol version = 02, Token = 1f9d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2881948089, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA4gbgwPf4IgEwBY51rlPq8KdRxAloERAB8eB/94glHx2bGacCmSnNClhtn4vBqxCIDYrJJBoZgifoWCsS7H9pdKwfuI3GdQDlBSVFs1bRVQhSiI13XlzB0ifnqICB9cXy2Y9NrCmdHHkp8/25digFElXwfK+02NU+VqADkOM8GGYg2YxKt/FgHRXJ8sO8y6xsrgWTqtypMnPhzUqLM96cuND+7x86naMIz1AHIiTHst/ErWDouO6XtAIudXgD+GtZE5txFg3rNwIRU4fhV9ifEynnUfYAN+TZRhnkQtS249/qqgEcnenwy/ncpwIQsgJgGxT38wqrqFjD'}}
0:36:07.662086	LOG	Server --------------------> DUT
0:36:07.665092	LOG	Send Test Command TxFramesCtrlReq process completed
0:36:07.668090	LOG	Send Test Command TxFramesCtrlReq process starts
0:36:07.678638	LOG	TX_ACK: 02 1f9d 05 0016c001ff1025bf
0:36:12.526176	LOG	First uplink received. Open reception window.
0:36:12.635734	LOG	PUSH_ACK: 02 fc19 01
0:36:12.637703	LOG	GPS Time from gateway: 1385121315769
0:36:12.638702	LOG	PUSH_DATA: Protocol version = 02, Token = fc19, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2884947830, 'time': '2023-11-27T11:54:56.769546Z', 'tmms': 1385121315769, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAMgoCf140/jHFKDfGlFs='}]}
0:36:12.640708	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a32, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 37c6945b)
0:36:12.641702	LOG	Server <-------------------- DUT
0:36:12.643702	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06e3, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 162edbc3)
0:36:12.645703	LOG	Frame command sent to the DUT

0:36:12.646702	LOG	PULL_RESP: Protocol version = 02, Token = a90b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2886947830, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA4wbgjDKsUvcxg2T7SVsZK1UCAAdE1ceW1VXjeSxyD9kK+/K/uCbK81miQ5GSUURG5/bU5CaqaIrZ8mRue7LMJokQyOIoJs9xogjbtGHBmmYUTPVtO2lp+9tkxys9eN5qzANhGXQxrHgP2q3BHkJKbq+vnkSEuS+V+kw2OwMxI+W0Q+Vy84urqsq8OSsWRMij+NpLIrQk/6TRgi+BlWMsHlLnM5TunjFbbKyUXCdfzDaemqQlnQc/z3f7UKUvJwpRNSbuiQRAjNRQQ6FxmtLmma6rdCtYpjgY8yXwCWgw6Msbb8rde4vwlcYzofBdPuk0XoPTTpYWLtvD'}}
0:36:12.647702	LOG	Server --------------------> DUT
0:36:12.650735	LOG	Send Test Command TxFramesCtrlReq process completed
0:36:12.654701	LOG	Send Test Command TxFramesCtrlReq process starts
0:36:14.114259	LOG	GPS Time updated: 1385121317357
0:36:14.116229	LOG	PULL_DATA: 02 7a43 02 0016c001ff1025bf
0:36:14.118058	LOG	PULL_ACK: 02 7a43 04
0:36:17.529993	LOG	First uplink received. Open reception window.
0:36:17.631629	LOG	PUSH_ACK: 02 fbc0 01
0:36:17.633631	LOG	GPS Time from gateway: 1385121320769
0:36:17.634597	LOG	PUSH_DATA: Protocol version = 02, Token = fbc0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2889947576, 'time': '2023-11-27T11:55:01.769291Z', 'tmms': 1385121320769, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAMwoCzdw0r0ijlth3YEM='}]}
0:36:17.636652	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a33, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d8776043)
0:36:17.637597	LOG	Server <-------------------- DUT
0:36:17.639597	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06e4, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 730f0dfc)
0:36:17.641597	LOG	Frame command sent to the DUT
0:36:17.642598	LOG	PULL_RESP: Protocol version = 02, Token = 925c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2891947576, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA5Abg9ANuOJAynEK1u+miLK+w7h1Rw+Feocl9EPhPhQxo+EwTmfP6pmnfmXLTyZfc0XV1IPPFzJgNLJO9TM1ah62UeZbaap1ln59vo5q97Py/meUhPTGrK/gwi0iGld+Lrh0sCpoclhB9kD91BCRylXuJK7wq5KWRjy5F+oqzj+Geh/0rRErXiaNZHQWb/0viMmd8BqZWfmNsjsPi1j+JF75t1YwyP+/c7wHbL4/CMmPCuncLy5Fu0EVb/7WZfczmQRdftxdElFKod+A+iD1oQxbc37rGK2QIpebHWNOxkcidm6Ypl+m/q53dftChPy7qPEPMIsZzDw38'}}
0:36:17.644596	LOG	Server --------------------> DUT
0:36:17.647596	LOG	Send Test Command TxFramesCtrlReq process completed
0:36:17.650597	LOG	Send Test Command TxFramesCtrlReq process starts
0:36:22.528827	LOG	First uplink received. Open reception window.
0:36:22.630394	LOG	PUSH_ACK: 02 0d84 01
0:36:22.632358	LOG	GPS Time from gateway: 1385121325769
0:36:22.633358	LOG	PUSH_DATA: Protocol version = 02, Token = 0d84, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2894947348, 'time': '2023-11-27T11:55:06.769061Z', 'tmms': 1385121325769, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACANAoCyYitsWPOZMB2tsg='}]}
0:36:22.635359	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a34, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c076b6c8)
0:36:22.636358	LOG	Server <-------------------- DUT
0:36:22.638359	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06e5, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 4325c827)
0:36:22.640359	LOG	Frame command sent to the DUT
0:36:22.641358	LOG	PULL_RESP: Protocol version = 02, Token = 4492, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2896947348, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA5QbgdRMbXfl4tbONECxt+GjLCptz+AQVeab1soiHMItH4/Q+LewEptFbmMzX7ZRPpmZjINGnCYXdD9iDYspDRphzD96weGEagkzmTeui1rDnaaQZw52FZdNZieDfp7GDuD5ihehNMRYd5x9d8x7jwtOCXwW4kHUHJ7Yqs3/cr7vKvYkKsZXtWOzzTribnf3yb1IRvCYla/AhWXNU2QEsJGERb82vOwWbfx+mdg81Ze/R3uNaOVwRK7nH0JrdiCD0UJ71qnE7P74RBdwFYDHgYrRDCGvHs4cRtglcmU/j0Ej1P3KIdYAkHNMt07pExq4168oahflDJcgn'}}
0:36:22.642358	LOG	Server --------------------> DUT
0:36:22.645360	LOG	Send Test Command TxFramesCtrlReq process completed
0:36:22.649384	LOG	Send Test Command TxFramesCtrlReq process starts
0:36:24.323135	LOG	GPS Time updated: 1385121327565
0:36:24.325135	LOG	PULL_DATA: 02 7032 02 0016c001ff1025bf
0:36:24.326100	LOG	PULL_ACK: 02 7032 04
0:36:27.529498	LOG	First uplink received. Open reception window.
0:36:27.639764	LOG	PUSH_ACK: 02 7494 01
0:36:27.641731	LOG	GPS Time from gateway: 1385121330768
0:36:27.642730	LOG	PUSH_DATA: Protocol version = 02, Token = 7494, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2899947122, 'time': '2023-11-27T11:55:11.768836Z', 'tmms': 1385121330768, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACANQoCh1iGREhmKJGp0fM='}]}
0:36:27.644731	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a35, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 91a9d1f3)
0:36:27.645730	LOG	Server <-------------------- DUT
0:36:27.647730	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06e6, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 738e672e)
0:36:27.648729	LOG	Frame command sent to the DUT
0:36:27.650730	LOG	PULL_RESP: Protocol version = 02, Token = c564, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2901947122, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True,

		'size': 255, 'data': 'YAAAAAAA5gbgCIpcSOzUOhMpGRwJ3jvuB5MWeB9MCMqjBM7I4i2pkkGqu2lZ65ystnRdHIKAVF0ky9eOLi4qDTibAcm4fyYotQtxNtPOO/pYNxySZo9ca1x3V4nI/ooZMzqgeobi9PRY9bBfDvkoYp0MN5fLUerDiZEfa8KF5KBcB39KCnze0rAnuG1QYp1VToaxwBajUyYclNyZLPavF+qkGEWw9ReVoB0uBc+6LSJ277l25RNEZO/WwL505DZBdpMlQvI9VwrGD+QgqtO03cY7bS2TyOAoRrW8ZJJmES22ObKr73pr3hvCZWsIr9g7fF2fhlrydLe+0BRzjmcu'}}
0:36:27.651729	LOG	Server --------------------> DUT
0:36:27.654730	LOG	Send Test Command TxFramesCtrlReq process completed
0:36:27.658731	LOG	Send Test Command TxFramesCtrlReq process starts
0:36:32.534038	LOG	First uplink received. Open reception window.
0:36:32.650803	LOG	PUSH_ACK: 02 ba7e 01
0:36:32.652770	LOG	GPS Time from gateway: 1385121335768
0:36:32.653771	LOG	PUSH_DATA: Protocol version = 02, Token = ba7e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2904946883, 'time': '2023-11-27T11:55:16.768596Z', 'tmms': 1385121335768, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACANgoCzzpS7irDCyzh7m8='}]}
0:36:32.655771	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a36, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2ce1ee6f)
0:36:32.656803	LOG	Server <-------------------- DUT
0:36:32.658779	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06e7, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 804142c0)
0:36:32.660805	LOG	Frame command sent to the DUT
0:36:32.661804	LOG	PULL_RESP: Protocol version = 02, Token = 771e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2906946883, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA5wbgZzidWfs41jaztKn1fXhY/cVlmkhn9kQVpd6soLoeDDB+5t+OePSHdRsFMF4hsUmroKNcPyg3lWlLEUHk7EMcKSE2Xru8YzzqHgwdh1J463JWAzR7qNJmF0hSXok8er5Ouh+h0Lk6P843oL7roBwtsDHkfRboaMeSsM24Q+4NMXq+M91UYM0iN8Iw4Tmvn64vAazuo+PfZ9q/3FyBbwSq5HvZ2Srp2tU4Tpv5xGv/J4JmRJTjkPXrRAWtCfoMkS4qxbKALQxHSNKQZPsH1HNhnEJbn5HXGM7zDNE0szyUMWNrQYzhCBWJ2N0nmJnMIRA9g22AQULA'}}
0:36:32.662804	LOG	Server --------------------> DUT
0:36:32.665823	LOG	Send Test Command TxFramesCtrlReq process completed
0:36:32.669779	LOG	Send Test Command TxFramesCtrlReq process starts
0:36:34.344096	LOG	GPS Time updated: 1385121337578
0:36:34.345096	LOG	PULL_DATA: 02 c517 02 0016c001ff1025bf
0:36:34.347135	LOG	PULL_ACK: 02 c517 04
0:36:37.528538	LOG	First uplink received. Open reception window.
0:36:37.632598	LOG	PUSH_ACK: 02 1059 01
0:36:37.634564	LOG	GPS Time from gateway: 1385121340768
0:36:37.636566	LOG	PUSH_DATA: Protocol version = 02, Token = 1059, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2909946636, 'time': '2023-11-27T11:55:21.768348Z', 'tmms': 1385121340768, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACANwoCR167Yt/WNY8n+Cg='}]}

0:36:37.637565	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a37, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8f27f828)
0:36:37.638564	LOG	Server <-------------------- DUT
0:36:37.640564	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06e8, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 0df40dd4)
0:36:37.642564	LOG	Frame command sent to the DUT
0:36:37.643564	LOG	PULL_RESP: Protocol version = 02, Token = 7ac3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2911946636, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA6AbglAZaQgM0d7QJgp/Q3RWwv0+91/5ZV1bDum0Z76jMJq4VpU+RDpFHBETVhW5PQm3jQQW/KxfwcOzYL4KwUidNKiZyZGgVRH6KulVO5z6BYRjagTC7ac30crTQa4vtHZG93aIk1Z7je/QQTZEbbyWuXOrnQcLQeuqT/O52gRvR0MQypAHIlyXQdoSmR3FYMOpDIrTnrkmZrC4TB7E9HG3PuJmVdqYQdBDsxGUqBczxFogpZR1fy/vmB5hR7gVEFFaGmiUKi3PYc08DGoL1Gy2M2vxigKaTPMvJ7mcFu+Q6IN8J63qFehUNUou4Y00fCnj/6s4N9A3U'}}
0:36:37.645597	LOG	Server --------------------> DUT
0:36:37.647601	LOG	Send Test Command TxFramesCtrlReq process completed
0:36:37.651597	LOG	Send Test Command TxFramesCtrlReq process starts
0:36:42.529477	LOG	First uplink received. Open reception window.
0:36:42.632452	LOG	PUSH_ACK: 02 279b 01
0:36:42.634449	LOG	GPS Time from gateway: 1385121345768
0:36:42.635417	LOG	PUSH_DATA: Protocol version = 02, Token = 279b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2914946375, 'time': '2023-11-27T11:55:26.768086Z', 'tmms': 1385121345768, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAOAoCI5cuFLyceWPRV2k='}]}
0:36:42.637416	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a38, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 63d15769)
0:36:42.638417	LOG	Server <-------------------- DUT
0:36:42.640418	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06e9, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: b172ccaf)
0:36:42.642450	LOG	Frame command sent to the DUT
0:36:42.643450	LOG	PULL_RESP: Protocol version = 02, Token = c431, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2916946375, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA6Qbgyw48fllGTqSBV/kJA4Eiy7Kp/n3Dr14HUL2e2eYv5abaGBsTvkfWVR2VBdg42DQijOyImUpCXQPv8oLryRHEbmBTnKLQggoAcltYIIUS/xru/5HzfQlaL8XUfhMZskU3p1QvQBtLwl+bEnDnQPwSiLtC5qHKSx6d2nx+fAPkV3Wh7nowSuherPfwHY84w1MRhUlzwWj+eapRRPocg1ow2wkBKvBznTPEQhNPp

		pXoZbK7twQq0HMrpgmop6H+00RpJ11d0aeoKV9I45QbcBhGgIKyLcN25ReGm oDPJsFAWMq+bkyJh7Ha6l0oO8YhRES6/BSxcsyv'}}
0:36:42.644450	LOG	Server --------------------> DUT
0:36:42.647457	LOG	Send Test Command TxFramesCtrlReq process completed
0:36:42.651432	LOG	Send Test Command TxFramesCtrlReq process starts
0:36:44.533424	LOG	GPS Time updated: 1385121347772
0:36:44.535423	LOG	PULL_DATA: 02 077c 02 0016c001ff1025bf
0:36:44.536423	LOG	PULL_ACK: 02 077c 04
0:36:47.527665	LOG	First uplink received. Open reception window.
0:36:47.638349	LOG	PUSH_ACK: 02 e4ff 01
0:36:47.640351	LOG	GPS Time from gateway: 1385121350767
0:36:47.641317	LOG	PUSH_DATA: Protocol version = 02, Token = e4ff, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2919946112, 'time': '2023-11-27T11:55:31.767822Z', 'tmms': 1385121350767, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAOQoCZ5BL748/MPXjMZY='}]}
0:36:47.643321	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a39, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f5e33196)
0:36:47.644350	LOG	Server <-------------------- DUT
0:36:47.646356	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06ea, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 9aed6d12)
0:36:47.647349	LOG	Frame command sent to the DUT
0:36:47.649350	LOG	PULL_RESP: Protocol version = 02, Token = ee90, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2921946112, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA6gbgk6zyF+SVe7WawffoK3Xiu7tdQpz+MzkzpH286IgCAg/Lx2gM Nil2355z4PFiRt5cQicfior8DqwskYW1We/wOfS7eoHqYapUeNUm0hgMVL3AcA 9w6lMVJ5vuDJdgKOHPJH0RIYxchED3RkGstaJu1g/Tb2JHYTro3KExRk9swTS SY6cjj4r1FmsT4lK1I4D+fBVHtiz726cTq1xvtamDFZXmmHS1B0Rc8Y9y6SoD0 BT1B/cOE0wpwOgABMkUasG5S4xRbzuV5sNN08AlBk5WWkw/fM7m3HCQYs p+Lvhl4HRThtxQbSeU6izjvq6uaHFq5WSa7W0S'}}
0:36:47.650350	LOG	Server --------------------> DUT
0:36:47.653317	LOG	Send Test Command TxFramesCtrlReq process completed
0:36:47.657321	LOG	Send Test Command TxFramesCtrlReq process starts
0:36:52.531677	LOG	First uplink received. Open reception window.
0:36:52.637291	LOG	PUSH_ACK: 02 6509 01
0:36:52.639259	LOG	GPS Time from gateway: 1385121355767
0:36:52.640258	LOG	PUSH_DATA: Protocol version = 02, Token = 6509, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2924945889, 'time': '2023-11-27T11:55:36.767598Z', 'tmms': 1385121355767, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAOgoC+ZlMwJylZ7cwq3k='}]}
0:36:52.642260	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a3a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b730ab79)
0:36:52.643262	LOG	Server <-------------------- DUT
0:36:52.645259	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06eb, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010

		1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: b78dca87)
0:36:52.647260	LOG	Frame command sent to the DUT
0:36:52.648258	LOG	PULL_RESP: Protocol version = 02, Token = 563a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2926945889, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA6wbg3547o9k0cqAPM2vKuA7zj+wMnncqfTHv0+gaW2Zw3wyiZUIXmqaQeN0rFUp27rlYiB+rovgcUsV9XbXc1aowOcNxBYSQwv7duRLxCZXWkESt+d0H/LjDBmntGfkGLTG3lba7mIw6SyVeEt9fzL+wRoWZH+FSHxMmEjTh3xDgV1FL3Chlf7bdcl1Q6F8fcGuN7waMgEGnRcPBbyHQVNQz8AAJua1x6szErjEcKUS80MMIc1sT8l1ttd54UFZW+6C9+VLAR5YurBRuVs8vKuqwOd9YtI/JYjbRS5KyvbHTQdcNsCzJR53QhDtlZ/6m3uh/6sa3jcqH'}}
0:36:52.649258	LOG	Server --------------------> DUT
0:36:52.653262	LOG	Send Test Command TxFramesCtrlReq process completed
0:36:52.657258	LOG	Send Test Command TxFramesCtrlReq process starts
0:36:54.543214	LOG	GPS Time updated: 1385121357779
0:36:54.544213	LOG	PULL_DATA: 02 e981 02 0016c001ff1025bf
0:36:54.546215	LOG	PULL_ACK: 02 e981 04
0:36:57.531578	LOG	First uplink received. Open reception window.
0:36:57.645206	LOG	PUSH_ACK: 02 9a69 01
0:36:57.647240	LOG	GPS Time from gateway: 1385121360767
0:36:57.648236	LOG	PUSH_DATA: Protocol version = 02, Token = 9a69, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2929945631, 'time': '2023-11-27T11:55:41.767338Z', 'tmms': 1385121360767, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAOwoCNMpnGiM9UFbDwbw='}]}
0:36:57.650260	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a3b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 56c3c1bc)
0:36:57.651240	LOG	Server <-------------------- DUT
0:36:57.653255	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06ec, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 16ae97df)
0:36:57.655240	LOG	Frame command sent to the DUT
0:36:57.656241	LOG	PULL_RESP: Protocol version = 02, Token = 28ad, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2931945631, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA7AbgEEtFojaoYwF9YSMRRLJ10LFza1aO012CUgHhkoUMSqPN8GqeFS8fICfnTJRN/Px0xtdTRsifYnqHkgeUulHVfHs+tXpk94Z3BZiyQ/AN2lqVC77odAhf4KiPvHHSBSFncPIWuoEme52RDzKmvPvSEri4aDlxhKuKw9NBBccKABC3a/SdKygcM0771MMmv8/tq8xy3EHOSFd+/7Wz5i3FVOsJ/q8HgdbVZwQogZMGxjcc7k8L9IwD0Q5ypAGDzL46oRV8JiPjbF5p9Wm1bjOsZySTWLDNJIwwjT3I096xtrUrW553Yyr2CXY199kotbKCkjAWrpff'}}
0:36:57.658208	LOG	Server --------------------> DUT

0:36:57.661223	LOG	Send Test Command TxFramesCtrlReq process completed
0:36:57.664240	LOG	Send Test Command TxFramesCtrlReq process starts
0:37:02.529153	LOG	First uplink received. Open reception window.
0:37:02.642516	LOG	PUSH_ACK: 02 2895 01
0:37:02.644519	LOG	GPS Time from gateway: 1385121365767
0:37:02.645520	LOG	PUSH_DATA: Protocol version = 02, Token = 2895, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2934945371, 'time': '2023-11-27T11:55:46.767079Z', 'tmms': 1385121365767, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAPAoCuCimRYE4W+CGyRc='}]}
0:37:02.647521	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a3c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e086c917)
0:37:02.648522	LOG	Server <------------------- DUT
0:37:02.650488	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06ed, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 192c3621)
0:37:02.651525	LOG	Frame command sent to the DUT
0:37:02.653518	LOG	PULL_RESP: Protocol version = 02, Token = 0ba6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2936945371, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA7QbgZkGJpwS21V8y58MbbHOAcEw9e6Wt14RDtFynZpm6/GvcKgm4B7Ycf3haKMGpWVGqN62pAcm8wEwqkdqIcND6cVGfkv0pKmoGgTTJ9F7T0RObqJYwCZE9bCO9rjMsAiDQQcL36TqYXDaHm13zyV4085UivPV/Eqk1MFVuuc7TpHEPXgP1jt3sIeEVkwrr4rynnrIEkAWEr/3Rgkxoqw+adMCtNMpNOqAOnipRGIT2QtkcnjIvT6enoDKP5tRE2JAQZgDmvQI/cF3DcHCsnVHtXwGcUCACNKgPgVoUnK9gIHK8Yq13G6L18uMfUD0tcxzP7D4ZLDYh'}}
0:37:02.654519	LOG	Server -------------------> DUT
0:37:02.657486	LOG	Send Test Command TxFramesCtrlReq process completed
0:37:02.660485	LOG	Send Test Command TxFramesCtrlReq process starts
0:37:04.753548	LOG	GPS Time updated: 1385121367991
0:37:04.755576	LOG	PULL_DATA: 02 2a35 02 0016c001ff1025bf
0:37:04.757546	LOG	PULL_ACK: 02 2a35 04
0:37:07.523720	LOG	First uplink received. Open reception window.
0:37:07.628343	LOG	PUSH_ACK: 02 199a 01
0:37:07.630310	LOG	GPS Time from gateway: 1385121370766
0:37:07.631310	LOG	PUSH_DATA: Protocol version = 02, Token = 199a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2939945102, 'time': '2023-11-27T11:55:51.766809Z', 'tmms': 1385121370766, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAPQoCHP4QU7E0wssa880='}]}
0:37:07.633312	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a3d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: cb1af3cd)
0:37:07.634311	LOG	Server <------------------- DUT
0:37:07.636312	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06ee, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101

		010101010101010101010101010101010101010101010101010101010101101010101010101010101010101010101010101010101010101010101010010101010101010101010101010101010101010101010101010101010101101010101010101), MIC: c1eb8204)
0:37:07.637343	LOG	Frame command sent to the DUT
0:37:07.639312	LOG	PULL_RESP: Protocol version = 02, Token = f790, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2941945102, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA7gbgte2hsG/k/P9yWpHl4yBZkfiYBi/Ek9hLpkoNSz/eZvicMAyrWx40q3W6tm62rxZ/gf3M8oQTDSAYuqDe1EiqowsSwuAx5WHtb0YumecQsIaFYPB8Ur1WhCtjZhjtnob4kwX8VbZQwdEGkbH0TergOQ/z/LJbB6UiZbo0vVUE5xm/VgDuzv0c7jaxaKklmx5KWKa+UgyboOubjKOU4OKyCc2Z4dpEJ7lIllhwAmutY40NEbY9dQmVHZiLxHsbUPfLaNxky1Fmxs7pVkeLE6XXBJDxIwN52Pi/ha43KJ6JMedvREdghwUr2q4qc6YshPR3uhrB64IE'}}
0:37:07.640350	LOG	Server --------------------> DUT
0:37:07.643497	LOG	Send Test Command TxFramesCtrlReq process completed
0:37:07.647494	LOG	Send Test Command TxFramesCtrlReq process starts
0:37:12.528259	LOG	First uplink received. Open reception window.
0:37:12.640381	LOG	PUSH_ACK: 02 6714 01
0:37:12.642418	LOG	GPS Time from gateway: 1385121375766
0:37:12.643383	LOG	PUSH_DATA: Protocol version = 02, Token = 6714, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2944944881, 'time': '2023-11-27T11:55:56.766587Z', 'tmms': 1385121375766, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAPgoCjhsLvDNT2ItpwHk='}]}
0:37:12.645417	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a3e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8b69c079)
0:37:12.646416	LOG	Server <-------------------- DUT
0:37:12.648991	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06ef, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 216367e0)
0:37:12.649992	LOG	Frame command sent to the DUT
0:37:12.652009	LOG	PULL_RESP: Protocol version = 02, Token = 0df4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2946944881, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA7wbgAOpPka04Omxpb9SZey3e9L9lfcHqOY26NitBVfbQmhIYVyjbeyZGiyigXid9A6iHTT9aHTRGgCGqw551vo7C3FkcXNSQqVmO7mqv6Xx1E+7A7uoqaH/jrlvT6GgVp4aAeAR/COf5OBejR6M2s+ngjc7ohjBreOujnlkE4TMfr4mqCWFHFksvxt4q9xj6ChUWy8vPaJsz4/oqRi8LI5pd7NkEFBXXBEG107pIDus6AeZLVo2iOIvAy5jIuvJlfft5oIfZEa+Sq/inSUb3BVGThs4NK6Tj+HOMbcGeejNqtPrhhXQbpbJpbzxuHt4vbr/onOQhY2fg'}}
0:37:12.652993	LOG	Server --------------------> DUT
0:37:12.655991	LOG	Send Test Command TxFramesCtrlReq process completed
0:37:12.659964	LOG	Send Test Command TxFramesCtrlReq process starts
0:37:14.963155	LOG	GPS Time updated: 1385121378201
0:37:14.965156	LOG	PULL_DATA: 02 24db 02 0016c001ff1025bf
0:37:14.966157	LOG	PULL_ACK: 02 24db 04
0:37:17.527233	LOG	First uplink received. Open reception window.

0:37:17.631984	LOG	PUSH_ACK: 02 a8de 01
0:37:17.633983	LOG	GPS Time from gateway: 1385121380766
0:37:17.634951	LOG	PUSH_DATA: Protocol version = 02, Token = a8de, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2949944616, 'time': '2023-11-27T11:56:01.766321Z', 'tmms': 1385121380766, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAPwoCuLRyn5pvIh1szbY='}]}
0:37:17.636951	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a3f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1d6ccdb6)
0:37:17.637956	LOG	Server <-------------------- DUT
0:37:17.639955	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06f0, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 9689eb37)
0:37:17.640954	LOG	Frame command sent to the DUT
0:37:17.642956	LOG	PULL_RESP: Protocol version = 02, Token = 9c1a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2951944616, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA8AbgPY52hVtpGcfqVT/o5em+7+w/bRNoFARu6da4GxCwFMA+ExoYjSlC0gtluGW5VCC7/Q6bABr9m6FSff3COxybeWmlEOrX1PrZYFyU3+TPpIzTKvR+wsJ/UPBZTOAuvEhKLwWz/LJfKRWWoiGeUZM1fv9rMKjonIAw8Doyl7XXuCWuReH2wd/Tjnr+70LqicvdYpt70hl0c6JxJ9fkYCH/cGPz6eF6S0IMHqAOHKRjJsuqxMtasaSj7axKQuA8kB5ozN1yRJsMwtMZqLG5SRHFi2bzxNst7r4buBEg0GLYm5L/Gt944phxNjmnjFYVJpDxObyWies3'}}
0:37:17.643955	LOG	Server --------------------> DUT
0:37:17.646954	LOG	Send Test Command TxFramesCtrlReq process completed
0:37:17.650954	LOG	Send Test Command TxFramesCtrlReq process starts
0:37:22.528229	LOG	First uplink received. Open reception window.
0:37:22.643604	LOG	PUSH_ACK: 02 596d 01
0:37:22.645607	LOG	GPS Time from gateway: 1385121385766
0:37:22.646606	LOG	PUSH_DATA: Protocol version = 02, Token = 596d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2954944393, 'time': '2023-11-27T11:56:06.766097Z', 'tmms': 1385121385766, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAQAoCJHga0PtN1jhwOjc='}]}
0:37:22.648608	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a40, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 38703a37)
0:37:22.649639	LOG	Server <-------------------- DUT
0:37:22.651607	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06f1, FOpts:), FPort: e0, FRMPayload: 070001), MIC: a929241a)
0:37:22.652640	LOG	Frame command sent to the DUT

0:37:22.654639	LOG	PULL_RESP: Protocol version = 02, Token = d987, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2956944393, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA8QbgQPd2RDZO2Ea7iBTVYOeb9eiH3dWrkVnD14GXuGM7Aq+jImYKUBt/pdUsXLzXiJmkW54nEqGM6/EQN+5bRz8gD9ObYCoHpbhiBWLAPryvr9htIeS20J2a3NpJSUAGWq5gFS2rDb2/tRPKDeneJmtEYncSGeGm/4ePC4AKPiDZNWz9tRt/1xqSsCp/UbGTcHJqykwI+8CobH3U/CXodMjjOmTdm7EsT6PRg+VzGt2YA0wvPWl/0S7OyuKs/esUh9oqKkL5O685umL47px5GbVhL2efITvxa8thsHnp8dgpxJTS+ZCZ9DvPBgyvq9J/jrFRtb6pKSQa'}}
0:37:22.655641	LOG	Server --------------------> DUT
0:37:22.658216	LOG	Send Test Command TxFramesCtrlReq process completed
0:37:22.662185	LOG	Send Test Command TxFramesCtrlReq process starts
0:37:22.666188	LOG	TX_ACK: 02 d987 05 0016c001ff1025bf
0:37:24.972706	LOG	GPS Time updated: 1385121388210
0:37:24.974671	LOG	PULL_DATA: 02 f66a 02 0016c001ff1025bf
0:37:24.975684	LOG	PULL_ACK: 02 f66a 04
0:37:27.521615	LOG	First uplink received. Open reception window.
0:37:27.633158	LOG	PUSH_ACK: 02 05ce 01
0:37:27.635120	LOG	GPS Time from gateway: 1385121390765
0:37:27.636152	LOG	PUSH_DATA: Protocol version = 02, Token = 05ce, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2959944133, 'time': '2023-11-27T11:56:11.765835Z', 'tmms': 1385121390765, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.8, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAQQoCzbgfVjUkI4nX9dM='}]}
0:37:27.638139	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a41, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 89d7f5d3)
0:37:27.639149	LOG	Server <-------------------- DUT
0:37:27.641147	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06f2, FOpts:), FPort: e0, FRMPayload: 070001), MIC: f8160763)
0:37:27.642146	LOG	Frame command sent to the DUT
0:37:27.644163	LOG	PULL_RESP: Protocol version = 02, Token = 9014, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2961944133, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA8gbgl6sIpst1YKwI827H39SVbkJ0TaBdU6DkD7/xXxYuw6jZMf+pyLt8B03Ni4Mu4xeQ6QmBKPMRXk9CZwczEDeh/VRu5JisWYLbt0tpVW2+D/m6UjxNRP9iZO79tt1WAJOgmlT4g4I6rRqGqV8wqc3DGYpkaTcqCyXlNOqvkaaEf924dUICMrrRiHgJy4Ukbxv0hD6hW05SeE1mVmQezUrVrOM/rlGGIzMti+PqcHXsCwkzwBa6rBw/ZazWE0dJm9ARC35/Sk8RZJ1wzFIqLcaSvWq3LyyfnekEsMvup5zCT95wX0tfKJYHMxpBsNhCbL3JBGn4Fgdj'}}
0:37:27.645146	LOG	Server --------------------> DUT
0:37:27.648123	LOG	Send Test Command TxFramesCtrlReq process completed
0:37:27.652120	LOG	Send Test Command TxFramesCtrlReq process starts
0:37:32.524833	LOG	First uplink received. Open reception window.
0:37:32.636663	LOG	PUSH_ACK: 02 99e9 01
0:37:32.638664	LOG	GPS Time from gateway: 1385121395765
0:37:32.639665	LOG	PUSH_DATA: Protocol version = 02, Token = 99e9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2964943872, 'time': '2023-11-27T11:56:16.765575Z',

		'tmms': 1385121395765, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAQgoCyF6Y7/5udGua1Os='}]}
0:37:32.640665	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a42, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6b9ad4eb)
0:37:32.642664	LOG	Server <-------------------- DUT
0:37:32.644667	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06f3, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 18ad90b5)
0:37:32.645666	LOG	Frame command sent to the DUT
0:37:32.647633	LOG	PULL_RESP: Protocol version = 02, Token = 851a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2966943872, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA8wbg/M2mD0Spc4wTqLu7BZJFMbmjeGcdF3zidASMYuGFeOc5iDnyPDb48NtqFMvfM+ltJRM7qMNzhFJCKhAqSgW+8lcoPwEgwnH65oDK/qDVvY3hm0bSajDrsIVEEAZvnKMQuBVxX9QdYnWKTr5aEA3aYxTQvJm5T83f5uNAvxiLAK9TD05zJG4vf7D+gC/Z4TJXunIaJUEIyvl/6Uh9aqP9cowjDhFVvjAcX7g+yqda2/f67mdyu3t9J8S9hRYix9ayoaX4KwJ15hqkUFgt4Fos7tCWCkrrt5E18Y6ITMkbqmjykxPeLouY8+bj4Ibr8LxB3ZUYrZC1'}}
0:37:32.648664	LOG	Server --------------------> DUT
0:37:32.651648	LOG	Send Test Command TxFramesCtrlReq process completed
0:37:32.654635	LOG	Send Test Command TxFramesCtrlReq process starts
0:37:35.162749	LOG	#***************************CURRENT BEACON SENT***************************#
0:37:35.164716	LOG	PULL_RESP: Protocol version = 02, Token = cbb6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385121408000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACARo9SJAMAAAAAAAAAAAA='}}
0:37:35.165717	LOG	Server --------------------> DUT
0:37:35.167718	LOG	#***#
0:37:35.177227	LOG	#***************************NEXT BEACON QUEUED***************************#
0:37:35.179227	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385121536000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAR49SLOkAAAAAAAAAAAA='}}
0:37:35.180227	LOG	Server --------------------> DUT
0:37:35.181227	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 00478f52, CRC1: 2ce9, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385121536000
0:37:35.183244	LOG	#***#
0:37:35.184227	LOG	Next BEACON scheduled at GPS time (ms): 1385121664000
0:37:35.185227	LOG	GPS Time updated: 1385121398426
0:37:35.187228	LOG	PULL_DATA: 02 cdfe 02 0016c001ff1025bf
0:37:35.188228	LOG	PULL_ACK: 02 cdfe 04
0:37:35.190229	LOG	TX_ACK: 02 cbb6 05 0016c001ff1025bf
0:37:37.523726	LOG	First uplink received. Open reception window.

0:37:37.637385	LOG	PUSH_ACK: 02 f3b6 01
0:37:37.639352	LOG	GPS Time from gateway: 1385121400765
0:37:37.640353	LOG	PUSH_DATA: Protocol version = 02, Token = f3b6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2969943618, 'time': '2023-11-27T11:56:21.765320Z', 'tmms': 1385121400765, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAQwoCnb7lr+/2CJqAKYs='}]}
0:37:37.642360	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a43, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9a80298b)
0:37:37.643355	LOG	Server <-------------------- DUT
0:37:37.645387	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06f4, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 9cc27fbe)
0:37:37.647376	LOG	Frame command sent to the DUT
0:37:37.648390	LOG	PULL_RESP: Protocol version = 02, Token = 4249, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2971943618, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA9AbgASsnf6sfK5234ng3T+ma5Zs6N3XmU3dG1hEHel+Qb1EvUlq34GXJxBrMk1VOU8fGYAj3ImEjhnvhqJvY6698z+zRITaS/Prx9GfJQvICFmlZUdIFJuA2L1nVnZSdDo4cN8/yDLM+IlzNfqFCEnXShOLgrj3kaXEhFMb9/zdrVwT55mzZ1bUl0q/iYQF13zzHkh+cAWeqfqIBIF1/4oP5hhlwsDiHv5LNdWWZYplZUgtKwiyiE2k+/kNK2CS9hbC5Laa+sAIG4lRE+EI+qHx8RLc/qUO3cwXRoQuyxY8dH5H7LHwNuDV6BPZFCv/vS00l4kKcwn++'}}
0:37:37.649386	LOG	Server --------------------> DUT
0:37:37.652355	LOG	Send Test Command TxFramesCtrlReq process completed
0:37:37.656353	LOG	Send Test Command TxFramesCtrlReq process starts
0:37:42.521658	LOG	First uplink received. Open reception window.
0:37:42.636575	LOG	PUSH_ACK: 02 7fe2 01
0:37:42.638575	LOG	GPS Time from gateway: 1385121405765
0:37:42.639541	LOG	PUSH_DATA: Protocol version = 02, Token = 7fe2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2974943347, 'time': '2023-11-27T11:56:26.765048Z', 'tmms': 1385121405765, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACARAoC1NRiKExrXx2U/nw='}]}
0:37:42.641541	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a44, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1d94fe7c)
0:37:42.642542	LOG	Server <-------------------- DUT
0:37:42.644544	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06f5, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 5f6cffa5)
0:37:42.645574	LOG	Frame command sent to the DUT

0:37:42.647585	LOG	PULL_RESP: Protocol version = 02, Token = 9a0c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2976943347, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA9Qbgr1aM7R5wFJO6O56Z73yjzv8xMdlNjMAVNfja1aydTvF4FmqtZpyUfvSDDBoEo5hEzf94J/KMfIjp3W+vcq9KXAdGQTZx/wrgKpDT0OTjNDmCNIfxAhs3gj7R7D8JmL4pJd0LAGyJzEDohffIpSPgLPTIebVV35VfAJNhjusVvJg/2LtjSCNiHWW9LoP10AqIC2/yB3USHiSvI2pPAb+rxVS1aW6VNwUSDLs/WVW1wtBsm4auT6z6UDiBDvEO4MwmEDzYdOw8YD3Mxp9VLjW10g4QaXkrSMG4n2/SCINXT1j0zPn0yOhRB4rchvACNY+PU65fbP+l'}}
0:37:42.648575	LOG	Server --------------------> DUT
0:37:42.651541	LOG	Send Test Command TxFramesCtrlReq process completed
0:37:42.655554	LOG	Send Test Command TxFramesCtrlReq process starts
0:37:45.373250	LOG	GPS Time updated: 1385121408616
0:37:45.374247	LOG	PULL_DATA: 02 9b19 02 0016c001ff1025bf
0:37:45.376217	LOG	PULL_ACK: 02 9b19 04
0:37:47.528905	LOG	First uplink received. Open reception window.
0:37:47.634102	LOG	PUSH_ACK: 02 4cc3 01
0:37:47.636069	LOG	GPS Time from gateway: 1385121410764
0:37:47.637069	LOG	PUSH_DATA: Protocol version = 02, Token = 4cc3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2979943130, 'time': '2023-11-27T11:56:31.764830Z', 'tmms': 1385121410764, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACARQoCY6VeO1UBBV4W09M='}]}
0:37:47.639071	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a45, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5e16d3d3)
0:37:47.640069	LOG	Server <-------------------- DUT
0:37:47.642068	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06f6, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 47c061d6)
0:37:47.644069	LOG	Frame command sent to the DUT
0:37:47.645103	LOG	PULL_RESP: Protocol version = 02, Token = d573, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2981943130, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA9gbgXrNckR+NH0E9F3Rvw2MkpIcbhGxEcm/bxZKWhAfSBQnW+k2hse3fU8ylvO5q66OGETQkx07QT91LIQ30gWpeW+t+2uwiIU7o4Fzcnw0CTquKI0k2oS7+5NxRLEfP87AjRF7oWuyvks1iTrJzTkHc3Fmb517B99jjL4B2vYzy2YW/Oli1RN6WVhp+HY1BB0UoGlWAaJPIEepoISTGEZ95JWnMG84NTqUfw+GAv94l6DMK0ToYAWDYSxVUiddZQDRqVNA87Mep6OxF4JgLdpktTMrtyIYtvb/dAnlvjSOsImpREveebslDZVGK8TGaKQMvuw5HwGHW'}}
0:37:47.647070	LOG	Server --------------------> DUT
0:37:47.650072	LOG	Send Test Command TxFramesCtrlReq process completed
0:37:47.653102	LOG	Send Test Command TxFramesCtrlReq process starts
0:37:52.528286	LOG	First uplink received. Open reception window.
0:37:52.632887	LOG	PUSH_ACK: 02 af76 01
0:37:52.634884	LOG	GPS Time from gateway: 1385121415764
0:37:52.635852	LOG	PUSH_DATA: Protocol version = 02, Token = af76, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2984942868, 'time': '2023-11-27T11:56:36.764567Z', 'tmms': 1385121415764, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACARgoCXKT3ojenoPjA4Pw='}]}
0:37:52.637865	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a46, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f8c0e0fc)
0:37:52.638852	LOG	Server <-------------------- DUT
0:37:52.640885	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06f7, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 5a6bfb5f)
0:37:52.642881	LOG	Frame command sent to the DUT
0:37:52.643886	LOG	PULL_RESP: Protocol version = 02, Token = f1a4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2986942868, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA9wbghZUyLG4UXtOdtPzxG5vfgpONyXryQF2p+SoTqquf2hV+AQ+85xmsz1maKwEcGaMaggXf0oOLE+jkm0OSu/vl2aKhjNK/ikusfeKBLmtndIBxWrtqlW41aEfWXWn+iWDGJqZ+k6LVsnEjryfe+CW3jJzcWqHIHLsE8VK5UyTX50A22TFKXDhdaYlcBzHmDy8egRNOiyYx8fcoVyjEyrbBE+OsGgMNXpWj+XEw/dEwmrpw2XNa2IWJGz/gJjDMZX+he2GBTHmAM5F8TfgOJJQV+si8GSssx53m+hcK0btjQTAXxTqXQrnViyqzczUn+TX3O3xaa/tf'}}
0:37:52.644885	LOG	Server --------------------> DUT
0:37:52.647852	LOG	Send Test Command TxFramesCtrlReq process completed
0:37:52.651890	LOG	Send Test Command TxFramesCtrlReq process starts
0:37:55.582644	LOG	GPS Time updated: 1385121418818
0:37:55.584599	LOG	PULL_DATA: 02 f8c8 02 0016c001ff1025bf
0:37:55.585626	LOG	PULL_ACK: 02 f8c8 04
0:37:57.521721	LOG	First uplink received. Open reception window.
0:37:57.636153	LOG	PUSH_ACK: 02 dc34 01
0:37:57.638154	LOG	GPS Time from gateway: 1385121420764
0:37:57.639155	LOG	PUSH_DATA: Protocol version = 02, Token = dc34, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2989942603, 'time': '2023-11-27T11:56:41.764300Z', 'tmms': 1385121420764, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACARwoC7M350qfaCHRhL7Y='}]}
0:37:57.641168	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a47, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 74612fb6)
0:37:57.642155	LOG	Server <-------------------- DUT
0:37:57.644155	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06f8, FOpts:), FPort: e0, FRMPayload: 070001), MIC: efcebd6b)
0:37:57.646198	LOG	Frame command sent to the DUT
0:37:57.647187	LOG	PULL_RESP: Protocol version = 02, Token = aefd, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2991942603, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True,

		'size': 255, 'data': 'YAAAAAAA+AbgpebqJJ4NbpxO5rdm5GCuARpZGRqmlt1ht1GHUeSvf1dviIr2xwGNC+nwFzWzZqAlwC/arTThHbbPuA8qISDV4S+ZXWFHNEIuTXnNTrVYiRTLa+TyWyKBcNKY5UzfNf3dRjsBzqHnkIADjipPMkJ21sn3qZy1xoshQmdLJWdcFci0pEG8SDhCYrB2DaQQaL6H8EePdzbJ2XicV7Myg9A1T8HaMKjTviL1csNnAhaad6CKMqXYweNPNfNnYeAZWsuRfqING5XloEcyaO/y5bcG5i8hjzBW/jN0F6zKasuV8dPnOVD7g11xHgsPXKjdH1DptLLvzr1r'}}
0:37:57.648188	LOG	Server --------------------> DUT
0:37:57.651187	LOG	Send Test Command TxFramesCtrlReq process completed
0:37:57.655155	LOG	Send Test Command TxFramesCtrlReq process starts
0:38:02.522575	LOG	First uplink received. Open reception window.
0:38:02.636324	LOG	PUSH_ACK: 02 3a84 01
0:38:02.638289	LOG	GPS Time from gateway: 1385121425764
0:38:02.639288	LOG	PUSH_DATA: Protocol version = 02, Token = 3a84, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2994942379, 'time': '2023-11-27T11:56:46.764077Z', 'tmms': 1385121425764, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACASAoCsLVVmmKSn/kd8m4='}]}
0:38:02.641290	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a48, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f91df26e)
0:38:02.642289	LOG	Server <-------------------- DUT
0:38:02.644289	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06f9, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 59de4fde)
0:38:02.646289	LOG	Frame command sent to the DUT
0:38:02.647289	LOG	PULL_RESP: Protocol version = 02, Token = 147d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2996942379, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA+Qbg7CGAp7HG1VKKNUUv8hQrwfIdWl4y9m0TaAfWJjz3e9NIIkvWCKwFU8yGHzqONwotz84Gk8rxtuUbU++Ky/kGeAeaQ5sKqQilIMVlBco7VKmMjP8pg7iXL5fQmOZNCXGQdFqJiPxXGrRDygqoxv6ZNrem/ru5rzsPtXoR1lYzl+eMSeX9/PHvZC8xsSyIk/zNV0WHswzqMsU1mFF4VHWOQCBJY4nv/9g0LxXVcILbbWSPwyeb6+n0fwujyxRKs+gD5tCgqvJ7pBAJNWEoDLAjcDWyrliqfooA1RaZZ4vE9cdStdif639CzO9PN5hiOWt20UdZ3k/e'}}
0:38:02.648289	LOG	Server --------------------> DUT
0:38:02.651292	LOG	Send Test Command TxFramesCtrlReq process completed
0:38:02.654777	LOG	Send Test Command TxFramesCtrlReq process starts
0:38:05.793249	LOG	GPS Time updated: 1385121429035
0:38:05.794216	LOG	PULL_DATA: 02 1394 02 0016c001ff1025bf
0:38:05.796217	LOG	PULL_ACK: 02 1394 04
0:38:07.520611	LOG	First uplink received. Open reception window.
0:38:07.625500	LOG	PUSH_ACK: 02 f109 01
0:38:07.627497	LOG	GPS Time from gateway: 1385121430763
0:38:07.628465	LOG	PUSH_DATA: Protocol version = 02, Token = f109, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 2999942111, 'time': '2023-11-27T11:56:51.763808Z', 'tmms': 1385121430763, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACASQoCyKWg5G6AfitkhVo='}]}

0:38:07.630466	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a49, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2b64855a)
0:38:07.631465	LOG	Server <-------------------- DUT
0:38:07.633468	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06fa, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 1b83cad4)
0:38:07.635467	LOG	Frame command sent to the DUT
0:38:07.636465	LOG	PULL_RESP: Protocol version = 02, Token = 8f9f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3001942111, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAA+gbg0m23aHU6rky5SJad2ELs46LpXggFxg0UreDiSm+2RbAlhDCaVoXMd936gOXgHDEgS731W94XvNGx4Bs2Ygjm2gmL/Qyy+KIxC3Ds5cal5AbGPsRB2nMLLoDp4jn0I2RrRE9nb8u0rF9nverjWGRjXCPT5RBwMLvAxoagSBRZzFhuVwk2y+KTLhbCKzFxxvsNbNJtHFqDBEDAKIbv0ezgIQuxF4SMGP6w1VGGwiZQMTrocmUv+5if0WlfpT0cunUa98LPIZY9gSivIgSpMn/pkYwPD6hJhCDo34Uwld5zN6tAmV1mUbIBI8RsUR+xSRTztT0bg8rU'}}
0:38:07.638465	LOG	Server --------------------> DUT
0:38:07.641467	LOG	Send Test Command TxFramesCtrlReq process completed
0:38:07.644467	LOG	Step 06-07
0:38:07.647498	LOG	Send Test Command RxAppCntReq process starts
0:38:12.528118	LOG	First uplink received. Open reception window.
0:38:12.640611	LOG	PUSH_ACK: 02 feb8 01
0:38:12.642609	LOG	GPS Time from gateway: 1385121435763
0:38:12.643576	LOG	PUSH_DATA: Protocol version = 02, Token = feb8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3004941864, 'time': '2023-11-27T11:56:56.763560Z', 'tmms': 1385121435763, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACASgoCUwWwKfZN2dvnvBA='}]}
0:38:12.645584	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a4a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: dbe7bc10)
0:38:12.646578	LOG	Server <-------------------- DUT
0:38:12.648578	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06fb, FOpts:), FPort: e0, FRMPayload: 09), MIC: 6e0ce01e)
0:38:12.649609	LOG	Frame command sent to the DUT
0:38:12.651577	LOG	PULL_RESP: Protocol version = 02, Token = da96, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3006941864, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAA+wbghW4M4B4='}}
0:38:12.652576	LOG	Server --------------------> DUT
0:38:12.655576	LOG	TX_ACK: 02 da96 05 0016c001ff1025bf
0:38:15.803106	LOG	GPS Time updated: 1385121439038
0:38:15.804106	LOG	PULL_DATA: 02 2603 02 0016c001ff1025bf
0:38:15.806106	LOG	PULL_ACK: 02 2603 04
0:38:16.427311	LOG	First uplink received. Open reception window.
0:38:16.530148	LOG	PUSH_ACK: 02 86bf 01
0:38:16.532117	LOG	GPS Time from gateway: 1385121439665
0:38:16.533117	LOG	PUSH_DATA: Protocol version = 02, Token = 86bf, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3008843835, 'time': '2023-11-27T11:57:00.665530Z', 'tmms': 1385121439665, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3377, 'rssi': -51, 'size': 16, 'data': 'QAAAAACASwrgXtv+YK6d8w==\'}]}
0:38:16.535118	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a4b, FOpts:), FPort: e0, FRMPayload: 097105, MIC: 60ae9df3)
0:38:16.536116	LOG	Server <---------- DUT
0:38:16.538117	LOG	Frame Command Payload in the Answer: 097105
0:38:16.541622	LOG	RX Count received by DUT: 1393
0:38:16.543631	LOG	Send Test Command RxAppCntReq process completed
0:38:16.549631	LOG	End Test Step: Test packet error rate for SF7BW250 using RX2 window
0:38:16.554630	LOG	Partial Verdict: PASS
0:38:16.557630	LOG	==========
0:38:16.561630	LOG	==========
0:38:16.564631	LOG	Start Test Step: Test packet error rate for FSK50 using RX2 window
0:38:16.576638	LOG	Step 01-03
0:38:16.580663	LOG	Send RXParamSetupReq process starts
0:38:22.518102	LOG	First uplink received. Open reception window.
0:38:22.632640	LOG	PUSH_ACK: 02 ec53 01
0:38:22.634601	LOG	GPS Time from gateway: 1385121445762
0:38:22.635600	LOG	PUSH_DATA: Protocol version = 02, Token = ec53, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3014941343, 'time': '2023-11-27T11:57:06.763037Z', 'tmms': 1385121445762, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACATAoCSZuZe1Xg88SqqKI=\'}]}
0:38:22.637616	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a4c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c4aaa8a2)
0:38:22.638600	LOG	Server <---------- DUT
0:38:22.640601	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06fc, FOpts:), FPort: 00, FRMPayload: 0507d2ad84), MIC: 4fd47618)
0:38:22.642601	LOG	PULL_RESP: Protocol version = 02, Token = e916, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3016941343, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAA/AYA4l7vcExP1HYY'}}
0:38:22.643600	LOG	Server ----------> DUT
0:38:22.647437	LOG	TX_ACK: 02 e916 05 0016c001ff1025bf
0:38:26.012249	LOG	GPS Time updated: 1385121449256
0:38:26.014250	LOG	PULL_DATA: 02 093c 02 0016c001ff1025bf
0:38:26.015250	LOG	PULL_ACK: 02 093c 04
0:38:27.520380	LOG	First uplink received. Open reception window.
0:38:27.633531	LOG	PUSH_ACK: 02 c2a4 01
0:38:27.635501	LOG	GPS Time from gateway: 1385121450762
0:38:27.636500	LOG	PUSH_DATA: Protocol version = 02, Token = c2a4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3019941172, 'time': '2023-11-27T11:57:11.762865Z', 'tmms': 1385121450762, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3381, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCTQoFBwJ+IRL5yyZwTXVtBQ==\'}]}
0:38:27.638501	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0a4d, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 4d756d05)
0:38:27.639501	LOG	Server <---------- DUT
0:38:27.641501	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:38:27.642532	LOG	Command Answer: 0507
0:38:27.654503	LOG	MAC command communication completed
0:38:27.659500	LOG	Step 03-04
0:38:27.670500	LOG	Send Test Command RxAppCntReq process starts
0:38:32.526944	LOG	First uplink received. Open reception window.
0:38:32.633231	LOG	PUSH_ACK: 02 550e 01

0:38:32.635198	LOG	GPS Time from gateway: 1385121455762
0:38:32.636197	LOG	PUSH_DATA: Protocol version = 02, Token = 550e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3024940989, 'time': '2023-11-27T11:57:16.762680Z', 'tmms': 1385121455762, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3381, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCTgoFBwInNnBTe4wBy2e8Xw=='}]}
0:38:32.637197	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0a4e, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: cb67bc5f)
0:38:32.639197	LOG	Server <-------------------- DUT
0:38:32.640198	LOG	MAC Command RXParamSetupAns received
0:38:32.642198	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06fd, FOpts:), FPort: e0, FRMPayload: 09), MIC: 468a27e0)
0:38:32.643197	LOG	Frame command sent to the DUT
0:38:32.644197	LOG	PULL_RESP: Protocol version = 02, Token = aeed, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3026940989, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 14, 'data': 'YAAAAAAA/Qbgu0aKJ+A='}}
0:38:32.646197	LOG	Server --------------------> DUT
0:38:32.648256	LOG	TX_ACK: 02 aeed 05 0016c001ff1025bf
0:38:34.603779	LOG	First uplink received. Open reception window.
0:38:34.708813	LOG	PUSH_ACK: 02 6704 01
0:38:34.710810	LOG	GPS Time from gateway: 1385121457841
0:38:34.711776	LOG	PUSH_DATA: Protocol version = 02, Token = 6704, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3027019780, 'time': '2023-11-27T11:57:18.841472Z', 'tmms': 1385121457841, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3385, 'rssi': -51, 'size': 16, 'data': 'QAAAAACATwrgoF3N+Q1HVg=='}]}
0:38:34.713777	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a4f, FOpts:), FPort: e0, FRMPayload: 097205, MIC: f90d4756)
0:38:34.714779	LOG	Server <-------------------- DUT
0:38:34.715812	LOG	Frame Command Payload in the Answer: 097205
0:38:34.719885	LOG	RX Count received by DUT: 1394
0:38:34.721437	LOG	Send Test Command RxAppCntReq process completed
0:38:34.725434	LOG	Step 05
0:38:34.729435	LOG	Send Test Command TxFramesCtrlReq process starts
0:38:36.212227	LOG	GPS Time updated: 1385121459450
0:38:36.214227	LOG	PULL_DATA: 02 845f 02 0016c001ff1025bf
0:38:36.215233	LOG	PULL_ACK: 02 845f 04
0:38:37.517229	LOG	First uplink received. Open reception window.
0:38:37.628466	LOG	PUSH_ACK: 02 cd94 01
0:38:37.630468	LOG	GPS Time from gateway: 1385121460762
0:38:37.631433	LOG	PUSH_DATA: Protocol version = 02, Token = cd94, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3029940658, 'time': '2023-11-27T11:57:21.762350Z', 'tmms': 1385121460762, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAUAoCwUHhZ49Qy6SjSZE='}]}
0:38:37.633435	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a50, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a4a34991)
0:38:37.634466	LOG	Server <-------------------- DUT
0:38:37.636010	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06fe, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101010

		1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 30d3a565)
0:38:37.638044	LOG	Frame command sent to the DUT
0:38:37.639041	LOG	PULL_RESP: Protocol version = 02, Token = 8ba4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3031940658, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAA/gbgL/vltGfSCHKMbU2c1XLbPnIReCSBtAtF+gcVIjx2/AQl5+ceNOeX60kB+efSI9rhhQTC2soY4C+PLewdow5IKHgXuYs1PYwGKfzN83+acSWmIpOD0Ri3oOxFMCkBWqQJSJBSDqRu+C43cAHK3gw9k1kHWKHoTsoEed2QiH8zhiztjIRFh1xmBqnPJAEUHwJteVLWheiEDZUtmaEtuou99QqERPlqEs+OndTjPlFFSK9I/hvcZuUjRjqPsnxuzcpCj5Z7yXFgpv1PMvbPaEF8NC4iYRgFxv0gXI1pk2X/+pXh28B2JdInFTMv2SkeSffqdycw06Vl'}}
0:38:37.640041	LOG	Server -------------------> DUT
0:38:37.643008	LOG	Send Test Command TxFramesCtrlReq process completed
0:38:37.647009	LOG	Send Test Command TxFramesCtrlReq process starts
0:38:42.517677	LOG	First uplink received. Open reception window.
0:38:42.625465	LOG	PUSH_ACK: 02 bea9 01
0:38:42.627431	LOG	GPS Time from gateway: 1385121465762
0:38:42.628430	LOG	PUSH_DATA: Protocol version = 02, Token = bea9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3034940393, 'time': '2023-11-27T11:57:26.762084Z', 'tmms': 1385121465762, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAUQoCWGi39fY4Ka+pEJQ='}]}
0:38:42.630432	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a51, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: afa91094)
0:38:42.631430	LOG	Server <------------------- DUT
0:38:42.633430	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 06ff, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: a85fb249)
0:38:42.635430	LOG	Frame command sent to the DUT
0:38:42.636431	LOG	PULL_RESP: Protocol version = 02, Token = 9364, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3036940393, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAA/wbgPfY6Bns9LJPL1RGQW3DB2Bq9xQq2JExPxpAmpyJICD47XzmD6JXoAhaYkDcT0vRyK/n67BqQgMDzpdFlVNzOQrjI9F5HjJtfi/x40Geub0mtXbC2Jgr+qx2iiqTZW+xwgnbZFJH3cKOT+1N7gzen1bxxVxHUUnBnuJOgRJs0sb6WaHqkYyQKv2UDh1vg3EUQ78cK9LMNls/wIyd4/cQTvmDpmLIC192EyQ5AVEA4TnARd4A1WrAApMoxOukDiRWXSFkmoxAeDyMtAMqE85GHOD1wd1Ds97L6WRxlnZfZ5UYxNSbWcJPILyS1/AvnPQMJ5ZioX7JJ'}}
0:38:42.637936	LOG	Server -------------------> DUT
0:38:42.640941	LOG	Send Test Command TxFramesCtrlReq process completed
0:38:42.643990	LOG	Send Test Command TxFramesCtrlReq process starts
0:38:46.411805	LOG	GPS Time updated: 1385121469656
0:38:46.413806	LOG	PULL_DATA: 02 c8f8 02 0016c001ff1025bf
0:38:46.414773	LOG	PULL_ACK: 02 c8f8 04
0:38:47.524592	LOG	First uplink received. Open reception window.
0:38:47.632047	LOG	PUSH_ACK: 02 2edb 01
0:38:47.634013	LOG	GPS Time from gateway: 1385121470761

0:38:47.635014	LOG	PUSH_DATA: Protocol version = 02, Token = 2edb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3039940159, 'time': '2023-11-27T11:57:31.761849Z', 'tmms': 1385121470761, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3377, 'rssi': - 51, 'size': 20, 'data': 'QAAAAACAUgoCQA/d49hZk13Eca8='}]}
0:38:47.637014	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a52, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5dc471af)
0:38:47.638014	LOG	Server <-------------------- DUT
0:38:47.640016	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0700, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010101010101010101010101010 10101010101010101), MIC: 5c6149f5)
0:38:47.641054	LOG	Frame command sent to the DUT
0:38:47.643041	LOG	PULL_RESP: Protocol version = 02, Token = 5d70, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3041940159, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAAAfgU3t0F1DOyM1/CHZLD6/2YVxkrV7Z0fhvpqkJ4VW1O1yPz QgqSCJ/bKKtJ0wPAs4srI1T/yE5cBxbCsSAvqZ3bM2McYY4Z6P6Z51lzO51fHm S6WdHvBl8+70bt7KjToyc3dWIckugS7BRMQZGJa0XeW2KZxecv0gZ3/bSKqS Mgo3ZKQ+1MWEw4TbfdYHlOL9ut19CkqQ/Ik+CexjFWF7EvkUco91jbvIFOIp4 eTM+G36HJ6KaLg1OXmmgW+rcst9Io9wMRrQDY531QVQKV42/olFWidEeT08 AT80UkdY3a1qUuzLJa4UunMr+JmIW2y7Wj35cYUn1'}}
0:38:47.644047	LOG	Server --------------------> DUT
0:38:47.646476	LOG	Send Test Command TxFramesCtrlReq process completed
0:38:47.650474	LOG	Send Test Command TxFramesCtrlReq process starts
0:38:52.525510	LOG	First uplink received. Open reception window.
0:38:52.632720	LOG	PUSH_ACK: 02 8c1f 01
0:38:52.634693	LOG	GPS Time from gateway: 1385121475761
0:38:52.635693	LOG	PUSH_DATA: Protocol version = 02, Token = 8c1f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3044939941, 'time': '2023-11-27T11:57:36.761630Z', 'tmms': 1385121475761, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3377, 'rssi': - 51, 'size': 20, 'data': 'QAAAAACAUwoCbAWaI7faitVHEO0='}]}
0:38:52.637694	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a53, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d54710ed)
0:38:52.638694	LOG	Server <-------------------- DUT
0:38:52.640693	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0701, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010101010101010101010101010 10101010101010101), MIC: 0d2ada64)
0:38:52.641693	LOG	Frame command sent to the DUT
0:38:52.643694	LOG	PULL_RESP: Protocol version = 02, Token = 876b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3046939941, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAAQfgsK7nt/7L5rj2ZSIr40HNe8AQZTfEjKqMWEBx7JBLFSDAGU yAjpB9gqm+ungGALXnaeyEZKOCjB7lX22MMVkcHPsYL2Bxxr0UgoE0V4sIW

		JAWmEM3we6upJPRIyXlqqzczml+Z4aU2oq3hu3x02BfWw13z5k7P/Z6ILhqGzHet1ita5to9t6AChWinEKS0hVmCQqxeWDPb4Wk3cz1jO3RvGx2l0cYcxOCWTwxTJynPcVWmDPcMiNVyNFEIGfqMvmx7a0e/tkZowoFsWVioNY8lwf6GWlPB9Nr6itnvXj/fo1jbxgzxIYfIO39iemoi10I7l4NKtpk'}}
0:38:52.644693	LOG	Server --------------------> DUT
0:38:52.648693	LOG	Send Test Command TxFramesCtrlReq process completed
0:38:52.652200	LOG	Send Test Command TxFramesCtrlReq process starts
0:38:56.422444	LOG	GPS Time updated: 1385121479658
0:38:56.424444	LOG	PULL_DATA: 02 d70a 02 0016c001ff1025bf
0:38:56.425445	LOG	PULL_ACK: 02 d70a 04
0:38:57.523465	LOG	First uplink received. Open reception window.
0:38:57.626251	LOG	PUSH_ACK: 02 8d5d 01
0:38:57.628255	LOG	GPS Time from gateway: 1385121480761
0:38:57.630254	LOG	PUSH_DATA: Protocol version = 02, Token = 8d5d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3049939679, 'time': '2023-11-27T11:57:41.761367Z', 'tmms': 1385121480761, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAVAoCBhfAfffdxwccQQU='}]}
0:38:57.631254	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a54, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 071c4105)
0:38:57.633253	LOG	Server <-------------------- DUT
0:38:57.635255	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0702, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 24446eb8)
0:38:57.637296	LOG	Frame command sent to the DUT
0:38:57.638296	LOG	PULL_RESP: Protocol version = 02, Token = ced3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3051939679, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAAgfg14XkZcODp7fKCgJTY4J5UyOSpeJ/CMp7Fjl2q9MvbWmmoyPjx6uL1UjuOKW4OYHS/pJ9P6VUiiJweS0EaBj71FX3vnfT3+a6pube7/NkIiccbzJ+vIv4QMiW0a3asQkvdUvzy/8a6tcOkwnhk7FHxd6HVoPsI5LSPKvQ5mtF1CTnzxpoL/MtU4QVXPnB9pstujxQUXuLQN2WTOTG0rBYJI2NbOpFBzB0SpLLQrnCvsxvCwZjlKvjvE8jdB5lDSfJO3Xn+VedrZMYpnM6wdPk750fSS718pw4ntiRCuruIPO6rAScpLShi70THFJTNDFAfkwkRG64'}}
0:38:57.640328	LOG	Server --------------------> DUT
0:38:57.643296	LOG	Send Test Command TxFramesCtrlReq process completed
0:38:57.647297	LOG	Send Test Command TxFramesCtrlReq process starts
0:39:02.521927	LOG	First uplink received. Open reception window.
0:39:02.626605	LOG	PUSH_ACK: 02 c97a 01
0:39:02.628607	LOG	GPS Time from gateway: 1385121485761
0:39:02.629573	LOG	PUSH_DATA: Protocol version = 02, Token = c97a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3054939425, 'time': '2023-11-27T11:57:46.761112Z', 'tmms': 1385121485761, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAVQoCeGot8uvHnIYyAQw='}]}
0:39:02.631604	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a55, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8632010c)
0:39:02.632606	LOG	Server <-------------------- DUT
0:39:02.634603	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0703, FOpts:), FPort: e0, FRMPayload:

		0700010101010101010101010101010101010101010101010101010101010101 1010101010101010101010101010101010101010101010101010101010101010 0101010101010101010101010101010101010101010101010101010101010101 1010101010101010101010101010101010101010101010101010101010101010 0101010101010101010101010101010101010101010101010101010101010101 1010101010101010101010101010101010101010101010101010101010101010 0101010101010101010101010101010101010101010101010101010101010101 101010101010101), MIC: 767a7ffa)
0:39:02.636607	LOG	Frame command sent to the DUT
0:39:02.637603	LOG	PULL_RESP: Protocol version = 02, Token = 611f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3056939425, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAAwfgmh7vbto+vQ9Z9wbdR9EF2nQ7XMLNx8vN1QHlk6AjsUwu DztaRMNhHSOvQLR2+cgbHf578oLmdOx5xQVbpUj3uZFnBLhkXp5AptZbo3m nA5KmioRIFGbW972Bpbrxd5vai3bkTpAuovvvatHsFuO3Z8KqUlWZhbH7OoZo UYNk/LQjsSsW0eTJYTDMYRHhSy4yDsedRB8XDG8XFuYX01m/EFCgCu28I2 wnjZBMGLQYevoZ0xMBYWHK23PQOCS+t5sKPkVKI7cKcnFLPO6fwULDwb kqDx8Z2cKgOCmGpPngLVzqdSShWXPmsLGCCWtuQzwp0Jt2en/6'}}
0:39:02.639603	LOG	Server ----------> DUT
0:39:02.641641	LOG	Send Test Command TxFramesCtrlReq process completed
0:39:02.645609	LOG	Send Test Command TxFramesCtrlReq process starts
0:39:06.622178	LOG	GPS Time updated: 1385121489862
0:39:06.624146	LOG	PULL_DATA: 02 b086 02 0016c001ff1025bf
0:39:06.625146	LOG	PULL_ACK: 02 b086 04
0:39:07.521688	LOG	First uplink received. Open reception window.
0:39:07.634680	LOG	PUSH_ACK: 02 59b9 01
0:39:07.636714	LOG	GPS Time from gateway: 1385121490760
0:39:07.637682	LOG	PUSH_DATA: Protocol version = 02, Token = 59b9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3059939152, 'time': '2023-11-27T11:57:51.760837Z', 'tmms': 1385121490760, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAVgoCdOkeOyQ9kQi7VRs='}]}
0:39:07.639681	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a56, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 08bb551b)
0:39:07.640682	LOG	Server <---------- DUT
0:39:07.642716	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0704, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101 1010101010101010101010101010101010101010101010101010101010101010 0101010101010101010101010101010101010101010101010101010101010101 1010101010101010101010101010101010101010101010101010101010101010 0101010101010101010101010101010101010101010101010101010101010101 1010101010101010101010101010101010101010101010101010101010101010 0101010101010101010101010101010101010101010101010101010101010101 101010101010101), MIC: b60e455c)
0:39:07.644715	LOG	Frame command sent to the DUT
0:39:07.645682	LOG	PULL_RESP: Protocol version = 02, Token = 6707, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3061939152, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAABAfgZ8F4q7mhfq9ThlxaFR4NOiUM1N5eHUbie3SZRcnsRyARCB swIakGtGqHR5kqJNlTCbLZe0iUBV6FJYjJR+/uf1mjehGoZpiPqomvc7aQhFWKL FcDdE/HE1mwL86nWYIC5pz2mIsOpoB8wgouGhMPbplPtmyBK3ghS4BQcCs+ C9rahZPpSAtrujKS6IXMc1BcSvThJWkQGlf6+HizB47VfHEtFPvmt89ERKC1SR 8UzAeRAqHw/f4za3z8LFWet8EOHD8IKN4WenaSBlD4K2QxGY3tEmEfhnqTKI SRV8Wo5BDwBSuiHMA6a/DP8KN5PGeA1Pa2DkVc'}}
0:39:07.647686	LOG	Server ----------> DUT
0:39:07.650699	LOG	Send Test Command TxFramesCtrlReq process completed

0:39:07.653687	LOG	Send Test Command TxFramesCtrlReq process starts
0:39:12.517744	LOG	First uplink received. Open reception window.
0:39:12.622506	LOG	PUSH_ACK: 02 c21b 01
0:39:12.624472	LOG	GPS Time from gateway: 1385121495760
0:39:12.626471	LOG	PUSH_DATA: Protocol version = 02, Token = c21b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3064938935, 'time': '2023-11-27T11:57:56.760621Z', 'tmms': 1385121495760, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAVwoCv5bQXcSYUiSh+Jc='}]}
0:39:12.627472	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a57, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 24a1f897)
0:39:12.628505	LOG	Server <-------------------- DUT
0:39:12.630503	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0705, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 35b37ee2)
0:39:12.632518	LOG	Frame command sent to the DUT
0:39:12.634470	LOG	PULL_RESP: Protocol version = 02, Token = 04bb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3066938935, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAABQfg8mFFXS1ZEur+CLc5iy/5oCprZiOlNbiVISwxLPfUlpcc3SOxbToJFrgcR/73DyZKwgXkbqgIQqTjbT9Holsrq5HXDJU2kgN5saFSYKrEKOdks/nQHfoHHkrNVtV0DG2i3EqrXPaixDNikedKWzl8j4cn7jJKAgD1Fvu/PQkO7D/sBCB+3AqGTQzYQ5NNtQW/4uYK9GKVAWzglcDFPy3OOezONJiBi3jh3tvdKdLrugx2hqcmlQcFFIxH0SHCA33XJIbs/6U3JhOzgJwWZOBNjIB9NG3tLyWIVBQrNM3sDgdYyHBncbO8quGnjD2D8IERho41s37i'}}
0:39:12.635469	LOG	Server --------------------> DUT
0:39:12.638470	LOG	Send Test Command TxFramesCtrlReq process completed
0:39:12.642470	LOG	Send Test Command TxFramesCtrlReq process starts
0:39:16.833665	LOG	GPS Time updated: 1385121500076
0:39:16.835390	LOG	PULL_DATA: 02 5d18 02 0016c001ff1025bf
0:39:16.836866	LOG	PULL_ACK: 02 5d18 04
0:39:17.526075	LOG	First uplink received. Open reception window.
0:39:17.630226	LOG	PUSH_ACK: 02 29c4 01
0:39:17.632195	LOG	GPS Time from gateway: 1385121500760
0:39:17.633195	LOG	PUSH_DATA: Protocol version = 02, Token = 29c4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3069938670, 'time': '2023-11-27T11:58:01.760355Z', 'tmms': 1385121500760, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAWAoCC5XxWlVJujV7ayE='}]}
0:39:17.635195	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a58, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 357b6b21)
0:39:17.636195	LOG	Server <-------------------- DUT
0:39:17.638195	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0706, FOpts:), FPort: e0, FRMPayload: 070001

		0101010101010101010101010101010101010101010101010101010101010101010101010101010101010, MIC: 9ffebcce)
0:39:17.639194	LOG	Frame command sent to the DUT
0:39:17.641195	LOG	PULL_RESP: Protocol version = 02, Token = 999e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3071938670, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAABgfg2LnJT8sBy9iuwHH4AWA3m/66jtWyP/+MJkriiaZ+HubcAc3dEBoYA4ZAL3y56ypSd2N76VRyDa42xobS0G7JEYRh0PZjQ2pU5YwMRAYYWcjvAEUlCSnp+DJHf4pDM+gRKFwY6Fe3df5SIQJTEBXWBE+sBdYDzBvtvlYZRtPvRKJ0+nV9MFXyU7eczbN3j4NQb0rzIrk6OVVcpKtHqcZa6PqstwAvgafhcTVW682cS1EawhyZ9FNIx43tqqhpu/LDJc9y/wNy1QC3YYMZtdZz/R5AWRjyIdXN29NxoqF40BtqWrOzPN2tY2qkDru6yazTTpOf/rzO'}}
0:39:17.642195	LOG	Server -------------------> DUT
0:39:17.645194	LOG	Send Test Command TxFramesCtrlReq process completed
0:39:17.649195	LOG	Send Test Command TxFramesCtrlReq process starts
0:39:22.515320	LOG	First uplink received. Open reception window.
0:39:22.630014	LOG	PUSH_ACK: 02 1cad 01
0:39:22.632015	LOG	GPS Time from gateway: 1385121505760
0:39:22.633017	LOG	PUSH_DATA: Protocol version = 02, Token = 1cad, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3074938415, 'time': '2023-11-27T11:58:06.760099Z', 'tmms': 1385121505760, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAWQoCjrgmk72berOQAJQ='}]}
0:39:22.635021	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a59, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b3900094)
0:39:22.636050	LOG	Server <------------------- DUT
0:39:22.638018	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0707, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 240533b4)
0:39:22.640018	LOG	Frame command sent to the DUT
0:39:22.641049	LOG	PULL_RESP: Protocol version = 02, Token = be6b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3076938415, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAABwfgimtyrFSuVSowZJV7g1SMe89WLtofxe9RT++bJ3n8Ymyf55PwxkMcVGCgb3qIaaQiJMUdst8rPAswrgsvjU/kOUBQhgmUoU/2GJLgZHwIGgdLnVoIuaxLiPIG5kvYeI3jmCOMu9/yhg164b8k6jruFnWWjjpkP2XnHOw3JkBN3pupPXaIXG1AmQ5ltjp35o4IuR22hkM4HivENQHqeyrKYSIYqLYQgrpak0vRkIz/uObrL8rbHnnHZVvOheYmBMU1ivZXgKrmHYKAi/Q7ig/7Sy8QW5P1h8aLo12n9XrvX5D/eJLUUJwse5S1f1pyyqVtaDQkBTO0'}}
0:39:22.642048	LOG	Server -------------------> DUT
0:39:22.645016	LOG	Send Test Command TxFramesCtrlReq process completed
0:39:22.648048	LOG	Send Test Command TxFramesCtrlReq process starts
0:39:26.842091	LOG	GPS Time updated: 1385121510087
0:39:26.844091	LOG	PULL_DATA: 02 41e1 02 0016c001ff1025bf
0:39:26.845870	LOG	PULL_ACK: 02 41e1 04
0:39:27.516412	LOG	First uplink received. Open reception window.
0:39:27.631229	LOG	PUSH_ACK: 02 930a 01
0:39:27.633229	LOG	GPS Time from gateway: 1385121510759
0:39:27.634230	LOG	PUSH_DATA: Protocol version = 02, Token = 930a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3079938154, 'time': '2023-11-27T11:58:11.759837Z',

		'tmms': 1385121510759, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAWgoCxspVSfH2AfjrcZ8='}]}
0:39:27.636242	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a5a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f8eb719f)
0:39:27.637266	LOG	Server <-------------------- DUT
0:39:27.639232	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0708, FOpts:), FPort: e0, FRMPayload: 070001), MIC: f37fccaa)
0:39:27.641266	LOG	Frame command sent to the DUT
0:39:27.642263	LOG	PULL_RESP: Protocol version = 02, Token = ddee, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3081938154, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAACAfgcmmLJ/HEjpb4asylOYSIPt/Qm/Zvj/yG+qq9hFqOQnQza4kuaRvJu6I+Z1UwFOd0CAd1UBfVG7xTS/f5ufrHrwrUb8H7QitP/ukOVgDgrPnOioLBcZQo02G/lD/p5yFWPqA4+/WXk9BQhNdutz+PyDfschk1qwHM4vkJFF7yzMC/KKhWrvsGD4VvYoNOPSQSNb3tk/SVzhchNUjtbrpJBKsi4ySfYdnsW3IKzfT9tb7bMcGbnMCF4PFXnQsXsaxZzM9DihFGIYYBwSsQGs5C+/5Dfb+eoDHI19s+EzO+CjItmfN3ZQvqMGgzZjYIfWzw5pbzf8yq'}}
0:39:27.643266	LOG	Server --------------------> DUT
0:39:27.646291	LOG	Send Test Command TxFramesCtrlReq process completed
0:39:27.650231	LOG	Send Test Command TxFramesCtrlReq process starts
0:39:32.516674	LOG	First uplink received. Open reception window.
0:39:32.618548	LOG	PUSH_ACK: 02 dac1 01
0:39:32.620525	LOG	GPS Time from gateway: 1385121515759
0:39:32.621515	LOG	PUSH_DATA: Protocol version = 02, Token = dac1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3084937898, 'time': '2023-11-27T11:58:16.759580Z', 'tmms': 1385121515759, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAWwoCguRqLfgPB/eFcCY='}]}
0:39:32.622516	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a5b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f7857026)
0:39:32.624515	LOG	Server <-------------------- DUT
0:39:32.626515	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0709, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 24a9ff56)
0:39:32.627516	LOG	Frame command sent to the DUT
0:39:32.629514	LOG	PULL_RESP: Protocol version = 02, Token = 119d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3086937898, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAACQfgHPZYJFvMBscGnit4++ALwOVtXUS+tOisbH9hpFxCw+75eNHJbC+OCGkpjz4MPNmMQNJO3bpRnej0hQCSuEQsIqoLSXS2j8dHDgOHdauPD1b5tyCXgV4B0hBeHnvm2AmX5s1oDv4kyWq3Hejgq5l6wZLHqOhxRvfmOmXRhYQbnZxlP7ge83iDauTz2Wlew0stTwmAgG8//wQmde+S7ldUoxXEafxFe9lJbO

		W1v11MhzPMHt6OLkAYOqA6rZNlDZDTIQ5UMQJH7IbBY8n8r4dXLSb3w1D6QYhaNLkQ/QHTpRuBuOXHlPSrIJbiDUUHUasAf1Mkqf9W'}}
0:39:32.630514	LOG	Server --------------------> DUT
0:39:32.633514	LOG	Send Test Command TxFramesCtrlReq process completed
0:39:32.637514	LOG	Send Test Command TxFramesCtrlReq process starts
0:39:37.041856	LOG	GPS Time updated: 1385121520284
0:39:37.042856	LOG	PULL_DATA: 02 e566 02 0016c001ff1025bf
0:39:37.044823	LOG	PULL_ACK: 02 e566 04
0:39:37.522731	LOG	First uplink received. Open reception window.
0:39:37.637931	LOG	PUSH_ACK: 02 e0ca 01
0:39:37.639898	LOG	GPS Time from gateway: 1385121520759
0:39:37.640898	LOG	PUSH_DATA: Protocol version = 02, Token = e0ca, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3089937626, 'time': '2023-11-27T11:58:21.759307Z', 'tmms': 1385121520759, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAXAoCEYL2+lIT/HgA/Jo='}]}
0:39:37.642906	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a5c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7800fc9a)
0:39:37.643898	LOG	Server <-------------------- DUT
0:39:37.645898	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 070a, FOpts:), FPort: e0, FRMPayload: 070001), MIC: cfe76e7a)
0:39:37.646897	LOG	Frame command sent to the DUT
0:39:37.648897	LOG	PULL_RESP: Protocol version = 02, Token = 2f79, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3091937626, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAACgfgVMJcW3npE+bJE808XOVvH5Cjw4avyLGctMgCB7RRlhEXoSdPcYvnOz/4M/NNjxqZk69ykN+1VOOxc9IK1BZd/W4+3E8fN+Y5/wHx9xa3ZaY7YvkSDrUlERO2yBW2g57IbGZqzUTsNs3VmpI4QDw6NdARGuhhGVm0gzwBGiyp2uE+ieM0FpqyMFAayKNnGC/ZybPuATpR8ffpbqXOlD2VEIWNVblyuuBFjobGa8Ln8t9an0UUwjI9+z91G7E1T+H2lb/74t8ug1RupuZFI5qaXmdIszv76IG5LUhbt9Ni6igHTkaHQqHFj4fNDRRv+qA5BXjP5256'}}
0:39:37.649898	LOG	Server --------------------> DUT
0:39:37.652899	LOG	Send Test Command TxFramesCtrlReq process completed
0:39:37.656898	LOG	Send Test Command TxFramesCtrlReq process starts
0:39:42.516298	LOG	First uplink received. Open reception window.
0:39:42.621593	LOG	PUSH_ACK: 02 f1b8 01
0:39:42.623593	LOG	GPS Time from gateway: 1385121525758
0:39:42.624561	LOG	PUSH_DATA: Protocol version = 02, Token = f1b8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3094937407, 'time': '2023-11-27T11:58:26.759086Z', 'tmms': 1385121525758, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.8, 'foff': -3385, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAXQoCAzBFj9C+/2OuwU8='}]}
0:39:42.626567	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a5d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 63aec14f)
0:39:42.627563	LOG	Server <-------------------- DUT
0:39:42.629562	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 070b, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101

		0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 093f7d02)
0:39:42.631562	LOG	Frame command sent to the DUT
0:39:42.632562	LOG	PULL_RESP: Protocol version = 02, Token = 289a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3096937407, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAACwfgkVqecYKjCLANbQoFqsQu+ZdPnXV/lE5/TY7lshmWsEluzTD1UOqDHEus20gQCzKh2pJJ+Y4AfqiSssRG/az3yf6dCnKK4zjtRZzJXOjCpyE1RtsBGbTxrDR+JpYMrWxebwccmEJbZN8fO+EEjbZzOyO3ynzBGSAja3F83coIdDnSgOv2TkV/1JuNwlM5/saz+Jqf/IQsWWDipL/mjzoMD7fSs1OElchyGdmakx6cINOMO0XXursWyo+VeWDzY8hPIaPqdFyPlgvvH3gyL4PmChgKKmUgGFMe2WlhMRlC+KzjM8RTKo4D/z1cf2n57L3Ycl8JP30C'}}
0:39:42.635140	LOG	Server --------------------> DUT
0:39:42.638140	LOG	Send Test Command TxFramesCtrlReq process completed
0:39:42.641141	LOG	Send Test Command TxFramesCtrlReq process starts
0:39:47.252170	LOG	#***************************CURRENT BEACON SENT***************************#
0:39:47.254138	LOG	PULL_RESP: Protocol version = 02, Token = 6947, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385121536000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAR49SLOkAAAAAAAAAAAA='}}
0:39:47.255133	LOG	Server --------------------> DUT
0:39:47.257147	LOG	#**#
0:39:47.266132	LOG	#***************************NEXT BEACON QUEUED****************************#
0:39:47.268134	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385121664000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAR49SFDQAAAAAAAAAAAA='}}
0:39:47.269134	LOG	Server --------------------> DUT
0:39:47.271148	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 80478f52, CRC1: 1434, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385121664000
0:39:47.272134	LOG	#**#
0:39:47.273134	LOG	Next BEACON scheduled at GPS time (ms): 1385121792000
0:39:47.275133	LOG	GPS Time updated: 1385121530517
0:39:47.276133	LOG	PULL_DATA: 02 d47e 02 0016c001ff1025bf
0:39:47.278133	LOG	PULL_ACK: 02 d47e 04
0:39:47.279134	LOG	TX_ACK: 02 6947 05 0016c001ff1025bf
0:39:47.518751	LOG	First uplink received. Open reception window.
0:39:47.631252	LOG	PUSH_ACK: 02 159e 01
0:39:47.637341	LOG	GPS Time from gateway: 1385121530758
0:39:47.638340	LOG	PUSH_DATA: Protocol version = 02, Token = 159e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3099937141, 'time': '2023-11-27T11:58:31.758821Z', 'tmms': 1385121530758, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAXgoCwIHzo/uBYXK9zNk='}]}
0:39:47.639340	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a5e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 72bdccd9)
0:39:47.641345	LOG	Server <-------------------- DUT

0:39:47.643342	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 070c, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 0cf4a341)
0:39:47.644341	LOG	Frame command sent to the DUT
0:39:47.645340	LOG	PULL_RESP: Protocol version = 02, Token = 6be6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3101937141, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAADAfgZ8A6aXlVzPvuI2jHDnGybo/nirbWoWz2WYtMRwQop7AKgyP9nvaHg1+jPRYpeypvh/WzEq0f+PF4fvtZZY5jl5kiYsGvhlJLx+xbXzQrcDdrStiCQBPpwSMaQniLzKcVyPZj8smJ7X2EsCn28bAMGRSUnxRKhjuorkWMKj0M5vPellRfIB7g2rsqZeSoodKZz3zAxhRBZN+AqTaFjoXPeuff+0T8TCE/PEwTiqSqyMh9efm4Inu3UOw7lUQ5UiCwsF3Zl1frGVeJMF+N4TwZEplT+xo7RHDAdMQGVAv20873gWKwPBWccgusjEnL+qJczn8M9KNB'}}
0:39:47.647307	LOG	Server --------------------> DUT
0:39:47.650306	LOG	Send Test Command TxFramesCtrlReq process completed
0:39:47.653340	LOG	Send Test Command TxFramesCtrlReq process starts
0:39:52.520386	LOG	First uplink received. Open reception window.
0:39:52.631873	LOG	PUSH_ACK: 02 f8c6 01
0:39:52.633838	LOG	GPS Time from gateway: 1385121535758
0:39:52.634839	LOG	PUSH_DATA: Protocol version = 02, Token = f8c6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3104936911, 'time': '2023-11-27T11:58:36.758590Z', 'tmms': 1385121535758, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3381, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAXwoCE7hLA1iYTVfDzJM='}]}
0:39:52.636845	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a5f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 57c3cc93)
0:39:52.637872	LOG	Server <-------------------- DUT
0:39:52.639841	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 070d, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 4fb6b230)
0:39:52.641859	LOG	Frame command sent to the DUT
0:39:52.642875	LOG	PULL_RESP: Protocol version = 02, Token = 1321, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3106936911, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAADQfgviq++YP8EoGbkelLi5iBUUM8O6RtpNPiF/r31sWHyEhKyVtrO/JQkscBnb0S0fhlteAeAXVO0UAZVsBB+yREEIaXsfIZHczViMS1Sq/0x+rvJf5lo4cUr8o2/WTEpt8ur4YsTJRR1HLJbZBUi38CABpgEbJFyYQcUUTSQjdSuPCHDIbOFV1wHCozy33fZXE2InE29XSJI2xtB1BU4BQ0qwvqcPIY6g5wWsduadpcdURF/dTSJ1GgbpF6xfTnqixsmWdqGD+0ew08mojQTPdC2e6Vk4H0HvN6kCmgYkH7Ly5iO4ipa+EZ5qFiXir3GtsFzmxPtrIw'}}
0:39:52.643872	LOG	Server --------------------> DUT
0:39:52.646841	LOG	Send Test Command TxFramesCtrlReq process completed
0:39:52.650850	LOG	Send Test Command TxFramesCtrlReq process starts
0:39:57.262249	LOG	GPS Time updated: 1385121540500

0:39:57.263249	LOG	PULL_DATA: 02 7fe7 02 0016c001ff1025bf
0:39:57.265250	LOG	PULL_ACK: 02 7fe7 04
0:39:57.519939	LOG	First uplink received. Open reception window.
0:39:57.625123	LOG	PUSH_ACK: 02 6ddd 01
0:39:57.627123	LOG	GPS Time from gateway: 1385121540758
0:39:57.628090	LOG	PUSH_DATA: Protocol version = 02, Token = 6ddd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3109936693, 'time': '2023-11-27T11:58:41.758371Z', 'tmms': 1385121540758, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAYAoCN3zV0TGhLEI6yvY='}]}
0:39:57.630120	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a60, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 423acaf6)
0:39:57.631091	LOG	Server <-------------------- DUT
0:39:57.633125	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 070e, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: e1acc248)
0:39:57.635114	LOG	Frame command sent to the DUT
0:39:57.636124	LOG	PULL_RESP: Protocol version = 02, Token = dd08, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3111936693, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAADgfgGR/e7f85KV1yFr8XW66UznEsZefc/U1a/WF57wghQ1y+sk90j/0uFG/7uqy+kOcJUKclGTBQIQwP2r7/seQ1zGG8WimOWRd97JokcgkFGV9uA/GEth8MlNJNssmSkJ2fEBbm5AaoZeGiUGgcCeM/lGjN4YjrqVjF2BKq2u0GtlCW01rm3f3fgUR9oh74qjjMP7RPqmMcKjU2IO9orHqHev0xPmKpq8ocMdK3YpekYKrvnde4erLxqLoDuSSft0bjOhrv3Q4f+7rGn3cKncYzVjmuTLMF05PbPKq7BBHzB+3+NFcXzlr0vvVa/hS2xV03xkfhrMJI'}}
0:39:57.637125	LOG	Server --------------------> DUT
0:39:57.640092	LOG	Send Test Command TxFramesCtrlReq process completed
0:39:57.644092	LOG	Send Test Command TxFramesCtrlReq process starts
0:40:02.513269	LOG	First uplink received. Open reception window.
0:40:02.624335	LOG	PUSH_ACK: 02 ff97 01
0:40:02.626339	LOG	GPS Time from gateway: 1385121545757
0:40:02.627302	LOG	PUSH_DATA: Protocol version = 02, Token = ff97, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3114936429, 'time': '2023-11-27T11:58:46.758106Z', 'tmms': 1385121545757, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAYQoCpaYSSm5zPe+q0SQ='}]}
0:40:02.629302	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a61, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: efaad124)
0:40:02.630335	LOG	Server <-------------------- DUT
0:40:02.632301	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 070f, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: a25ca5ee)

0:40:02.634335	LOG	Frame command sent to the DUT
0:40:02.635335	LOG	PULL_RESP: Protocol version = 02, Token = b589, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3116936429, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAADwfgsSnbLqbyV97pexYKESb6E0phqMjtht5lAospCgvL636QUmdVJ+JrokimtNGPw7XOA3KY49GuYk+eg8escIfCrHPvRkWtqnaXv798KsdWZd9tFpldp6q0Y61G/q6LYXI+GFmu7TZEFbDjX56v94sj5ONg/iH6dtcXnmeOL0tBWJT8VjF9B/NRs025hxfitpYyiBn7rY84a2w/eTIwnKFwqsfPHbMdjRfP0+1GwKlR30fQ59zPb4L120c4mexVp+rJnBm8o+LOHvtxxA8Nm7D6dM/V9HxfGl9ULdg9xJqSgSROQ/buH4PwRQP2cTRuZ+tmCliiXKXu'}}
0:40:02.636335	LOG	Server --------------------> DUT
0:40:02.639303	LOG	Send Test Command TxFramesCtrlReq process completed
0:40:02.643319	LOG	Send Test Command TxFramesCtrlReq process starts
0:40:07.461619	LOG	GPS Time updated: 1385121550705
0:40:07.463585	LOG	PULL_DATA: 02 a11b 02 0016c001ff1025bf
0:40:07.464586	LOG	PULL_ACK: 02 a11b 04
0:40:07.520072	LOG	First uplink received. Open reception window.
0:40:07.628731	LOG	PUSH_ACK: 02 44c5 01
0:40:07.630748	LOG	GPS Time from gateway: 1385121550757
0:40:07.631748	LOG	PUSH_DATA: Protocol version = 02, Token = 44c5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3119936172, 'time': '2023-11-27T11:58:51.757848Z', 'tmms': 1385121550757, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAYgoC1GdenFOkHLHUQic='}]}
0:40:07.633750	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a62, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b1d44227)
0:40:07.634748	LOG	Server <-------------------- DUT
0:40:07.636749	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0710, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 61d22d88)
0:40:07.638749	LOG	Frame command sent to the DUT
0:40:07.639748	LOG	PULL_RESP: Protocol version = 02, Token = bdb0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3121936172, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAEAfgrO+uTN3GbrigzMal8s0t+SIe+kPgQXAeD+i71T/IMR6EClmzsExTXhjtWhiNV0FWp8FygjyO9tuSTqaIheCQSyeXuKSeizIwmO+unuXZhenlClsQvtopIe0teOF5KyDGJwf+el9rtpVss2q+XF/YIvL/RDk9pW8G4OrFMgPlZJZfGWivOE8i7YLgrSFllPJfVqX14NJmMDLLmZHZ3WCD7u6H9CkTToECCJ25M0qaeRMaeFwypy5s6+PPOrgvYMiVW0LabBuZ9z/ZWJ5ntn8sOkqX0TDPyZEuSdVpJIlpOC4+3yjGoM0+xRaafB+RuvT4K8Nh0i2I'}}
0:40:07.640748	LOG	Server --------------------> DUT
0:40:07.644752	LOG	Send Test Command TxFramesCtrlReq process completed
0:40:07.647782	LOG	Send Test Command TxFramesCtrlReq process starts
0:40:12.515279	LOG	First uplink received. Open reception window.
0:40:12.628228	LOG	PUSH_ACK: 02 0586 01
0:40:12.630228	LOG	GPS Time from gateway: 1385121555757
0:40:12.631230	LOG	PUSH_DATA: Protocol version = 02, Token = 0586, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3124935916, 'time': '2023-11-27T11:58:56.757591Z', 'tmms': 1385121555757, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAYwoCbuP3NSKmKrLClhE='}]}
0:40:12.633229	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a63, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b2c29611)
0:40:12.634229	LOG	Server <-------------------- DUT
0:40:12.636229	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0711, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 812d3eba)
0:40:12.638231	LOG	Frame command sent to the DUT
0:40:12.639229	LOG	PULL_RESP: Protocol version = 02, Token = 84a8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3126935916, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAEQfgcuvK1ya3370JTonTI9zhKEkQLhhBdDFvV8IISaJoa0r9vrdlV40mJdPyRPUwZkGxSliZH8CGKhdgI6jXrIFMNMZeYVLmoLp1iNCZEJikFTAuYSR+gkmF0Gix9uDz9dHUQVzUSmVuuDOfAKHgZTPOZ7vgm9INGrEzrdUGERbP5RBZ8E/8qdxkkVzc3rjtUpPqrQfBwmDoPQtXYw9ceo4LtN4R68qEwGZIq0JZj0PXR0mS8TvSaGENkTzgUNHxs59NSxx9Pnvol70PMC21Iz3LXyOh3RNebboe7jFOJk/phiOAHdvlVGV5SH176qrQgMFWkw2BLT66'}}
0:40:12.641229	LOG	Server --------------------> DUT
0:40:12.644232	LOG	Send Test Command TxFramesCtrlReq process completed
0:40:12.647229	LOG	Send Test Command TxFramesCtrlReq process starts
0:40:17.471708	LOG	GPS Time updated: 1385121560713
0:40:17.472707	LOG	PULL_DATA: 02 a698 02 0016c001ff1025bf
0:40:17.474710	LOG	PULL_ACK: 02 a698 04
0:40:17.514708	LOG	First uplink received. Open reception window.
0:40:17.618904	LOG	PUSH_ACK: 02 9080 01
0:40:17.620906	LOG	GPS Time from gateway: 1385121560757
0:40:17.621905	LOG	PUSH_DATA: Protocol version = 02, Token = 9080, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3129935648, 'time': '2023-11-27T11:59:01.757321Z', 'tmms': 1385121560757, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAZAoCXNIK0uPFSpWy/rU='}]}
0:40:17.623905	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a64, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 95b2feb5)
0:40:17.624905	LOG	Server <-------------------- DUT
0:40:17.626905	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0712, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 6ce237e6)
0:40:17.627905	LOG	Frame command sent to the DUT
0:40:17.629906	LOG	PULL_RESP: Protocol version = 02, Token = 38d8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3131935648, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAEgfgyL/jaw5ANPvwtBu9AylnXOIMfSwL89m0cgAV6WVD8z0Om

		0gJdd3YUkpJdTXJJaiZBaQ7jUc70OpLgjlK4vj3b2lppKT0xM2mFRG0mkgg9OVkx6vLwd01zUg8pV77ZkUbrpHhTrcJYCM1XKgEhozxkFA47Rmvbczzx9swhpCcsLoyzShTvbYznRpTjhtaUZWtbbCMVwcDXJWk5KJeXHdr5g2851dgZmenFxbr/n6whWNFHajK/yzPptFPa8Qqep6M6lYh9OKdt5XAArJ0AGuk3JFqBD9aBVu3U28CogdezyyL258g/xJFI+38RJbv9F1t3rhs4jfm'}}
0:40:17.630905	LOG	Server --------------------> DUT
0:40:17.633414	LOG	Send Test Command TxFramesCtrlReq process completed
0:40:17.636413	LOG	Send Test Command TxFramesCtrlReq process starts
0:40:22.511700	LOG	First uplink received. Open reception window.
0:40:22.616820	LOG	PUSH_ACK: 02 5975 01
0:40:22.618784	LOG	GPS Time from gateway: 1385121565756
0:40:22.619784	LOG	PUSH_DATA: Protocol version = 02, Token = 5975, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3134935418, 'time': '2023-11-27T11:59:06.757092Z', 'tmms': 1385121565756, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAZQoCJdcZWf9k+12ZtdM='}]}
0:40:22.621785	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a65, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5d99b5d3)
0:40:22.623791	LOG	Server <-------------------- DUT
0:40:22.625824	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0713, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 571ae1b1)
0:40:22.626821	LOG	Frame command sent to the DUT
0:40:22.628824	LOG	PULL_RESP: Protocol version = 02, Token = 785f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3136935418, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAEwfg/vLJXpeJDWW6zlL75KLBu8v3nbIK4dmDXBLsn0mB+uSHo1DrafOSa+yl2A1+PxlkH+EGjEG13PVEmbe0TjWrTiyocQKUbVtJXSkS+9emOIil9uX08IVbQAemW5LUHZbBAM155rgNBKvozLbRQTZVfrZy0v1d6tThhVaeYHypGAn+zUbQkZeuCFI3CVASVY6GaavIRpLlvsk6hnv/jwoQYmgW/lu9dOtxhR/Stv7RbAGnvtyN1q2wtI9Al4AB2n9bcLHkecbAQrTkn2EACTVFYGPZ0RxJLVNeVO7WDnjUxgMyqaDSy0jg3wLWG3a2kFub7StXGuGx'}}
0:40:22.629825	LOG	Server --------------------> DUT
0:40:22.632826	LOG	Send Test Command TxFramesCtrlReq process completed
0:40:22.635789	LOG	Send Test Command TxFramesCtrlReq process starts
0:40:27.510168	LOG	First uplink received. Open reception window.
0:40:27.622279	LOG	PUSH_ACK: 02 3fd8 01
0:40:27.624248	LOG	GPS Time from gateway: 1385121570756
0:40:27.625246	LOG	PUSH_DATA: Protocol version = 02, Token = 3fd8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3139935191, 'time': '2023-11-27T11:59:11.756864Z', 'tmms': 1385121570756, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAZgoCVTG2jxIsc3gIinI='}]}
0:40:27.627247	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a66, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 78088a72)
0:40:27.628246	LOG	Server <-------------------- DUT
0:40:27.630251	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0714, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101

		0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 39b89ed4)
0:40:27.632250	LOG	Frame command sent to the DUT
0:40:27.633251	LOG	PULL_RESP: Protocol version = 02, Token = beeb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3141935191, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAFAfg8ODThRzwHRGf5JI/uKCjlEbELsz7DlMVlpa4I/d3zKWLSXgEIcnuvxjApvmY7cTYVQIp/By7tfFCupf6567Ahc9zZ0wINRrPQZsTCZ4DGAowJ3Cooo1SnCE4lsiS/qyIA43qRt43ba5SUcDwZ51eL4ml2svXOfPhXCdXzCTOl6gaquNU4aj4SNpvcIEDIFba7g0cQnxci3pd/fuYSZcMxswbh5CmKBn1KEf1CiDgXbTf+uwiNDcYXu+10mnwfLb17ju6zRbbAzlvCVTcVqBK1bMw98lyzzJOsX2+iwLazqydnvdNF3WPjbdtIZHjL/Fezqo5uJ7U'}}
0:40:27.635252	LOG	Server --------------------> DUT
0:40:27.637258	LOG	Send Test Command TxFramesCtrlReq process completed
0:40:27.641286	LOG	Send Test Command TxFramesCtrlReq process starts
0:40:32.515096	LOG	First uplink received. Open reception window.
0:40:32.619487	LOG	PUSH_ACK: 02 5607 01
0:40:32.621453	LOG	GPS Time from gateway: 1385121575756
0:40:32.622455	LOG	PUSH_DATA: Protocol version = 02, Token = 5607, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3144934936, 'time': '2023-11-27T11:59:16.756608Z', 'tmms': 1385121575756, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAZwoC1YBoUAZcfwsf1io='}]}
0:40:32.624455	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a67, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0b1fd62a)
0:40:32.625487	LOG	Server <-------------------- DUT
0:40:32.627488	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0715, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: f9d2ae4e)
0:40:32.629486	LOG	Frame command sent to the DUT
0:40:32.630487	LOG	PULL_RESP: Protocol version = 02, Token = 1912, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3146934936, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAFQfgu+lOWEGDdKJYfcyypF95p3rBDY+voQxYOnxGPTa/NCHc1uj39O8D1V7SvvTLuv01tC/6SeGRm/qMmy3+irYVMo67U8kJOdedECyyAafEhf8j2MV+P8PCf/5hFLwV7ltzbcwU5/w6Y4yg0/GGiAW483iF7Y8oRI3CGq6fXgU/KZjPSBvM6VxhNujwHur7wJBDTA5JrHoVTlMzgmcOXUoiPV4qnqbjXhMZWZ91mV1p1hh8RSBC8NJUxE3bPuC/BezfFEm652awwUPt4HRRW9/avIRE4CCVHQM7ZqO9tQg4BcfNO0DHT0fBIzDpodx2OWViFx350q5O'}}
0:40:32.631487	LOG	Server --------------------> DUT
0:40:32.634494	LOG	Send Test Command TxFramesCtrlReq process completed
0:40:32.637526	LOG	Send Test Command TxFramesCtrlReq process starts
0:40:37.517260	LOG	First uplink received. Open reception window.
0:40:37.623778	LOG	PUSH_ACK: 02 b24f 01
0:40:37.625781	LOG	GPS Time from gateway: 1385121580756

0:40:37.626777	LOG	PUSH_DATA: Protocol version = 02, Token = b24f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3149934677, 'time': '2023-11-27T11:59:21.756348Z', 'tmms': 1385121580756, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAaAoCU8NVe322HGFp3wY='}]}
0:40:37.628747	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a68, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6169df06)
0:40:37.629781	LOG	Server <-------------------- DUT
0:40:37.631779	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0716, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 150d9671)
0:40:37.633786	LOG	Frame command sent to the DUT
0:40:37.634779	LOG	PULL_RESP: Protocol version = 02, Token = ad58, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3151934677, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAFgfglDymWcjQwhh/ZTolnS4DYgEVr6qnoSRcWoWMsBzCc3HNIs8pJZQAA5W+jiUdtF/NaKXRs35d6PYwTLObPPmNEfirZltjBKi7k99dqYU+58CCoTfLrzkuQg9QVHvG9S+liH9tjPuaTkF/6Wf0T/q0xiozevcD0rDMng3A6W1Vz0AReLQxs1tqPRYKwQTEn23DfQRrcQ3Qq3m1LX7T1pYK0QMtkqEJ37KOwG4Bymw0klnbW6Rcp5RUNtd1N821LU+/0lnd1voWj/Q+ejO+NxAPhaxDR7iZCRrTevm+WkdG/3aM4EcSRVEmjA9tFgheYSJKm9gVDZZx'}}
0:40:37.635778	LOG	Server --------------------> DUT
0:40:37.638803	LOG	Send Test Command TxFramesCtrlReq process completed
0:40:37.642295	LOG	Send Test Command TxFramesCtrlReq process starts
0:40:42.517123	LOG	First uplink received. Open reception window.
0:40:42.622967	LOG	PUSH_ACK: 02 a14c 01
0:40:42.624996	LOG	GPS Time from gateway: 1385121585755
0:40:42.625995	LOG	PUSH_DATA: Protocol version = 02, Token = a14c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3154934407, 'time': '2023-11-27T11:59:26.756077Z', 'tmms': 1385121585755, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAaQoCrwsVrX76kIjAhCo='}]}
0:40:42.628001	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a69, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 88c0842a)
0:40:42.629001	LOG	Server <-------------------- DUT
0:40:42.631001	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0717, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 271a751b)
0:40:42.633000	LOG	Frame command sent to the DUT
0:40:42.634003	LOG	PULL_RESP: Protocol version = 02, Token = 9c32, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3156934407, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAFwfgLhu9jGvW0K0nkrwNI7STMuM2WQTba6UIZtL0me/LMD8AAus7/o+5rooK9OZX/UmlFO9yPeSRA0fps8dQTr6CetmFmFc4Grg+VJU+t3HnaD/

		nU97u0IdhzXpp8ZcMn2Exwe13WNQFKP3vm7LfE6v0sWBOdcw8FyPCSx+q25x idJCT9Gp5D2iNGW7+6S/d/crjzrh7zUM6PXZFz/9GvHYBuWhxeQ7LpnqqqFq5m Vvm7v4o0fz0RiwdCz7uFbn+lMYUpVw66YbZgT4H24F8dhn93xV1WptsJYNXb pUIxo4OvLbRCH6bfm5UjI9S64rjgyIrPk4nGnUb'}}
0:40:42.635991	LOG	Server ----------> DUT
0:40:42.638970	LOG	Send Test Command TxFramesCtrlReq process completed
0:40:42.642002	LOG	Send Test Command TxFramesCtrlReq process starts
0:40:47.516485	LOG	First uplink received. Open reception window.
0:40:47.629644	LOG	PUSH_ACK: 02 bd0e 01
0:40:47.631645	LOG	GPS Time from gateway: 1385121590755
0:40:47.632612	LOG	PUSH_DATA: Protocol version = 02, Token = bd0e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3159934161, 'time': '2023-11-27T11:59:31.755830Z', 'tmms': 1385121590755, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAagoCO3bpT0WbXIS0FH4='}]}
0:40:47.634620	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a6a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 84b4147e)
0:40:47.635646	LOG	Server <---------- DUT
0:40:47.637613	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0718, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101), MIC: 0757d32a)
0:40:47.639645	LOG	Frame command sent to the DUT
0:40:47.640645	LOG	PULL_RESP: Protocol version = 02, Token = 4ccd, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3161934161, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAGAfgu/KwZqQpcKLr4f54pA4Alifhn4UYsiCJac84hmCKMsYp0ur4 zHnx1K/GIGPEquQSTPvNzDlJOFqLEBm7bs6sXGgvuKBQnr0ITx3N914L1Xj9b vX4RN27w5KnE1rYjCbABfph/jM02+s5aB9/8atXiZatUZhIt2y8lAXal4ffVdtiIB1K RaaRZmfCxyI/pYtsMXtcrcisD1uURWSY6LWpjPoNSJQOK/up2qyOk4oP1qgE6p yVrMl84rcKlCEZfd2nJ9ma2gp/oeENnZ8/fuFWxDRPE93CeRR6ktmAkIzHr7eTA rhbLsCRWekKjBS9PcY3lPkHV9Mq'}}
0:40:47.641646	LOG	Server ----------> DUT
0:40:47.644629	LOG	Send Test Command TxFramesCtrlReq process completed
0:40:47.648614	LOG	Send Test Command TxFramesCtrlReq process starts
0:40:52.509849	LOG	First uplink received. Open reception window.
0:40:52.614546	LOG	PUSH_ACK: 02 a5cb 01
0:40:52.616547	LOG	GPS Time from gateway: 1385121595755
0:40:52.617548	LOG	PUSH_DATA: Protocol version = 02, Token = a5cb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3164933896, 'time': '2023-11-27T11:59:36.755563Z', 'tmms': 1385121595755, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAawoCgMrfutvDpCrWSKM='}]}
0:40:52.619548	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a6b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2ad648a3)
0:40:52.620584	LOG	Server <---------- DUT
0:40:52.622547	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0719, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101

		1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: e8feb845)
0:40:52.624547	LOG	Frame command sent to the DUT
0:40:52.625549	LOG	PULL_RESP: Protocol version = 02, Token = c39b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3166933896, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAGQfgy1v0vPVlABX9KHQcE7PyAeqtz1++Y5+mMN3s/Byw43hB YLxtmuCTSHuf1fuUYQZvhnKnVMs+R8ONwPcF0nTiAE94nePPn0KcYFz85Rfx vxWis7QFFk2dJKF1qwyUvSWvCZAaSUc4QI1lGKMQSdqC020LGy01kij9nDqP pRGtV66JcNJeCq0JmsJ4YpBDp8p71PzE6JuwuHzc0TeOElXjInmy2PLa6jX0tRG TO3bIgjlkynA6hGBrGGCa1HfRarTm6iTrDtGaNxU4Tn00QJiaoYtq1nGoLtYYu2 x55qfyVQ78Xu6PhGFKFa+AuMAAxvU3oh/o/rhF'}}
0:40:52.627549	LOG	Server --------------------> DUT
0:40:52.630550	LOG	Send Test Command TxFramesCtrlReq process completed
0:40:52.633581	LOG	Send Test Command TxFramesCtrlReq process starts
0:40:57.519078	LOG	First uplink received. Open reception window.
0:40:57.633305	LOG	PUSH_ACK: 02 90dd 01
0:40:57.635272	LOG	GPS Time from gateway: 1385121600755
0:40:57.636271	LOG	PUSH_DATA: Protocol version = 02, Token = 90dd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3169933642, 'time': '2023-11-27T11:59:41.755310Z', 'tmms': 1385121600755, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAbAoCOgwu5nxvhLfYmZI='}]}
0:40:57.638286	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a6c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b7d89992)
0:40:57.639271	LOG	Server <-------------------- DUT
0:40:57.641272	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 071a, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: fe055e3c)
0:40:57.643272	LOG	Frame command sent to the DUT
0:40:57.644271	LOG	PULL_RESP: Protocol version = 02, Token = 7867, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3171933642, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAGgfgL//mulp3xnKfEsjhy9Baz/o5OfEaccxwkQit0lJZrXZ2KSE/vG/N OMTpcC0AmvC21CD9tXiiq8HKo+NQOjGdE8nELToNv9P1p0uYB39IxjVdMJY kKzvF5ImJcHewOeZ5vcrekVqgoDHcZnkgvtRj6CWPCYYt6JvDXw75fcJOmkhA X9lKxVx6RqMEyNSVODFEvKL6NupktYIsE0egfuj6F7u/rXfc/U1dP4DHR9X1k KRKppKQfyfu9BZEwMGgJjiMGzaofXP4b8DWewRcipRTOgClTsyFFpwxMztJl KTM/XZ2ifvpVOATm8NYdM+4zgXe1hn+BV48'}}
0:40:57.646272	LOG	Server --------------------> DUT
0:40:57.649273	LOG	Send Test Command TxFramesCtrlReq process completed
0:40:57.653272	LOG	Send Test Command TxFramesCtrlReq process starts
0:41:02.510647	LOG	First uplink received. Open reception window.
0:41:02.618817	LOG	PUSH_ACK: 02 7500 01
0:41:02.620853	LOG	GPS Time from gateway: 1385121605754
0:41:02.621851	LOG	PUSH_DATA: Protocol version = 02, Token = 7500, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3174933382, 'time': '2023-11-27T11:59:46.755049Z',

		'tmms': 1385121605754, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAbQoCIb1rT3dnYz3tvss='}]}
0:41:02.623845	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a6d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3dedbecb)
0:41:02.624853	LOG	Server <-------------------- DUT
0:41:02.626853	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 071b, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 2210744c)
0:41:02.628865	LOG	Frame command sent to the DUT
0:41:02.629854	LOG	PULL_RESP: Protocol version = 02, Token = ffbe, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3176933382, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAGwfgW3TLZYGXyYOdrrcGzwvTpZsGVFgg2E/ASUe4YjMIEuzNpF3H5FhBYvDMA7VBg7VRi4glcEy1W+JZUiSebOepcd+kLuXkrCZ7Kyhvrunc7OwIBgsZ7KM83rs46jXrMITWD+apJi4EIsMU9MgJ/olVa/GM47deSv8u98sTCaF1ajLWEDDpCaA6e84idbW2/U3OetZjY1U/pzyCBru5xtcsJE1nYmbYQknVEO3uSBOhMlUUjwlCNp4Zw5Ugj3RP4Uf/qxdWWZZF/DSV7xpcT9sBz1TeAxF2OCYRgtvqm4iLRFGqLNEEBMcsTitfcCY5rU9QAGwiEHRM'}}
0:41:02.631852	LOG	Server --------------------> DUT
0:41:02.634820	LOG	Send Test Command TxFramesCtrlReq process completed
0:41:02.637854	LOG	Send Test Command TxFramesCtrlReq process starts
0:41:02.641820	LOG	TX_ACK: 02 ffbe 05 0016c001ff1025bf
0:41:07.516534	LOG	First uplink received. Open reception window.
0:41:07.626067	LOG	PUSH_ACK: 02 b7ce 01
0:41:07.628061	LOG	GPS Time from gateway: 1385121610754
0:41:07.629034	LOG	PUSH_DATA: Protocol version = 02, Token = b7ce, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3179933117, 'time': '2023-11-27T11:59:51.754783Z', 'tmms': 1385121610754, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAbgoCzVe1zMe+2Wd+3UU='}]}
0:41:07.631034	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a6e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 677edd45)
0:41:07.632034	LOG	Server <-------------------- DUT
0:41:07.634038	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 071c, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 150e4256)
0:41:07.636033	LOG	Frame command sent to the DUT
0:41:07.637033	LOG	PULL_RESP: Protocol version = 02, Token = 2f4b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3181933117, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAHAfgFeZ+sJPRjdY5qaVh+TVNlMy56HmjQImjOwfewXqu6jFsRG3vE4VKFl1M8XWyMP82mf0FsbIBnrWd5xUGu35ANWpFtbRMyMu+wQ49zCd/VjcZPHSxnDS5mnzCtOJU5tgGZlRJxpzuPry0XRGdXejwc7goJ/q7X4XPkk1vi9Yz

		roAi0XjEIAllGcppGkPcuXgBcbIf+7z4ZeEXolI4SutCUDUOUuWwjHgbq4f1s+0tl/L+oi+IluxwgSyth0nOlLZMEAQ/3xifUw1nFwXi6ff+i1HV06JHfd7TGGRfzzPdeL3HJYviO0CBI8RFJrAcQIlQ+SQVDkJW'}}
0:41:07.638034	LOG	Server --------------------> DUT
0:41:07.641032	LOG	Send Test Command TxFramesCtrlReq process completed
0:41:07.645033	LOG	Send Test Command TxFramesCtrlReq process starts
0:41:07.851313	LOG	GPS Time updated: 1385121611090
0:41:07.852301	LOG	PULL_DATA: 02 759e 02 0016c001ff1025bf
0:41:07.854269	LOG	PULL_ACK: 02 759e 04
0:41:12.508467	LOG	First uplink received. Open reception window.
0:41:12.621922	LOG	PUSH_ACK: 02 07b5 01
0:41:12.623890	LOG	GPS Time from gateway: 1385121615754
0:41:12.624890	LOG	PUSH_DATA: Protocol version = 02, Token = 07b5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3184932861, 'time': '2023-11-27T11:59:56.754526Z', 'tmms': 1385121615754, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAbwoCC8m1E+7EuqSqsmU='}]}
0:41:12.626890	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a6f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a4aab265)
0:41:12.627889	LOG	Server <-------------------- DUT
0:41:12.629890	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 071d, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 24a000a5)
0:41:12.631890	LOG	Frame command sent to the DUT
0:41:12.632889	LOG	PULL_RESP: Protocol version = 02, Token = f184, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3186932861, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAHQfgB8np/YlH7/A+8qLgwSMXmibbvrPVkhoBnwYByyC9Ge2JfEghLyAbs2UL4EGQOKoBJ3mnkMHZQz+puysYU54idxkHgG60hbCsQ3kyxjWTThVF8IrVvg1eCOVu0Kd+Oj26bbOqPGB7DBwDOi9uA6xhxB7Rq6xHOvMr+OcSxTBYBRnKwN7Sx9JEhUlunc6Sr1yKMcdU6XNv096KrC/nAPTTC+7T/2xy8U+zMyRJAVXamDT/2szgeVNA3iXeHbEptcQQUW0XY7Zd/85yxHxDlDQ7m0JIX6i8ft/BZwLNhh/uR1BH1nSc/EYzWYzKAnN9RuMfmk8koACl'}}
0:41:12.633889	LOG	Server --------------------> DUT
0:41:12.636890	LOG	Send Test Command TxFramesCtrlReq process completed
0:41:12.640924	LOG	Send Test Command TxFramesCtrlReq process starts
0:41:17.510120	LOG	First uplink received. Open reception window.
0:41:17.625153	LOG	PUSH_ACK: 02 76f9 01
0:41:17.627156	LOG	GPS Time from gateway: 1385121620754
0:41:17.628154	LOG	PUSH_DATA: Protocol version = 02, Token = 76f9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3189932601, 'time': '2023-11-27T12:00:01.754265Z', 'tmms': 1385121620754, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAcAoCig38//FYzbYNn0I='}]}
0:41:17.630137	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a70, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b60d9f42)
0:41:17.631122	LOG	Server <-------------------- DUT
0:41:17.633154	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 071e, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010

		10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: d0860a77)
0:41:17.635155	LOG	Frame command sent to the DUT
0:41:17.636153	LOG	PULL_RESP: Protocol version = 02, Token = 8a2f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3191932601, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAHgfgytRJNG7vHQMBgjgE7Met+Mk+rsymrqXmlaDBUOphvw+eC/Py7Sqw+vcgt/tL+Ztqqx+Od7wnTp3qWJWj9ACBgW/RkkazQ1x20eXhYPbeJdervX50ENF95U9F7Lj0N9Y1WYtJ/9oFbCwfGJEwCQmGxAL8ipWTyPdR+beYfn0/8FZjsY8J3GNlEtsgqJcpqKtTx3k2d7JPM+xDOgmh9zd8KqDdP/zi08MJJYuzGdJDmGnh34TKvCGG2wXoluRdjfjAUZdX1BdbVguOHWvh8VyRbovAZiYgvHNjScMnrM03nKexgj3EGdypPfbOL3kRXq7Un6TQhgp3'}}
0:41:17.637153	LOG	Server ----------> DUT
0:41:17.640155	LOG	Send Test Command TxFramesCtrlReq process completed
0:41:17.644121	LOG	Send Test Command TxFramesCtrlReq process starts
0:41:17.650156	LOG	TX_ACK: 02 8a2f 05 0016c001ff1025bf
0:41:18.051736	LOG	GPS Time updated: 1385121621295
0:41:18.052781	LOG	PULL_DATA: 02 c9cc 02 0016c001ff1025bf
0:41:18.054746	LOG	PULL_ACK: 02 c9cc 04
0:41:22.513399	LOG	First uplink received. Open reception window.
0:41:22.629134	LOG	PUSH_ACK: 02 007b 01
0:41:22.631102	LOG	GPS Time from gateway: 1385121625753
0:41:22.632102	LOG	PUSH_DATA: Protocol version = 02, Token = 007b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3194932344, 'time': '2023-11-27T12:00:06.754007Z', 'tmms': 1385121625753, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAcQoCIECe+cIJQhIa0QY='}]}
0:41:22.634103	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a71, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 121ad106)
0:41:22.635102	LOG	Server <---------- DUT
0:41:22.637102	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 071f, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: a785c75f)
0:41:22.639102	LOG	Frame command sent to the DUT
0:41:22.640102	LOG	PULL_RESP: Protocol version = 02, Token = 77f8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3196932344, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAHwfgJs6SULhIU5zPhRwGdjiFccHDn3VKqRkbmPiVAbd1JZX0EKxUmiQnRobB7xSr0ucABuSr3cGn6z+hC2l84YhYrF7Ybq9iHj8C9tEyI9ZEpwapoMZQhkd51azqncifTZl5cN5fnZE57Pt0EbhE0lMXQJ0b1bMmtCWoMHDAKrYScpdC8n3TwYaTF3YohnZiQp7lKpCow17Yb1dMO8CyamgOcBR4JtjZs0KETlwYnjzD2/kZpob0tAfEvVBdp8UNLQm2WQyxMN0JgeccNbAAwg9fSHhqWtP6vkWPDvQWiQf4RehZ146oOP/H9yF0BhXwMTpDkkWnhcdf'}}
0:41:22.642102	LOG	Server ----------> DUT
0:41:22.645119	LOG	Send Test Command TxFramesCtrlReq process completed

0:41:22.648134	LOG	Send Test Command TxFramesCtrlReq process starts
0:41:27.515571	LOG	First uplink received. Open reception window.
0:41:27.616395	LOG	PUSH_ACK: 02 51bc 01
0:41:27.618394	LOG	GPS Time from gateway: 1385121630753
0:41:27.619391	LOG	PUSH_DATA: Protocol version = 02, Token = 51bc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3199932081, 'time': '2023-11-27T12:00:11.753742Z', 'tmms': 1385121630753, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAcgoC3ctfRHZSOrHDerc='}]}
0:41:27.621394	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a72, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b1c37ab7)
0:41:27.622404	LOG	Server <-------------------- DUT
0:41:27.624363	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0720, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 9359ecb1)
0:41:27.626363	LOG	Frame command sent to the DUT
0:41:27.627395	LOG	PULL_RESP: Protocol version = 02, Token = 31d9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3201932081, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAIAfgcHPeOgW2zlLpLctBoHgGkag7JV8n/eEtJCzCdaS0Qv79AncZkHLRzmABx/G2/ftScbIcn3FlwtwdAkvCob38zsXjWiBuSsNQ+FK/ylXx30y7LNn526GfkM6oh0VMMqByEQEvICtlk6pn+eh8pi6f50VR1MVf/5bTUKy2WGwMUAXq8QcZ0ote0otWBykErw6JQew0UlxMyFeruqA2+aasxMzz5jToA28yZtomyETzRPTfUI80OlVtc72SCROGccQ0PKpz/RG0L1+0757JuO9qZ3QTPyz3Dd5SS3Mdn/P/D3rKB6tJdyLhP0sCAE8JBBsib5KTWeyx'}}
0:41:27.629361	LOG	Server --------------------> DUT
0:41:27.632408	LOG	Send Test Command TxFramesCtrlReq process completed
0:41:27.635363	LOG	Send Test Command TxFramesCtrlReq process starts
0:41:28.261687	LOG	GPS Time updated: 1385121631499
0:41:28.262687	LOG	PULL_DATA: 02 190f 02 0016c001ff1025bf
0:41:28.264656	LOG	PULL_ACK: 02 190f 04
0:41:32.516334	LOG	First uplink received. Open reception window.
0:41:32.628056	LOG	PUSH_ACK: 02 cb43 01
0:41:32.630049	LOG	GPS Time from gateway: 1385121635753
0:41:32.631050	LOG	PUSH_DATA: Protocol version = 02, Token = cb43, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3204931816, 'time': '2023-11-27T12:00:16.753478Z', 'tmms': 1385121635753, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAcwoCwJDGzNkkBIPvZk4='}]}
0:41:32.633054	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a73, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 83ef664e)
0:41:32.634054	LOG	Server <-------------------- DUT
0:41:32.636058	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0721, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101

		0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 91b6ac3e)
0:41:32.638064	LOG	Frame command sent to the DUT
0:41:32.639049	LOG	PULL_RESP: Protocol version = 02, Token = 5e5a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3206931816, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAIQfgiVmtzKR8RuuymSSXRh8NbpzHHkUqMjzih2S+PcmyJ7bdIBkwCwYDcLpRWEiLS++xKi2gY7k38RgsA9rVsYHzishx7Y/arQiB79+ZUORsuq6/V6UeqPUZkB+s72GYY9bYsblp16rhWC40wkJpkIF8HRC0JHg57VnQpBmbLOaCVVTuj0S7DvzPuw8PdLZ7oqEEym6Xb4MyU0+m5vs4l/1gUjsn2iN3KeGFrnZY5SNNkJkAEOY6OiDx+jmgJj85W8iOl57Y38NE+uISx1jJxFThEYy4kyb/VkHHsbY6IXzq23Z8tUFGjMv/PEVS3U0FwPAY5X+Rtqw+'}}
0:41:32.640054	LOG	Server --------------------> DUT
0:41:32.643058	LOG	Send Test Command TxFramesCtrlReq process completed
0:41:32.647028	LOG	Send Test Command TxFramesCtrlReq process starts
0:41:37.507304	LOG	First uplink received. Open reception window.
0:41:37.613498	LOG	PUSH_ACK: 02 cb70 01
0:41:37.615463	LOG	GPS Time from gateway: 1385121640753
0:41:37.616464	LOG	PUSH_DATA: Protocol version = 02, Token = cb70, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3209931590, 'time': '2023-11-27T12:00:21.753251Z', 'tmms': 1385121640753, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAdAoC8boIrvd2d0wnUco='}]}
0:41:37.618465	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a74, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4c2751ca)
0:41:37.619491	LOG	Server <-------------------- DUT
0:41:37.621479	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0722, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 861f3922)
0:41:37.623498	LOG	Frame command sent to the DUT
0:41:37.625466	LOG	PULL_RESP: Protocol version = 02, Token = 4e48, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3211931590, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAIgfgPbGYKc2pVS5JguetCCMDPpUZJByShf8f5MhG2B7XZENr28NP5UJwAJ+XoU1uaofOWfhWMUSwNZKn74B/lGcODjRKAYkAb0CQnbpOXSW6mFIHIBKzadfgdZhHVOUdNv1gEwlTC34zPwmUo/qqkKUzKmVxykFKyvv6IGBzHe5CO+WKbxhjvP8JQ86aKDDKY8xRm6xVoD4uyZ4nPB9afPq5kS3g0UeIsTrMK6exn0YCBnWKvNIaD8Getk+Tv4/XOX2uts+IxhXrkvuqIjnS9CnCKnZ/nVMhtUGPqXafNalRy126KkDl0WlGMErhCTGZZ3zCQ1KOGHzki'}}
0:41:37.626464	LOG	Server --------------------> DUT
0:41:37.629463	LOG	Send Test Command TxFramesCtrlReq process completed
0:41:37.633466	LOG	Send Test Command TxFramesCtrlReq process starts
0:41:38.460806	LOG	GPS Time updated: 1385121641706
0:41:38.461787	LOG	PULL_DATA: 02 0ea3 02 0016c001ff1025bf
0:41:38.463786	LOG	PULL_ACK: 02 0ea3 04
0:41:42.507794	LOG	First uplink received. Open reception window.
0:41:42.612409	LOG	PUSH_ACK: 02 5a9e 01
0:41:42.614377	LOG	GPS Time from gateway: 1385121645752
0:41:42.615377	LOG	PUSH_DATA: Protocol version = 02, Token = 5a9e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3214931368, 'time': '2023-11-27T12:00:26.753028Z',

		'tmms': 1385121645752, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAdQoCTVKt22vF0LLhjzY='}]}
0:41:42.616882	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a75, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b2e18f36)
0:41:42.618887	LOG	Server <-------------------- DUT
0:41:42.620887	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0723, FOpts:), FPort: e0, FRMPayload: 070001), MIC: bc1d850a)
0:41:42.621887	LOG	Frame command sent to the DUT
0:41:42.623887	LOG	PULL_RESP: Protocol version = 02, Token = 8d29, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3216931368, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAIwfgunzc3rdFUdvL+V00T2Q20DmYoQnomoDrGQU0aq7oCzOJJ3ZqLuq+tDXwiZ4rTQ4WldwC7C+nkKDCF2WoHIyPe9wp1N1qhPHMcsorpcknexVjM6Yr/51Jy+b/R+P77rA+tOA2+mMqQBgQEYa5VWp1VQ8b1UO5ODG6T35Yjsv3+uM2f/pJiX/Pz+jbTUcSqLxdev7rcg2hKsfq/UlPi/jXzn/RflXL3OSaBz934YR82CjcQiYYWUCz+H/+0DVdXCqBAri5VpbpShlXK3RaBn+buoRdZn2PXMvzqLyegnUEpncldBHWgMYurPEtEFaPG+6pJKu8HYUK'}}
0:41:42.624886	LOG	Server --------------------> DUT
0:41:42.627890	LOG	Send Test Command TxFramesCtrlReq process completed
0:41:42.631887	LOG	Send Test Command TxFramesCtrlReq process starts
0:41:47.514389	LOG	First uplink received. Open reception window.
0:41:47.630114	LOG	PUSH_ACK: 02 80ca 01
0:41:47.632081	LOG	GPS Time from gateway: 1385121650752
0:41:47.633081	LOG	PUSH_DATA: Protocol version = 02, Token = 80ca, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3219931108, 'time': '2023-11-27T12:00:31.752767Z', 'tmms': 1385121650752, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAdgoCUUs1SWS41Qo04C4='}]}
0:41:47.635082	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a76, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0a34e02e)
0:41:47.636081	LOG	Server <-------------------- DUT
0:41:47.639082	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0724, FOpts:), FPort: e0, FRMPayload: 070001), MIC: fc6f3319)
0:41:47.640081	LOG	Frame command sent to the DUT
0:41:47.642084	LOG	PULL_RESP: Protocol version = 02, Token = d165, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3221931108, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAJAfg1zahTdsAcOCCHbf3PqAqrGg52lix04vrQN9yLHcLYhdM4q8adecFdA7qG34vjRSOEzlIvuJMWaJvRWyZcXBHR57OcBsvF9As8bqVNV5d9PPYT2ga0oPMXmdlR6kGhqTAfxNQDSwE0X7hPFP6JxnvpNGmLjbhNaEqGB25tPgmtsI17wjT3Ngpc0kq00vNI1m4e50OzE4iLr+BmrUzM4y00tFIMmcQjv0SKiVsxup

		muwLWUnZJgE7i4yvSGr+Nc+SuModgRR3riFzWOx0qge54DLV83+SOjMJA2H1+czBJUgrqHrgqnIoH/Bjny89ZobpxOw78bzMZ'}}
0:41:47.643081	LOG	Server --------------------> DUT
0:41:47.646082	LOG	Send Test Command TxFramesCtrlReq process completed
0:41:47.650082	LOG	Send Test Command TxFramesCtrlReq process starts
0:41:48.481209	LOG	GPS Time updated: 1385121651719
0:41:48.482208	LOG	PULL_DATA: 02 d4f5 02 0016c001ff1025bf
0:41:48.484209	LOG	PULL_ACK: 02 d4f5 04
0:41:52.506548	LOG	#****************************CURRENT BEACON SENT***************************#
0:41:52.508534	LOG	PULL_RESP: Protocol version = 02, Token = aa43, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385121664000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAR49SFDQAAAAAAAAAAAA='}}
0:41:52.509535	LOG	Server --------------------> DUT
0:41:52.511535	LOG	#**#
0:41:52.520537	LOG	#****************************NEXT BEACON QUEUED***************************#
0:41:52.522539	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385121792000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAASI9SHcUAAAAAAAAAAAA='}}
0:41:52.523539	LOG	Server --------------------> DUT
0:41:52.524541	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 00488f52, CRC1: 1dc5, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385121792000
0:41:52.527117	LOG	#**#
0:41:52.528154	LOG	Next BEACON scheduled at GPS time (ms): 1385121920000
0:41:52.529154	LOG	First uplink received. Open reception window.
0:41:52.531121	LOG	TX_ACK: 02 aa43 05 0016c001ff1025bf
0:41:52.631052	LOG	PUSH_ACK: 02 ca8b 01
0:41:52.633068	LOG	GPS Time from gateway: 1385121655752
0:41:52.634068	LOG	PUSH_DATA: Protocol version = 02, Token = ca8b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3224930846, 'time': '2023-11-27T12:00:36.752504Z', 'tmms': 1385121655752, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAdwoCkomgU6vlH6hzxB8='}]}
0:41:52.636069	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a77, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a873c41f)
0:41:52.637068	LOG	Server <-------------------- DUT
0:41:52.639067	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0725, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 08b2e25a)
0:41:52.641068	LOG	Frame command sent to the DUT
0:41:52.642071	LOG	PULL_RESP: Protocol version = 02, Token = 973e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3226930846, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAJQfgQZsII4cJrdfqf9FSoIsLYNBlN9SGm540q/kca9FhpGlMih2vpQ

		B0ww80/8YNDgZM0dy2tNWziJ729qjQKu9Ukeio/4ZVy+DRjMy1bHd40xpctLW LEZ0oxw80oPEDzi9g0Kn7YNEOoTQD38yHFs4sVL7f0AQGFao8yEteF7KHbgH p3csoD/ln3dF64csiI5GPeErYfwRiMyEA0yHLqBOtwdTfiKrGA7KtpCbwUojT2x wI7ZSZTfDW/2AAcP2/9HAKwDtZOEAqfJt6vb5fc0pcQKE3nhyaVzNVT6tz/TD TeBcIotRY56N6L1ljbRCCW6Dn0bsIsuJa'}}
0:41:52.643069	LOG	Server ----------> DUT
0:41:52.646071	LOG	Send Test Command TxFramesCtrlReq process completed
0:41:52.650070	LOG	Send Test Command TxFramesCtrlReq process starts
0:41:57.508921	LOG	First uplink received. Open reception window.
0:41:57.610927	LOG	PUSH_ACK: 02 29cb 01
0:41:57.612894	LOG	GPS Time from gateway: 1385121660752
0:41:57.613906	LOG	PUSH_DATA: Protocol version = 02, Token = 29cb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3229930585, 'time': '2023-11-27T12:00:41.752242Z', 'tmms': 1385121660752, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAeAoCmh2WxoFHgWmAQkI='}]}
0:41:57.615893	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a78, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 69804242)
0:41:57.616894	LOG	Server <---------- DUT
0:41:57.618900	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0726, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101 10101010101010101010101010101010101010101010101010101010101010101010 01010101010101010101010101010101010101010101010101010101010101010101 10101010101010101010101010101010101010101010101010101010101010101010 01010101010101010101010101010101010101010101010101010101010101010101 10101010101010101010101010101010101010101010101010101010101010101010 01010101010101010101010101010101010101010101010101010101010101010101 101010101010101), MIC: 155a5c0d)
0:41:57.620899	LOG	Frame command sent to the DUT
0:41:57.621899	LOG	PULL_RESP: Protocol version = 02, Token = 3a0f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3231930585, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAJgfgkrkUS+lDR0hct7miSw8AA9M5uR+TjkkCkR5LbRlvjgBRyQV 3Ly1Jq8PqTqRJPty9C6/kN4wwWx6ti9qrsgTHYQjNTwT48Vrh4cFbEMFISYPiO LTilvFGGHbkeajD9oOIyzabTT6RDJlyH+EiwPL5m4BUNPY1vd9pX1B1njEO//y 5MjV5dj8EKeHetkpnE9ZLnYmYh4vR0RPLirSLbJ4LzA+2nK1DDW88p/laeYVT XjaWOaaw/yvndWzjM2t8aE6mxdeg5pzP46VRsB6qXgEGIako15tuwwOZRu+fu WfUAr0Pvyn/pPsZ8wbg5k3gAuuTGmoVWlwN'}}
0:41:57.622899	LOG	Server ----------> DUT
0:41:57.625899	LOG	Send Test Command TxFramesCtrlReq process completed
0:41:57.629899	LOG	Send Test Command TxFramesCtrlReq process starts
0:41:58.670907	LOG	GPS Time updated: 1385121661914
0:41:58.672875	LOG	PULL_DATA: 02 f59f 02 0016c001ff1025bf
0:41:58.673876	LOG	PULL_ACK: 02 f59f 04
0:42:02.506013	LOG	First uplink received. Open reception window.
0:42:02.609768	LOG	PUSH_ACK: 02 c4be 01
0:42:02.611737	LOG	GPS Time from gateway: 1385121665751
0:42:02.612736	LOG	PUSH_DATA: Protocol version = 02, Token = c4be, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3234930332, 'time': '2023-11-27T12:00:46.751988Z', 'tmms': 1385121665751, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAeQoCQZghWPvqfY+eV/A='}]}
0:42:02.614737	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a79, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8f9e57f0)
0:42:02.615735	LOG	Server <---------- DUT

0:42:02.617736	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0727, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 1183aca8)
0:42:02.619737	LOG	Frame command sent to the DUT
0:42:02.621738	LOG	PULL_RESP: Protocol version = 02, Token = 779b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3236930332, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAJwfgVfvbPNMuSxszCDeRa/aPFdRECcOqBSAX4DRoWp7ALvKMvEJWKBl3BJjX3a2tflZqENsxwbUvoFh8qi0Xts7rpUCeonBcb5y1nIrOObuZ0OstLVQEzxcXwnA2cksniX2wL+Y1r6HLpx3v9G7zhhgBdBHqWGIZw/QyO9+DK392EVy4rOSfvkOrHz+o227BoMtqVxae3Gstahcv2gGEfCNrOpUKu66o63KKpUj66149Lz8Dlx6z5OUw42d7G4hoEZK4hzOwnIPBc+RZ2IaE4FBi25B7Dz6Y8G3qpObTMnpLXFiW/bODYN1O5miOl31PrMvOKi8Rg6yo'}}
0:42:02.622736	LOG	Server -------------------> DUT
0:42:02.625746	LOG	Send Test Command TxFramesCtrlReq process completed
0:42:02.629742	LOG	Send Test Command TxFramesCtrlReq process starts
0:42:07.508519	LOG	First uplink received. Open reception window.
0:42:07.611896	LOG	PUSH_ACK: 02 6cc4 01
0:42:07.613869	LOG	GPS Time from gateway: 1385121670751
0:42:07.614871	LOG	PUSH_DATA: Protocol version = 02, Token = 6cc4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3239930062, 'time': '2023-11-27T12:00:51.751716Z', 'tmms': 1385121670751, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAegoCYA3uMawO3uJmtwM='}]}
0:42:07.616871	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a7a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e266b703)
0:42:07.617869	LOG	Server <------------------- DUT
0:42:07.619869	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0728, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 1b1f6858)
0:42:07.621902	LOG	Frame command sent to the DUT
0:42:07.622901	LOG	PULL_RESP: Protocol version = 02, Token = 3b1b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3241930062, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAKAfguvjTyPayEK+zz0lMPt+jI6PfisFLa5XdKziI/5/GUHUmuvP3Oul/RHmqGhmucIY2Gpgb0qNml7rfSwtzlL9QRrwXyLUD8PFeJ4pue4Zsg7HwEXLjUmNtrI/5OjgZUukSi1EqKVID9s+gcXq+HD+DbDFVreoJiWcjOseMQK768XbdT97bAyeRAHBvJHxBd6W6mOit33NtnY0OWg4wKe9flWO9wotKBd3Qqto2he+1IKZDYDr/33Cj1MFKD0oT/dSx3Sj1AEi/tGP1tO3l2TKa5gYpqKJG+N4ZTaZdenJOWblF4AMY6tHyOUb1RX2hOZQq+gcbH2hY'}}
0:42:07.623902	LOG	Server -------------------> DUT
0:42:07.626876	LOG	Send Test Command TxFramesCtrlReq process completed
0:42:07.630886	LOG	Send Test Command TxFramesCtrlReq process starts
0:42:08.680533	LOG	GPS Time updated: 1385121671923

0:42:08.681494	LOG	PULL_DATA: 02 3987 02 0016c001ff1025bf
0:42:08.683495	LOG	PULL_ACK: 02 3987 04
0:42:12.513393	LOG	First uplink received. Open reception window.
0:42:12.624991	LOG	PUSH_ACK: 02 918a 01
0:42:12.626955	LOG	GPS Time from gateway: 1385121675751
0:42:12.627956	LOG	PUSH_DATA: Protocol version = 02, Token = 918a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3244929838, 'time': '2023-11-27T12:00:56.751493Z', 'tmms': 1385121675751, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAewoCuKRY1M88pGxz8rA='}]}
0:42:12.629955	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a7b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6c73f2b0)
0:42:12.630955	LOG	Server <-------------------- DUT
0:42:12.632994	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0729, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 378e43ee)
0:42:12.634960	LOG	Frame command sent to the DUT
0:42:12.635999	LOG	PULL_RESP: Protocol version = 02, Token = 5184, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3246929838, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAKQfgBIlEBqeoAsQdcQqJr/enfG7+/7Zwkxj1c/AkqL49D5b7x6McxagKWckNt7BBgacmCI2h1g/P5Z0OU7nFxsi1Pw8CNojk+Y86ottpAotYrXt9jcJASzaAOy+hriQF66znK1TEo+Pw4nD3RfxZy/1wBMjIS2YYGZo4fuYP1v1cINxdPtB9kw9ZGP5ouHYlglG+xhiPGqkz2GY6cp2bECOoqEOQuGNjTlsSuWbfVW50w9KcLivAjq3yfMo0FpurxXKOPlcCGWGCTiMPGoXPQU7gEYL7rS/kR4xEYanovQIyTMhe4xS/Zxl0UFRooQm4D7PdUL83jkPu'}}
0:42:12.637959	LOG	Server --------------------> DUT
0:42:12.640995	LOG	Send Test Command TxFramesCtrlReq process completed
0:42:12.644962	LOG	Send Test Command TxFramesCtrlReq process starts
0:42:17.507396	LOG	First uplink received. Open reception window.
0:42:17.613905	LOG	PUSH_ACK: 02 44aa 01
0:42:17.615870	LOG	GPS Time from gateway: 1385121680751
0:42:17.616870	LOG	PUSH_DATA: Protocol version = 02, Token = 44aa, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3249929578, 'time': '2023-11-27T12:01:01.751232Z', 'tmms': 1385121680751, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAfAoCbK2pJiJZT04qFgw='}]}
0:42:17.618908	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a7c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4e2a160c)
0:42:17.619903	LOG	Server <-------------------- DUT
0:42:17.621907	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 072a, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: da71b9be)

0:42:17.623871	LOG	Frame command sent to the DUT
0:42:17.624918	LOG	PULL_RESP: Protocol version = 02, Token = d90d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3251929578, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAKgfgLDalnDZMEcrvcMKphxzOqxKteUV+iIcIF0EaLFypN2uV58S1DAfQ3HIwtWrtqRGGaXyuVZCKjf5Z1bG3NW3KASHKZMYHs/abCR/Qy8au4bdsigm1pqVx3YJ2Iwd2Jr27cZruymauaxpYC4UgL0ohjj2On/El36uScY2by/QHBE2GALFZ5z4KYUF+kXwmYpxWK4jgjB/eAtOv3EoU4CAcyh3YEJYtngC/6Vo3beH8z5idfvDHT9j3ux/cF9dB5piAKYW6AyacaB1DZlf9YQA9q0MwoIpgu1rYYa8ha58SBGxRIjhDLDHDesS+bD5xJBer8ZHacbm+'}}
0:42:17.626902	LOG	Server --------------------> DUT
0:42:17.629872	LOG	Send Test Command TxFramesCtrlReq process completed
0:42:17.632904	LOG	Send Test Command TxFramesCtrlReq process starts
0:42:18.880422	LOG	GPS Time updated: 1385121682125
0:42:18.882421	LOG	PULL_DATA: 02 990f 02 0016c001ff1025bf
0:42:18.884422	LOG	PULL_ACK: 02 990f 04
0:42:22.513074	LOG	First uplink received. Open reception window.
0:42:22.625685	LOG	PUSH_ACK: 02 ed65 01
0:42:22.627652	LOG	GPS Time from gateway: 1385121685750
0:42:22.628685	LOG	PUSH_DATA: Protocol version = 02, Token = ed65, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3254929345, 'time': '2023-11-27T12:01:06.750998Z', 'tmms': 1385121685750, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAfQoCaDnjF8l9dkt/1dI='}]}
0:42:22.630651	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a7d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4b7fd5d2)
0:42:22.631684	LOG	Server <-------------------- DUT
0:42:22.633674	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 072b, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 3496bd73)
0:42:22.634673	LOG	Frame command sent to the DUT
0:42:22.636685	LOG	PULL_RESP: Protocol version = 02, Token = de3b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3256929345, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAKwfgrXmU0N8As3bJuhUyX80AY91jbpnuQIk2bnVZ0NEmzBb+njo/601cV5hXvwqXScJ9RU2IFYdCQD+m1TqzCxXv1NIIj1kZH4vMIpT41m2dZyKRZyl/9glVCJkI/zo2DqzxY0Xc9F065XFF6Y4TYhQU15OdpcjMYE9Ws2zNY4C3hoHantYXn9avVXPxforRmyrrJcBAWEFDZYy0l7YJ3RFtEQ75ZLxzOqoi06p7aFk9RIUntL2M5EtVJBO8BMqBCjHTZsYCmYWoFQXZoDJMzzz0cYhuh3JEcxBa7uRb2NgNM0WjMN1gqba2c2hNJMjhuQo9T5E0lr1z'}}
0:42:22.637687	LOG	Server --------------------> DUT
0:42:22.640661	LOG	Send Test Command TxFramesCtrlReq process completed
0:42:22.644655	LOG	Send Test Command TxFramesCtrlReq process starts
0:42:27.508791	LOG	First uplink received. Open reception window.
0:42:27.617808	LOG	PUSH_ACK: 02 08da 01
0:42:27.619773	LOG	GPS Time from gateway: 1385121690750
0:42:27.620774	LOG	PUSH_DATA: Protocol version = 02, Token = 08da, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3259929116, 'time': '2023-11-27T12:01:11.750768Z', 'tmms': 1385121690750, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3381, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAfgoCgy96a+ksjDXZJgk='}]}
0:42:27.622772	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a7e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 35d92609)
0:42:27.623805	LOG	Server <-------------------- DUT
0:42:27.625774	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 072c, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 8e6cfe28)
0:42:27.627805	LOG	Frame command sent to the DUT
0:42:27.628809	LOG	PULL_RESP: Protocol version = 02, Token = a213, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3261929116, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAALAfgi9fOiWvjxRbyM39ndAi2x2njTDNBllpFeiTo56O9E12puJbQic1fkV45gALd2f2V9fliJc1BfA3LkeAP+qAUSf+XUZxAy26o2SYfImNnKJQzZrlag8MNwnaqdzlUO9cU1fXTKS+hZsCj+Ab+wU3kHmPCWd4sFjFuIc4yblV/i8G+DjEOnV3tPDY7xAQ20hmVjmBVFdGYUXIqO6cxbnZyMtCIm3HWZCXWKmswu0eTVyfLVMLhYeGY+GnBR7h37qTKPquWnC2duBZRsRjwYfQkC6a3vHzczV1gW4eGJo4mG1xw2kqGHn/+i5iVJv7o4xTyAe6ObP4o'}}
0:42:27.629808	LOG	Server --------------------> DUT
0:42:27.632774	LOG	Send Test Command TxFramesCtrlReq process completed
0:42:27.636772	LOG	Send Test Command TxFramesCtrlReq process starts
0:42:28.891270	LOG	GPS Time updated: 1385121692132
0:42:28.892271	LOG	PULL_DATA: 02 9989 02 0016c001ff1025bf
0:42:28.894238	LOG	PULL_ACK: 02 9989 04
0:42:32.511436	LOG	First uplink received. Open reception window.
0:42:32.618003	LOG	PUSH_ACK: 02 a46e 01
0:42:32.620002	LOG	GPS Time from gateway: 1385121695750
0:42:32.621970	LOG	PUSH_DATA: Protocol version = 02, Token = a46e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3264928894, 'time': '2023-11-27T12:01:16.750545Z', 'tmms': 1385121695750, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAfwoCEPMX2RRqyvGCH3M='}]}
0:42:32.622970	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a7f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f1821f73)
0:42:32.624980	LOG	Server <-------------------- DUT
0:42:32.625969	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 072d, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 1155769d)
0:42:32.628002	LOG	Frame command sent to the DUT
0:42:32.629002	LOG	PULL_RESP: Protocol version = 02, Token = cbeb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3266928894, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAALQfgK3xN9OP1RuW8Rrh7Us8MPnK1yn8jp8DTBtLA7VrMXTIU

		x8SWVLdnZ9uTQrQLMnzObftdNFxTZjH27T+uutxzy8vJ0Umc124XB51h3Di8sv Pkp7EV76TxCAmucvBGAKntjxK7J0uHVd1waWjaM9/aDPI9b0hgcaB2yL98NjtN NosqcsWYszmyL8Eu2+w2XnU4BBPDsb6oo5A4zUk4Nq88pxDqaTEIwUxBPsAf L/DPodBBsygi/FWGTcndqbbUyjqBUQfmYUWcPP9P5c9f5R+DsA2sNT1EQObR vbgCrFoOkO7LUe+ODe3EBRgvl70ywezDV9ARVXad'}}
0:42:32.631005	LOG	Server ----------> DUT
0:42:32.633005	LOG	Send Test Command TxFramesCtrlReq process completed
0:42:32.636972	LOG	Send Test Command TxFramesCtrlReq process starts
0:42:37.508085	LOG	First uplink received. Open reception window.
0:42:37.622075	LOG	PUSH_ACK: 02 7e6f 01
0:42:37.624075	LOG	GPS Time from gateway: 1385121700750
0:42:37.625077	LOG	PUSH_DATA: Protocol version = 02, Token = 7e6f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3269928632, 'time': '2023-11-27T12:01:21.750282Z', 'tmms': 1385121700750, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAgAoCrxeiWvUAQLpXbjU='}]}
0:42:37.627043	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a80, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ba576e35)
0:42:37.628043	LOG	Server <---------- DUT
0:42:37.630075	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 072e, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010101 101010101010101010101010101010101010101010101010101010101010101010 010101010101010101010101010101010101010101010101010101010101010101 101010101010101010101010101010101010101010101010101010101010101010 010101010101010101010101010101010101010101010101010101010101010101 101010101010101010101010101010101010101010101010101010101010101010 010101010101010101010101010101010101010101010101010101010101010101 101010101010101), MIC: f9769adf)
0:42:37.632050	LOG	Frame command sent to the DUT
0:42:37.633075	LOG	PULL_RESP: Protocol version = 02, Token = 199e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3271928632, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAALgfgw9any5Px6OVJWPuan9U5L2lvYHWbTKQWHUYYWDcx0nf HQntoJRSolqEXPsFVScZCRJsDdb4Oh+fjmOSq2Xrw4hPYCi/k90lau1fNaCNN8 X/38myKeJL1MzE3FEBFdSyEJPXfgu14/6U0qYxO4WUAhbFVJlVwBB5bQxBj WhBhWMiXbCeQZ/9rezDCqVcAEPLjCBELp99+CN2afRl2AqICd4SgouyZXcXa 0dGK16PLpQSJ+anhCmJeodpYuO4EZ8jUDtSzUuf6vM8WsMvQtHym5DVFYyb tbcadOfhdX0o3EWE01Jnnvn5jWHYJXkKCLdeEEGf5dprf'}}
0:42:37.635054	LOG	Server ----------> DUT
0:42:37.637074	LOG	Send Test Command TxFramesCtrlReq process completed
0:42:37.641078	LOG	Send Test Command TxFramesCtrlReq process starts
0:42:37.648076	LOG	TX_ACK: 02 199e 05 0016c001ff1025bf
0:42:39.099965	LOG	GPS Time updated: 1385121702341
0:42:39.101966	LOG	PULL_DATA: 02 f942 02 0016c001ff1025bf
0:42:39.103970	LOG	PULL_ACK: 02 f942 04
0:42:42.504971	LOG	First uplink received. Open reception window.
0:42:42.606738	LOG	PUSH_ACK: 02 af23 01
0:42:42.608704	LOG	GPS Time from gateway: 1385121705749
0:42:42.609704	LOG	PUSH_DATA: Protocol version = 02, Token = af23, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3274928371, 'time': '2023-11-27T12:01:26.750019Z', 'tmms': 1385121705749, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAgQoC4EXQ++XJzVpIksc='}]}
0:42:42.611705	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a81, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5a4892c7)
0:42:42.612704	LOG	Server <---------- DUT

0:42:42.614705	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 072f, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 77f759c7)
0:42:42.616705	LOG	Frame command sent to the DUT
0:42:42.617704	LOG	PULL_RESP: Protocol version = 02, Token = 7236, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3276928371, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAALwfgNyg0dNnJxb94gUTVX7fclB2Cci1fV4LC55X3OEbSMhLv71 Eju/C0wv54G7x2S6aXc0rx2ITu1u+ChzlsaCbshy87stdbw2SMp8eAHN/2X9SWIS dAmw01OfNMJ04VIQl3wegbx1cVhdi2kZJyNWRYcxn2MiYRNMFonlUS7NaxZj Cp3v770v1QMmGFAcI3muTlvDwyEFdZHuBlWMQg4oW0x+ADNc0H+o5s7dG 6LBD6Rdg+swOAKAVKcnbjhOsZnOoYCbw9Tj3neeMAyTs9IDZ9Xqj/xT1I5tg MHT1JpbeijdhBbgrdSniODXUywOblmNF20Fp391nH'}}
0:42:42.618704	LOG	Server --------------------> DUT
0:42:42.621704	LOG	Send Test Command TxFramesCtrlReq process completed
0:42:42.625706	LOG	Send Test Command TxFramesCtrlReq process starts
0:42:47.504050	LOG	First uplink received. Open reception window.
0:42:47.608123	LOG	PUSH_ACK: 02 0da4 01
0:42:47.610118	LOG	GPS Time from gateway: 1385121710749
0:42:47.611125	LOG	PUSH_DATA: Protocol version = 02, Token = 0da4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3279928142, 'time': '2023-11-27T12:01:31.749791Z', 'tmms': 1385121710749, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAggoCC3ngG5aRvKsdrrM='}]}
0:42:47.613141	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a82, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ab1daeb3)
0:42:47.614127	LOG	Server <-------------------- DUT
0:42:47.616125	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0730, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 012d3884)
0:42:47.618092	LOG	Frame command sent to the DUT
0:42:47.619090	LOG	PULL_RESP: Protocol version = 02, Token = 65de, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3281928142, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAMAfgAMI6LwlST/oS0feP0mNe7xX50OjzvCDPDoztEZNLuoBmud WdS38C/byUMFZqdrLYggPg/7y6j4KrPfmHKRikehR5OR8+btI53N1a7fOT92Jq3 +62ZQrL3YCJ9JNl0im+nEBbgpRdaSTN9H5dGVvTsPpjStCPc92b+T8UK7XeZxq 1+SN9TfBdYN42oviyVk1I5pdiDZhJTglRJ8Wi2LEGPefrcYOmPOTgza2cAgr4Ol pDeKufOQIGIxCjA/0NnzZdmaGRhLRLSXrvMOY4KATL8LkZ+tT0UPYmrWjd whAnQNMRo5pybrtwqH3cYgKtPKkCPPYBLTiE'}}
0:42:47.621090	LOG	Server --------------------> DUT
0:42:47.623124	LOG	Send Test Command TxFramesCtrlReq process completed
0:42:47.627091	LOG	Send Test Command TxFramesCtrlReq process starts
0:42:49.300167	LOG	GPS Time updated: 1385121712545

0:42:49.301159	LOG	PULL_DATA: 02 c2d1 02 0016c001ff1025bf
0:42:49.303160	LOG	PULL_ACK: 02 c2d1 04
0:42:52.510463	LOG	First uplink received. Open reception window.
0:42:52.614990	LOG	PUSH_ACK: 02 622e 01
0:42:52.616991	LOG	GPS Time from gateway: 1385121715749
0:42:52.617992	LOG	PUSH_DATA: Protocol version = 02, Token = 622e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3284927917, 'time': '2023-11-27T12:01:36.749565Z', 'tmms': 1385121715749, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAgwoCiwqqh4aX0yYDFQw='}]}
0:42:52.618992	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a83, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2603150c)
0:42:52.620992	LOG	Server <-------------------- DUT
0:42:52.622991	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0731, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 21da2b47)
0:42:52.623991	LOG	Frame command sent to the DUT
0:42:52.625959	LOG	PULL_RESP: Protocol version = 02, Token = 34f4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3286927917, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAMQfgkg4F3aHCkylfNoUDZjYyHS2/YGyUJL/O9FR0i66dnRGv+b6rnlMmR5aLb+v2YrghZbdrgJDXN+HWodzRzKPTZHDMje5gkCE1bqluy7p0woWXGbIZjZ4u1PTLtVUvfkrthFZ3LxNdYCKLcEGrOGh+BJer8L62Fl9WpBcnHJjxC+/q9RYX9Tl703Jn8rzckjeV7zdSuOMVQnAdlEy0KCK86J6ooTJ/A/35BFpV4u0AI6UuLKm5asM9Vr4VtEVyxdtIDOx0/hbyW0g4Vt2NcbntIg45W6oU1qN+CLB3mQYKn64lkL3RudKsTAMooE8xns4T8Bgh2itH'}}
0:42:52.626959	LOG	Server --------------------> DUT
0:42:52.629957	LOG	Send Test Command TxFramesCtrlReq process completed
0:42:52.633958	LOG	Send Test Command TxFramesCtrlReq process starts
0:42:57.504793	LOG	First uplink received. Open reception window.
0:42:57.606446	LOG	PUSH_ACK: 02 b626 01
0:42:57.608408	LOG	GPS Time from gateway: 1385121720749
0:42:57.609408	LOG	PUSH_DATA: Protocol version = 02, Token = b626, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3289927656, 'time': '2023-11-27T12:01:41.749303Z', 'tmms': 1385121720749, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAhAoCxbGIs+p3RSOLw7k='}]}
0:42:57.611408	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a84, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 238bc3b9)
0:42:57.612409	LOG	Server <-------------------- DUT
0:42:57.614409	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0732, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 770209a6)

0:42:57.616409	LOG	Frame command sent to the DUT
0:42:57.617408	LOG	PULL_RESP: Protocol version = 02, Token = d9cd, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3291927656, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAMgfgopWIPHbmfnABK0qgKkiZU92XHooL+Qv67iLKX9eqqnKuohvTOrc8odlLNo+z1dP4CByL7thG5KqXmlTCRoxo9KGYYaUIAQaCdfr9L8vqx4oNJmZfM+e7HlvqScIPpZ2KopxP0Nd49hDPM/HlVVWohE9CJbu1pfENd2VkRx60Q5+tpb1r/cOeyBHHPSPEsoqNoXUjGWY5HBYoQi4e+UvkCNbdoF9xV/hkN3LCEP5eTLJw7ExkKkrdqjVhgbbIOXiYeneOVj8cjWwRR8vdyQo2b3ZAV4tkLWwzPgFi5vvH8hyS0PosZJI60mB6S2PDgGpotc53Agmm'}}
0:42:57.618409	LOG	Server --------------------> DUT
0:42:57.621409	LOG	Send Test Command TxFramesCtrlReq process completed
0:42:57.625410	LOG	Send Test Command TxFramesCtrlReq process starts
0:42:59.510265	LOG	GPS Time updated: 1385121722755
0:42:59.511295	LOG	PULL_DATA: 02 25fa 02 0016c001ff1025bf
0:42:59.513266	LOG	PULL_ACK: 02 25fa 04
0:43:02.507462	LOG	First uplink received. Open reception window.
0:43:02.622202	LOG	PUSH_ACK: 02 d0bf 01
0:43:02.624209	LOG	GPS Time from gateway: 1385121725748
0:43:02.625185	LOG	PUSH_DATA: Protocol version = 02, Token = d0bf, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3294927395, 'time': '2023-11-27T12:01:46.749041Z', 'tmms': 1385121725748, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAhQoCc7mzzCIkeeaL+E8='}]}
0:43:02.627205	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a85, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e68bf84f)
0:43:02.628204	LOG	Server <-------------------- DUT
0:43:02.630173	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0733, FOpts:), FPort: e0, FRMPayload: 070001), MIC: e670cb21)
0:43:02.631203	LOG	Frame command sent to the DUT
0:43:02.633218	LOG	PULL_RESP: Protocol version = 02, Token = dee2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3296927395, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAMwfgm307xJAkMDSxMRlveTL67/qhko5kJFIhWmGyetUpEDcrPMtrTqIOaw6VXmsg5I8P+CYSKwpVgZjDPr3JFX91uGAI61KBT5QUU2rA+PzUdzStCxx5oOFUobsJq5MQWtPaFLP/Mod4+1sWXEtCH9iMWzL7knYmkC5vnR6gW5NHQrB0nC8bjtc7bKeRLdoM9XDO4glwWgGTANw4rbVEYllwqdJw1VpT2HA+3IFAAdm+8WAWngvwfCOVCbe1lWzrkXEYZP0ZdHJjUtHV1apmXYwf1iHjy8qTdIpYxQmKSY/g8zh1PRJlRebPdL7nDCS4jSxVox3mcMsh'}}
0:43:02.634205	LOG	Server --------------------> DUT
0:43:02.637171	LOG	Send Test Command TxFramesCtrlReq process completed
0:43:02.641181	LOG	Send Test Command TxFramesCtrlReq process starts
0:43:07.509066	LOG	First uplink received. Open reception window.
0:43:07.617302	LOG	PUSH_ACK: 02 09be 01
0:43:07.619301	LOG	GPS Time from gateway: 1385121730748
0:43:07.620311	LOG	PUSH_DATA: Protocol version = 02, Token = 09be, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3299927159, 'time': '2023-11-27T12:01:51.748804Z', 'tmms': 1385121730748, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3381, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAhgoC9Y3fED3ec4457+Y='}]}
0:43:07.622270	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a86, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8e39efe6)
0:43:07.623302	LOG	Server <-------------------- DUT
0:43:07.625268	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0734, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 1a69fe39)
0:43:07.627267	LOG	Frame command sent to the DUT
0:43:07.628272	LOG	PULL_RESP: Protocol version = 02, Token = 312b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3301927159, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAANAfgfdGarosF6W0NGDQsRSxnQfkpSknBxjF4PJ2zVf1GEyEaR3hV9XFxKv25iTOH0Yav5gRd8rp+VrIVDEHuy5lWzZO8gLDIzva18FB/64QcEzlM/TvOb9Xz3aHW6w3fGtP2dOjHAW32FliYXfjPp1/Y9TmZSncLML+YHVjfivfrWQvxOkl1357LVCe0+GVUjev6vqItXlbIh1Ot6+aDp8yAlsLC/O0CC/7nJbv91LXMoXacyfKN2dlQ5iWvDy8vXcvqgJ12WqvC85ZBjj+fXkIsdrbLTOPQl38ZcsVNSI5lQ3ezXmP/PH+nBcJ5r4n11NhXEp8aaf45'}}
0:43:07.629268	LOG	Server --------------------> DUT
0:43:07.632267	LOG	Send Test Command TxFramesCtrlReq process completed
0:43:07.635267	LOG	Send Test Command TxFramesCtrlReq process starts
0:43:09.519961	LOG	GPS Time updated: 1385121732758
0:43:09.521928	LOG	PULL_DATA: 02 2488 02 0016c001ff1025bf
0:43:09.522930	LOG	PULL_ACK: 02 2488 04
0:43:12.509967	LOG	First uplink received. Open reception window.
0:43:12.618733	LOG	PUSH_ACK: 02 b92c 01
0:43:12.620703	LOG	GPS Time from gateway: 1385121735748
0:43:12.621735	LOG	PUSH_DATA: Protocol version = 02, Token = b92c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3304926907, 'time': '2023-11-27T12:01:56.748551Z', 'tmms': 1385121735748, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAhwoCLgzsDWLXV0gZiiw='}]}
0:43:12.623734	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a87, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 48198a2c)
0:43:12.624735	LOG	Server <-------------------- DUT
0:43:12.626704	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0735, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 7c970fb8)
0:43:12.627734	LOG	Frame command sent to the DUT
0:43:12.629704	LOG	PULL_RESP: Protocol version = 02, Token = 697b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3306926907, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAANQfgm7V6jmDfegDXDKZEZ6CdR8rr/dDjekOLORRu9iLDk2aJiJ5

		rxtg2rLiFd+VkdMEZxjqSJZ0kB5mBm8zGjyotMYwxmWwWoJ7wSe7KxV59wc8UouKAlREslSKQukQBMXXIEi+P81DhUNeCtJ8ypfZ0sVx3W10kAQXFcGNTrQ4rTwlTLFltRcLUqjsBZF3OlYDbrcXRw1YC4dZM/sk8ZyZsIrTEIm8DPTzByRQEyrK0rVPwmw2DoRaqYhUOo3/ZPmPJDE+za6xtbYzLHlj1tkLKhULp4mTP36CdnzmLYGtH2sVhDxFtJCfMyrboX22BeNUQwlR8lw+4'}}
0:43:12.630734	LOG	Server --------------------> DUT
0:43:12.633717	LOG	Send Test Command TxFramesCtrlReq process completed
0:43:12.637738	LOG	Send Test Command TxFramesCtrlReq process starts
0:43:17.510321	LOG	First uplink received. Open reception window.
0:43:17.621259	LOG	PUSH_ACK: 02 6253 01
0:43:17.623262	LOG	GPS Time from gateway: 1385121740748
0:43:17.624262	LOG	PUSH_DATA: Protocol version = 02, Token = 6253, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3309926675, 'time': '2023-11-27T12:02:01.748318Z', 'tmms': 1385121740748, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAiAoC2Ab86i17HZGY39o='}]}
0:43:17.626263	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a88, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9198dfda)
0:43:17.627260	LOG	Server <-------------------- DUT
0:43:17.629229	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0736, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 5bbe678d)
0:43:17.630262	LOG	Frame command sent to the DUT
0:43:17.632227	LOG	PULL_RESP: Protocol version = 02, Token = 33c7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3311926675, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAANgfgC66gWoq8VVVhSPSB0b8yqdu+e5Jp8KGGm0x6jsTuE0fwfOZlpjL5Af6oNTE96c+w67mrW/dSBug/IcUFgU5c5RwTT9H5GNV6X+MHL+2jAI8OQ2UaK6JuY4DJAyqpUZYHMFGN4RztRAMctxHmNTSc2hOJ8JiS1x/dGKY6H2ZapfHaZOQovCl1GU+u4vXvDHRAas2WHD/WZBTTb+uzZIn7YmqFQDb//nrOnYIYsV9xNjiJx5nXQdIi3974JognTwf0F0fHLaSicscP0OeKa7wue06Ilr8bN1f2h6S6RWWVT8qhLTms34U56l8SrYMuGXfZCZFbvmeN'}}
0:43:17.633226	LOG	Server --------------------> DUT
0:43:17.636226	LOG	Send Test Command TxFramesCtrlReq process completed
0:43:17.640121	LOG	Send Test Command TxFramesCtrlReq process starts
0:43:19.729321	LOG	GPS Time updated: 1385121742967
0:43:19.731320	LOG	PULL_DATA: 02 b507 02 0016c001ff1025bf
0:43:19.733288	LOG	PULL_ACK: 02 b507 04
0:43:22.512934	LOG	First uplink received. Open reception window.
0:43:22.621782	LOG	PUSH_ACK: 02 c134 01
0:43:22.623751	LOG	GPS Time from gateway: 1385121745747
0:43:22.624751	LOG	PUSH_DATA: Protocol version = 02, Token = c134, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3314926449, 'time': '2023-11-27T12:02:06.748090Z', 'tmms': 1385121745747, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAiQoCVOmsv09d9EmIrOE='}]}
0:43:22.626751	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a89, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4988ace1)
0:43:22.627751	LOG	Server <-------------------- DUT

0:43:22.629751	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0737, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 3d66875d)
0:43:22.630750	LOG	Frame command sent to the DUT
0:43:22.632751	LOG	PULL_RESP: Protocol version = 02, Token = 8c46, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3316926449, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAANwfgc86ATKK1VZMOQxngwn0Rbr/IRmAnY00pqMSyfB+8cMSoi7TdZKl2HJmMZIN34Qv1uAnovh99R7IQl6keowiSTpTB+sWBPssjw9vk/chk1AEW8ZkqKfmRLThCm5pSI326aPImkihJlZqmQ27nRaHUajDu63JexACBozFTVLCnj0/pOUdWdRrzLYleEFD/y+5mHXLp1tyQINbGdxK7a0kZcvjXPdTJHS43Cdr3Wz7BsY2Tj6qGZTO1Qop6XNjm+k0TBAKcnCpNetHAx6vxm04RSO45Q8ri9iqj8GFwm806ZwcpRHjl8VZTlxPgHdHEwZB13Gs9Zodd'}}
0:43:22.633750	LOG	Server --------------------> DUT
0:43:22.636750	LOG	Send Test Command TxFramesCtrlReq process completed
0:43:22.640750	LOG	Send Test Command TxFramesCtrlReq process starts
0:43:27.501685	LOG	First uplink received. Open reception window.
0:43:27.607495	LOG	PUSH_ACK: 02 7625 01
0:43:27.609495	LOG	GPS Time from gateway: 1385121750747
0:43:27.610507	LOG	PUSH_DATA: Protocol version = 02, Token = 7625, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3319926222, 'time': '2023-11-27T12:02:11.747864Z', 'tmms': 1385121750747, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAigoCF+MbRpRXbfPXwFI='}]}
0:43:27.612501	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a8a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f3d7c052)
0:43:27.613499	LOG	Server <-------------------- DUT
0:43:27.615501	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0738, FOpts:), FPort: e0, FRMPayload: 070001), MIC: e326c286)
0:43:27.617500	LOG	Frame command sent to the DUT
0:43:27.618532	LOG	PULL_RESP: Protocol version = 02, Token = 41a0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3321926222, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAOAfg8njzRObInKd4g5b0zxE1HaEe2FKAaycyJ81n2Elnsuj/9BYOhN3ge+HH+VEmtJK5BIgqMged0TBzs/v+Q5y5UX4cQ4cBs0xRNJLYZs1p3fhospVDXHSJ7mZfMTwThCbTXe0A3ZbySegdNxxdDVIKxw22xziqQxmQnHKu+cigQoBXUbGpiA9MZyLratOfp2Y7hlYW6erg/qgQw8ua76RHWDHwvC8vq+nFp8ph3R1uIqmu4kfDfbipcHc7mV5xrBg25/7vaUvdCusx6Sy56RIH8NzmXmhzieQE3dp3yLod691BOFuzndl81jz1vXRR0UmdsEHjJsKG'}}
0:43:27.619534	LOG	Server --------------------> DUT
0:43:27.622545	LOG	Send Test Command TxFramesCtrlReq process completed
0:43:27.626010	LOG	Send Test Command TxFramesCtrlReq process starts
0:43:29.929580	LOG	GPS Time updated: 1385121753175

0:43:29.931563	LOG	PULL_DATA: 02 dd83 02 0016c001ff1025bf
0:43:29.932548	LOG	PULL_ACK: 02 dd83 04
0:43:32.502339	LOG	First uplink received. Open reception window.
0:43:32.603903	LOG	PUSH_ACK: 02 c9a0 01
0:43:32.605903	LOG	GPS Time from gateway: 1385121755747
0:43:32.606906	LOG	PUSH_DATA: Protocol version = 02, Token = c9a0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3324925969, 'time': '2023-11-27T12:02:16.747610Z', 'tmms': 1385121755747, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3385, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAiwoC4ieMy0a8HBCLxqI='}]}
0:43:32.608906	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a8b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 108bc6a2)
0:43:32.609903	LOG	Server <-------------------- DUT
0:43:32.611905	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0739, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: e9893a6a)
0:43:32.612904	LOG	Frame command sent to the DUT
0:43:32.614944	LOG	PULL_RESP: Protocol version = 02, Token = b981, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3326925969, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAOQfgc/f05nsSwJ5wSPckeJQiqWybeVhrhY2KowIKgemqN17b3hWDRMhvBrelBcx7vPGH0A6Ri/rwRrucQrDATz9W/eC8tLr6bREEubNNgmMeahBxq7ZlDhM0WDXE7lUqvckzbd1be37O0MArreN6XY1OAlSDP8KWMJZoojKzeJJSFWm7pnKHt544cEpCIHB8wOvNhfOQo+FFKjYDgATWPcLsT+DMfAJvgYBwils52QPVRbIM3M8LhbqKhpsGi5rw5Mjn5rN/fiJJ2VJUtP+nWzt7n74coRYpcJdw8k4Rd3kdjUR4Yl8vL1gJO/DiB3INSp9RTQbpiTpq'}}
0:43:32.615942	LOG	Server --------------------> DUT
0:43:32.618922	LOG	Send Test Command TxFramesCtrlReq process completed
0:43:32.622913	LOG	Step 06-07
0:43:32.625909	LOG	Send Test Command RxAppCntReq process starts
0:43:37.504673	LOG	First uplink received. Open reception window.
0:43:37.610069	LOG	PUSH_ACK: 02 542b 01
0:43:37.612104	LOG	GPS Time from gateway: 1385121760747
0:43:37.613072	LOG	PUSH_DATA: Protocol version = 02, Token = 542b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3329925707, 'time': '2023-11-27T12:02:21.747347Z', 'tmms': 1385121760747, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAjAoCzMsFuWBXAaornQQ='}]}
0:43:37.614070	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a8c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: aa2b9d04)
0:43:37.616071	LOG	Server <-------------------- DUT
0:43:37.617071	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 073a, FOpts:), FPort: e0, FRMPayload: 09), MIC: b80d508a)
0:43:37.619104	LOG	Frame command sent to the DUT
0:43:37.620144	LOG	PULL_RESP: Protocol version = 02, Token = fcce, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3331925707, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 14, 'data': 'YAAAAAAAOgfgP7gNUIo='}}
0:43:37.622109	LOG	Server --------------------> DUT
0:43:37.626110	LOG	TX_ACK: 02 fcce 05 0016c001ff1025bf

0:43:39.579983	LOG	First uplink received. Open reception window.
0:43:39.680503	LOG	PUSH_ACK: 02 cee9 01
0:43:39.682504	LOG	GPS Time from gateway: 1385121762825
0:43:39.683541	LOG	PUSH_DATA: Protocol version = 02, Token = cee9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3332004420, 'time': '2023-11-27T12:02:23.826058Z', 'tmms': 1385121762825, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3385, 'rssi': -51, 'size': 16, 'data': 'QAAAAACAjQrgOIQPTEF2IA==\'}]}
0:43:39.685508	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a8d, FOpts:), FPort: e0, FRMPayload: 09af05, MIC: 4c417620)
0:43:39.686538	LOG	Server <---------- DUT
0:43:39.688507	LOG	Frame Command Payload in the Answer: 09af05
0:43:39.691539	LOG	RX Count received by DUT: 1455
0:43:39.694507	LOG	Send Test Command RxAppCntReq process completed
0:43:39.701537	LOG	End Test Step: Test packet error rate for FSK50 using RX2 window
0:43:39.704537	LOG	Partial Verdict: PASS
0:43:39.708504	LOG	==========
0:43:39.712540	LOG	==========
0:43:39.714505	LOG	Start Test Step: Restore default settings
0:43:39.726532	LOG	Send RXParamSetupReq process starts
0:43:39.959345	LOG	GPS Time updated: 1385121763205
0:43:39.961344	LOG	PULL_DATA: 02 c684 02 0016c001ff1025bf
0:43:39.962344	LOG	PULL_ACK: 02 c684 04
0:43:42.505764	LOG	First uplink received. Open reception window.
0:43:42.610802	LOG	PUSH_ACK: 02 0feb 01
0:43:42.612797	LOG	GPS Time from gateway: 1385121765746
0:43:42.613768	LOG	PUSH_DATA: Protocol version = 02, Token = 0feb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3334925480, 'time': '2023-11-27T12:02:26.747119Z', 'tmms': 1385121765746, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAjgoCFQH9UZpfmX3BZTE=\'}]}
0:43:42.615805	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a8e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7dc16531)
0:43:42.616804	LOG	Server <---------- DUT
0:43:42.618769	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 073b, FOpts:), FPort: 00, FRMPayload: 0500d2ad84), MIC: 17cd3284)
0:43:42.620770	LOG	PULL_RESP: Protocol version = 02, Token = bfa4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3336925480, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 18, 'data': 'YAAAAAAAOwcArQfiu5kXzTKE'}}
0:43:42.621801	LOG	Server ----------> DUT
0:43:42.624488	LOG	TX_ACK: 02 bfa4 05 0016c001ff1025bf
0:43:47.507749	LOG	First uplink received. Open reception window.
0:43:47.612068	LOG	PUSH_ACK: 02 7edf 01
0:43:47.614049	LOG	GPS Time from gateway: 1385121770746
0:43:47.616043	LOG	PUSH_DATA: Protocol version = 02, Token = 7edf, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3339925317, 'time': '2023-11-27T12:02:31.746955Z', 'tmms': 1385121770746, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3385, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCjwoFBwJuup9eL9XXy7k6Tg==\'}]}
0:43:47.617033	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0a8f, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: cbb93a4e)
0:43:47.618067	LOG	Server <---------- DUT
0:43:47.620058	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:43:47.622034	LOG	Command Answer: 0507

0:43:47.634094	LOG	MAC command communication completed
0:43:47.637046	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:43:49.969367	LOG	GPS Time updated: 1385121773208
0:43:49.971380	LOG	PULL_DATA: 02 aa87 02 0016c001ff1025bf
0:43:49.972366	LOG	PULL_ACK: 02 aa87 04
0:43:52.508476	LOG	First uplink received. Open reception window.
0:43:52.613640	LOG	PUSH_ACK: 02 9dce 01
0:43:52.615606	LOG	GPS Time from gateway: 1385121775746
0:43:52.616605	LOG	PUSH_DATA: Protocol version = 02, Token = 9dce, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3344924996, 'time': '2023-11-27T12:02:36.746633Z', 'tmms': 1385121775746, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3377, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCkAoFBwL+X2hvpPLVA9mekg=='}]}
0:43:52.618618	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0a90, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 03d99e92)
0:43:52.619639	LOG	Server <---------- DUT
0:43:52.621609	LOG	MAC Command RXParamSetupAns received
0:43:52.622642	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 073c, FOpts:), FPort: e0, FRMPayload: 0501), MIC: 02cf5f9e)
0:43:52.624624	LOG	Frame command sent to the DUT
0:43:52.625607	LOG	PULL_RESP: Protocol version = 02, Token = 4f63, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3346924996, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAPAfg+PgCz1+e'}}
0:43:52.626606	LOG	Server ----------> DUT
0:43:52.629606	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:43:52.632639	LOG	End Test Step: Restore default settings
0:43:52.636675	LOG	Partial Verdict: PASS
0:43:52.639676	LOG	==========
0:43:52.642675	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_016
0:43:52.644686	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_017	
Verdict	PASS	
Date	2023-11-27 13:02:39	
Description		
Technology Version	LCTT v3.11.0_R1 | GUI v2.6.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.3	
Test Specs Version	USv1.5.1/EUv1.6.2/KRv1.2.1/ASv1.1.1/INv1.1.1/ALL_Av1.6/ALL_Cv1.0/ALL_Bv1.0/SCHCv1.1/ALPv1.0	
Project	ref-stack	
Project Creation Date	2023-10-04 09:10:20	
Sample Parameters		
	Conformance	TRUE

Time Stamp (ms)	Event	Summary
0:00:00.008637	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_017
0:00:00.064640	LOG	==========
0:00:00.066642	LOG	Start Test Step: Device activation
0:00:00.150139	LOG	Activation process has finished successfully
0:00:00.152116	LOG	Data stored in the DUT after Activation:
0:00:00.155108	LOG	DevAddr: 00000000
0:00:00.158107	LOG	AppEUI: 0000000000000000
0:00:00.160116	LOG	NwkSKey: 6bfb58c6a233389e6e66450a9e520a70
0:00:00.163113	LOG	AppSKey: ded4e508ab9cede444c3765e0533fcac

0:00:00.167111	LOG	End Test Step: Device activation
0:00:00.170146	LOG	Partial Verdict: PASS
0:00:00.173688	LOG	==========
0:00:00.178731	LOG	==========
0:00:00.180726	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.189725	LOG	DUT Pre-condition activation process starts
0:00:00.192694	LOG	DUT Pre-condition activation completed
0:00:00.195727	LOG	End Test Step: DUT Pre-condition settings
0:00:00.198726	LOG	Partial Verdict: PASS
0:00:00.202729	LOG	==========
0:00:00.207728	LOG	==========
0:00:00.209699	LOG	Start Test Step: RX1 and RX2 simultaneous frames
0:00:00.218695	LOG	Step 01-02
0:00:00.223736	LOG	Send Frames in both windows and test behaviour process starts
0:00:01.424118	LOG	PUSH_DATA received while waiting first PULL_DATA
0:00:03.902824	LOG	GPS Time updated: 1385121778224
0:00:03.903823	LOG	PULL_DATA: 02 aab0 02 0016c001ff1025bf
0:00:03.904823	LOG	PULL_ACK: 02 aab0 04
0:00:06.428951	LOG	First uplink received. Open reception window.
0:00:06.529552	LOG	PUSH_ACK: 02 796b 01
0:00:06.531586	LOG	GPS Time from gateway: 1385121785745
0:00:06.533554	LOG	#**********CURRENT BEACON SENT**********#
0:00:06.534555	LOG	Error: 'DataManager' object has no attribute 'last_message'
0:00:06.535554	LOG	Cannot print the current beacon sent
0:00:06.545553	LOG	#**********NEXT BEACON QUEUED**********#
0:00:06.546552	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385121920000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACASI9SJRgAAAAAAAAAAA='}}
0:00:06.547555	LOG	Server ----------> DUT
0:00:06.549555	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 80488f52, CRC1: 2518, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385121920000
0:00:06.550587	LOG	#**********#
0:00:06.551589	LOG	Next BEACON scheduled at GPS time (ms): 1385122048000
0:00:06.552586	LOG	PUSH_DATA: Protocol version = 02, Token = 796b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3354924380, 'time': '2023-11-27T12:02:46.746016Z', 'tmms': 1385121785745, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAkgoC0RhoWJjBf0/68L8='}]}
0:00:06.553586	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a92, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4ffaf0bf)
0:00:06.554586	LOG	Server <---------- DUT
0:00:06.556558	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 073d, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 8880f498)
0:00:06.560558	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 073e, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 1e25f337)
0:00:06.561591	LOG	PULL_RESP: Protocol version = 02, Token = 29bf, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3355924380, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAPQfgtSqIgPSY'}}
0:00:06.563569	LOG	Server ----------> DUT

0:00:06.564609	LOG	PULL_RESP: Protocol version = 02, Token = 3898, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3356924380, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'oAAAAAAAPgfgJXIeJfM3'}}
0:00:06.565607	LOG	Server ----------> DUT
0:00:06.567576	LOG	Sent txpk for both windows (RX1 and RX2): [{'imme': False, 'tmst': 3355924380, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAPQfgtSqIgPSY'}, {'imme': False, 'tmst': 3356924380, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'oAAAAAAAPgfgJXIeJfM3'}]
0:00:06.569609	LOG	TX_ACK: 02 3898 05 0016c001ff1025bf
0:00:11.427298	LOG	First uplink received. Open reception window.
0:00:11.533912	LOG	PUSH_ACK: 02 e4ef 01
0:00:11.535911	LOG	GPS Time from gateway: 1385121790745
0:00:11.536915	LOG	PUSH_DATA: Protocol version = 02, Token = e4ef, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3359924118, 'time': '2023-11-27T12:02:51.745753Z', 'tmms': 1385121790745, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAkwoCwW+XsJqU4487c/8='}]}
0:00:11.538880	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a93, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8f3b73ff)
0:00:11.539880	LOG	Server <---------- DUT
0:00:11.540880	LOG	ACK bit is set to 0, so RX2 downlink is ignored
0:00:11.543915	LOG	Send Frames in both windows and test behaviour tested successfully
0:00:11.550917	LOG	Send Frames in both windows and test behaviour process starts
0:00:13.912662	LOG	GPS Time updated: 1385121793231
0:00:13.914640	LOG	PULL_DATA: 02 255a 02 0016c001ff1025bf
0:00:13.915630	LOG	PULL_ACK: 02 255a 04
0:00:16.430491	LOG	First uplink received. Open reception window.
0:00:16.544313	LOG	PUSH_ACK: 02 1403 01
0:00:16.546315	LOG	GPS Time from gateway: 1385121795745
0:00:16.547315	LOG	PUSH_DATA: Protocol version = 02, Token = 1403, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3364923861, 'time': '2023-11-27T12:02:56.745495Z', 'tmms': 1385121795745, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAlAoC1kHs5lVn466xicc='}]}
0:00:16.548314	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a94, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: aeb189c7)
0:00:16.549316	LOG	Server <---------- DUT
0:00:16.551315	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 073f, FOpts:), FPort: e0, FRMPayload: 0700), MIC: b667ee26)
0:00:16.553315	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0740, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 9a7809cb)
0:00:16.555315	LOG	PULL_RESP: Protocol version = 02, Token = a056, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3365923861, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAPwfgbIC2Z+4m'}}
0:00:16.556315	LOG	Server ----------> DUT
0:00:16.558315	LOG	PULL_RESP: Protocol version = 02, Token = 387b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3366923861, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'oAAAAAAAQAfgv5maeAnL'}}
0:00:16.559315	LOG	Server ----------> DUT
0:00:16.561349	LOG	Sent txpk for both windows (RX1 and RX2): [{'imme': False, 'tmst': 3365923861, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAPwfgbIC2Z+4m'},

		{'imme': False, 'tmst': 3366923861, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'oAAAAAAAQAfgv5maeAnL'}]
0:00:16.563315	LOG	TX_ACK: 02 387b 05 0016c001ff1025bf
0:00:21.421379	LOG	First uplink received. Open reception window.
0:00:21.536485	LOG	PUSH_ACK: 02 dddd 01
0:00:21.538486	LOG	GPS Time from gateway: 1385121800744
0:00:21.539486	LOG	PUSH_DATA: Protocol version = 02, Token = dddd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3369923600, 'time': '2023-11-27T12:03:01.745233Z', 'tmms': 1385121800744, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3396, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAlQoCvV2fc7WtU9ggESU='}]}
0:00:21.540486	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a95, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d8201125)
0:00:21.542463	LOG	Server <---------- DUT
0:00:21.543454	LOG	ACK bit is set to 0, so RX2 downlink is ignored
0:00:21.546454	LOG	Send Frames in both windows and test behaviour tested successfully
0:00:21.552454	LOG	Send Frames in both windows and test behaviour process starts
0:00:23.922178	LOG	GPS Time updated: 1385121803246
0:00:23.924145	LOG	PULL_DATA: 02 a331 02 0016c001ff1025bf
0:00:23.925176	LOG	PULL_ACK: 02 a331 04
0:00:26.428865	LOG	First uplink received. Open reception window.
0:00:26.534984	LOG	PUSH_ACK: 02 0871 01
0:00:26.536984	LOG	GPS Time from gateway: 1385121805744
0:00:26.537985	LOG	PUSH_DATA: Protocol version = 02, Token = 0871, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3374923343, 'time': '2023-11-27T12:03:06.744975Z', 'tmms': 1385121805744, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAlgoCLLKDKovb+I0TOq8='}]}
0:00:26.538985	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a96, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8d133aaf)
0:00:26.539985	LOG	Server <---------- DUT
0:00:26.541987	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0741, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 5a658ffc)
0:00:26.543986	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0742, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 3f432d80)
0:00:26.545986	LOG	PULL_RESP: Protocol version = 02, Token = dfe6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3375923343, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAQQfghedaZY/8'}}
0:00:26.546986	LOG	Server ----------> DUT
0:00:26.548986	LOG	PULL_RESP: Protocol version = 02, Token = 9e54, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3376923343, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'oAAAAAAAQgfgT/U/Qy2A'}}
0:00:26.549985	LOG	Server ----------> DUT
0:00:26.550987	LOG	Sent txpk for both windows (RX1 and RX2): [{'imme': False, 'tmst': 3375923343, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAQQfghedaZY/8'}, {'imme': False, 'tmst': 3376923343, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'oAAAAAAAQgfgT/U/Qy2A'}]
0:00:26.553268	LOG	TX_ACK: 02 9e54 05 0016c001ff1025bf
0:00:31.421979	LOG	First uplink received. Open reception window.
0:00:31.527609	LOG	PUSH_ACK: 02 f629 01
0:00:31.529575	LOG	GPS Time from gateway: 1385121810744

0:00:31.530575	LOG	PUSH_DATA: Protocol version = 02, Token = f629, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3379923074, 'time': '2023-11-27T12:03:11.744705Z', 'tmms': 1385121810744, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3396, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAlwoChTPkCB391fkG1lw='}]}
0:00:31.531575	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a97, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f906d65c)
0:00:31.533576	LOG	Server <---------- DUT
0:00:31.534575	LOG	ACK bit is set to 0, so RX2 downlink is ignored
0:00:31.537581	LOG	Send Frames in both windows and test behaviour tested successfully
0:00:31.543575	LOG	Send Frames in both windows and test behaviour process starts
0:00:34.112685	LOG	GPS Time updated: 1385121813434
0:00:34.113683	LOG	PULL_DATA: 02 ba74 02 0016c001ff1025bf
0:00:34.114653	LOG	PULL_ACK: 02 ba74 04
0:00:36.421482	LOG	First uplink received. Open reception window.
0:00:36.523999	LOG	PUSH_ACK: 02 0964 01
0:00:36.526000	LOG	GPS Time from gateway: 1385121815744
0:00:36.527000	LOG	PUSH_DATA: Protocol version = 02, Token = 0964, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3384922854, 'time': '2023-11-27T12:03:16.744483Z', 'tmms': 1385121815744, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAmAoCYZPFfXgyAbi2aB8='}]}
0:00:36.528000	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a98, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b8b6681f)
0:00:36.529999	LOG	Server <---------- DUT
0:00:36.531002	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0743, FOpts:), FPort: e0, FRMPayload: 0700), MIC: ac28c921)
0:00:36.532999	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0744, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 7475daae)
0:00:36.535000	LOG	PULL_RESP: Protocol version = 02, Token = 5a8f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3385922854, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAQwfgstCsKMkh'}}
0:00:36.536001	LOG	Server ----------> DUT
0:00:36.538000	LOG	PULL_RESP: Protocol version = 02, Token = 1207, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3386922854, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'oAAAAAAARAfgNx90ddqu'}}
0:00:36.539000	LOG	Server ----------> DUT
0:00:36.541001	LOG	Sent txpk for both windows (RX1 and RX2): [{'imme': False, 'tmst': 3385922854, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAQwfgstCsKMkh'}, {'imme': False, 'tmst': 3386922854, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'oAAAAAAARAfgNx90ddqu'}]
0:00:36.542000	LOG	TX_ACK: 02 1207 05 0016c001ff1025bf
0:00:41.428041	LOG	First uplink received. Open reception window.
0:00:41.532585	LOG	PUSH_ACK: 02 fca6 01
0:00:41.534554	LOG	GPS Time from gateway: 1385121820743
0:00:41.535553	LOG	PUSH_DATA: Protocol version = 02, Token = fca6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3389922591, 'time': '2023-11-27T12:03:21.744221Z', 'tmms': 1385121820743, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3393, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAmQoCKldTQQrdGlicemo='}]}
0:00:41.536553	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a99, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 589c7a6a)
0:00:41.537553	LOG	Server <---------- DUT

0:00:41.539554	LOG	ACK bit is set to 0, so RX2 downlink is ignored
0:00:41.542553	LOG	Send Frames in both windows and test behaviour tested successfully
0:00:41.549587	LOG	End Test Step: RX1 and RX2 simultaneous frames
0:00:41.553586	LOG	Partial Verdict: PASS
0:00:41.557587	LOG	==========
0:00:41.560586	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_017
0:00:41.561589	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_018	
Verdict	PASS	
Date	2023-11-27 13:03:23	
Description		
Technology Version	LCTT v3.11.0_R1 | GUI v2.6.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.3	
Test Specs Version	USv1.5.1/EUv1.6.2/KRv1.2.1/ASv1.1.1/INv1.1.1/ALL_Av1.6/ALL_Cv1.0/ ALL_Bv1.0/SCHCv1.1/ALPv1.0	
Project	ref-stack	
Project Creation Date	2023-10-04 09:10:20	
Sample Parameters		
	SF7BW250 Frequency	868.100
	FSK Frequency	868.100
	Conformance	TRUE

Time Stamp (ms)	Event	Summary
0:00:00.010309	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_018
0:00:00.067316	LOG	==========
0:00:00.069314	LOG	Start Test Step: Device activation
0:00:00.153856	LOG	Activation process has finished successfully
0:00:00.155856	LOG	Data stored in the DUT after Activation:
0:00:00.158858	LOG	DevAddr: 00000000
0:00:00.161825	LOG	AppEUI: 0000000000000000
0:00:00.163858	LOG	NwkSKey: 6bfb58c6a233389e6e66450a9e520a70
0:00:00.166987	LOG	AppSKey: ded4e508ab9cede444c3765e0533fcac
0:00:00.169973	LOG	End Test Step: Device activation
0:00:00.174977	LOG	Partial Verdict: PASS
0:00:00.178977	LOG	==========
0:00:00.183978	LOG	==========
0:00:00.185486	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.194518	LOG	DUT Pre-condition activation process starts
0:00:00.197486	LOG	DUT Pre-condition activation completed
0:00:00.200486	LOG	End Test Step: DUT Pre-condition settings
0:00:00.204486	LOG	Partial Verdict: PASS
0:00:00.208486	LOG	==========
0:00:00.212486	LOG	==========
0:00:00.214485	LOG	Start Test Step: Initial settings for the test
0:00:00.224521	LOG	Step 01
0:00:00.227522	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:00:00.571657	LOG	GPS Time updated: 1385121820743
0:00:00.572657	LOG	PULL_DATA: 02 330c 02 0016c001ff1025bf
0:00:00.574659	LOG	PULL_ACK: 02 330c 04
0:00:02.694815	LOG	First uplink received. Open reception window.
0:00:02.799012	LOG	PUSH_ACK: 02 fd2e 01
0:00:02.800980	LOG	GPS Time from gateway: 1385121825743

0:00:02.801980	LOG	PUSH_DATA: Protocol version = 02, Token = fd2e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3394922361, 'time': '2023-11-27T12:03:26.743990Z', 'tmms': 1385121825743, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAmgoCrity1OLkcurf37E='}]}
0:00:02.803981	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a9a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: eadfdfb1)
0:00:02.804980	LOG	Server <---------- DUT
0:00:02.806980	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0745, FOpts:), FPort: e0, FRMPayload: 0500), MIC: c5d3d0b3)
0:00:02.808981	LOG	Frame command sent to the DUT
0:00:02.809981	LOG	PULL_RESP: Protocol version = 02, Token = a69b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3396922361, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAARQfgdtrF09Cz'}}
0:00:02.810980	LOG	Server ----------> DUT
0:00:02.813980	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:00:02.816980	LOG	End Test Step: Initial settings for the test
0:00:02.820980	LOG	Partial Verdict: PASS
0:00:02.823980	LOG	==========
0:00:02.827980	LOG	==========
0:00:02.831009	LOG	Start Test Step: Oversized downlink for datarate SF12BW125
0:00:02.842980	LOG	Step 02-03
0:00:02.846982	LOG	Send MAC command block process starts
0:00:07.691843	LOG	First uplink received. Open reception window.
0:00:07.801493	LOG	PUSH_ACK: 02 7ea7 01
0:00:07.803463	LOG	GPS Time from gateway: 1385121830743
0:00:07.804463	LOG	PUSH_DATA: Protocol version = 02, Token = 7ea7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3399922132, 'time': '2023-11-27T12:03:31.743760Z', 'tmms': 1385121830743, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3385, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAmwoCWj+Lc8quJ+ftDpM='}]}
0:00:07.806460	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a9b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e7ed0e93)
0:00:07.807496	LOG	Server <---------- DUT
0:00:07.809461	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0746, FOpts:), FPort: 00, FRMPayload: 03000700010500d2ad84), MIC: 3f2a4fe0)
0:00:07.811497	LOG	PULL_RESP: Protocol version = 02, Token = ea03, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3401922132, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAARgcAntuYf7SZJ+2leT8qT+A='}}
0:00:07.812493	LOG	Server ----------> DUT
0:00:07.815467	LOG	TX_ACK: 02 ea03 05 0016c001ff1025bf
0:00:10.750614	LOG	GPS Time updated: 1385121833802
0:00:10.752614	LOG	PULL_DATA: 02 def8 02 0016c001ff1025bf
0:00:10.753616	LOG	PULL_ACK: 02 def8 04
0:00:14.132971	LOG	Multiple frames received. Selecting the correct frame...
0:00:14.133972	LOG	Frame selected: {'jver': 1, 'tmst': 3406347933, 'time': '2023-11-27T12:03:38.169560Z', 'tmms': 1385121837169, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.5, 'foff': -3383, 'rssi': -50, 'size': 24, 'data': 'QAAAAACEnAoDBwUHAgpayZiqDvtpRz7Y'}
0:00:14.136003	LOG	First uplink received. Open reception window.
0:00:14.246581	LOG	PUSH_ACK: 02 12c3 01
0:00:14.248582	LOG	GPS Time from gateway: 1385121837169

0:00:14.249583	LOG	PUSH_DATA: Protocol version = 02, Token = 12c3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3406347933, 'time': '2023-11-27T12:03:38.169560Z', 'tmms': 1385121837169, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.5, 'foff': -3383, 'rssi': -50, 'size': 24, 'data': 'QAAAAACEnAoDBwUHAgpayZiqDvtpRz7Y'}, {'jver': 1, 'tmst': 3406347934, 'time': '2023-11-27T12:03:38.169561Z', 'tmms': 1385121837169, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -124, 'lsnr': -12.0, 'foff': -3382, 'rssi': -113, 'size': 24, 'data': 'QAAAAACEnAoDBwUHAgpayZiqDvtpRz7Y'}]}
0:00:14.251615	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0a9c, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 69473ed8)
0:00:14.252615	LOG	Server <---------- DUT
0:00:14.254584	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:14.255615	LOG	Command Answer: 03070507
0:00:14.310220	LOG	MAC command communication completed
0:00:14.314219	LOG	Step 03
0:00:14.325216	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:14.329219	LOG	MAC Command LinkADRAns received
0:00:14.330217	LOG	MAC Command RXParamSetupAns received
0:00:14.332219	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0747, FOpts:), FPort: e0, FRMPayload: 0702010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 0b80732d)
0:00:14.333251	LOG	Frame command sent to the DUT
0:00:14.335224	LOG	PULL_RESP: Protocol version = 02, Token = 9c5d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3407347933, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 65, 'data': 'YAAAAAAARwfgj7Kn3ubqGxsuFxlq4Pi5b1/dK3UTOxgExmvG/CTIDndr8Ps9WiItbNqAe8w37chZUPHQPguAcy0='}}
0:00:14.336219	LOG	Server ----------> DUT
0:00:14.339219	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:14.343218	LOG	Step 04
0:00:14.346220	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:00:20.841775	LOG	GPS Time updated: 1385121843873
0:00:20.842774	LOG	PULL_DATA: 02 1dfc 02 0016c001ff1025bf
0:00:20.844743	LOG	PULL_ACK: 02 1dfc 04
0:00:24.128785	LOG	Multiple frames received. Selecting the correct frame...
0:00:24.130785	LOG	Frame selected: {'jver': 1, 'tmst': 3416347403, 'time': '2023-11-27T12:03:48.169028Z', 'tmms': 1385121847168, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 8.2, 'foff': -3375, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCnQoFBwLbBMxKEOhDaOtIkw=='}
0:00:24.132755	LOG	First uplink received. Open reception window.
0:00:24.235370	LOG	PUSH_ACK: 02 3bfb 01
0:00:24.237370	LOG	GPS Time from gateway: 1385121847168
0:00:24.238370	LOG	PUSH_DATA: Protocol version = 02, Token = 3bfb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3416347403, 'time': '2023-11-27T12:03:48.169028Z', 'tmms': 1385121847168, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 8.2, 'foff': -3375, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCnQoFBwLbBMxKEOhDaOtIkw=='}, {'jver': 1, 'tmst': 3416347404, 'time': '2023-11-27T12:03:48.169029Z', 'tmms': 1385121847168, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -11.8, 'foff': -3374, 'rssi': -113, 'size': 22, 'data': 'QAAAAACCnQoFBwLbBMxKEOhDaOtIkw=='}]}

0:00:24.239369	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0a9d, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 68eb4893)
0:00:24.241369	LOG	Server <---------- DUT
0:00:24.242370	LOG	MAC Command RXParamSetupAns received
0:00:24.244370	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0748, FOpts:), FPort: , FRMPayload:), MIC: 708ab9dd)
0:00:24.245369	LOG	PULL_RESP: Protocol version = 02, Token = d4c8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3417347403, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 12, 'data': 'YAAAAAAASAdwirnd'}}
0:00:24.247369	LOG	Server ----------> DUT
0:00:24.250370	LOG	TX_ACK: 02 d4c8 05 0016c001ff1025bf
0:00:28.970454	LOG	First uplink received. Open reception window.
0:00:29.086049	LOG	PUSH_ACK: 02 d9de 01
0:00:29.088016	LOG	GPS Time from gateway: 1385121852004
0:00:29.089016	LOG	PUSH_DATA: Protocol version = 02, Token = d9de, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3421183206, 'time': '2023-11-27T12:03:53.004831Z', 'tmms': 1385121852004, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.5, 'foff': -3368, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAngoC0SXYis2vz0RPjuw='}]}
0:00:29.090015	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a9e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 444f8eec)
0:00:29.091016	LOG	Server <---------- DUT
0:00:29.095018	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:00:29.106092	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:29.110093	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0749, FOpts:), FPort: e0, FRMPayload: 07020101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: aacd4464)
0:00:29.112054	LOG	Frame command sent to the DUT
0:00:29.113088	LOG	PULL_RESP: Protocol version = 02, Token = ab1c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3423183206, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 65, 'data': 'YAAAAAAASQfgKIKSQL247amzOL0GB/2jjuH84shOnnBQqzBo8d0j/ZZt5i4XlB4lbXCQH3bu4CGjNutDSqrNRGQ='}}
0:00:29.115087	LOG	Server ----------> DUT
0:00:29.117602	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:29.121632	LOG	Step 05
0:00:29.124603	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:00:31.000902	LOG	GPS Time updated: 1385121854034
0:00:31.002907	LOG	PULL_DATA: 02 2ce2 02 0016c001ff1025bf
0:00:31.003912	LOG	PULL_ACK: 02 2ce2 04
0:00:38.972365	LOG	First uplink received. Open reception window.
0:00:39.081872	LOG	PUSH_ACK: 02 4f47 01
0:00:39.083875	LOG	GPS Time from gateway: 1385121862004
0:00:39.084875	LOG	PUSH_DATA: Protocol version = 02, Token = 4f47, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3431182721, 'time': '2023-11-27T12:04:03.004343Z', 'tmms': 1385121862004, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.8, 'foff': -3367, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAnwoC20rnN42o12TXYbE='}]}
0:00:39.085875	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0a9f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 64d761b1)
0:00:39.087876	LOG	Server <---------- DUT
0:00:39.090876	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:00:39.102173	LOG	Send Test Command TxFramesCtrlReq process starts

0:00:39.105207	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 074a, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c10ef93a)
0:00:39.107172	LOG	Frame command sent to the DUT
0:00:39.108171	LOG	PULL_RESP: Protocol version = 02, Token = 9c27, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3432182721, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 65, 'data': 'oAAAAAAASgfgT59LU4ASfQbSW/7FeZzJDdjSboEuBK65sxGNS41T9EPAFSxggOUMdX7IHOQ2umXWlyxlIcEO+To='}}
0:00:39.109176	LOG	Server ----------> DUT
0:00:39.112177	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:39.116180	LOG	Step 06
0:00:39.119176	LOG	Check ACK bit in next uplink process starts
0:00:41.210457	LOG	GPS Time updated: 1385121864243
0:00:41.212495	LOG	PULL_DATA: 02 b045 02 0016c001ff1025bf
0:00:41.213495	LOG	PULL_ACK: 02 b045 04
0:00:48.965842	LOG	First uplink received. Open reception window.
0:00:49.080343	LOG	PUSH_ACK: 02 cfb6 01
0:00:49.082310	LOG	GPS Time from gateway: 1385121872003
0:00:49.083309	LOG	PUSH_DATA: Protocol version = 02, Token = cfb6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3441182240, 'time': '2023-11-27T12:04:13.003859Z', 'tmms': 1385121872003, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 8.5, 'foff': -3367, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAoAoC8LhDZD0vEmMd3Ys='}]}
0:00:49.084310	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0aa0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 631ddd8b)
0:00:49.086311	LOG	Server <---------- DUT
0:00:49.087310	LOG	Oversized frame was sent. ACK bit received in uplink is set to 0
0:00:49.090312	LOG	Check ACK bit in next uplink tested successfully
0:00:49.101457	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:49.104489	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 074b, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 2d00a426)
0:00:49.106489	LOG	Frame command sent to the DUT
0:00:49.107489	LOG	PULL_RESP: Protocol version = 02, Token = 0157, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3443182240, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 65, 'data': 'oAAAAAAASwfg6/yiSWpfo7TgelBzCQxki7DA6JF58cd2Xmdr4SGGIiFoX64GRUs5SYT/vgrFb0Nhz32n7S0ApCY='}}
0:00:49.109489	LOG	Server ----------> DUT
0:00:49.111493	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:49.116458	LOG	Step 07
0:00:49.118491	LOG	Check ACK bit in next uplink process starts
0:00:51.421328	LOG	GPS Time updated: 1385121874459
0:00:51.422331	LOG	PULL_DATA: 02 2002 02 0016c001ff1025bf
0:00:51.424334	LOG	PULL_ACK: 02 2002 04
0:00:58.965006	LOG	Multiple frames received. Selecting the correct frame...
0:00:58.966984	LOG	Frame selected: {'jver': 1, 'tmst': 3451181726, 'time': '2023-11-27T12:04:23.003346Z', 'tmms': 1385121882003, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.8, 'foff': -3364, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAoQoC7IrGETAsSDFFGDk='}

0:00:58.967975	LOG	First uplink received. Open reception window.
0:00:59.079608	LOG	PUSH_ACK: 02 c21d 01
0:00:59.081570	LOG	GPS Time from gateway: 1385121882003
0:00:59.082571	LOG	PUSH_DATA: Protocol version = 02, Token = c21d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3451181726, 'time': '2023-11-27T12:04:23.003346Z', 'tmms': 1385121882003, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.8, 'foff': -3364, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAoQoC7IrGETAsSDFFGDk='}, {'jver': 1, 'tmst': 3451181735, 'time': '2023-11-27T12:04:23.003354Z', 'tmms': 1385121882003, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -126, 'lsnr': -13.8, 'foff': -3395, 'rssi': -113, 'size': 20, 'data': 'QAAAAACAoQoC7IrGETAsSDFFGDk='}]}
0:00:59.083571	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0aa1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 31451839)
0:00:59.085571	LOG	Server <---------- DUT
0:00:59.086603	LOG	Oversized frame was sent. ACK bit received in uplink is set to 0
0:00:59.089591	LOG	Check ACK bit in next uplink tested successfully
0:00:59.092603	LOG	End Test Step: Oversized downlink for datarate SF12BW125
0:00:59.096603	LOG	Partial Verdict: PASS
0:00:59.099603	LOG	==========
0:00:59.103603	LOG	==========
0:00:59.105572	LOG	Start Test Step: Oversized downlink for datarate SF11BW125
0:00:59.116571	LOG	Step 02-03
0:00:59.119571	LOG	Send MAC command block process starts
0:01:01.500704	LOG	GPS Time updated: 1385121884536
0:01:01.502672	LOG	PULL_DATA: 02 3040 02 0016c001ff1025bf
0:01:01.503672	LOG	PULL_ACK: 02 3040 04
0:01:03.969284	LOG	Multiple frames received. Selecting the correct frame...
0:01:03.971253	LOG	Frame selected: {'jver': 1, 'tmst': 3456181470, 'time': '2023-11-27T12:04:28.003088Z', 'tmms': 1385121887002, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.0, 'foff': -3360, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAogoC1V9XvUcTA9VgxJk='}
0:01:03.972253	LOG	First uplink received. Open reception window.
0:01:04.078475	LOG	PUSH_ACK: 02 c50e 01
0:01:04.080477	LOG	GPS Time from gateway: 1385121887002
0:01:04.081477	LOG	PUSH_DATA: Protocol version = 02, Token = c50e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3456181469, 'time': '2023-11-27T12:04:28.003087Z', 'tmms': 1385121887002, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -124, 'lsnr': -11.8, 'foff': -3359, 'rssi': -113, 'size': 20, 'data': 'QAAAAACAogoC1V9XvUcTA9VgxJk='}, {'jver': 1, 'tmst': 3456181470, 'time': '2023-11-27T12:04:28.003088Z', 'tmms': 1385121887002, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.0, 'foff': -3360, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAogoC1V9XvUcTA9VgxJk='}]}
0:01:04.082477	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0aa2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d560c499)
0:01:04.084478	LOG	Server <---------- DUT
0:01:04.086476	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 074c, FOpts:), FPort: 00, FRMPayload: 03100700010501d2ad84), MIC: 1e623fa6)
0:01:04.088477	LOG	PULL_RESP: Protocol version = 02, Token = 922c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3458181470, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAATAcAHSueTlhfPNL1xR5iP6Y='}}
0:01:04.089477	LOG	Server ----------> DUT
0:01:04.093589	LOG	TX_ACK: 02 922c 05 0016c001ff1025bf

0:01:08.462426	LOG	First uplink received. Open reception window.
0:01:08.568628	LOG	PUSH_ACK: 02 38d7 01
0:01:08.570595	LOG	GPS Time from gateway: 1385121891507
0:01:08.571591	LOG	PUSH_DATA: Protocol version = 02, Token = 38d7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3460685847, 'time': '2023-11-27T12:04:32.507465Z', 'tmms': 1385121891507, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.0, 'foff': -3374, 'rssi': -50, 'size': 24, 'data': 'QAAAAACEowoDBwUHApompZIY3xSSeVCP'}]}
0:01:08.573593	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0aa3, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 9279508f)
0:01:08.574592	LOG	Server <---------- DUT
0:01:08.576591	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:08.577591	LOG	Command Answer: 03070507
0:01:08.632020	LOG	MAC command communication completed
0:01:08.636019	LOG	Step 03
0:01:08.647025	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:08.650022	LOG	MAC Command LinkADRAns received
0:01:08.651022	LOG	MAC Command RXParamSetupAns received
0:01:08.653531	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 074d, FOpts:), FPort: e0, FRMPayload: 07020101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c11bc17e)
0:01:08.654530	LOG	Frame command sent to the DUT
0:01:08.656532	LOG	PULL_RESP: Protocol version = 02, Token = aa5d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3461685847, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 65, 'data': 'YAAAAAAATQfgU+qyy6U7Ug155w1LBilrsV6Vq72hGFJto9KOuGlXgwCy5za8akuioFL0qV8az5ZE9soRoMEbwX4='}}
0:01:08.657531	LOG	Server ----------> DUT
0:01:08.660531	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:08.664294	LOG	Step 04
0:01:08.666336	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:01:11.610329	LOG	GPS Time updated: 1385121894655
0:01:11.612329	LOG	PULL_DATA: 02 0fef 02 0016c001ff1025bf
0:01:11.613330	LOG	PULL_ACK: 02 0fef 04
0:01:13.380249	LOG	First uplink received. Open reception window.
0:01:13.493506	LOG	PUSH_ACK: 02 1c4a 01
0:01:13.495475	LOG	GPS Time from gateway: 1385121896424
0:01:13.496474	LOG	PUSH_DATA: Protocol version = 02, Token = 1c4a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3465603684, 'time': '2023-11-27T12:04:37.425300Z', 'tmms': 1385121896424, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.2, 'foff': -3361, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCpAoFBwKHy8XUx334gtpUYQ=='}]}
0:01:13.497475	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0aa4, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 82da5461)
0:01:13.499475	LOG	Server <---------- DUT
0:01:13.500475	LOG	MAC Command RXParamSetupAns received
0:01:13.502475	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 074e, FOpts:), FPort: , FRMPayload:), MIC: 14e7e54b)
0:01:13.503474	LOG	PULL_RESP: Protocol version = 02, Token = 000a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3466603684, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 12, 'data': 'YAAAAAAATgcU5+VL'}}

0:01:13.505477	LOG	Server ----------> DUT
0:01:13.507475	LOG	TX_ACK: 02 000a 05 0016c001ff1025bf
0:01:18.377727	LOG	First uplink received. Open reception window.
0:01:18.480218	LOG	PUSH_ACK: 02 d778 01
0:01:18.482187	LOG	GPS Time from gateway: 1385121901424
0:01:18.483187	LOG	PUSH_DATA: Protocol version = 02, Token = d778, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3470603351, 'time': '2023-11-27T12:04:42.424968Z', 'tmms': 1385121901424, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.8, 'foff': -3359, 'rssi': -51, 'size': 20, 'data': 'QAAAAACApQoCo3XLFq97lWh2aOc='}]}
0:01:18.484186	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0aa5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 687668e7)
0:01:18.485187	LOG	Server <---------- DUT
0:01:18.489186	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:01:18.499014	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:18.502979	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 074f, FOpts:), FPort: e0, FRMPayload: 0702010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: fcdf7f3d)
0:01:18.504978	LOG	Frame command sent to the DUT
0:01:18.505978	LOG	PULL_RESP: Protocol version = 02, Token = 7824, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3472603351, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 65, 'data': 'YAAAAAAATwfguMaQQ3OeF37xJ1wfImUFjfb0s7oW7tcs3CbO3AdnxzJzaCitUa2MLU/8vFs1eCL5joo6Avzffz0='}}
0:01:18.506978	LOG	Server ----------> DUT
0:01:18.509983	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:18.514027	LOG	Step 05
0:01:18.516978	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:01:21.650711	LOG	GPS Time updated: 1385121904696
0:01:21.651710	LOG	PULL_DATA: 02 5d88 02 0016c001ff1025bf
0:01:21.652715	LOG	PULL_ACK: 02 5d88 04
0:01:23.377755	LOG	First uplink received. Open reception window.
0:01:23.492108	LOG	PUSH_ACK: 02 bdce 01
0:01:23.494072	LOG	GPS Time from gateway: 1385121906424
0:01:23.495072	LOG	PUSH_DATA: Protocol version = 02, Token = bdce, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3475603106, 'time': '2023-11-27T12:04:47.424722Z', 'tmms': 1385121906424, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.8, 'foff': -3367, 'rssi': -50, 'size': 20, 'data': 'QAAAAACApgoCjcvQeBwqmFiR8mA='}]}
0:01:23.496072	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0aa6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5891f260)
0:01:23.498072	LOG	Server <---------- DUT
0:01:23.501074	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:01:23.512071	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:23.516073	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0750, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: ea4499ae)
0:01:23.518070	LOG	Frame command sent to the DUT
0:01:23.520073	LOG	PULL_RESP: Protocol version = 02, Token = fe08, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3476603106, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 65, 'data':

		'oAAAAAAAUAfglz4JztJE2kqhtXlDcLnyXZSm7671ydlVdQY2O9/fqWml6rTceRH7qSkIHt4s4+sQWag59epEma4='}}
0:01:23.521105	LOG	Server ----------> DUT
0:01:23.524096	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:23.527107	LOG	Step 06
0:01:23.530139	LOG	Check ACK bit in next uplink process starts
0:01:28.375836	LOG	#**********CURRENT BEACON SENT**********#
0:01:28.376860	LOG	PULL_RESP: Protocol version = 02, Token = 9f40, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385121920000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACASI9SJRgAAAAAAAAAAA='}}
0:01:28.378878	LOG	Server ----------> DUT
0:01:28.379828	LOG	#**********#
0:01:28.389830	LOG	#**********NEXT BEACON QUEUED**********#
0:01:28.390835	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385122048000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAASY9SLfIAAAAAAAAAAA='}}
0:01:28.391860	LOG	Server ----------> DUT
0:01:28.393831	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 00498f52, CRC1: 2df2, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385122048000
0:01:28.394829	LOG	#**********#
0:01:28.395829	LOG	Next BEACON scheduled at GPS time (ms): 1385122176000
0:01:28.397865	LOG	First uplink received. Open reception window.
0:01:28.398861	LOG	TX_ACK: 02 9f40 05 0016c001ff1025bf
0:01:28.509028	LOG	PUSH_ACK: 02 47c1 01
0:01:28.510997	LOG	GPS Time from gateway: 1385121911424
0:01:28.511997	LOG	PUSH_DATA: Protocol version = 02, Token = 47c1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3480602843, 'time': '2023-11-27T12:04:52.424458Z', 'tmms': 1385121911424, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.5, 'foff': -3361, 'rssi': -51, 'size': 20, 'data': 'QAAAAACApwoCe1dN9tcxV2FI99k='}]}
0:01:28.513029	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0aa7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6148f7d9)
0:01:28.515000	LOG	Server <---------- DUT
0:01:28.516030	LOG	Oversized frame was sent. ACK bit received in uplink is set to 0
0:01:28.519033	LOG	Check ACK bit in next uplink tested successfully
0:01:28.529888	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:28.533856	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0751, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 3b97b85e)
0:01:28.535884	LOG	Frame command sent to the DUT
0:01:28.536888	LOG	PULL_RESP: Protocol version = 02, Token = f09c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3482602843, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 65, 'data': 'oAAAAAAAUQfgYmzZWGK4G7qofFpCtjMeP0xoBTZBgdu6HSJQ00ertancw2mt4vHmoUtSGT3j0H2inU1kdTuXuF4='}}
0:01:28.537888	LOG	Server ----------> DUT
0:01:28.540857	LOG	Send Test Command TxFramesCtrlReq process completed

0:01:28.544900	LOG	Step 07
0:01:28.547856	LOG	Check ACK bit in next uplink process starts
0:01:31.690392	LOG	GPS Time updated: 1385121914716
0:01:31.691390	LOG	PULL_DATA: 02 2d67 02 0016c001ff1025bf
0:01:31.693390	LOG	PULL_ACK: 02 2d67 04
0:01:33.375920	LOG	First uplink received. Open reception window.
0:01:33.478526	LOG	PUSH_ACK: 02 c3ef 01
0:01:33.480032	LOG	GPS Time from gateway: 1385121916423
0:01:33.481034	LOG	PUSH_DATA: Protocol version = 02, Token = c3ef, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3485602589, 'time': '2023-11-27T12:04:57.424203Z', 'tmms': 1385121916423, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 8.8, 'foff': -3366, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAqAoC78yBjfzeLeMfwvc='}]}
0:01:33.483034	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0aa8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e31fc2f7)
0:01:33.484035	LOG	Server <---------- DUT
0:01:33.486035	LOG	Oversized frame was sent. ACK bit received in uplink is set to 0
0:01:33.488067	LOG	Check ACK bit in next uplink tested successfully
0:01:33.491066	LOG	End Test Step: Oversized downlink for datarate SF11BW125
0:01:33.495067	LOG	Partial Verdict: PASS
0:01:33.499033	LOG	==========
0:01:33.504067	LOG	==========
0:01:33.506068	LOG	Start Test Step: Oversized downlink for datarate SF10BW125
0:01:33.516035	LOG	Step 02-03
0:01:33.519876	LOG	Send MAC command block process starts
0:01:38.374525	LOG	First uplink received. Open reception window.
0:01:38.478329	LOG	PUSH_ACK: 02 85f3 01
0:01:38.480295	LOG	GPS Time from gateway: 1385121921423
0:01:38.481295	LOG	PUSH_DATA: Protocol version = 02, Token = 85f3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3490602334, 'time': '2023-11-27T12:05:02.423946Z', 'tmms': 1385121921423, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.0, 'foff': -3361, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAqQoCAEReNpbky9r8r8M='}]}
0:01:38.483296	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0aa9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: dafcafc3)
0:01:38.484296	LOG	Server <---------- DUT
0:01:38.485847	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0752, FOpts:), FPort: 00, FRMPayload: 03200700010502d2ad84), MIC: f15f13af)
0:01:38.487805	LOG	PULL_RESP: Protocol version = 02, Token = 1d0b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3492602334, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAUgcAeX4CiFPV3kWgbfFfE68='}}
0:01:38.488839	LOG	Server ----------> DUT
0:01:38.491613	LOG	TX_ACK: 02 1d0b 05 0016c001ff1025bf
0:01:41.859921	LOG	GPS Time updated: 1385121924909
0:01:41.861921	LOG	PULL_DATA: 02 304a 02 0016c001ff1025bf
0:01:41.862922	LOG	PULL_ACK: 02 304a 04
0:01:43.003681	LOG	First uplink received. Open reception window.
0:01:43.114234	LOG	PUSH_ACK: 02 0268 01
0:01:43.116201	LOG	GPS Time from gateway: 1385121926052
0:01:43.117232	LOG	PUSH_DATA: Protocol version = 02, Token = 0268, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3495231637, 'time': '2023-11-27T12:05:07.053250Z', 'tmms': 1385121926052, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 15.0, 'foff': -3363, 'rssi': -50, 'size': 24, 'data': 'QAAAAACEqgoDBwUHApC7u6V00lDgxYCx'}]}

0:01:43.119211	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0aaa, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: e0c580b1)
0:01:43.120232	LOG	Server <---------- DUT
0:01:43.122256	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:43.123231	LOG	Command Answer: 03070507
0:01:43.176186	LOG	MAC command communication completed
0:01:43.180185	LOG	Step 03
0:01:43.191406	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:43.194439	LOG	MAC Command LinkADRAns received
0:01:43.196439	LOG	MAC Command RXParamSetupAns received
0:01:43.197439	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0753, FOpts:), FPort: e0, FRMPayload: 0702010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c3855d63)
0:01:43.199408	LOG	Frame command sent to the DUT
0:01:43.200438	LOG	PULL_RESP: Protocol version = 02, Token = 4e6c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3496231637, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 65, 'data': 'YAAAAAAAUwfg//EEwvajC297/A3uBVwCy0Gcm+HIKxPPVdjqnReo0qQANlxAUm8PIbzvMdJXYmiTjJzpesOFXWM='}}
0:01:43.202442	LOG	Server ----------> DUT
0:01:43.204439	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:43.208441	LOG	Step 04
0:01:43.211417	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:01:48.002080	LOG	First uplink received. Open reception window.
0:01:48.103894	LOG	PUSH_ACK: 02 8831 01
0:01:48.105896	LOG	GPS Time from gateway: 1385121931052
0:01:48.106895	LOG	PUSH_DATA: Protocol version = 02, Token = 8831, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3500231349, 'time': '2023-11-27T12:05:12.052961Z', 'tmms': 1385121931052, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.0, 'foff': -3363, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCqwoFBwJvyDTzzey6rhZO7g==}]}
0:01:48.107896	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0aab, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: ae164eee)
0:01:48.109896	LOG	Server <---------- DUT
0:01:48.110896	LOG	MAC Command RXParamSetupAns received
0:01:48.112894	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0754, FOpts:), FPort: , FRMPayload:), MIC: d7615dc4)
0:01:48.114896	LOG	PULL_RESP: Protocol version = 02, Token = f4cc, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3501231349, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 12, 'data': 'YAAAAAAAVAfXYV3E'}}
0:01:48.115897	LOG	Server ----------> DUT
0:01:48.118628	LOG	TX_ACK: 02 f4cc 05 0016c001ff1025bf
0:01:51.900149	LOG	GPS Time updated: 1385121934950
0:01:51.901116	LOG	PULL_DATA: 02 c2a4 02 0016c001ff1025bf
0:01:51.903118	LOG	PULL_ACK: 02 c2a4 04
0:01:53.002125	LOG	First uplink received. Open reception window.
0:01:53.115996	LOG	PUSH_ACK: 02 7bac 01
0:01:53.117996	LOG	GPS Time from gateway: 1385121936052
0:01:53.118999	LOG	PUSH_DATA: Protocol version = 02, Token = 7bac, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3505231002, 'time': '2023-11-27T12:05:17.052613Z', 'tmms': 1385121936052, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.8, 'foff': -3365, 'rssi': -50, 'size': 20, 'data': 'QAAAAACArAoCJqP0Z5Ag46TrS/U='}]}
0:01:53.120002	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0aac, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a4eb4bf5)
0:01:53.121964	LOG	Server <---------- DUT
0:01:53.124965	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:01:53.136060	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:53.139093	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0755, FOpts:), FPort: e0, FRMPayload: 0702010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: eedf1ad6)
0:01:53.141093	LOG	Frame command sent to the DUT
0:01:53.142093	LOG	PULL_RESP: Protocol version = 02, Token = 6969, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3507231002, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 65, 'data': 'YAAAAAAAVQfgaxx/XOsz6p+sKOM5VN5J7Nbt59QG6IJ/pE67dCyu/3LxUVuXXWK0LVv4U9HBxYV5zyum2+7fGtY='}}
0:01:53.143095	LOG	Server ----------> DUT
0:01:53.146086	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:53.150061	LOG	Step 05
0:01:53.153124	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:01:58.007994	LOG	First uplink received. Open reception window.
0:01:58.118715	LOG	PUSH_ACK: 02 9aa4 01
0:01:58.120683	LOG	GPS Time from gateway: 1385121941051
0:01:58.121683	LOG	PUSH_DATA: Protocol version = 02, Token = 9aa4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3510230738, 'time': '2023-11-27T12:05:22.052346Z', 'tmms': 1385121941051, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3368, 'rssi': -50, 'size': 20, 'data': 'QAAAAACArQoC09yVpvSPoeA4G9E='}]}
0:01:58.122683	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0aad, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e0381bd1)
0:01:58.124684	LOG	Server <---------- DUT
0:01:58.127231	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:01:58.137802	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:58.140835	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0756, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 20f46712)
0:01:58.142836	LOG	Frame command sent to the DUT
0:01:58.143812	LOG	PULL_RESP: Protocol version = 02, Token = 0e0d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3511230738, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 65, 'data': 'oAAAAAAAVgfg2JK66UgZ4hTvr+ZQZtBL6egJTI0zev1xsdyOsnCPhDmW9kIS5C+nNqr5+rRxvmhCh+Ag7yD0ZxI='}}
0:01:58.145839	LOG	Server ----------> DUT
0:01:58.147837	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:58.151803	LOG	Step 06
0:01:58.154824	LOG	Check ACK bit in next uplink process starts
0:02:01.920429	LOG	GPS Time updated: 1385121944964
0:02:01.922397	LOG	PULL_DATA: 02 c371 02 0016c001ff1025bf
0:02:01.923396	LOG	PULL_ACK: 02 c371 04
0:02:03.003114	LOG	First uplink received. Open reception window.
0:02:03.115103	LOG	PUSH_ACK: 02 1c20 01
0:02:03.117071	LOG	GPS Time from gateway: 1385121946051

0:02:03.118070	LOG	PUSH_DATA: Protocol version = 02, Token = 1c20, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3515230481, 'time': '2023-11-27T12:05:27.052091Z', 'tmms': 1385121946051, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3368, 'rssi': -50, 'size': 20, 'data': 'QAAAAACArgoC8TyE01Bmqqlr6Pg='}]}
0:02:03.119070	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0aae, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a96be8f8)
0:02:03.121071	LOG	Server <---------- DUT
0:02:03.122071	LOG	Oversized frame was sent. ACK bit received in uplink is set to 0
0:02:03.125074	LOG	Check ACK bit in next uplink tested successfully
0:02:03.135916	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:03.138950	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0757, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: b36aa4db)
0:02:03.140948	LOG	Frame command sent to the DUT
0:02:03.141917	LOG	PULL_RESP: Protocol version = 02, Token = 6ff4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3517230481, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 65, 'data': 'oAAAAAAAVwfg4GJ6YIeNjZcP29FbBW3FB6clA7N2mJ1SHH7qLJ1Rn3FNk+J1KLmwzDQbEMX8lEKLgsagp7NqpNs='}}
0:02:03.142951	LOG	Server ----------> DUT
0:02:03.145917	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:03.149921	LOG	Step 07
0:02:03.152916	LOG	Check ACK bit in next uplink process starts
0:02:08.000198	LOG	First uplink received. Open reception window.
0:02:08.115235	LOG	PUSH_ACK: 02 f9d9 01
0:02:08.117204	LOG	GPS Time from gateway: 1385121951051
0:02:08.118203	LOG	PUSH_DATA: Protocol version = 02, Token = f9d9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3520230224, 'time': '2023-11-27T12:05:32.051833Z', 'tmms': 1385121951051, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3367, 'rssi': -50, 'size': 20, 'data': 'QAAAAACArwoC2c7Kei4kHzd/qyo='}]}
0:02:08.119203	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0aaf, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 377fab2a)
0:02:08.120203	LOG	Server <---------- DUT
0:02:08.122203	LOG	Oversized frame was sent. ACK bit received in uplink is set to 0
0:02:08.124804	LOG	Check ACK bit in next uplink tested successfully
0:02:08.126846	LOG	End Test Step: Oversized downlink for datarate SF10BW125
0:02:08.130846	LOG	Partial Verdict: PASS
0:02:08.134846	LOG	==========
0:02:08.139374	LOG	==========
0:02:08.141163	LOG	Start Test Step: Oversized downlink for datarate SF9BW125
0:02:08.151188	LOG	Step 02-03
0:02:08.155205	LOG	Send MAC command block process starts
0:02:11.959695	LOG	GPS Time updated: 1385121955010
0:02:11.961695	LOG	PULL_DATA: 02 eeec 02 0016c001ff1025bf
0:02:11.962698	LOG	PULL_ACK: 02 eeec 04
0:02:13.000929	LOG	First uplink received. Open reception window.
0:02:13.112451	LOG	PUSH_ACK: 02 5136 01
0:02:13.114419	LOG	GPS Time from gateway: 1385121956051
0:02:13.115418	LOG	PUSH_DATA: Protocol version = 02, Token = 5136, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3525229965, 'time': '2023-11-27T12:05:37.051573Z', 'tmms': 1385121956051, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.8, 'foff': -3369, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAsAoCqOrChrlT/gcHQ+o='}]}
0:02:13.116923	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0ab0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 070743ea)
0:02:13.118929	LOG	Server <-------------------- DUT
0:02:13.119929	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0758, FOpts:), FPort: 00, FRMPayload: 03300700010503d2ad84), MIC: 671ce05d)
0:02:13.121929	LOG	PULL_RESP: Protocol version = 02, Token = 36f7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3527229965, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAWAcA4WodvCr/dVSZTWcc4F0='}}
0:02:13.123929	LOG	Server --------------------> DUT
0:02:13.126944	LOG	TX_ACK: 02 36f7 05 0016c001ff1025bf
0:02:17.837036	LOG	First uplink received. Open reception window.
0:02:17.943680	LOG	PUSH_ACK: 02 9d71 01
0:02:17.945648	LOG	GPS Time from gateway: 1385121960886
0:02:17.946680	LOG	PUSH_DATA: Protocol version = 02, Token = 9d71, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3530064953, 'time': '2023-11-27T12:05:41.886560Z', 'tmms': 1385121960886, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.8, 'foff': -3369, 'rssi': -51, 'size': 24, 'data': 'QAAAAACEsQoDBwUHAm7kaQluQeDNrVNr'}]}
0:02:17.948684	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0ab1, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: cdad536b)
0:02:17.949681	LOG	Server <-------------------- DUT
0:02:17.951676	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:17.952682	LOG	Command Answer: 03070507
0:02:18.006662	LOG	MAC command communication completed
0:02:18.011910	LOG	Step 03
0:02:18.024179	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:18.027718	LOG	MAC Command LinkADRAns received
0:02:18.029715	LOG	MAC Command RXParamSetupAns received
0:02:18.030716	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0759, FOpts:), FPort: e0, FRMPayload: 070201), MIC: 1b7ea651)
0:02:18.032691	LOG	Frame command sent to the DUT
0:02:18.033722	LOG	PULL_RESP: Protocol version = 02, Token = 08bf, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3531064953, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 129, 'data': 'YAAAAAAAWQfgZJHJgQr5DO9f0kehdNElzghTLqKVUqmDnY5yUVn0/YKgtoC8tCTy+YxViWuql2qzLO3joeOzu/S0X44fTcULg98EH0G1f35FiKmFZvtb/p7orfrIa1nsPTeOGNvkx6cgahN2TPfE4yQjwAzfIL6uEJvJqP4bfqZR'}}
0:02:18.035689	LOG	Server --------------------> DUT
0:02:18.037722	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:18.041726	LOG	Step 04
0:02:18.044724	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:02:22.020243	LOG	GPS Time updated: 1385121965069
0:02:22.022211	LOG	PULL_DATA: 02 6e22 02 0016c001ff1025bf
0:02:22.023212	LOG	PULL_ACK: 02 6e22 04
0:02:22.840133	LOG	First uplink received. Open reception window.

0:02:22.953305	LOG	PUSH_ACK: 02 649e 01
0:02:22.955306	LOG	GPS Time from gateway: 1385121965885
0:02:22.957307	LOG	PUSH_DATA: Protocol version = 02, Token = 649e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3535064678, 'time': '2023-11-27T12:05:46.886283Z', 'tmms': 1385121965885, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.5, 'foff': -3370, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCsgoFBwK+Ji88ehIjTcZDtw=='}]}
0:02:22.958307	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0ab2, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 4dc643b7)
0:02:22.959274	LOG	Server <-------------------- DUT
0:02:22.961287	LOG	MAC Command RXParamSetupAns received
0:02:22.963309	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 075a, FOpts:), FPort: , FRMPayload:), MIC: 873f084c)
0:02:22.964307	LOG	PULL_RESP: Protocol version = 02, Token = a2f0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3536064678, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 12, 'data': 'YAAAAAAAWgeHPwhM'}}
0:02:22.966302	LOG	Server --------------------> DUT
0:02:22.969316	LOG	TX_ACK: 02 a2f0 05 0016c001ff1025bf
0:02:27.811822	LOG	First uplink received. Open reception window.
0:02:27.912362	LOG	PUSH_ACK: 02 6c66 01
0:02:27.914362	LOG	GPS Time from gateway: 1385121970865
0:02:27.915363	LOG	PUSH_DATA: Protocol version = 02, Token = 6c66, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3540043877, 'time': '2023-11-27T12:05:51.865483Z', 'tmms': 1385121970865, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.5, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAswoCuk3iEZRJwI+X+Dg='}]}
0:02:27.916408	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0ab3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8f97f838)
0:02:27.918382	LOG	Server <-------------------- DUT
0:02:27.921369	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:02:27.932198	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:27.935207	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 075b, FOpts:), FPort: e0, FRMPayload: 0702010101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101), MIC: 4554a1f5)
0:02:27.937230	LOG	Frame command sent to the DUT
0:02:27.938230	LOG	PULL_RESP: Protocol version = 02, Token = 804b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3542043877, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 129, 'data': 'YAAAAAAAWwfg8RnngVyP+hKRG/q+mLDkPmXVd5sakbr/xFm5B7dfMWTVCG4iftQo4ic71gPichAHlaT/2eow0GZbalP7a5PNBJHuwLnog65anBx622b+TYRE9uoxcmyha+WCA+Uv7pCITZ3ThxaJASmuWR6fjwvgHnlxdb1FVKH1'}}
0:02:27.939229	LOG	Server --------------------> DUT
0:02:27.942198	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:27.946200	LOG	Step 05
0:02:27.949197	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:02:32.140418	LOG	GPS Time updated: 1385121975195
0:02:32.141418	LOG	PULL_DATA: 02 068e 02 0016c001ff1025bf
0:02:32.143422	LOG	PULL_ACK: 02 068e 04
0:02:32.819771	LOG	First uplink received. Open reception window.
0:02:32.924357	LOG	PUSH_ACK: 02 3a8f 01
0:02:32.926365	LOG	GPS Time from gateway: 1385121975864

0:02:32.927359	LOG	PUSH_DATA: Protocol version = 02, Token = 3a8f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3545043643, 'time': '2023-11-27T12:05:56.865248Z', 'tmms': 1385121975864, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.0, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAtAoCH0Jnj7tIUPNeg8Y='}]}
0:02:32.928358	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0ab4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f35e83c6)
0:02:32.929359	LOG	Server <-------------------- DUT
0:02:32.932725	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:02:32.943319	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:32.947319	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 075c, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 36455227)
0:02:32.949321	LOG	Frame command sent to the DUT
0:02:32.950351	LOG	PULL_RESP: Protocol version = 02, Token = 2971, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3546043643, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 129, 'data': 'oAAAAAAAXAfgGiAcNSHIrgAgJZCw196DXtHzS80MwdyTGsK25OP3bD5RzwB+TfVyIyfEcYpk6xrKc4PUXKAZpok4l9C4+JuVkDJpsodG745AKYYzJgJVkt0Kd1peKIMtGPDGwEKEgBosP3y88PTBHwKsCLUuL1Xp3zgkz6c2RVIn'}}
0:02:32.952355	LOG	Server --------------------> DUT
0:02:32.954351	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:32.959321	LOG	Step 06
0:02:32.961890	LOG	Check ACK bit in next uplink process starts
0:02:37.810652	LOG	First uplink received. Open reception window.
0:02:37.913896	LOG	PUSH_ACK: 02 bffc 01
0:02:37.915900	LOG	GPS Time from gateway: 1385121980864
0:02:37.916897	LOG	PUSH_DATA: Protocol version = 02, Token = bffc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3550043390, 'time': '2023-11-27T12:06:01.864994Z', 'tmms': 1385121980864, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 11.5, 'foff': -3373, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAtQoCKNX/3bjHb8Lx7Xw='}]}
0:02:37.917900	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0ab5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c2f1ed7c)
0:02:37.918897	LOG	Server <-------------------- DUT
0:02:37.920864	LOG	Oversized frame was sent. ACK bit received in uplink is set to 0
0:02:37.922865	LOG	Check ACK bit in next uplink tested successfully
0:02:37.935056	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:37.938514	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 075d, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 62d6497c)
0:02:37.940093	LOG	Frame command sent to the DUT
0:02:37.941131	LOG	PULL_RESP: Protocol version = 02, Token = 1eba, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3552043390, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 129, 'data': 'oAAAAAAAXQfgHhlhwWpPHHfyGFIft3oSLytvobPxDaOIrz+0IUlCBxBUmsOSC5q1ILMSb7L30G08/wOsSY3Y9jJ5a76NIUlyNWiRJRgrkOyJaWKDL692XKSh6GCeQIRTm4EXa2adq8skXSjjY8CieXXXtdw7U/Fd22bBmwhi1kl8'}}
0:02:37.943131	LOG	Server --------------------> DUT

0:02:37.945136	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:37.950173	LOG	Step 07
0:02:37.953104	LOG	Check ACK bit in next uplink process starts
0:02:42.350140	LOG	GPS Time updated: 1385121985403
0:02:42.351140	LOG	PULL_DATA: 02 333a 02 0016c001ff1025bf
0:02:42.352122	LOG	PULL_ACK: 02 333a 04
0:02:42.818336	LOG	First uplink received. Open reception window.
0:02:42.928959	LOG	PUSH_ACK: 02 a9cd 01
0:02:42.930965	LOG	GPS Time from gateway: 1385121985864
0:02:42.931996	LOG	PUSH_DATA: Protocol version = 02, Token = a9cd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3555043150, 'time': '2023-11-27T12:06:06.864753Z', 'tmms': 1385121985864, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 12.2, 'foff': -3373, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAtgoCTbxW3l8gP1Q8kN8='}]}
0:02:42.932996	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0ab6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 543c90df)
0:02:42.933996	LOG	Server <---------- DUT
0:02:42.935966	LOG	Oversized frame was sent. ACK bit received in uplink is set to 0
0:02:42.938980	LOG	Check ACK bit in next uplink tested successfully
0:02:42.941998	LOG	End Test Step: Oversized downlink for datarate SF9BW125
0:02:42.945570	LOG	Partial Verdict: PASS
0:02:42.949566	LOG	==========
0:02:42.954539	LOG	==========
0:02:42.956540	LOG	Start Test Step: Oversized downlink for datarate SF8BW125
0:02:42.967572	LOG	Step 02-03
0:02:42.971537	LOG	Send MAC command block process starts
0:02:47.812738	LOG	First uplink received. Open reception window.
0:02:47.928382	LOG	PUSH_ACK: 02 3ffa 01
0:02:47.930349	LOG	GPS Time from gateway: 1385121990864
0:02:47.931350	LOG	PUSH_DATA: Protocol version = 02, Token = 3ffa, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3560042902, 'time': '2023-11-27T12:06:11.864504Z', 'tmms': 1385121990864, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.0, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAtwoCFsn8ScyFf953bUg='}]}
0:02:47.932349	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0ab7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: de776d48)
0:02:47.934350	LOG	Server <---------- DUT
0:02:47.936355	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 075e, FOpts:), FPort: 00, FRMPayload: 03400700010504d2ad84), MIC: 47128aa1)
0:02:47.938355	LOG	PULL_RESP: Protocol version = 02, Token = be4a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3562042902, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAXgcAyecabIijLnQCkkcSiqE='}}
0:02:47.939355	LOG	Server ----------> DUT
0:02:47.942096	LOG	TX_ACK: 02 be4a 05 0016c001ff1025bf
0:02:52.559860	LOG	GPS Time updated: 1385121995610
0:02:52.560860	LOG	PULL_DATA: 02 8c38 02 0016c001ff1025bf
0:02:52.562868	LOG	PULL_ACK: 02 8c38 04
0:02:52.742822	LOG	First uplink received. Open reception window.
0:02:52.853557	LOG	PUSH_ACK: 02 d47b 01
0:02:52.855562	LOG	GPS Time from gateway: 1385121995791
0:02:52.856562	LOG	PUSH_DATA: Protocol version = 02, Token = d47b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3564970601, 'time': '2023-11-27T12:06:16.792201Z', 'tmms': 1385121995791, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3369, 'rssi': -51, 'size': 24, 'data': 'QAAAAACEuAoDBwUHAgAUQIqGHIkKsBjm'}]}
0:02:52.857562	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0ab8, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 0ab018e6)
0:02:52.859562	LOG	Server <-------------------- DUT
0:02:52.861562	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:52.862561	LOG	Command Answer: 03070507
0:02:52.916936	LOG	MAC command communication completed
0:02:52.920904	LOG	Step 03
0:02:52.931904	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:52.935905	LOG	MAC Command LinkADRAns received
0:02:52.936936	LOG	MAC Command RXParamSetupAns received
0:02:52.938975	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 075f, FOpts:), FPort: e0, FRMPayload: 070201), MIC: 85bfb4e3)
0:02:52.939974	LOG	Frame command sent to the DUT
0:02:52.941978	LOG	PULL_RESP: Protocol version = 02, Token = 9994, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3565970601, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 256, 'data': 'YAAAAAAAXwfgKDOR+aOx6pYycm2VpAuQhCPSDfXWQuQ8kiBffveoFtF+J8zvqu3IABSkdFPukgPe/ZzcUXXy42YKJzO2Mr1HgVoZSp7eijeBOQ8JxWqMl13bYarybZ/6Stsw8foF+FKfUB5YDQEuSppiZo13iphtaIvik7ZBLUuPb8TRtGfPAlSF1/aV+ag+b1ZcN351/NykIttqQLSeR/WLxMbOaDQDuoCMWLzXHv/l4eefAjzG12h+E9rTkUxWrASAuPYfgVjv3VP9VuIAm6/8FqAu5huxSKRvAzjvr+TUGf6EWWyVra2Z/fFash6wLO/+OOViFvrDvcuGhb+04w=='}}
0:02:52.942975	LOG	Server --------------------> DUT
0:02:52.945976	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:52.949996	LOG	Step 04
0:02:52.952037	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:02:57.728473	LOG	First uplink received. Open reception window.
0:02:57.842499	LOG	PUSH_ACK: 02 2425 01
0:02:57.844464	LOG	GPS Time from gateway: 1385122000781
0:02:57.845468	LOG	PUSH_DATA: Protocol version = 02, Token = 2425, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3569960108, 'time': '2023-11-27T12:06:21.781709Z', 'tmms': 1385122000781, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3369, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCuQoFBwJW5T0tZhBTs6EpjQ=='}]}
0:02:57.846469	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0ab9, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: b3a1298d)
0:02:57.848472	LOG	Server <-------------------- DUT
0:02:57.849469	LOG	MAC Command RXParamSetupAns received
0:02:57.851469	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0760, FOpts:), FPort: , FRMPayload:), MIC: 3099973c)
0:02:57.853470	LOG	PULL_RESP: Protocol version = 02, Token = 65a3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3570960108, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 12, 'data': 'YAAAAAAAYAcwmZc8'}}

0:02:57.854469	LOG	Server --------------------> DUT
0:02:57.857424	LOG	TX_ACK: 02 65a3 05 0016c001ff1025bf
0:03:02.679728	LOG	GPS Time updated: 1385122005732
0:03:02.681712	LOG	PULL_DATA: 02 b1d2 02 0016c001ff1025bf
0:03:02.682697	LOG	PULL_ACK: 02 b1d2 04
0:03:02.730853	LOG	First uplink received. Open reception window.
0:03:02.841822	LOG	PUSH_ACK: 02 a34e 01
0:03:02.842853	LOG	GPS Time from gateway: 1385122005780
0:03:02.844885	LOG	PUSH_DATA: Protocol version = 02, Token = a34e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3574959750, 'time': '2023-11-27T12:06:26.781350Z', 'tmms': 1385122005780, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3370, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAugoCnU4OmnMJ07hIqy4='}]}
0:03:02.845854	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0aba, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b848ab2e)
0:03:02.846852	LOG	Server <-------------------- DUT
0:03:02.850841	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:03:02.861253	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:07.727665	LOG	First uplink received. Open reception window.
0:03:07.841221	LOG	PUSH_ACK: 02 4311 01
0:03:07.843223	LOG	GPS Time from gateway: 1385122010780
0:03:07.844256	LOG	PUSH_DATA: Protocol version = 02, Token = 4311, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3579959488, 'time': '2023-11-27T12:06:31.781087Z', 'tmms': 1385122010780, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAuwoCSZhKr6vk3ZNcekg='}]}
0:03:07.846262	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0abb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 935c7a48)
0:03:07.847259	LOG	Server <-------------------- DUT
0:03:07.849224	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0761, FOpts:), FPort: e0, FRMPayload: 070201), MIC: 5238591e)
0:03:07.851273	LOG	Frame command sent to the DUT
0:03:07.852255	LOG	PULL_RESP: Protocol version = 02, Token = cbe4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3581959488, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 256, 'data': 'YAAAAAAAYQfgPOVpSG/DxahyjnJtN3t7Q5f2cd7pzEcM2hv26DavKdyQ6A3ItgiSMHT3HRyPKsbcqYYPGyP6o9G7TexL1KhkFLbHIOkLFcG5TQbUQFtKHU6e+AeyKozlEQEBi/06ONv83A3Sp8CthvK7N0szjxKNrkCxfmnX9Agz48yVkIqSha/OhCfzw9dfemi2osciCo5z7kyWj/7FC/TBvdLHqxBGqci30xoJYIkKZbguflGQfqplbh9nMHndiYjAeJcy84jRweSoEaJ6IrWmB0SOm2Gp/HgFe+2MtXZcWMlrDi5SGvNBR5YsFCEnk2T1EGywZGGikQMeUjhZHg=='}}
0:03:07.854256	LOG	Server --------------------> DUT
0:03:07.857261	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:07.861262	LOG	Step 05
0:03:07.863294	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:03:12.730090	LOG	First uplink received. Open reception window.
0:03:12.838659	LOG	PUSH_ACK: 02 71a7 01
0:03:12.884270	LOG	GPS Time from gateway: 1385122015780

0:03:12.886272	LOG	PUSH_DATA: Protocol version = 02, Token = 71a7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3584959235, 'time': '2023-11-27T12:06:36.780833Z', 'tmms': 1385122015780, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAvAoC3cguCiRj9wLMQ28='}]}
0:03:12.887272	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0abc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 02cc436f)
0:03:12.889239	LOG	Server <-------------------- DUT
0:03:12.892240	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:03:12.902687	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:12.905718	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0762, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 10101010101010101), MIC: 1559b2f5)
0:03:12.907686	LOG	Frame command sent to the DUT
0:03:12.908685	LOG	PULL_RESP: Protocol version = 02, Token = 224a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3585959235, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 256, 'data': 'oAAAAAAAYgfgpcbrXDDYlVjHDeeCyJpJY9nXyFbtRwegp52xW76zDeeIg+dHzyZR8DyQc/gN4xFLdl2R2+Exf0K/4zIuknFQu4u4gBXDjRwkv5o6G6RbNNE4rcxeSeV2I1O2PAK1H9i0ju1NWoYEsxMzE6upQgxiw3LcAcdXVOfEI9vqU3YnQROqY3JC+if8lglrwcziGnnFW+TJs8SbpkgTvMzbcFQGmHOxC7tYfXOvGpmzk4xuXndIEejAYcRBGiGicliIv+og6bpO7SJAm1hfQOd60xufWz63qPmEm5yS3Vo50YaiA1zKjAdX1gIeGmuC6tRRzb40t/sgFVmy9Q=='}}
0:03:12.910686	LOG	Server --------------------> DUT
0:03:12.912686	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:12.916686	LOG	Step 06
0:03:12.919686	LOG	Check ACK bit in next uplink process starts
0:03:17.733001	LOG	First uplink received. Open reception window.
0:03:17.836362	LOG	PUSH_ACK: 02 6b48 01
0:03:17.838363	LOG	GPS Time from gateway: 1385122020780
0:03:17.839362	LOG	PUSH_DATA: Protocol version = 02, Token = 6b48, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3589958973, 'time': '2023-11-27T12:06:41.780570Z', 'tmms': 1385122020780, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3377, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAvQoCnA7NR6hR9HVMJtY='}]}
0:03:17.840362	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0abd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 754c26d6)
0:03:17.842329	LOG	Server <-------------------- DUT
0:03:17.844332	LOG	Oversized frame was sent. ACK bit received in uplink is set to 0
0:03:17.846364	LOG	Check ACK bit in next uplink tested successfully
0:03:17.857800	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:17.861786	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0763, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101

		01010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: d5e131d9)
0:03:17.862755	LOG	Frame command sent to the DUT
0:03:17.864823	LOG	PULL_RESP: Protocol version = 02, Token = 64a5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3591958973, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 256, 'data': 'oAAAAAAAYwfg58OjBiB6YiqWWcRCnmPP1+VAmBg6JGeWLc1LzUdW1afieOmxbzm/ZyZ8oCMZ4+fk4m6r3YNxKoDNXyva9Xaqr5bLe5t00GE+THOUzrCKfdt9bPtkvDDMtMoPoQU5Z7tYYJHDbqGqDgpI7UqKGen+trbDmUBiFMp+zP5IvvknNPZ/6Cnmkap0KEjmBz4IKAXTRS72p+TgF9VUTUsaXUkoeL2XWoB0zAK82EHEpE1KSix0NkUF+KoT3K89/gm6c6Z1PKi4GvJ7dvm7Nvas8t80/6bnGvbX2Q2fxADYTZUK4Fzr/pJ8+l5zzGhf/oQgMaj6o2q21eEx2Q==')}}
0:03:17.865825	LOG	Server ----------> DUT
0:03:17.867791	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:17.871792	LOG	Step 07
0:03:17.874792	LOG	Check ACK bit in next uplink process starts
0:03:22.724432	LOG	First uplink received. Open reception window.
0:03:22.837028	LOG	PUSH_ACK: 02 452a 01
0:03:22.839063	LOG	GPS Time from gateway: 1385122025779
0:03:22.840063	LOG	PUSH_DATA: Protocol version = 02, Token = 452a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3594958722, 'time': '2023-11-27T12:06:46.780317Z', 'tmms': 1385122025779, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAvgoCi1y6y8/AjQxKXtw='}]}
0:03:22.842032	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0abe, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0c4a5edc)
0:03:22.843032	LOG	Server <---------- DUT
0:03:22.844030	LOG	Oversized frame was sent. ACK bit received in uplink is set to 0
0:03:22.847030	LOG	Check ACK bit in next uplink tested successfully
0:03:22.850030	LOG	End Test Step: Oversized downlink for datarate SF8BW125
0:03:22.854030	LOG	Partial Verdict: PASS
0:03:22.858030	LOG	==========
0:03:22.862824	LOG	==========
0:03:22.864836	LOG	Start Test Step: Oversized downlink for datarate SF7BW125
0:03:22.874838	LOG	Step 02-03
0:03:22.877877	LOG	Send MAC command block process starts
0:03:22.899717	LOG	GPS Time updated: 1385122025953
0:03:22.900717	LOG	PULL_DATA: 02 4478 02 0016c001ff1025bf
0:03:22.902716	LOG	PULL_ACK: 02 4478 04
0:03:27.727976	LOG	First uplink received. Open reception window.
0:03:27.841595	LOG	PUSH_ACK: 02 65ed 01
0:03:27.843594	LOG	GPS Time from gateway: 1385122030779
0:03:27.844597	LOG	PUSH_DATA: Protocol version = 02, Token = 65ed, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3599958451, 'time': '2023-11-27T12:06:51.780047Z', 'tmms': 1385122030779, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAvwoCqzJ1fqtwnbypMF0='}]}
0:03:27.846567	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0abf, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: bca9305d)
0:03:27.847596	LOG	Server <---------- DUT
0:03:27.849566	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0764, FOpts:), FPort: 00, FRMPayload: 03500700010505d2ad84), MIC: 1e770637)
0:03:27.851587	LOG	PULL_RESP: Protocol version = 02, Token = 88b1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3601958451, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAZAcACC+hv6AYJt18cR53Bjc='}}
0:03:27.852595	LOG	Server --------------------> DUT
0:03:27.857563	LOG	TX_ACK: 02 88b1 05 0016c001ff1025bf
0:03:32.685659	LOG	First uplink received. Open reception window.
0:03:32.792806	LOG	PUSH_ACK: 02 4643 01
0:03:32.794313	LOG	GPS Time from gateway: 1385122035738
0:03:32.796354	LOG	PUSH_DATA: Protocol version = 02, Token = 4643, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3604917093, 'time': '2023-11-27T12:06:56.738688Z', 'tmms': 1385122035738, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3377, 'rssi': -50, 'size': 24, 'data': 'QAAAAACEwAoDBwUHAr3hZDKgPHzPu193'}]}
0:03:32.797319	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0ac0, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: cfbb5f77)
0:03:32.798318	LOG	Server <-------------------- DUT
0:03:32.800369	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:03:32.802350	LOG	Command Answer: 03070507
0:03:32.854765	LOG	MAC command communication completed
0:03:32.858797	LOG	Step 03
0:03:32.869408	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:32.872439	LOG	MAC Command LinkADRAns received
0:03:32.874440	LOG	MAC Command RXParamSetupAns received
0:03:32.875407	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0765, FOpts:), FPort: e0, FRMPayload: 07020101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101), MIC: 47886fe5)
0:03:32.877406	LOG	Frame command sent to the DUT
0:03:32.879446	LOG	PULL_RESP: Protocol version = 02, Token = aa8d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3605917093, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 256, 'data': 'YAAAAAAAZQfgqhCYPQMnsCaZJCkkWYOgQlApuY86uC9Fywh6x77s2K610 NZ9cLPtNzUKkhMDkZ1FIGD38PiqHB55zdxDzKvv7aPX3+JnM64oEI/F9BVXw bugubotvVXz6FDevkOb1AoCQmtQ9NHu3pPXYboL3HHvYiI/Cr+JZY2ZubiAF4 e0uV1yRnlHSpHbnXCk/YYv1C0BqV07hWYmWFovMMqTK3xTsg0fUlVlMSB H2jiDSlDJz4P1H9PXvcZTQRzKUr/v/AHvTprsJ5D0HyfJmcYsgtAPfH8PRv6H0u nLfPPwY0h2H2v3257ZuKQqgzjXtCa0dvTltQfER4hv5Q=='}}
0:03:32.880445	LOG	Server --------------------> DUT
0:03:32.882412	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:32.886975	LOG	Step 04
0:03:32.889738	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:03:33.090187	LOG	GPS Time updated: 1385122036142
0:03:33.092186	LOG	PULL_DATA: 02 5985 02 0016c001ff1025bf
0:03:33.094186	LOG	PULL_ACK: 02 5985 04
0:03:37.677432	LOG	#**************************CURRENT BEACON SENT**************************#
0:03:37.679433	LOG	PULL_RESP: Protocol version = 02, Token = 2ea1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385122048000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr':

		'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAASY9SLfIAAAAAAAAAAAA='}}
0:03:37.680437	LOG	Server --------------------> DUT
0:03:37.681442	LOG	#** #
0:03:37.691477	LOG	#****************************NEXT BEACON QUEUED****************************#
0:03:37.693489	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385122176000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACASY9SFS8AAAAAAAAAAAA='}}
0:03:37.694440	LOG	Server --------------------> DUT
0:03:37.695439	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 80498f52, CRC1: 152f, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385122176000
0:03:37.696439	LOG	#** #
0:03:37.697943	LOG	Next BEACON scheduled at GPS time (ms): 1385122304000
0:03:37.699988	LOG	First uplink received. Open reception window.
0:03:37.700984	LOG	TX_ACK: 02 2ea1 05 0016c001ff1025bf
0:03:37.811036	LOG	PUSH_ACK: 02 3ee6 01
0:03:37.813044	LOG	GPS Time from gateway: 1385122040732
0:03:37.814038	LOG	PUSH_DATA: Protocol version = 02, Token = 3ee6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3609911694, 'time': '2023-11-27T12:07:01.733288Z', 'tmms': 1385122040732, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3374, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCwQoFBwJ61tR9kwx4vdzPSA=='}]}
0:03:37.815038	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0ac1, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: bddccf48)
0:03:37.816037	LOG	Server <-------------------- DUT
0:03:37.818038	LOG	MAC Command RXParamSetupAns received
0:03:37.819038	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0766, FOpts:), FPort: , FRMPayload:), MIC: fa0907db)
0:03:37.821038	LOG	PULL_RESP: Protocol version = 02, Token = dde3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3610911694, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 12, 'data': 'YAAAAAAAZgf6CQfb'}}
0:03:37.823038	LOG	Server --------------------> DUT
0:03:37.827038	LOG	TX_ACK: 02 dde3 05 0016c001ff1025bf
0:03:42.676697	LOG	First uplink received. Open reception window.
0:03:42.779308	LOG	PUSH_ACK: 02 bd12 01
0:03:42.781276	LOG	GPS Time from gateway: 1385122045732
0:03:42.782311	LOG	PUSH_DATA: Protocol version = 02, Token = bd12, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3614911338, 'time': '2023-11-27T12:07:06.732931Z', 'tmms': 1385122045732, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAwgoC/NQMvLo9vy4QLZE='}]}
0:03:42.784277	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0ac2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2e102d91)
0:03:42.785311	LOG	Server <-------------------- DUT
0:03:42.788314	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:03:42.800381	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:42.804923	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0767, FOpts:), FPort: e0, FRMPayload: 070201010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010101010

		1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 10101010101010101), MIC: 7760cae0)
0:03:42.805954	LOG	Frame command sent to the DUT
0:03:42.807923	LOG	PULL_RESP: Protocol version = 02, Token = f846, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3616911338, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 256, 'data': 'YAAAAAAAZwfgaEehal9BodyZLWn1M63o0kYzJFDQspLiGioFwTheoBTRnxL+4yZmHwlXWjm+TOgA4gnGSeHlzjBXm96Ho7satJv3DcR1UKtkkAQJRR5x2+UHqJzrZ4FSu/mNBjVUJqQl9ppLS/sWPuoxUKTy0lsjk8Y0//B3EwhWtz3Z8kZQuXXZa95Xbc+eJFA7p8kmogsenmTsy6h4tWcEq/MaKVwE+Le5BtcSxYAryvU4UTT3tKDoJED5LLBcqZ4ZpkRlAi3rXrxqHQIp1LYrI4CbawAak6TyZFWjsT0MnloZ5h6y1SQOSLEwvxLW40sXTVOK8msxWYvxd2DK4A=='}}
0:03:42.808954	LOG	Server --------------------> DUT
0:03:42.811936	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:42.815926	LOG	Step 05
0:03:42.818955	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:03:43.238729	LOG	GPS Time updated: 1385122046294
0:03:43.240733	LOG	PULL_DATA: 02 61e2 02 0016c001ff1025bf
0:03:43.241698	LOG	PULL_ACK: 02 61e2 04
0:03:47.679089	LOG	First uplink received. Open reception window.
0:03:47.782025	LOG	PUSH_ACK: 02 b4da 01
0:03:47.783992	LOG	GPS Time from gateway: 1385122050732
0:03:47.784992	LOG	PUSH_DATA: Protocol version = 02, Token = b4da, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3619911078, 'time': '2023-11-27T12:07:11.732670Z', 'tmms': 1385122050732, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAwwoCSUcFiK4FFTvuXW8='}]}
0:03:47.785992	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0ac3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3bee5d6f)
0:03:47.787992	LOG	Server <-------------------- DUT
0:03:47.790995	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:03:47.802614	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:47.805655	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0768, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 10101010101010101), MIC: f9f2e304)
0:03:47.807656	LOG	Frame command sent to the DUT
0:03:47.808761	LOG	PULL_RESP: Protocol version = 02, Token = a602, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3620911078, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 256, 'data': 'oAAAAAAAaAfgcX49+Irn2QUofx123o2HdJrmMmb+eye7ezp/LSW5NSKk0S4KQPmEaP6BLJdss/Et4IZvUdZrKcNKXCMS8k2V9hN5aapqh7RPPnwum3gNjTEs3Mc+82woG9Qmo82CIJrCx0qhFN09cQcXwhgRX1FRwsz4SpfBFdOOo73MoXgE3H3eBRqM9RfU03a6i9M4C4I0OCNiUQu0JJivtLbTkDDhWp901k+DGlNKxt7Ci7vwweR+gy65TABoZ9miVdvo/n7GP+97VfapI36CMb4yTifEQ++4Z5Kj93rQ4qhFVASQZEp6viTOv679NvVSSa1+Pi1uIj1i+fLjBA=='}}

0:03:47.810730	LOG	Server --------------------> DUT
0:03:47.812762	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:47.816728	LOG	Step 06
0:03:47.819729	LOG	Check ACK bit in next uplink process starts
0:03:52.677255	LOG	First uplink received. Open reception window.
0:03:52.779105	LOG	PUSH_ACK: 02 60f7 01
0:03:52.781072	LOG	GPS Time from gateway: 1385122055731
0:03:52.782072	LOG	PUSH_DATA: Protocol version = 02, Token = 60f7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3624910848, 'time': '2023-11-27T12:07:16.732439Z', 'tmms': 1385122055731, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3369, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAxAoCrqPuBopkCiBBLq8='}]}
0:03:52.784074	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0ac4, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 20412eaf)
0:03:52.785106	LOG	Server <-------------------- DUT
0:03:52.786106	LOG	Oversized frame was sent. ACK bit received in uplink is set to 0
0:03:52.789072	LOG	Check ACK bit in next uplink tested successfully
0:03:52.800144	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:52.804165	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0769, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 365a438c)
0:03:52.805205	LOG	Frame command sent to the DUT
0:03:52.807203	LOG	PULL_RESP: Protocol version = 02, Token = 1252, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3626910848, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 256, 'data': 'oAAAAAAAaQfg/Pe9c7Lak6CtyZsS1uzeuX2xEQgaFiF14ESYOXdKWykJ3ov1OZSuNqvjfpa5JmjkvM4SAaQmB3kvVg8Cg41qdUWU2HS4i33Tl/rMERYifjGANXnMMcCFJjdMyc4jDJoueISwD82QOlzm9ZHGRDfC/AFRmoC83bV4KwYyf2owwFu5vTUFIrJWegvqKWFWcvyRAUr4507NhBY8G2T2Mg/fJ7vT2w7kc1zcke+BnOluxaurGZcLhnEXpE63uDVe0fwRx8Vi8bw21/BsbGoKmyfmFt79mOF37TrgM/VNajdASKudwrI5/pIRYiFXIhOyYObtcwo6NlpDjA=='}}
0:03:52.808203	LOG	Server --------------------> DUT
0:03:52.810203	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:52.814695	LOG	Step 07
0:03:52.817681	LOG	Check ACK bit in next uplink process starts
0:03:53.438824	LOG	GPS Time updated: 1385122056492
0:03:53.440792	LOG	PULL_DATA: 02 ecd1 02 0016c001ff1025bf
0:03:53.441824	LOG	PULL_ACK: 02 ecd1 04
0:03:57.675341	LOG	First uplink received. Open reception window.
0:03:57.788993	LOG	PUSH_ACK: 02 9e9b 01
0:03:57.790966	LOG	GPS Time from gateway: 1385122060731
0:03:57.791960	LOG	PUSH_DATA: Protocol version = 02, Token = 9e9b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3629910590, 'time': '2023-11-27T12:07:21.732179Z', 'tmms': 1385122060731, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAxQoCDcfBpfDq9UMhB2o='}]}
0:03:57.792960	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0ac5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4321076a)
0:03:57.793959	LOG	Server <-------------------- DUT

0:03:57.795961	LOG	Oversized frame was sent. ACK bit received in uplink is set to 0
0:03:57.798959	LOG	Check ACK bit in next uplink tested successfully
0:03:57.800995	LOG	End Test Step: Oversized downlink for datarate SF7BW125
0:03:57.805012	LOG	Partial Verdict: PASS
0:03:57.808998	LOG	==========
0:03:57.814029	LOG	==========
0:03:57.815997	LOG	Start Test Step: Oversized downlink for optional datarate SF7BW250
0:03:57.826294	LOG	Send NewChannelReq process starts
0:04:02.680322	LOG	First uplink received. Open reception window.
0:04:02.782932	LOG	PUSH_ACK: 02 afac 01
0:04:02.784899	LOG	GPS Time from gateway: 1385122065731
0:04:02.785900	LOG	PUSH_DATA: Protocol version = 02, Token = afac, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3634910371, 'time': '2023-11-27T12:07:26.731961Z', 'tmms': 1385122065731, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3369, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAxgoCMklK3SJszQnR2UY='}]}
0:04:02.787900	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0ac6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 09d1d946)
0:04:02.788933	LOG	Server <---------- DUT
0:04:02.790901	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 076a, FOpts:), FPort: 00, FRMPayload: 070328768466), MIC: 97e19f55)
0:04:02.792899	LOG	PULL_RESP: Protocol version = 02, Token = 2679, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3636910371, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YAAAAAAAagcA5YfgHwJGl+GfVQ=='}}
0:04:02.793899	LOG	Server ----------> DUT
0:04:02.796900	LOG	TX_ACK: 02 2679 05 0016c001ff1025bf
0:04:03.629348	LOG	GPS Time updated: 1385122066679
0:04:03.630347	LOG	PULL_DATA: 02 511a 02 0016c001ff1025bf
0:04:03.631348	LOG	PULL_ACK: 02 511a 04
0:04:07.679428	LOG	First uplink received. Open reception window.
0:04:07.789427	LOG	PUSH_ACK: 02 f496 01
0:04:07.791427	LOG	GPS Time from gateway: 1385122070731
0:04:07.792428	LOG	PUSH_DATA: Protocol version = 02, Token = f496, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3639910214, 'time': '2023-11-27T12:07:31.731803Z', 'tmms': 1385122070731, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3370, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCxwoHAwKqkZ2ZTthM6k6tlQ=='}]}
0:04:07.794427	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0ac7, FOpts: 0703), FPort: 02, FRMPayload: 00000001020000, MIC: ea4ead95)
0:04:07.795428	LOG	Server <---------- DUT
0:04:07.797429	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:04:07.798428	LOG	Command Answer: 0703
0:04:07.803430	LOG	MAC command communication completed
0:04:07.808220	LOG	Step 02-03
0:04:07.811261	LOG	Send MAC command block process starts
0:04:12.682431	LOG	First uplink received. Open reception window.
0:04:12.788074	LOG	PUSH_ACK: 02 4539 01
0:04:12.790041	LOG	GPS Time from gateway: 1385122075730
0:04:12.791040	LOG	PUSH_DATA: Protocol version = 02, Token = 4539, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3644909854, 'time': '2023-11-27T12:07:36.731442Z', 'tmms': 1385122075730, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3370, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAyAoCrBw/tQxa/usx2/w='}]}

0:04:12.793042	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0ac8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: eb31dbfc)
0:04:12.794041	LOG	Server <-------------------- DUT
0:04:12.796042	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 076b, FOpts:), FPort: 00, FRMPayload: 03600f00010506d2ad84), MIC: f29b580d)
0:04:12.798041	LOG	PULL_RESP: Protocol version = 02, Token = 23e5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3646909854, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAawcAJDKSJuDS3f6fO/KbWA0='}}
0:04:12.799040	LOG	Server --------------------> DUT
0:04:12.802074	LOG	TX_ACK: 02 23e5 05 0016c001ff1025bf
0:04:13.638627	LOG	GPS Time updated: 1385122076686
0:04:13.640595	LOG	PULL_DATA: 02 0faa 02 0016c001ff1025bf
0:04:13.641595	LOG	PULL_ACK: 02 0faa 04
0:04:17.646683	LOG	First uplink received. Open reception window.
0:04:17.748293	LOG	PUSH_ACK: 02 ed80 01
0:04:17.750296	LOG	GPS Time from gateway: 1385122080705
0:04:17.751295	LOG	PUSH_DATA: Protocol version = 02, Token = ed80, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3649883975, 'time': '2023-11-27T12:07:41.705562Z', 'tmms': 1385122080705, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.8, 'foff': -3369, 'rssi': -51, 'size': 24, 'data': 'QAAAAACEyQoDBwUHAmXqxjoLQJvq/mv3'}]}
0:04:17.753295	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0ac9, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: eafe6bf7)
0:04:17.754289	LOG	Server <-------------------- DUT
0:04:17.756261	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:04:17.757294	LOG	Command Answer: 03070507
0:04:17.811523	LOG	MAC command communication completed
0:04:17.816026	LOG	Step 03
0:04:17.826018	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:17.830018	LOG	MAC Command LinkADRAns received
0:04:17.831018	LOG	MAC Command RXParamSetupAns received
0:04:17.833018	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 076c, FOpts:), FPort: e0, FRMPayload: 07020101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101), MIC: f92282cd)
0:04:17.835020	LOG	Frame command sent to the DUT
0:04:17.836053	LOG	PULL_RESP: Protocol version = 02, Token = 89aa, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3650883975, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 256, 'data': 'YAAAAAAAbAfg+mxVaLYzOE7oZWBIW+7eZ9OUM3gDkO0hj8ALvLVQkg UR1tqCbPIQW3J7nTu7kCW66Tco8FxySkIRavJObw8zyXUTBhZWjBQDb/nwhr aLPPvVqN8PcgVPFgx+Fyv4RBp8GBrY52n8fqnMRYEkPnoxOhYBTqKkXYAE +ega3eiT4/+IWhvHj4naq8+xTN6Y8WXVye59dD4Ogz6rvdY18Qgd3V7WOOLC QgypQm4Ge2kRQnfqDMwk55979xFceHB0vEuSJkFNGSoQ0Te1uEHKs4SO/Hx SMUxN4TC/MOHE9lm5ElVwAYa42nZ+bHPB0OoBgFiXVK5k+SKCzQ=='}}
0:04:17.837590	LOG	Server --------------------> DUT

0:04:17.839596	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:17.844347	LOG	Step 04
0:04:17.846356	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:04:22.652307	LOG	First uplink received. Open reception window.
0:04:22.764615	LOG	PUSH_ACK: 02 da2b 01
0:04:22.766615	LOG	GPS Time from gateway: 1385122085702
0:04:22.767614	LOG	PUSH_DATA: Protocol version = 02, Token = da2b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3654881144, 'time': '2023-11-27T12:07:46.702730Z', 'tmms': 1385122085702, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.8, 'foff': -3369, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCygoFBwK6jRpFXkBXyLW6TQ=='}]}
0:04:22.768615	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0aca, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: c8b5ba4d)
0:04:22.770633	LOG	Server <-------------------- DUT
0:04:22.771581	LOG	MAC Command RXParamSetupAns received
0:04:22.773581	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 076d, FOpts:), FPort: , FRMPayload:), MIC: bc314b4d)
0:04:22.775615	LOG	PULL_RESP: Protocol version = 02, Token = 8c9d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3655881144, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 12, 'data': 'YAAAAAAAbQe8MUtN'}}
0:04:22.776583	LOG	Server --------------------> DUT
0:04:22.778581	LOG	TX_ACK: 02 8c9d 05 0016c001ff1025bf
0:04:23.828628	LOG	GPS Time updated: 1385122086878
0:04:23.829665	LOG	PULL_DATA: 02 6697 02 0016c001ff1025bf
0:04:23.831680	LOG	PULL_ACK: 02 6697 04
0:04:27.651305	LOG	First uplink received. Open reception window.
0:04:27.754733	LOG	PUSH_ACK: 02 3dc7 01
0:04:27.756730	LOG	GPS Time from gateway: 1385122090701
0:04:27.757698	LOG	PUSH_DATA: Protocol version = 02, Token = 3dc7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3659880784, 'time': '2023-11-27T12:07:51.702369Z', 'tmms': 1385122090701, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3369, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAywoCiKrd/Af3TB0Eb38='}]}
0:04:27.758730	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0acb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1d046f7f)
0:04:27.760730	LOG	Server <-------------------- DUT
0:04:27.763697	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:04:27.775673	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:27.778705	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 076e, FOpts:), FPort: e0, FRMPayload: 07020101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101), MIC: 7796def5)
0:04:27.780702	LOG	Frame command sent to the DUT
0:04:27.781704	LOG	PULL_RESP: Protocol version = 02, Token = e734, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3661880784, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 256, 'data': 'YAAAAAAAbgfg/GVQDxrGGzmW+USYbd9sEZcav3MG5q6c8wKVR6qbWDiI3Al4LXyPaXQFCYwCQi7NajI957kQZ1LaajWR+v8MaiRCLqdt5RFGZV/hFLQnR/TEqGVAClmewf3zW1asjovEqes98FHx1iqE5DGU+d+5ae040FuJ71vNQJ+XrO

		UX5xjEB3NZTw1y9CWozpHGhenhaJAnT26Kd8YGVLBQsfmFX6uo0EsfLlZMF TxXLZbjf+D1ojB2hPxbfD+4JXo/letC5DWkyBU4HPop56RiK6fzlJ3GvnKXyA5+ ZoKnmkadwPECoKWSL/iZ8oO3OgYwSjb8iMSVd5be9Q==''}}
0:04:27.783709	LOG	Server ----------> DUT
0:04:27.785673	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:27.789705	LOG	Step 05
0:04:27.792702	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:04:32.643711	LOG	First uplink received. Open reception window.
0:04:32.756892	LOG	PUSH_ACK: 02 7974 01
0:04:32.758891	LOG	GPS Time from gateway: 1385122095701
0:04:32.759892	LOG	PUSH_DATA: Protocol version = 02, Token = 7974, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3664880516, 'time': '2023-11-27T12:07:56.702099Z', 'tmms': 1385122095701, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3369, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAzAoC8zedsB4gIwSWt2I='}]}
0:04:32.760892	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0acc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0496b762)
0:04:32.761891	LOG	Server <---------- DUT
0:04:32.764859	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:04:32.776861	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:32.779902	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 076f, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010101010101 10101010101010101), MIC: c5f46aff)
0:04:32.781895	LOG	Frame command sent to the DUT
0:04:32.782893	LOG	PULL_RESP: Protocol version = 02, Token = 5d94, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3665880516, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 256, 'data': 'oAAAAAAAbwfgTjdCW9jTvX0dJdNzmJfrxVqEEeUrX/8aeCp+S+T2DEUeeS8l YsngNppnO1xcf1Md6GduHlZ+Tc6+a3xfu6FSxBMYWEhoTioBX6K0ZNNEBB2 XkmdwiiWpU2VfQhtDfAcJcBYW3mc7YviKKdA4Ydve47ofhepbcj2wHSFKbNH ohGXIGDrnuJ+qk7cKIaf8SqFIVbBlLL44qewDf7Rw+NY8i3qCCbUd71NslemII9 PaKRzDh/4NIMEJ/M3ww+M8dUyHoOsdk/p6CzJQv6T/h6St87J5qw24z2htdwvxy /SofrI5hTvaWOV6Pnlkfc8eYQjK1c/NxfRq/w==''}}
0:04:32.783895	LOG	Server ----------> DUT
0:04:32.786861	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:32.790862	LOG	Step 06
0:04:32.792893	LOG	Check ACK bit in next uplink process starts
0:04:34.039612	LOG	GPS Time updated: 1385122097096
0:04:34.040602	LOG	PULL_DATA: 02 d92d 02 0016c001ff1025bf
0:04:34.042602	LOG	PULL_ACK: 02 d92d 04
0:04:37.652059	LOG	First uplink received. Open reception window.
0:04:37.764253	LOG	PUSH_ACK: 02 4f39 01
0:04:37.766243	LOG	GPS Time from gateway: 1385122100701
0:04:37.767216	LOG	PUSH_DATA: Protocol version = 02, Token = 4f39, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3669880257, 'time': '2023-11-27T12:08:01.701841Z', 'tmms': 1385122100701, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.8, 'foff': -3369, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAzQoC5r017WCzSX/wZC8='}]}

0:04:37.768230	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0acd, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7ff0642f)
0:04:37.770215	LOG	Server <-------------------- DUT
0:04:37.771216	LOG	Oversized frame was sent. ACK bit received in uplink is set to 0
0:04:37.774216	LOG	Check ACK bit in next uplink tested successfully
0:04:37.785273	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:37.789217	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0770, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 67e2b62f)
0:04:37.791216	LOG	Frame command sent to the DUT
0:04:37.792215	LOG	PULL_RESP: Protocol version = 02, Token = d1e7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3671880257, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 256, 'data': 'oAAAAAAAcAfgTggmkT/1DwVruc0Etp/y9CH9P1xqlWLVrxbTtdooly+xcfsT41NB/5tvhOKIQUGzLUOTyRjn78283NWKUOp8wC3/rWy7v0pUSm0tAqkybP3sX8VyMywpiuQb5zE/b4OUkbL5syH0iIOdujZhRL0g+t0wMHOPNtH2k9HeX4G0ptyMqBNvuzKEunXHeSLP6sC0VYsdROuzAixM9W5QHufOdFxFld5iPuQa2R2Wmj+6dcNcwkri4MbEZrsgSDOrxh/Fqhakqmy8FScmOg/N7Yy7ibz0cuagorALPpcaITq+e2t4y2pa4PZcZeaeJr6W+v3DLdIqZ+K2Lw=='}}
0:04:37.794215	LOG	Server --------------------> DUT
0:04:37.796216	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:37.801217	LOG	Step 07
0:04:37.804214	LOG	Check ACK bit in next uplink process starts
0:04:42.646714	LOG	First uplink received. Open reception window.
0:04:42.761905	LOG	PUSH_ACK: 02 243b 01
0:04:42.763912	LOG	GPS Time from gateway: 1385122105701
0:04:42.764910	LOG	PUSH_DATA: Protocol version = 02, Token = 243b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3674879994, 'time': '2023-11-27T12:08:06.701577Z', 'tmms': 1385122105701, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3369, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAzgoCeSb4IZvVsobNjAM='}]}
0:04:42.765910	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0ace, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 86cd8c03)
0:04:42.767910	LOG	Server <-------------------- DUT
0:04:42.768946	LOG	Oversized frame was sent. ACK bit received in uplink is set to 0
0:04:42.771909	LOG	Check ACK bit in next uplink tested successfully
0:04:42.775912	LOG	Send LinkADRReq process starts
0:04:44.088905	LOG	GPS Time updated: 1385122107143
0:04:44.089903	LOG	PULL_DATA: 02 0bc3 02 0016c001ff1025bf
0:04:44.091906	LOG	PULL_ACK: 02 0bc3 04
0:04:47.650437	LOG	First uplink received. Open reception window.
0:04:47.753672	LOG	PUSH_ACK: 02 6f28 01
0:04:47.755676	LOG	GPS Time from gateway: 1385122110700
0:04:47.756677	LOG	PUSH_DATA: Protocol version = 02, Token = 6f28, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3679879740, 'time': '2023-11-27T12:08:11.701322Z', 'tmms': 1385122110700, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3369, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAzwoChmI8unSpwsHIEp4='}]}

0:04:47.758676	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0acf, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c1c8129e)
0:04:47.759676	LOG	Server <---------- DUT
0:04:47.761711	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0771, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: 5e0fab58)
0:04:47.763709	LOG	PULL_RESP: Protocol version = 02, Token = 70e6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3681879740, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAcQcAzg3A5lJeD6tY'}}
0:04:47.765693	LOG	Server ----------> DUT
0:04:47.769225	LOG	TX_ACK: 02 70e6 05 0016c001ff1025bf
0:04:52.677817	LOG	First uplink received. Open reception window.
0:04:52.781462	LOG	PUSH_ACK: 02 d464 01
0:04:52.783429	LOG	GPS Time from gateway: 1385122115728
0:04:52.784463	LOG	PUSH_DATA: Protocol version = 02, Token = d464, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3684907868, 'time': '2023-11-27T12:08:16.729449Z', 'tmms': 1385122115728, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3377, 'rssi': -51, 'size': 22, 'data': 'QAAAAACC0AoDBwJbkUaMM5F7dIPHMw=='}]}
0:04:52.786463	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0ad0, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 7483c733)
0:04:52.787430	LOG	Server <---------- DUT
0:04:52.789430	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:04:52.790467	LOG	Command Answer: 0307
0:04:52.798432	LOG	MAC command communication completed
0:04:52.801723	LOG	Send NewChannelReq process starts
0:04:54.288721	LOG	GPS Time updated: 1385122117339
0:04:54.289751	LOG	PULL_DATA: 02 be19 02 0016c001ff1025bf
0:04:54.291721	LOG	PULL_ACK: 02 be19 04
0:04:57.678789	LOG	First uplink received. Open reception window.
0:04:57.782419	LOG	PUSH_ACK: 02 9dcd 01
0:04:57.784421	LOG	GPS Time from gateway: 1385122120728
0:04:57.785469	LOG	PUSH_DATA: Protocol version = 02, Token = 9dcd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3689907515, 'time': '2023-11-27T12:08:21.729095Z', 'tmms': 1385122120728, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3374, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA0QoCblD2hnmTQ5TRmfU='}]}
0:04:57.787421	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0ad1, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 94d199f5)
0:04:57.788424	LOG	Server <---------- DUT
0:04:57.790421	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0772, FOpts:), FPort: 00, FRMPayload: 070300000050), MIC: 5c124d34)
0:04:57.792422	LOG	PULL_RESP: Protocol version = 02, Token = 0e49, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3691907515, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YAAAAAAAcgcA/KsYhT7jXBJNNA=='}}
0:04:57.793454	LOG	Server ----------> DUT
0:04:57.796271	LOG	TX_ACK: 02 0e49 05 0016c001ff1025bf
0:05:02.680263	LOG	First uplink received. Open reception window.
0:05:02.780413	LOG	PUSH_ACK: 02 c3c3 01
0:05:02.781951	LOG	GPS Time from gateway: 1385122125728
0:05:02.783957	LOG	PUSH_DATA: Protocol version = 02, Token = c3c3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3694907360, 'time': '2023-11-27T12:08:26.728939Z', 'tmms': 1385122125728, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3377, 'rssi': -51, 'size': 22, 'data': 'QAAAAACC0goHAwLJxZB+mQwAQEsd7A=='}]}
0:05:02.784988	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0ad2, FOpts: 0703), FPort: 02, FRMPayload: 00000001020000, MIC: 404b1dec)
0:05:02.785990	LOG	Server <---------- DUT
0:05:02.787964	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:05:02.789967	LOG	Command Answer: 0703
0:05:02.794927	LOG	MAC command communication completed
0:05:02.797927	LOG	End Test Step: Oversized downlink for optional datarate SF7BW250
0:05:02.801936	LOG	Partial Verdict: PASS
0:05:02.804927	LOG	==========
0:05:02.809927	LOG	==========
0:05:02.812939	LOG	Start Test Step: Oversized downlink for optional datarate FSK
0:05:02.822391	LOG	Send NewChannelReq process starts
0:05:04.298563	LOG	GPS Time updated: 1385122127347
0:05:04.299562	LOG	PULL_DATA: 02 22b1 02 0016c001ff1025bf
0:05:04.301563	LOG	PULL_ACK: 02 22b1 04
0:05:07.669897	LOG	First uplink received. Open reception window.
0:05:07.771562	LOG	PUSH_ACK: 02 43fc 01
0:05:07.773529	LOG	GPS Time from gateway: 1385122130728
0:05:07.774564	LOG	PUSH_DATA: Protocol version = 02, Token = 43fc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3699906998, 'time': '2023-11-27T12:08:31.728575Z', 'tmms': 1385122130728, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3377, 'rssi': -51, 'size': 20, 'data': 'QAAAAACA0woCYIAfB1eiWrLysz0='}]}
0:05:07.776561	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0ad3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b2f2b33d)
0:05:07.777561	LOG	Server <---------- DUT
0:05:07.779582	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0773, FOpts:), FPort: 00, FRMPayload: 070428768477), MIC: 891b5e06)
0:05:07.781530	LOG	PULL_RESP: Protocol version = 02, Token = daad, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3701906998, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YAAAAAAAcwcAV2UsmV6piRteBg=='}}
0:05:07.782562	LOG	Server ----------> DUT
0:05:07.784564	LOG	TX_ACK: 02 daad 05 0016c001ff1025bf
0:05:12.676548	LOG	First uplink received. Open reception window.
0:05:12.783756	LOG	PUSH_ACK: 02 dca9 01
0:05:12.785757	LOG	GPS Time from gateway: 1385122135727
0:05:12.786757	LOG	PUSH_DATA: Protocol version = 02, Token = dca9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3704906833, 'time': '2023-11-27T12:08:36.728411Z', 'tmms': 1385122135727, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3374, 'rssi': -51, 'size': 22, 'data': 'QAAAAACC1AoHAwK6rA/l89uptDEpCA=='}]}
0:05:12.787757	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0ad4, FOpts: 0703), FPort: 02, FRMPayload: 00000001020000, MIC: b4312908)
0:05:12.789757	LOG	Server <---------- DUT
0:05:12.791263	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:05:12.793270	LOG	Command Answer: 0703
0:05:12.798099	LOG	MAC command communication completed
0:05:12.802099	LOG	Step 02-03
0:05:12.805134	LOG	Send MAC command block process starts
0:05:14.498498	LOG	GPS Time updated: 1385122137549
0:05:14.500492	LOG	PULL_DATA: 02 941a 02 0016c001ff1025bf

0:05:14.501492	LOG	PULL_ACK: 02 941a 04
0:05:17.678490	LOG	First uplink received. Open reception window.
0:05:17.792141	LOG	PUSH_ACK: 02 8e49 01
0:05:17.794141	LOG	GPS Time from gateway: 1385122140728
0:05:17.795650	LOG	PUSH_DATA: Protocol version = 02, Token = 8e49, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3709906476, 'time': '2023-11-27T12:08:41.728053Z', 'tmms': 1385122140728, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3381, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA1QoC6YwCaDMsn/ry/Fk='}]}
0:05:17.796687	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0ad5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: faf2fc59)
0:05:17.798709	LOG	Server <-------------------- DUT
0:05:17.799687	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0774, FOpts:), FPort: 00, FRMPayload: 03701700010507d2ad84), MIC: 7e2638ec)
0:05:17.801688	LOG	PULL_RESP: Protocol version = 02, Token = d228, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3711906476, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAdAcAE0Tx/+4zfU+GIn4mOOw='}}
0:05:17.803688	LOG	Server --------------------> DUT
0:05:17.805655	LOG	TX_ACK: 02 d228 05 0016c001ff1025bf
0:05:22.625977	LOG	First uplink received. Open reception window.
0:05:22.731741	LOG	PUSH_ACK: 02 3bdd 01
0:05:22.733710	LOG	GPS Time from gateway: 1385122145678
0:05:22.734709	LOG	PUSH_DATA: Protocol version = 02, Token = 3bdd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3714856147, 'time': '2023-11-27T12:08:46.677723Z', 'tmms': 1385122145678, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -57, 'size': 24, 'data': 'QAAAAACE1goDBwUHAq8HfeKcj8ezojmZ'}]}
0:05:22.736713	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0ad6, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: b3a23999)
0:05:22.737709	LOG	Server <-------------------- DUT
0:05:22.739710	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:05:22.740710	LOG	Command Answer: 03070507
0:05:22.794532	LOG	MAC command communication completed
0:05:22.798533	LOG	Step 03
0:05:22.810241	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:22.813496	LOG	MAC Command LinkADRAns received
0:05:22.814539	LOG	MAC Command RXParamSetupAns received
0:05:22.816537	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0775, FOpts:), FPort: e0, FRMPayload: 070201), MIC: a16040f3)
0:05:22.817537	LOG	Frame command sent to the DUT
0:05:22.819537	LOG	PULL_RESP: Protocol version = 02, Token = c6e0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3715856147, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 256, 'data': 'YAAAAAAAdQfgXnxSj5jD2fWb6JLKtDkkFl3ZrIpZT71CuL7rxjstRGyb6Lb7jEi9+cefytF3vaZ6Ny69cxpDsKe6YWTtMyhf6NUS/lAgvnLdW2Gv9UX4GV3TWmZ

		rr26H05502hy5qXbL/OSUim06viqNofbRzIcKBi9NZgA7r44k0HhF7GB2JNem6cTAK5g4gSwExP18SOdYH8hKKXHYmUkFLoiw/Zebzj/zo6Yq5uAqRPI3X+PFRPviAf8d2EiNa04OBdoAFmLM3mB0MARn5Ez12xji4Zga2zjIGjc0N+ky4xjjPcKdGqQvSLeNa8YMM8gJU9UKN6NYtv8foWBA8w=='}}
0:05:22.820537	LOG	Server --------------------> DUT
0:05:22.822538	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:22.826539	LOG	Step 04
0:05:22.829507	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:05:24.708168	LOG	GPS Time updated: 1385122147761
0:05:24.710169	LOG	PULL_DATA: 02 835f 02 0016c001ff1025bf
0:05:24.711170	LOG	PULL_ACK: 02 835f 04
0:05:27.624416	LOG	First uplink received. Open reception window.
0:05:27.735304	LOG	PUSH_ACK: 02 188e 01
0:05:27.737304	LOG	GPS Time from gateway: 1385122150677
0:05:27.738304	LOG	PUSH_DATA: Protocol version = 02, Token = 188e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3719855484, 'time': '2023-11-27T12:08:51.677059Z', 'tmms': 1385122150677, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -60, 'size': 22, 'data': 'QAAAAACC1woFBwIDlr+zg2TtVTSVPg=='}]}
0:05:27.740319	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0ad7, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 5534953e)
0:05:27.741352	LOG	Server <-------------------- DUT
0:05:27.743316	LOG	MAC Command RXParamSetupAns received
0:05:27.744317	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0776, FOpts:), FPort: , FRMPayload:), MIC: 5a1005cb)
0:05:27.746318	LOG	PULL_RESP: Protocol version = 02, Token = 5d61, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3720855484, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 12, 'data': 'YAAAAAAAdgdaEAXL'}}
0:05:27.747435	LOG	Server --------------------> DUT
0:05:27.750404	LOG	TX_ACK: 02 5d61 05 0016c001ff1025bf
0:05:28.624637	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:05:28.626636	LOG	Previous uplink Frame type (FType): 011
0:05:28.628637	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:05:28.630635	LOG	Previous uplink Frame type (FType): 011
0:05:32.621848	LOG	First uplink received. Open reception window.
0:05:32.727822	LOG	PUSH_ACK: 02 4892 01
0:05:32.729790	LOG	GPS Time from gateway: 1385122155676
0:05:32.730790	LOG	PUSH_DATA: Protocol version = 02, Token = 4892, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3724854830, 'time': '2023-11-27T12:08:56.676404Z', 'tmms': 1385122155676, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACA2AoC02M4s1vyBESjGl4='}]}
0:05:32.731794	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0ad8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 44a31a5e)
0:05:32.733794	LOG	Server <-------------------- DUT
0:05:32.736806	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:05:32.747316	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:32.752316	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0777, FOpts:), FPort: e0, FRMPayload: 070201

		0101010101010101010101010101010101010101010101010101010101010101010 10101010101010101), MIC: 973d634c)
0:05:32.754352	LOG	Frame command sent to the DUT
0:05:32.755350	LOG	PULL_RESP: Protocol version = 02, Token = 833e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3726854830, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 256, 'data': 'YAAAAAAAdwfg9IrvFD8qzuh/y0U+O9iNGr0oKl3hG7ry03FpfJvUw46H22/4DLmab05BaXHBPXdg75jM2KDxKAMu4cMzf9eJgUIdjmEW8rGcvLIvmNXH9Qj0Nz8/lcD5Z2eQyrxc4Z4k/T3mya6yuj79qfGZwuk+aBMYIALpJqL/j+Gdf/ofl5y02aysQkvmXCVUbOGHnvkuKD3mT3gqkLqXWJr7IdFGYWbD0Sd6Mf5x3uP0XtWvTjM5w5LxvpMuIq/zYTzsgAliZgy3FG6+F/ZE8AUb3VQEUnCxKkgfWqsaxCIYMVF2rZkRiTj29AQ9VDwkLrJtgkQHkUN4lz1jTA=='}}
0:05:32.757360	LOG	Server --------------------> DUT
0:05:32.760317	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:32.764323	LOG	Step 05
0:05:32.767526	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:05:34.868216	LOG	GPS Time updated: 1385122157923
0:05:34.869821	LOG	PULL_DATA: 02 171c 02 0016c001ff1025bf
0:05:34.871436	LOG	PULL_ACK: 02 171c 04
0:05:37.625308	LOG	First uplink received. Open reception window.
0:05:37.738079	LOG	PUSH_ACK: 02 f6d5 01
0:05:37.740046	LOG	GPS Time from gateway: 1385122160676
0:05:37.741048	LOG	PUSH_DATA: Protocol version = 02, Token = f6d5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3729854576, 'time': '2023-11-27T12:09:01.676149Z', 'tmms': 1385122160676, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACA2QoC7zhLHGAjIXEqTtc='}]}
0:05:37.742052	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0ad9, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 712a4ed7)
0:05:37.744051	LOG	Server <-------------------- DUT
0:05:37.746557	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:05:37.759853	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:37.763856	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0778, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 10101010101010101), MIC: a2dc07b0)
0:05:37.764891	LOG	Frame command sent to the DUT
0:05:37.766856	LOG	PULL_RESP: Protocol version = 02, Token = 7669, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3730854576, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 256, 'data': 'oAAAAAAAeAfgCYXvQ09uPByUOGfppW4ZW/bL9LlMeFf46ahBTATJb7NZdOyGV6MYCuwUxF5KgdqoEsLeyUXWrvxw+rjDgd/+exs36WWIaapPaZ6nK77cI5oPJEAsL7H4Ev/5BqfyfgluA2RmPqGHeCTPKl94CcyhrnA7lrERxNvHmsuYquhMCji60jRugzXwQBPN0YRmbIn3ONfR2Oe3XBkBOD/5t10aIcnu52D1SoTi3FnAKX2jT6DxJab/XJvh1MEcBz01CThJart1gyP7TkJ9cJIMt30ckc+yKakTNO6Hsr0BLBLTWdEnD1TPuBqyDc1FDrKxU6gAp8QdotwHsA=='}}
0:05:37.767889	LOG	Server --------------------> DUT
0:05:37.769891	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:37.773889	LOG	Step 06
0:05:37.777359	LOG	Check ACK bit in next uplink process starts
0:05:42.624494	LOG	First uplink received. Open reception window.

0:05:42.732558	LOG	PUSH_ACK: 02 3693 01
0:05:42.734527	LOG	GPS Time from gateway: 1385122165676
0:05:42.735559	LOG	PUSH_DATA: Protocol version = 02, Token = 3693, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3734854310, 'time': '2023-11-27T12:09:06.675882Z', 'tmms': 1385122165676, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACA2goCLiEjrmCUZ7kw51k='}]}
0:05:42.737528	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0ada, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b930e759)
0:05:42.738558	LOG	Server <-------------------- DUT
0:05:42.739558	LOG	Oversized frame was sent. ACK bit received in uplink is set to 0
0:05:42.742527	LOG	Check ACK bit in next uplink tested successfully
0:05:42.755103	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:42.760070	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0779, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010 10101010101010101), MIC: dd4f5f97)
0:05:42.761071	LOG	Frame command sent to the DUT
0:05:42.763108	LOG	PULL_RESP: Protocol version = 02, Token = 004f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3736854310, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 256, 'data': 'oAAAAAAAeQfg6xLkTh7LVIao0wl1j2TwSc093HEA1JdLLuV7qL6Nt24T5Tf8mPyvQ3pvjVghxsE2/NAWes0a/jMZdCKP8x7KyOeyDT/zyx7tTzut2lSqAsqYqjUN+GJyaIwh6hgwSHoaBP+YwOgI8W8ETCQMdIFTL7lUNrV7loIJ2Rkp5Yskx0BPKwQnt/QAio3eHJNAOubC4Q7EoEZeuweRvqdJVNT7dLWrYo4mmHDLwBrDn9raxftNIXikN6GL66wlGv3tmggsjRjgwC9g8bkRR75+C6aLSZMdSvA0GI7SAf1BB41fgEiwtP5LuxHAg92JgfXrwg12wR4S3U9flw=='}}
0:05:42.765079	LOG	Server --------------------> DUT
0:05:42.767075	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:42.771735	LOG	Step 07
0:05:42.774462	LOG	Check ACK bit in next uplink process starts
0:05:45.068370	LOG	#****************************CURRENT BEACON SENT****************************#
0:05:45.069370	LOG	PULL_RESP: Protocol version = 02, Token = 8bee, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385122176000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACASY9SFS8AAAAAAAAAAAA='}}
0:05:45.071371	LOG	Server --------------------> DUT
0:05:45.072371	LOG	#***#
0:05:45.082457	LOG	#****************************NEXT BEACON QUEUED****************************#
0:05:45.083458	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385122304000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAASo9SfasAAAAAAAAAAAA='}}
0:05:45.084458	LOG	Server --------------------> DUT
0:05:45.086457	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 004a8f52, CRC1: 7dab, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385122304000

0:05:45.087457	LOG	#**********##########**********#
0:05:45.088457	LOG	Next BEACON scheduled at GPS time (ms): 1385122432000
0:05:45.089993	LOG	GPS Time updated: 1385122168142
0:05:45.090998	LOG	PULL_DATA: 02 a3f9 02 0016c001ff1025bf
0:05:45.092997	LOG	PULL_ACK: 02 a3f9 04
0:05:45.095000	LOG	TX_ACK: 02 8bee 05 0016c001ff1025bf
0:05:47.618506	LOG	First uplink received. Open reception window.
0:05:47.722951	LOG	PUSH_ACK: 02 aa9a 01
0:05:47.724997	LOG	GPS Time from gateway: 1385122170676
0:05:47.725997	LOG	PUSH_DATA: Protocol version = 02, Token = aa9a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3739854063, 'time': '2023-11-27T12:09:11.675633Z', 'tmms': 1385122170676, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACA2woCKxrRJ+5zsCb1zY0='}]}
0:05:47.726997	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0adb, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 26f5cd8d)
0:05:47.727998	LOG	Server <---------- DUT
0:05:47.729998	LOG	Oversized frame was sent. ACK bit received in uplink is set to 0
0:05:47.733003	LOG	Check ACK bit in next uplink tested successfully
0:05:47.736538	LOG	Send LinkADRReq process starts
0:05:52.616331	LOG	First uplink received. Open reception window.
0:05:52.730199	LOG	PUSH_ACK: 02 c287 01
0:05:52.732203	LOG	GPS Time from gateway: 1385122175675
0:05:52.733203	LOG	PUSH_DATA: Protocol version = 02, Token = c287, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3744853791, 'time': '2023-11-27T12:09:16.675362Z', 'tmms': 1385122175675, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACA3AoCYWF9bdQUEVTfKIU='}]}
0:05:52.735207	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0adc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 54df2885)
0:05:52.736206	LOG	Server <---------- DUT
0:05:52.738209	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 077a, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: 5e9b28a8)
0:05:52.740221	LOG	PULL_RESP: Protocol version = 02, Token = cc81, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3746853791, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 18, 'data': 'YAAAAAAAegcA7fYbW9Jemyio'}}
0:05:52.741208	LOG	Server ----------> DUT
0:05:52.743910	LOG	TX_ACK: 02 cc81 05 0016c001ff1025bf
0:05:55.257601	LOG	GPS Time updated: 1385122178316
0:05:55.259601	LOG	PULL_DATA: 02 4356 02 0016c001ff1025bf
0:05:55.260578	LOG	PULL_ACK: 02 4356 04
0:05:57.668178	LOG	First uplink received. Open reception window.
0:05:57.771323	LOG	PUSH_ACK: 02 a1b4 01
0:05:57.773290	LOG	GPS Time from gateway: 1385122180726
0:05:57.774289	LOG	PUSH_DATA: Protocol version = 02, Token = a1b4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3749904633, 'time': '2023-11-27T12:09:21.726203Z', 'tmms': 1385122180726, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3362, 'rssi': -50, 'size': 22, 'data': 'QAAAAACC3QoDBwJoHQzkvqHxwsag8w=='}]}
0:05:57.776295	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0add, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: c2c6a0f3)
0:05:57.777294	LOG	Server <---------- DUT
0:05:57.778805	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field

0:05:57.780804	LOG	Command Answer: 0307
0:05:57.789807	LOG	MAC command communication completed
0:05:57.792837	LOG	Send NewChannelReq process starts
0:06:02.668706	LOG	First uplink received. Open reception window.
0:06:02.774431	LOG	PUSH_ACK: 02 632f 01
0:06:02.776398	LOG	GPS Time from gateway: 1385122185726
0:06:02.777904	LOG	PUSH_DATA: Protocol version = 02, Token = 632f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3754904262, 'time': '2023-11-27T12:09:26.725831Z', 'tmms': 1385122185726, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3362, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA3goCSk/KMHpGfDe1pw4='}]}
0:06:02.778922	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0ade, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 37b5a70e)
0:06:02.780923	LOG	Server <---------- DUT
0:06:02.782930	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 077b, FOpts:), FPort: 00, FRMPayload: 070400000050), MIC: ee29431f)
0:06:02.785923	LOG	PULL_RESP: Protocol version = 02, Token = bd1f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3756904262, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 19, 'data': 'YAAAAAAAewcAGdS2NZJ07ilDHw=='}}
0:06:02.786923	LOG	Server ----------> DUT
0:06:02.790584	LOG	TX_ACK: 02 bd1f 05 0016c001ff1025bf
0:06:05.307713	LOG	GPS Time updated: 1385122188365
0:06:05.309252	LOG	PULL_DATA: 02 fd9e 02 0016c001ff1025bf
0:06:05.311292	LOG	PULL_ACK: 02 fd9e 04
0:06:07.670745	LOG	First uplink received. Open reception window.
0:06:07.777458	LOG	PUSH_ACK: 02 0d80 01
0:06:07.779462	LOG	GPS Time from gateway: 1385122190726
0:06:07.780496	LOG	PUSH_DATA: Protocol version = 02, Token = 0d80, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3759904140, 'time': '2023-11-27T12:09:31.725708Z', 'tmms': 1385122190726, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3358, 'rssi': -50, 'size': 22, 'data': 'QAAAAACC3woHAwLeEFVr5ud6JSdelg=='}]}
0:06:07.782465	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0adf, FOpts: 0703), FPort: 02, FRMPayload: 00000001020000, MIC: 25275e96)
0:06:07.783496	LOG	Server <---------- DUT
0:06:07.785433	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:06:07.787087	LOG	Command Answer: 0703
0:06:07.792486	LOG	MAC command communication completed
0:06:07.794998	LOG	End Test Step: Oversized downlink for optional datarate FSK
0:06:07.799027	LOG	Partial Verdict: PASS
0:06:07.802034	LOG	==========
0:06:07.807003	LOG	==========
0:06:07.808571	LOG	Start Test Step: Restore default settings
0:06:07.822608	LOG	Send LinkADRReq process starts
0:06:12.672779	LOG	First uplink received. Open reception window.
0:06:12.775135	LOG	PUSH_ACK: 02 fe25 01
0:06:12.776103	LOG	GPS Time from gateway: 1385122195725
0:06:12.778611	LOG	PUSH_DATA: Protocol version = 02, Token = fe25, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3764903773, 'time': '2023-11-27T12:09:36.725340Z', 'tmms': 1385122195725, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3358, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA4AoCMZxSH4PB3Yp9CM8='}]}
0:06:12.779611	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0ae0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8a7d08cf)

0:06:12.781612	LOG	Server <---------- DUT
0:06:12.783612	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 077c, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: 49d49db4)
0:06:12.785611	LOG	PULL_RESP: Protocol version = 02, Token = 501b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3766903773, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 18, 'data': 'YAAAAAAAfAcA5Hz54VtJ1J20'}}
0:06:12.786612	LOG	Server ----------> DUT
0:06:12.788613	LOG	TX_ACK: 02 501b 05 0016c001ff1025bf
0:06:15.517904	LOG	GPS Time updated: 1385122198570
0:06:15.518905	LOG	PULL_DATA: 02 0e20 02 0016c001ff1025bf
0:06:15.520578	LOG	PULL_ACK: 02 0e20 04
0:06:17.672451	LOG	First uplink received. Open reception window.
0:06:17.783545	LOG	PUSH_ACK: 02 b22b 01
0:06:17.785544	LOG	GPS Time from gateway: 1385122200725
0:06:17.786575	LOG	PUSH_DATA: Protocol version = 02, Token = b22b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3769903651, 'time': '2023-11-27T12:09:41.725217Z', 'tmms': 1385122200725, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3358, 'rssi': -50, 'size': 22, 'data': 'QAAAAACC4QoDBwLigXtv4TduhWeT+Q=='}]}
0:06:17.788577	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0ae1, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 856793f9)
0:06:17.789578	LOG	Server <---------- DUT
0:06:17.791543	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:06:17.792543	LOG	Command Answer: 0307
0:06:17.800129	LOG	MAC command communication completed
0:06:17.804139	LOG	Send RXParamSetupReq process starts
0:06:22.672763	LOG	First uplink received. Open reception window.
0:06:22.786657	LOG	PUSH_ACK: 02 73a8 01
0:06:22.788626	LOG	GPS Time from gateway: 1385122205725
0:06:22.789625	LOG	PUSH_DATA: Protocol version = 02, Token = 73a8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3774903290, 'time': '2023-11-27T12:09:46.724855Z', 'tmms': 1385122205725, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3343, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA4goCcZhLu+Zs/xFtpuE='}]}
0:06:22.790625	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0ae2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 116da6e1)
0:06:22.792626	LOG	Server <---------- DUT
0:06:22.794632	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 077d, FOpts:), FPort: 00, FRMPayload: 0500d2ad84), MIC: 8e0cd702)
0:06:22.796630	LOG	PULL_RESP: Protocol version = 02, Token = 09fe, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3776903290, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 18, 'data': 'YAAAAAAAfQcAAP3Zmz2ODNcC'}}
0:06:22.797630	LOG	Server ----------> DUT
0:06:22.800630	LOG	TX_ACK: 02 09fe 05 0016c001ff1025bf
0:06:25.527585	LOG	GPS Time updated: 1385122208580
0:06:25.529590	LOG	PULL_DATA: 02 01a9 02 0016c001ff1025bf
0:06:25.530590	LOG	PULL_ACK: 02 01a9 04
0:06:27.671961	LOG	First uplink received. Open reception window.
0:06:27.777619	LOG	PUSH_ACK: 02 3ba4 01
0:06:27.779624	LOG	GPS Time from gateway: 1385122210725
0:06:27.780623	LOG	PUSH_DATA: Protocol version = 02, Token = 3ba4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3779903127, 'time': '2023-11-27T12:09:51.724690Z', 'tmms': 1385122210725, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3355, 'rssi': -50, 'size': 22, 'data': 'QAAAAACC4woFBwJjVPRWSva5UxVA1A==\'}]}
0:06:27.782624	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0ae3, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 531540d4)
0:06:27.783624	LOG	Server <---------- DUT
0:06:27.785625	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:06:27.786624	LOG	Command Answer: 0507
0:06:27.798531	LOG	MAC command communication completed
0:06:27.801524	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:06:32.672373	LOG	First uplink received. Open reception window.
0:06:32.777539	LOG	PUSH_ACK: 02 a292 01
0:06:32.779543	LOG	GPS Time from gateway: 1385122215724
0:06:32.780544	LOG	PUSH_DATA: Protocol version = 02, Token = a292, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3784902808, 'time': '2023-11-27T12:09:56.724372Z', 'tmms': 1385122215724, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3343, 'rssi': -50, 'size': 22, 'data': 'QAAAAACC5AoFBwJNOvX/LnrK4y8xQw==\'}]}
0:06:32.781543	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0ae4, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: e32f3143)
0:06:32.782543	LOG	Server <---------- DUT
0:06:32.784543	LOG	MAC Command RXParamSetupAns received
0:06:32.786544	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 077e, FOpts:), FPort: e0, FRMPayload: 0501), MIC: 8639ec73)
0:06:32.787543	LOG	Frame command sent to the DUT
0:06:32.789544	LOG	PULL_RESP: Protocol version = 02, Token = 774a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3786902808, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAfgfghGWGOexz'}}
0:06:32.790543	LOG	Server ----------> DUT
0:06:32.793702	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:06:32.795746	LOG	End Test Step: Restore default settings
0:06:32.799747	LOG	Partial Verdict: PASS
0:06:32.803744	LOG	==========
0:06:32.806744	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_018
0:06:32.808715	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_019_A	
Verdict	PASS	
Date	2023-11-27 13:09:58	
Description		
Technology Version	LCTT v3.11.0_R1 | GUI v2.6.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.3	
Test Specs Version	USv1.5.1/EUv1.6.2/KRv1.2.1/ASv1.1.1/INv1.1.1/ALL_Av1.6/ALL_Cv1.0/ALL_Bv1.0/SCHCv1.1/ALPv1.0	
Project	ref-stack	
Project Creation Date	2023-10-04 09:10:20	
Sample Parameters		
	SF7BW250 Frequency	868.100
	FSK Frequency	868.100
	Conformance	TRUE
	LR-FHSSCR1/3BW137 Frequency	868.000
	LR-FHSSCR2/3BW137 Frequency	868.000
	LR-FHSSCR1/3BW336 Frequency	868.600
	LR-FHSSCR2/3BW336 Frequency	868.600

Time Stamp (ms)	Event	Summary
0:00:00.009489	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_019_A
0:00:00.067651	LOG	==========
0:00:00.069653	LOG	Start Test Step: Device activation
0:00:00.154433	LOG	Activation process has finished successfully
0:00:00.156400	LOG	Data stored in the DUT after Activation:
0:00:00.159434	LOG	DevAddr: 00000000
0:00:00.163402	LOG	AppEUI: 0000000000000000
0:00:00.166408	LOG	NwkSKey: 6bfb58c6a233389e6e66450a9e520a70
0:00:00.169408	LOG	AppSKey: ded4e508ab9cede444c3765e0533fcac
0:00:00.173408	LOG	End Test Step: Device activation
0:00:00.177407	LOG	Partial Verdict: PASS
0:00:00.180917	LOG	==========
0:00:00.186923	LOG	==========
0:00:00.188923	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.196923	LOG	DUT Pre-condition activation process starts
0:00:00.199923	LOG	DUT Pre-condition activation completed
0:00:00.202453	LOG	End Test Step: DUT Pre-condition settings
0:00:00.206453	LOG	Partial Verdict: PASS
0:00:00.210929	LOG	==========
0:00:00.215932	LOG	==========
0:00:00.218930	LOG	Start Test Step: Initial settings for the test
0:00:00.228930	LOG	Step 01
0:00:00.231933	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:00:00.254096	LOG	GPS Time updated: 1385122215724
0:00:00.255053	LOG	PULL_DATA: 02 694d 02 0016c001ff1025bf
0:00:00.257054	LOG	PULL_ACK: 02 694d 04
0:00:02.204795	LOG	First uplink received. Open reception window.
0:00:02.315707	LOG	PUSH_ACK: 02 2c2b 01
0:00:02.317675	LOG	GPS Time from gateway: 1385122220724
0:00:02.318675	LOG	PUSH_DATA: Protocol version = 02, Token = 2c2b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3789902457, 'time': '2023-11-27T12:10:01.724020Z', 'tmms': 1385122220724, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3354, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA5QoC8DYvcN3RK3fw9XM='}]}
0:00:02.320680	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0ae5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 77f0f573)
0:00:02.321680	LOG	Server <---------- DUT
0:00:02.323680	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 077f, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 0ea45b4a)
0:00:02.324679	LOG	Frame command sent to the DUT
0:00:02.326681	LOG	PULL_RESP: Protocol version = 02, Token = 2c82, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3791902457, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAfwfgloUOpFtK'}}
0:00:02.327680	LOG	Server ----------> DUT
0:00:02.330680	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:00:02.332680	LOG	End Test Step: Initial settings for the test
0:00:02.337190	LOG	Partial Verdict: PASS
0:00:02.341223	LOG	==========
0:00:02.346222	LOG	==========
0:00:02.349190	LOG	Start Test Step: Uplink - Max Payload via Echo for datarate SF12BW125
0:00:02.360197	LOG	Step 02-03
0:00:02.364196	LOG	Send MAC command block process starts

0:00:07.198983	LOG	First uplink received. Open reception window.
0:00:07.300521	LOG	PUSH_ACK: 02 d46f 01
0:00:07.302520	LOG	GPS Time from gateway: 1385122225724
0:00:07.304024	LOG	PUSH_DATA: Protocol version = 02, Token = d46f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3794902186, 'time': '2023-11-27T12:10:06.723748Z', 'tmms': 1385122225724, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3354, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA5goC5wSwPA5d/hh3Jtc='}]}
0:00:07.306031	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0ae6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 187726d7)
0:00:07.307032	LOG	Server <---------- DUT
0:00:07.309544	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0780, FOpts:), FPort: 00, FRMPayload: 03000700010505d2ad84), MIC: a78e6e77)
0:00:07.310543	LOG	PULL_RESP: Protocol version = 02, Token = 544d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3796902186, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAgAcAcnod60INOXjvUKeObnc='}}
0:00:07.312545	LOG	Server ----------> DUT
0:00:07.314543	LOG	TX_ACK: 02 544d 05 0016c001ff1025bf
0:00:10.465269	LOG	GPS Time updated: 1385122228991
0:00:10.466270	LOG	PULL_DATA: 02 23e5 02 0016c001ff1025bf
0:00:10.468270	LOG	PULL_ACK: 02 23e5 04
0:00:13.630533	LOG	First uplink received. Open reception window.
0:00:13.743877	LOG	PUSH_ACK: 02 a421 01
0:00:13.745846	LOG	GPS Time from gateway: 1385122232149
0:00:13.746844	LOG	PUSH_DATA: Protocol version = 02, Token = a421, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3801327996, 'time': '2023-11-27T12:10:13.149557Z', 'tmms': 1385122232149, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.2, 'foff': -3342, 'rssi': -50, 'size': 24, 'data': 'QAAAAACE5woDBwUHAmTUGMtS9ex9Z/vG'}]}
0:00:13.748852	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0ae7, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 7d67fbc6)
0:00:13.749846	LOG	Server <---------- DUT
0:00:13.751846	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:13.752845	LOG	Command Answer: 03070507
0:00:13.808012	LOG	MAC command communication completed
0:00:13.813015	LOG	Step 03-04
0:00:13.823592	LOG	Send Test Command EchoPayloadReq process starts
0:00:18.640837	LOG	Multiple frames received. Selecting the correct frame...
0:00:18.642818	LOG	Frame selected: {'jver': 1, 'tmst': 3806327724, 'time': '2023-11-27T12:10:18.149284Z', 'tmms': 1385122237149, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3326, 'rssi': -50, 'size': 22, 'data': 'QAAAAACC6AoFBwImygVI4kbf/ZCr8Q=='}
0:00:18.644394	LOG	First uplink received. Open reception window.
0:00:18.756287	LOG	PUSH_ACK: 02 83b1 01
0:00:18.758258	LOG	GPS Time from gateway: 1385122237149
0:00:18.759257	LOG	PUSH_DATA: Protocol version = 02, Token = 83b1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3806327724, 'time': '2023-11-27T12:10:18.149284Z', 'tmms': 1385122237149, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3326, 'rssi': -50, 'size': 22, 'data': 'QAAAAACC6AoFBwImygVI4kbf/ZCr8Q=='}, {'jver': 1, 'tmst': 3806327725, 'time': '2023-11-27T12:10:18.149285Z', 'tmms': 1385122237149, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 4, 'stat': 1, 'modu': 'LORA',

		'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.0, 'foff': -3325, 'rssi': -113, 'size': 22, 'data': 'QAAAAACC6AoFBwImygVI4kbf/ZCr8Q==''}]}
0:00:18.761263	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0ae8, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: fd90abf1)
0:00:18.762263	LOG	Server <---------- DUT
0:00:18.764263	LOG	MAC Command RXParamSetupAns received
0:00:18.765262	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0781, FOpts:), FPort: e0, FRMPayload: 08010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 8e0169e0)
0:00:18.767263	LOG	Frame command sent to the DUT
0:00:18.768262	LOG	PULL_RESP: Protocol version = 02, Token = 1c55, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3807327724, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAgQfgrLF6by4ZLfTIk0pTpfArZo3a/W3rWBczLhjrEkEGn7a1ZW09rlaDtGwp7XjwU6mSrt86jgFp4A==''}}
0:00:18.770262	LOG	Server ----------> DUT
0:00:18.777376	LOG	TX_ACK: 02 1c55 05 0016c001ff1025bf
0:00:20.653719	LOG	GPS Time updated: 1385122239157
0:00:20.654702	LOG	PULL_DATA: 02 a181 02 0016c001ff1025bf
0:00:20.656671	LOG	PULL_ACK: 02 a181 04
0:00:25.273781	LOG	Multiple frames received. Selecting the correct frame...
0:00:25.275815	LOG	Frame selected: {'jver': 1, 'tmst': 3812970835, 'time': '2023-11-27T12:10:24.792394Z', 'tmms': 1385122243792, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 8.2, 'foff': -3335, 'rssi': -50, 'size': 64, 'data': 'QAAAAACA6QrgyM8QiiR0kr84BnUOchIHMX/EOa63R1jmTYTZT9qNBbzxZy43kRVyaMaaghbxKb8mJONkXY5MAg==''}
0:00:25.277783	LOG	First uplink received. Open reception window.
0:00:25.392692	LOG	PUSH_ACK: 02 d7b0 01
0:00:25.394693	LOG	GPS Time from gateway: 1385122243792
0:00:25.395694	LOG	PUSH_DATA: Protocol version = 02, Token = d7b0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3812970835, 'time': '2023-11-27T12:10:24.792394Z', 'tmms': 1385122243792, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 8.2, 'foff': -3335, 'rssi': -50, 'size': 64, 'data': 'QAAAAACA6QrgyM8QiiR0kr84BnUOchIHMX/EOa63R1jmTYTZT9qNBbzxZy43kRVyaMaaghbxKb8mJONkXY5MAg==''}, {'jver': 1, 'tmst': 3812970836, 'time': '2023-11-27T12:10:24.792395Z', 'tmms': 1385122243792, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -128, 'lsnr': -15.0, 'foff': -3335, 'rssi': -113, 'size': 64, 'data': 'QAAAAACA6QrgyM8QiiR0kr84BnUOchIHMX/EOa63R1jmTYTZT9qNBbzxZy43kRVyaMaaghbxKb8mJONkXY5MAg==''}]}
0:00:25.397232	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0ae9, FOpts:), FPort: e0, FRMPayload: 08020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202), MIC: 5d8e4c02)
0:00:25.398237	LOG	Server <---------- DUT
0:00:25.400236	LOG	Frame Command Payload in the Answer: 08020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202
0:00:25.405240	LOG	Checking if the payload of the EchoPayloadAns is correct
0:00:25.409266	LOG	Send Test Command EchoPayloadReq process completed
0:00:25.414275	LOG	Step 04-05
0:00:25.419307	LOG	Send Test Command EchoPayloadReq process starts
0:00:30.733583	LOG	GPS Time updated: 1385122249249

0:00:30.734580	LOG	PULL_DATA: 02 a2eb 02 0016c001ff1025bf
0:00:30.736549	LOG	PULL_ACK: 02 a2eb 04
0:00:33.464953	LOG	First uplink received. Open reception window.
0:00:33.566376	LOG	PUSH_ACK: 02 0654 01
0:00:33.568344	LOG	GPS Time from gateway: 1385122251985
0:00:33.569375	LOG	PUSH_DATA: Protocol version = 02, Token = 0654, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3821163020, 'time': '2023-11-27T12:10:32.984576Z', 'tmms': 1385122251985, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3304, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA6goCX7306HdD3KsWcDM='}]}
0:00:33.570413	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0aea, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ab167033)
0:00:33.572420	LOG	Server <---------- DUT
0:00:33.574414	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0782, FOpts:), FPort: e0, FRMPayload: 08010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: a3ccb199)
0:00:33.575414	LOG	Frame command sent to the DUT
0:00:33.577382	LOG	PULL_RESP: Protocol version = 02, Token = a931, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3823163020, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAggfg3kSYMjzGPOfvFYxqXR+NW8TcCNV0CVpMZiJpxek8PJjm2HDWBhGzJTIJ8iM4ytecA+JXo8yxmQ=='}}
0:00:33.578381	LOG	Server ----------> DUT
0:00:33.581382	LOG	TX_ACK: 02 a931 05 0016c001ff1025bf
0:00:38.407994	LOG	First uplink received. Open reception window.
0:00:38.508956	LOG	PUSH_ACK: 02 1779 01
0:00:38.510924	LOG	GPS Time from gateway: 1385122256922
0:00:38.511924	LOG	PUSH_DATA: Protocol version = 02, Token = 1779, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3826100689, 'time': '2023-11-27T12:10:37.922246Z', 'tmms': 1385122256922, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.2, 'foff': -3297, 'rssi': -50, 'size': 64, 'data': 'QAAAAACA6wrgBcazMNJ5rRW+v4LFTSuM4l17xTvfPwD9YDyRUhzxmWDK2+WXNZ/ASFqPP2rk2k3Dvr28pmo9wg==']}
0:00:38.512925	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0aeb, FOpts:), FPort: e0, FRMPayload: 08020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202), MIC: a66a3dc2)
0:00:38.514925	LOG	Server <---------- DUT
0:00:38.516925	LOG	Frame Command Payload in the Answer: 08020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202
0:00:38.520924	LOG	Checking if the payload of the EchoPayloadAns is correct
0:00:38.524454	LOG	Send Test Command EchoPayloadReq process completed
0:00:38.527436	LOG	End Test Step: Uplink - Max Payload via Echo for datarate SF12BW125
0:00:38.531466	LOG	Partial Verdict: PASS
0:00:38.535470	LOG	==========
0:00:38.540052	LOG	==========
0:00:38.542019	LOG	Start Test Step: Uplink - Max Payload via Echo for datarate SF11BW125
0:00:38.552697	LOG	Step 02-03
0:00:38.556819	LOG	Send MAC command block process starts
0:00:40.923218	LOG	GPS Time updated: 1385122259438
0:00:40.924222	LOG	PULL_DATA: 02 2238 02 0016c001ff1025bf
0:00:40.926224	LOG	PULL_ACK: 02 2238 04

0:00:43.474000	LOG	First uplink received. Open reception window.
0:00:43.589258	LOG	PUSH_ACK: 02 bcc5 01
0:00:43.591262	LOG	GPS Time from gateway: 1385122261984
0:00:43.593283	LOG	PUSH_DATA: Protocol version = 02, Token = bcc5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3831162507, 'time': '2023-11-27T12:10:42.984063Z', 'tmms': 1385122261984, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 9.2, 'foff': -3285, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA7AoC4bmxv36bxNrp7hc='}]}
0:00:43.594295	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0aec, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: dae9ee17)
0:00:43.596277	LOG	Server <---------- DUT
0:00:43.598264	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0783, FOpts:), FPort: 00, FRMPayload: 03100700010505d2ad84), MIC: b4e6e164)
0:00:43.599261	LOG	PULL_RESP: Protocol version = 02, Token = 3d81, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3833162507, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAgwcAL7ZhnNTPXne5MLTm4WQ='}}
0:00:43.601268	LOG	Server ----------> DUT
0:00:43.604268	LOG	TX_ACK: 02 3d81 05 0016c001ff1025bf
0:00:48.018418	LOG	First uplink received. Open reception window.
0:00:48.129719	LOG	PUSH_ACK: 02 ca25 01
0:00:48.131717	LOG	GPS Time from gateway: 1385122266539
0:00:48.132753	LOG	PUSH_DATA: Protocol version = 02, Token = ca25, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3835717483, 'time': '2023-11-27T12:10:47.539038Z', 'tmms': 1385122266539, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.0, 'foff': -3286, 'rssi': -49, 'size': 24, 'data': 'QAAAAACE7QoDBwUHAv5mFNxdYw1qfNtC'}]}
0:00:48.134728	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0aed, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 6a7cdb42)
0:00:48.135722	LOG	Server <---------- DUT
0:00:48.137724	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:48.138722	LOG	Command Answer: 03070507
0:00:48.197346	LOG	MAC command communication completed
0:00:48.201345	LOG	Step 03-04
0:00:48.212819	LOG	Send Test Command EchoPayloadReq process starts
0:00:50.952861	LOG	GPS Time updated: 1385122269473
0:00:50.954824	LOG	PULL_DATA: 02 12f6 02 0016c001ff1025bf
0:00:50.956471	LOG	PULL_ACK: 02 12f6 04
0:00:52.884882	LOG	First uplink received. Open reception window.
0:00:52.986267	LOG	PUSH_ACK: 02 51e6 01
0:00:52.988235	LOG	GPS Time from gateway: 1385122271406
0:00:52.989271	LOG	PUSH_DATA: Protocol version = 02, Token = 51e6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3840584694, 'time': '2023-11-27T12:10:52.406248Z', 'tmms': 1385122271406, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.5, 'foff': -3284, 'rssi': -49, 'size': 22, 'data': 'QAAAAACC7goFBwJOuoNC1Yy7tD/LFw=='}]}
0:00:52.991235	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0aee, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: b43fcb17)
0:00:52.992781	LOG	Server <---------- DUT
0:00:52.993812	LOG	MAC Command RXParamSetupAns received
0:00:52.995780	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0784, FOpts:), FPort: e0, FRMPayload:

		08010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 7e9928f3)
0:00:52.997782	LOG	Frame command sent to the DUT
0:00:52.999813	LOG	PULL_RESP: Protocol version = 02, Token = 9ac2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3841584694, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAhAfgP7dVd1yFgrh2eqRFDdeDkdvAou8KsOqQKT+vZyMjpSNHSa61NlgHRdkaI9i7ZNRXdtUnfpko8w==''}}
0:00:53.001795	LOG	Server ----------> DUT
0:00:53.004780	LOG	TX_ACK: 02 9ac2 05 0016c001ff1025bf
0:00:56.968775	LOG	First uplink received. Open reception window.
0:00:57.071015	LOG	PUSH_ACK: 02 5b89 01
0:00:57.072980	LOG	GPS Time from gateway: 1385122275486
0:00:57.073980	LOG	PUSH_DATA: Protocol version = 02, Token = 5b89, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3844664422, 'time': '2023-11-27T12:10:56.485974Z', 'tmms': 1385122275486, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3302, 'rssi': -49, 'size': 64, 'data': 'QAAAAACA7wrgjpqtbFRejx6SjF/0Uvkzjtd/rXFmtjMrJphiyiXSFEGh7oFzrpxpSmudp20mHA41y+fRIGQL3w==''}]}
0:00:57.074981	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0aef, FOpts:), FPort: e0, FRMPayload: 08020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202), MIC: 20640bdf)
0:00:57.076981	LOG	Server <---------- DUT
0:00:57.077980	LOG	Frame Command Payload in the Answer: 08020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202
0:00:57.082578	LOG	Checking if the payload of the EchoPayloadAns is correct
0:00:57.085709	LOG	Send Test Command EchoPayloadReq process completed
0:00:57.090753	LOG	Step 04-05
0:00:57.097709	LOG	Send Test Command EchoPayloadReq process starts
0:01:00.982685	LOG	GPS Time updated: 1385122279500
0:01:00.984685	LOG	PULL_DATA: 02 b7ff 02 0016c001ff1025bf
0:01:00.986702	LOG	PULL_ACK: 02 b7ff 04
0:01:02.887107	LOG	First uplink received. Open reception window.
0:01:02.993173	LOG	PUSH_ACK: 02 aa3b 01
0:01:02.995141	LOG	GPS Time from gateway: 1385122281406
0:01:02.996140	LOG	PUSH_DATA: Protocol version = 02, Token = aa3b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3850584081, 'time': '2023-11-27T12:11:02.405632Z', 'tmms': 1385122281406, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.0, 'foff': -3281, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA8AoC1QIJxnNKbV6FRBU=''}]}
0:01:02.998141	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0af0, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5e854415)
0:01:02.999141	LOG	Server <---------- DUT
0:01:03.001141	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0785, FOpts:), FPort: e0, FRMPayload: 08010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 5e600fe9)
0:01:03.002141	LOG	Frame command sent to the DUT
0:01:03.003140	LOG	PULL_RESP: Protocol version = 02, Token = dd47, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3852584081, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data':

		'YAAAAAAAhQfggO7PkHuVqRPoilVunvLV+hx/CbtrIjvUIeOrzeWjq2vVjPQp1bMEThhAevVnGeNar6g1XmAP6Q==''}}
0:01:03.005141	LOG	Server ----------> DUT
0:01:03.007096	LOG	TX_ACK: 02 dd47 05 0016c001ff1025bf
0:01:06.586161	LOG	First uplink received. Open reception window.
0:01:06.696624	LOG	PUSH_ACK: 02 b14c 01
0:01:06.698593	LOG	GPS Time from gateway: 1385122285111
0:01:06.699592	LOG	PUSH_DATA: Protocol version = 02, Token = b14c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3854289164, 'time': '2023-11-27T12:11:06.110716Z', 'tmms': 1385122285111, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3277, 'rssi': -49, 'size': 64, 'data': 'QAAAAACA8QrgTjkKQTQaAb1Y3qsGWkGdl+gPoe/b1GgMhr9zSJOjkF84rpdlT6upstbskrfuQu6Mq14rp1FsZg==''}]}
0:01:06.701604	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0af1, FOpts:), FPort: e0, FRMPayload: 08020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202, MIC: a7516c66)
0:01:06.703603	LOG	Server <---------- DUT
0:01:06.705602	LOG	Frame Command Payload in the Answer: 08020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202
0:01:06.709616	LOG	Checking if the payload of the EchoPayloadAns is correct
0:01:06.713657	LOG	Send Test Command EchoPayloadReq process completed
0:01:06.717678	LOG	End Test Step: Uplink - Max Payload via Echo for datarate SF11BW125
0:01:06.721676	LOG	Partial Verdict: PASS
0:01:06.724643	LOG	==========
0:01:06.729649	LOG	==========
0:01:06.731648	LOG	Start Test Step: Uplink - Max Payload via Echo for datarate SF10BW125
0:01:06.743160	LOG	Step 02-03
0:01:06.747161	LOG	Send MAC command block process starts
0:01:11.192650	LOG	GPS Time updated: 1385122289717
0:01:11.194618	LOG	PULL_DATA: 02 fc5e 02 0016c001ff1025bf
0:01:11.196409	LOG	PULL_ACK: 02 fc5e 04
0:01:12.885296	LOG	First uplink received. Open reception window.
0:01:12.994096	LOG	PUSH_ACK: 02 7302 01
0:01:12.996094	LOG	GPS Time from gateway: 1385122291405
0:01:12.997096	LOG	PUSH_DATA: Protocol version = 02, Token = 7302, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3860583579, 'time': '2023-11-27T12:11:12.405130Z', 'tmms': 1385122291405, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.0, 'foff': -3279, 'rssi': -50, 'size': 20, 'data': 'QAAAAACA8goCS8jP66bOxaFUro4='}]}
0:01:12.999065	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0af2, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a154ae8e)
0:01:13.000065	LOG	Server <---------- DUT
0:01:13.002065	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0786, FOpts:), FPort: 00, FRMPayload: 03200700010505d2ad84), MIC: 1f361330)
0:01:13.004066	LOG	PULL_RESP: Protocol version = 02, Token = cab3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3862583579, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAhgcAkc/5RwxxuTGTNR82EzA='}}
0:01:13.005100	LOG	Server ----------> DUT
0:01:13.007417	LOG	TX_ACK: 02 cab3 05 0016c001ff1025bf
0:01:17.503235	LOG	#**********CURRENT BEACON SENT**********#

0:01:17.505236	LOG	PULL_RESP: Protocol version = 02, Token = 9fbb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385122304000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAASo9SfasAAAAAAAAAAA='}}
0:01:17.507208	LOG	Server ----------> DUT
0:01:17.509222	LOG	#**********# ******#
0:01:17.518211	LOG	#**********NEXT BEACON QUEUED**********#
0:01:17.520221	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385122432000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACASo9SRXYAAAAAAAAAAA='}}
0:01:17.521213	LOG	Server ----------> DUT
0:01:17.522759	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 804a8f52, CRC1: 4576, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385122432000
0:01:17.524765	LOG	#**********# ******#
0:01:17.526764	LOG	Next BEACON scheduled at GPS time (ms): 1385122560000
0:01:17.528765	LOG	First uplink received. Open reception window.
0:01:17.529765	LOG	TX_ACK: 02 9fbb 05 0016c001ff1025bf
0:01:17.629331	LOG	PUSH_ACK: 02 b38a 01
0:01:17.631299	LOG	GPS Time from gateway: 1385122296034
0:01:17.632299	LOG	PUSH_DATA: Protocol version = 02, Token = b38a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3865212886, 'time': '2023-11-27T12:11:17.034435Z', 'tmms': 1385122296034, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3282, 'rssi': -50, 'size': 24, 'data': 'QAAAAACE8woDBwUHAjmLD6CVLGPzRK0C'}]}
0:01:17.634304	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0af3, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: f344ad02)
0:01:17.636303	LOG	Server <---------- DUT
0:01:17.637305	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:17.639304	LOG	Command Answer: 03070507
0:01:17.694447	LOG	MAC command communication completed
0:01:17.698453	LOG	Step 03-04
0:01:17.708485	LOG	Send Test Command EchoPayloadReq process starts
0:01:21.282390	LOG	GPS Time updated: 1385122299787
0:01:21.284358	LOG	PULL_DATA: 02 7cb0 02 0016c001ff1025bf
0:01:21.286360	LOG	PULL_ACK: 02 7cb0 04
0:01:22.510820	LOG	First uplink received. Open reception window.
0:01:22.618741	LOG	PUSH_ACK: 02 a29e 01
0:01:22.620709	LOG	GPS Time from gateway: 1385122301034
0:01:22.621744	LOG	PUSH_DATA: Protocol version = 02, Token = a29e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3870212609, 'time': '2023-11-27T12:11:22.034157Z', 'tmms': 1385122301034, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3287, 'rssi': -49, 'size': 22, 'data': 'QAAAAACC9AoFBwJTd113kRz+1I5ezg=='}]}
0:01:22.622712	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0af4, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: d48e5ece)
0:01:22.624741	LOG	Server <---------- DUT
0:01:22.625743	LOG	MAC Command RXParamSetupAns received
0:01:22.627741	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0787, FOpts:), FPort: e0, FRMPayload:

		08010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c55a8260)
0:01:22.629709	LOG	Frame command sent to the DUT
0:01:22.630742	LOG	PULL_RESP: Protocol version = 02, Token = 7934, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3871212609, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAhwfg9Br7QN4EaAGrDocvWaZ2rCs3BOwrPztUTzsrHQ5GmNFPPSeNVt6bGlCS0pZy5FYQnAovxVqCYA==’}}
0:01:22.631741	LOG	Server ----------> DUT
0:01:22.633747	LOG	TX_ACK: 02 7934 05 0016c001ff1025bf
0:01:24.940002	LOG	First uplink received. Open reception window.
0:01:25.053666	LOG	PUSH_ACK: 02 63b3 01
0:01:25.055671	LOG	GPS Time from gateway: 1385122303464
0:01:25.056671	LOG	PUSH_DATA: Protocol version = 02, Token = 63b3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3872642543, 'time': '2023-11-27T12:11:24.464092Z', 'tmms': 1385122303464, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3295, 'rssi': -50, 'size': 64, 'data': 'QAAAAACA9QrgvvxuTqRZHukZ0ctR+EOpFEwYnJ5Vl68ATH+uaIGxasdsRxDToOyA3V6gvPBaq0VVFC4EpSWJYg==’}]}
0:01:25.057671	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0af5, FOpts:), FPort: e0, FRMPayload: 08020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202), MIC: a5258962)
0:01:25.059671	LOG	Server <---------- DUT
0:01:25.060671	LOG	Frame Command Payload in the Answer: 08020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202
0:01:25.064704	LOG	Checking if the payload of the EchoPayloadAns is correct
0:01:25.068677	LOG	Send Test Command EchoPayloadReq process completed
0:01:25.072775	LOG	Step 04-05
0:01:25.077186	LOG	Send Test Command EchoPayloadReq process starts
0:01:27.512023	LOG	First uplink received. Open reception window.
0:01:27.623440	LOG	PUSH_ACK: 02 8475 01
0:01:27.625409	LOG	GPS Time from gateway: 1385122306034
0:01:27.626410	LOG	PUSH_DATA: Protocol version = 02, Token = 8475, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3875212279, 'time': '2023-11-27T12:11:27.033827Z', 'tmms': 1385122306034, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.8, 'foff': -3281, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA9goC0ZiPlL2WXLTvkCw=’}]}
0:01:27.627409	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0af6, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b4ef902c)
0:01:27.629408	LOG	Server <---------- DUT
0:01:27.630408	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0788, FOpts:), FPort: e0, FRMPayload: 08010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 1d7e301d)
0:01:27.632408	LOG	Frame command sent to the DUT
0:01:27.633412	LOG	PULL_RESP: Protocol version = 02, Token = f44b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3877212279, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YAAAAAAAiAfgiukLPwglXjVFGq+AsJxZIpQoHIyzXr7ZZudmd4J5tjAg94RLJqci5UuOp9u4SI2vO2BVHX4wHQ==’}}
0:01:27.635413	LOG	Server ----------> DUT
0:01:27.638709	LOG	TX_ACK: 02 f44b 05 0016c001ff1025bf

0:01:30.354853	LOG	First uplink received. Open reception window.
0:01:30.469598	LOG	PUSH_ACK: 02 a9d5 01
0:01:30.471568	LOG	GPS Time from gateway: 1385122308877
0:01:30.472599	LOG	PUSH_DATA: Protocol version = 02, Token = a9d5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3878055238, 'time': '2023-11-27T12:11:29.876786Z', 'tmms': 1385122308877, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3282, 'rssi': -49, 'size': 64, 'data': 'QAAAAACA9wrg3CUkdGW9lswnsm49nyFpRtQ+gerch0Am9/VjnBiYbfQ9JWNdlBsFt7GoyJ1TmP9UKm4hFSkXPA==\'}]}
0:01:30.474606	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0af7, FOpts:), FPort: e0, FRMPayload: 08020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202, MIC: 1529173c)
0:01:30.475638	LOG	Server <---------- DUT
0:01:30.476636	LOG	Frame Command Payload in the Answer: 08020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202
0:01:30.480811	LOG	Checking if the payload of the EchoPayloadAns is correct
0:01:30.484100	LOG	Send Test Command EchoPayloadReq process completed
0:01:30.486099	LOG	End Test Step: Uplink - Max Payload via Echo for datarate SF10BW125
0:01:30.490244	LOG	Partial Verdict: PASS
0:01:30.494755	LOG	==========
0:01:30.499754	LOG	==========
0:01:30.502786	LOG	Start Test Step: Uplink - Max Payload via Echo for datarate SF9BW125
0:01:30.512838	LOG	Step 02-03
0:01:30.515880	LOG	Send MAC command block process starts
0:01:31.413118	LOG	GPS Time updated: 1385122309936
0:01:31.414117	LOG	PULL_DATA: 02 5b0f 02 0016c001ff1025bf
0:01:31.416087	LOG	PULL_ACK: 02 5b0f 04
0:01:37.501513	LOG	First uplink received. Open reception window.
0:01:37.617580	LOG	PUSH_ACK: 02 a7b6 01
0:01:37.619615	LOG	GPS Time from gateway: 1385122316033
0:01:37.620615	LOG	PUSH_DATA: Protocol version = 02, Token = a7b6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3885211758, 'time': '2023-11-27T12:11:37.033302Z', 'tmms': 1385122316033, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3287, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA+AoCqvc3to3Kg6VtmqI=\'}]}
0:01:37.621615	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0af8, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a56d9aa2)
0:01:37.623615	LOG	Server <---------- DUT
0:01:37.625583	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0789, FOpts:), FPort: 00, FRMPayload: 03300700010505d2ad84), MIC: b10ea578)
0:01:37.627584	LOG	PULL_RESP: Protocol version = 02, Token = a7a7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3887211758, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAiQcAqpff7/6htlNG3bEOpXg=\'}}
0:01:37.628614	LOG	Server ----------> DUT
0:01:37.630583	LOG	TX_ACK: 02 a7a7 05 0016c001ff1025bf
0:01:41.612359	LOG	GPS Time updated: 1385122320144
0:01:41.614359	LOG	PULL_DATA: 02 b643 02 0016c001ff1025bf
0:01:41.616105	LOG	PULL_ACK: 02 b643 04
0:01:42.336155	LOG	First uplink received. Open reception window.
0:01:42.444565	LOG	PUSH_ACK: 02 9a67 01
0:01:42.446606	LOG	GPS Time from gateway: 1385122320868

0:01:42.447601	LOG	PUSH_DATA: Protocol version = 02, Token = 9a67, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3890046761, 'time': '2023-11-27T12:11:41.868307Z', 'tmms': 1385122320868, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3292, 'rssi': -49, 'size': 24, 'data': 'QAAAAACE+QoDBwUHAjzGvRcFI0fBWctW'}]}
0:01:42.449602	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0af9, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: c159cb56)
0:01:42.450604	LOG	Server <-------------------- DUT
0:01:42.452570	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:42.453601	LOG	Command Answer: 03070507
0:01:42.513226	LOG	MAC command communication completed
0:01:42.518229	LOG	Step 03-04
0:01:42.529962	LOG	Send Test Command EchoPayloadReq process starts
0:01:47.337864	LOG	First uplink received. Open reception window.
0:01:47.442832	LOG	PUSH_ACK: 02 8f56 01
0:01:47.444797	LOG	GPS Time from gateway: 1385122325868
0:01:47.445801	LOG	PUSH_DATA: Protocol version = 02, Token = 8f56, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3895046481, 'time': '2023-11-27T12:11:46.868026Z', 'tmms': 1385122325868, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3292, 'rssi': -49, 'size': 22, 'data': 'QAAAAACC+goFBwIqJKVOl7M4TPs1LA=='}]}
0:01:47.446804	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0afa, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 4cfb352c)
0:01:47.448806	LOG	Server <-------------------- DUT
0:01:47.449805	LOG	MAC Command RXParamSetupAns received
0:01:47.451805	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 078a, FOpts:), FPort: e0, FRMPayload: 0801), MIC: dee75883)
0:01:47.453806	LOG	Frame command sent to the DUT
0:01:47.454805	LOG	PULL_RESP: Protocol version = 02, Token = acb6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3896046481, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAigfgF1Tb+sKQa4SkYQSGHoR0zUuVdM5PQ3e6ZTaxGdSn7GGJLIqQfH/AVxdchIGGhLQnXA9CvFcvk1Wmxb+RSCTM0ICL47SkFXLgWUA4P8QeCzCxVc1hQt9ih5ly/rMJwFPvmpv+U35sKrPSRiIr5Ki1aiDFNd7nWIM='}}
0:01:47.455805	LOG	Server --------------------> DUT
0:01:47.458699	LOG	TX_ACK: 02 acb6 05 0016c001ff1025bf
0:01:49.724379	LOG	First uplink received. Open reception window.
0:01:49.827612	LOG	PUSH_ACK: 02 ef8b 01
0:01:49.829180	LOG	GPS Time from gateway: 1385122328256
0:01:49.831193	LOG	PUSH_DATA: Protocol version = 02, Token = ef8b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3897435052, 'time': '2023-11-27T12:11:49.256596Z', 'tmms': 1385122328256, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3301, 'rssi': -49, 'size': 128, 'data': 'QAAAAACA+wrgv7aqUuidjifDtEWlpuGrvNOfnVBBky2VOesRGHjGsbUVWCM5nxjzSUkkYqOooOoODGmHhc027JeE38lxjteBV+Sc7aLf8wydNXoOLLTwe6BaYG8e0rWepCaVUvSAyPKLHkiSY2Tirpq6aYJ0U5w/Akucagg1Tyg='}]}
0:01:49.832182	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0afb, FOpts:), FPort: e0, FRMPayload: 080202020202020202020202020202020202020202020202020202020202020202020202020202020202020

		2020202020202020202020202020202020202020202020202020202020202020202 0202020202020202020202020202020202020202020202020202020202020202020 20202020202020202020202020202, MIC: 08354f28)
0:01:49.833186	LOG	Server <------------------- DUT
0:01:49.835729	LOG	Frame Command Payload in the Answer: 0802020202020202020202020202020202020202020202020202020202020202020 2020202020202020202020202020202020202020202020202020202020202020202 0202020202020202020202020202020202020202020202020202020202020202020 20202020202020202020202020202
0:01:49.839727	LOG	Checking if the payload of the EchoPayloadAns is correct
0:01:49.844396	LOG	Send Test Command EchoPayloadReq process completed
0:01:49.849355	LOG	Step 04-05
0:01:49.855360	LOG	Send Test Command EchoPayloadReq process starts
0:01:51.653134	LOG	GPS Time updated: 1385122330184
0:01:51.654347	LOG	PULL_DATA: 02 b562 02 0016c001ff1025bf
0:01:51.655970	LOG	PULL_ACK: 02 b562 04
0:01:52.323432	LOG	First uplink received. Open reception window.
0:01:52.433780	LOG	PUSH_ACK: 02 8e68 01
0:01:52.435781	LOG	GPS Time from gateway: 1385122330847
0:01:52.436781	LOG	PUSH_DATA: Protocol version = 02, Token = 8e68, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3900025646, 'time': '2023-11-27T12:11:51.847190Z', 'tmms': 1385122330847, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.8, 'foff': -3288, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA/AoCNP8dQH48dvN0Wv8='}]}
0:01:52.438781	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0afc, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f3745aff)
0:01:52.439781	LOG	Server <------------------- DUT
0:01:52.441816	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 078b, FOpts:), FPort: e0, FRMPayload: 0801010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101), MIC: c3c1b54d)
0:01:52.442815	LOG	Frame command sent to the DUT
0:01:52.443817	LOG	PULL_RESP: Protocol version = 02, Token = 0a26, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3902025646, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YAAAAAAAiwfguq5vOpnZHGYc78svdncwqJWhhoSwKVEFuYvz+3WS9BKEaMQo01LS/OflX5QyRl7u0KdI3rtu5bCL3bEfRaLwbj9a+b2G808quSgSJwo1fEPro0EOrfqgeA7l6os2ZDD5Zvt5EyjuBULge/qvTfD0oWqPQ8PBtU0='}}
0:01:52.445857	LOG	Server -------------------> DUT
0:01:52.447855	LOG	TX_ACK: 02 0a26 05 0016c001ff1025bf
0:01:57.042513	LOG	First uplink received. Open reception window.
0:01:57.143399	LOG	PUSH_ACK: 02 ed0a 01
0:01:57.145366	LOG	GPS Time from gateway: 1385122335573
0:01:57.146365	LOG	PUSH_DATA: Protocol version = 02, Token = ed0a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3904751880, 'time': '2023-11-27T12:11:56.573423Z', 'tmms': 1385122335573, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3289, 'rssi': -49, 'size': 128, 'data': 'QAAAAACA/QrgRBQsk1BESXxJRXvcPbbvalaM0uslVNoXU8NS4uqei7vZGZ/OvAEWRHGO8KiJ/Xb4BMVjs75sS037MhOkk45OLYfCvgbOp6YSbpKqT/jtK+p0O0GD9l8rN6E2pUPyh0arD1t84lls4Uvc30XAYkWJ0zqN/Byuvoo='}]}
0:01:57.148375	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0afd, FOpts:), FPort: e0, FRMPayload: 0802020202020202020202020202020202020202020202020202020202020202020

		2020202020202020202020202020202020202020202020202020202020202020202020202 0202020202020202020202020202020202020202020202020202020202020202020202020 2020202020202020202020202020202, MIC: 1caebe8a)
0:01:57.149375	LOG	Server <-------------------- DUT
0:01:57.151375	LOG	Frame Command Payload in the Answer: 0802020202020202020202020202020202020202020202020202020202020202020202020 2020202020202020202020202020202020202020202020202020202020202020202020202 0202020202020202020202020202020202020202020202020202020202020202020202020 2020202020202020202020202020202
0:01:57.156379	LOG	Checking if the payload of the EchoPayloadAns is correct
0:01:57.160408	LOG	Send Test Command EchoPayloadReq process completed
0:01:57.163408	LOG	End Test Step: Uplink - Max Payload via Echo for datarate SF9BW125
0:01:57.167447	LOG	Partial Verdict: PASS
0:01:57.171446	LOG	==
0:01:57.175414	LOG	==
0:01:57.178414	LOG	Start Test Step: Uplink - Max Payload via Echo for datarate SF8BW125
0:01:57.190925	LOG	Step 02-03
0:01:57.194927	LOG	Send MAC command block process starts
0:02:01.682922	LOG	GPS Time updated: 1385122340212
0:02:01.683921	LOG	PULL_DATA: 02 188f 02 0016c001ff1025bf
0:02:01.685891	LOG	PULL_ACK: 02 188f 04
0:02:02.321903	LOG	First uplink received. Open reception window.
0:02:02.431527	LOG	PUSH_ACK: 02 a800 01
0:02:02.433528	LOG	GPS Time from gateway: 1385122340847
0:02:02.434529	LOG	PUSH_DATA: Protocol version = 02, Token = a800, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3910025138, 'time': '2023-11-27T12:12:01.846680Z', 'tmms': 1385122340847, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3286, 'rssi': -49, 'size': 20, 'data': 'QAAAAACA/goCGXCRI+Uoi/61I+I='}]}
0:02:02.436530	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0afe, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: feb523e2)
0:02:02.437529	LOG	Server <-------------------- DUT
0:02:02.439530	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 078c, FOpts:), FPort: 00, FRMPayload: 03400700010505d2ad84), MIC: bda631da)
0:02:02.441529	LOG	PULL_RESP: Protocol version = 02, Token = fec2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3912025138, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAjAcAFyL9yc2Tiq/qL72mMdo='}}
0:02:02.442530	LOG	Server --------------------> DUT
0:02:02.445601	LOG	TX_ACK: 02 fec2 05 0016c001ff1025bf
0:02:07.246516	LOG	First uplink received. Open reception window.
0:02:07.349858	LOG	PUSH_ACK: 02 ee0c 01
0:02:07.351898	LOG	GPS Time from gateway: 1385122345774
0:02:07.352898	LOG	PUSH_DATA: Protocol version = 02, Token = ee0c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3914952826, 'time': '2023-11-27T12:12:06.774367Z', 'tmms': 1385122345774, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 15.2, 'foff': -3290, 'rssi': -49, 'size': 24, 'data': 'QAAAAACE/woDBwUHAvKavAUWmqXf7klI'}]}
0:02:07.354867	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0aff, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: dfee4948)
0:02:07.355899	LOG	Server <-------------------- DUT
0:02:07.357865	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:07.358865	LOG	Command Answer: 03070507

0:02:07.415207	LOG	MAC command communication completed
0:02:07.420176	LOG	Step 03-04
0:02:07.430536	LOG	Send Test Command EchoPayloadReq process starts
0:02:11.892540	LOG	GPS Time updated: 1385122350420
0:02:11.893508	LOG	PULL_DATA: 02 815d 02 0016c001ff1025bf
0:02:11.895509	LOG	PULL_ACK: 02 815d 04
0:02:12.229633	LOG	First uplink received. Open reception window.
0:02:12.330980	LOG	PUSH_ACK: 02 47dd 01
0:02:12.333017	LOG	GPS Time from gateway: 1385122350764
0:02:12.334014	LOG	PUSH_DATA: Protocol version = 02, Token = 47dd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3919942315, 'time': '2023-11-27T12:12:11.763854Z', 'tmms': 1385122350764, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 15.0, 'foff': -3289, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCAAsFBwJ+q8FMu7LS5MgTaQ=='}]}
0:02:12.336115	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b00, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: e4c81369)
0:02:12.337113	LOG	Server <-------------------- DUT
0:02:12.339115	LOG	MAC Command RXParamSetupAns received
0:02:12.341161	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 078d, FOpts:), FPort: e0, FRMPayload: 0801010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 70094d72)
0:02:12.343115	LOG	Frame command sent to the DUT
0:02:12.345114	LOG	PULL_RESP: Protocol version = 02, Token = 1ea1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3920942315, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAjQfgP3Y4GjhL28/GrSzOScdU56eAdT9rtV02QWWE0jaMUYlZi8E5m4xMvWgvvbqwCUbg1vqkCubsFsnC2EljL0GxdFWnNCI/Q1C1X3fsh8kAF1tHtBBtEi7qVKplXvpfA5Q5d4xh/QIbiz0D9t+Pod7/Ws5CZq0bkqVtOU4tdqLw+Tgkpj/0YnyAm4bxGXHKbX4ed7oLCKOZqTgF7Bw8gyHcfJjLxDMZfX/vv6medBPKVuYZ1hf0UckV6MYRV4UH8pdia6oKswJMJZeiVCBjflqKTTDI9668c5hmrGnqdJwmz3Z/mBRhl/XdZBJSaLgllfPpMRVwCU1y'}}
0:02:12.346145	LOG	Server --------------------> DUT
0:02:12.348591	LOG	TX_ACK: 02 1ea1 05 0016c001ff1025bf
0:02:14.688116	LOG	First uplink received. Open reception window.
0:02:14.797473	LOG	PUSH_ACK: 02 6cee 01
0:02:14.799442	LOG	GPS Time from gateway: 1385122353213
0:02:14.800473	LOG	PUSH_DATA: Protocol version = 02, Token = 6cee, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3922391153, 'time': '2023-11-27T12:12:14.212693Z', 'tmms': 1385122353213, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 15.0, 'foff': -3297, 'rssi': -49, 'size': 255, 'data': 'QAAAAACAAQvgLr1AosyuS0KF5wwTbwiFTSlayGLFA16J+wHu2InfrpHvHwN8HM41x7bsAxL2uDxvKT8F/fROrH8lzNQndGMpAwnVX/mYo01op3ZoMxOOraPtlouz8ZbyTtsYeoRFGcmp0fnGXdQf0L3Z/ZUcA8GasNKwq2JT6St8enFk73aD6F8f5wNop0iwmEBIr7HUZbm8x7egTUEM03Q15s9Bzq61D849E5g0nY20FORliSf1VFfaCdlZYRL9GD83Wj12FQF6LxcBFVXWG/YxDDA9dY7nXVCq3WOu3Y5Fus9EQ489ItWroglLIPM93q5m7uKbQIOgn0ahxbC/'}]}
0:02:14.802450	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b01, FOpts:), FPort: e0, FRMPayload:

		0802020202020202020202020202020202020202020202020202020202020202020 2020202020202020202020202020202020202020202020202020202020202020202 0202020202020202020202020202020202020202020202020202020202020202020 2020202020202020202020202020202020202020202020202020202020202020202 0202020202020202020202020202020202020202020202020202020202020202020 2020202020202020202020202020202020202020202020202020202020202020202 0202020202020202020202020202020202020202020202020202020202020202020 202020202020202, MIC: a1c5b0bf)
0:02:14.803469	LOG	Server <-------------------- DUT
0:02:14.805812	LOG	Frame Command Payload in the Answer: 0802020202020202020202020202020202020202020202020202020202020202020 2020202020202020202020202020202020202020202020202020202020202020202 0202020202020202020202020202020202020202020202020202020202020202020 2020202020202020202020202020202020202020202020202020202020202020202 0202020202020202020202020202020202020202020202020202020202020202020 2020202020202020202020202020202020202020202020202020202020202020202 0202020202020202020202020202020202020202020202020202020202020202020 202020202020202
0:02:14.810811	LOG	Checking if the payload of the EchoPayloadAns is correct
0:02:14.814810	LOG	Send Test Command EchoPayloadReq process completed
0:02:14.818818	LOG	Step 04-05
0:02:14.824817	LOG	Send Test Command EchoPayloadReq process starts
0:02:17.239092	LOG	First uplink received. Open reception window.
0:02:17.354169	LOG	PUSH_ACK: 02 9305 01
0:02:17.356137	LOG	GPS Time from gateway: 1385122355763
0:02:17.357136	LOG	PUSH_DATA: Protocol version = 02, Token = 9305, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3924941952, 'time': '2023-11-27T12:12:16.763492Z', 'tmms': 1385122355763, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.8, 'foff': -3290, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAAgsCotYhNCAXga+iXIg='}]}
0:02:17.358137	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b02, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: afa25c88)
0:02:17.360139	LOG	Server <-------------------- DUT
0:02:17.362171	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 078e, FOpts:), FPort: e0, FRMPayload: 0801010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 8b0272e7)
0:02:17.363170	LOG	Frame command sent to the DUT
0:02:17.365139	LOG	PULL_RESP: Protocol version = 02, Token = 83d2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3926941952, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAjgfgmO0NDHdR3mvrRGnxzyvbVaKOmDaWfvw+nUcfgAVV1+gO59JKt2kfQJWR9WCGwnaNUvbSXdmcYcnAQC+mWxijD+od8KAs8mji/ZLQmUaC61Grk+jbsJLt+XHqicSgAj4vTBQKqLYMWTW9+Pk1pSQER9AilI2p+uG0MluoR4rgPzcxCwJBNlEXZ2zW3mpb87OTSw6zOWRBVwbJQUGF/IFhqYsvcpu6uIXBEwEC2ldWU0nKrR0Z0rBiMH0mNyP1KJsGaiUmEZGG5yXYP58afnn72XSGRvOFzhvpZk+kWck2DHF9jMYdpcMUP8Z3FXl7cPxTFXiLAnLn'}}
0:02:17.366172	LOG	Server --------------------> DUT
0:02:17.369593	LOG	TX_ACK: 02 83d2 05 0016c001ff1025bf
0:02:20.379343	LOG	First uplink received. Open reception window.

0:02:20.486650	LOG	PUSH_ACK: 02 4d49 01
0:02:20.488617	LOG	GPS Time from gateway: 1385122358908
0:02:20.489618	LOG	PUSH_DATA: Protocol version = 02, Token = 4d49, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3928086970, 'time': '2023-11-27T12:12:19.908509Z', 'tmms': 1385122358908, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.8, 'foff': -3289, 'rssi': -49, 'size': 255, 'data': 'QAAAAACAAwvgG1CuYIgWApTJ/OFiGiIiDV3C4qFpoZrtvEqCIKECWNxFl WenSAQmpbI9zVfSdNoqlWtLbZupuL2iC2LYy6DOKPxrYRzWag2gTRaXG/NF uyL2qTRoJ8X8St4hp4eDVMkZ9bzNJf9ydV5q/y+pg7ekPDZ/3hsy50Ju7bMtX0oPi 1bCfjETncAgjTOpvJG5MFJ132EZjpsWmkT5L4/e4tTbjIXA4uYxRlDeIsNITxlpu6 gLraV9Pc/2MS/lh7AxWrWbHDwMm0ne0dBrdLC91mkaL34ae6zxQo52nL+PIwP yw+0gmQ5eZpyzu5Lq+O8QxzBx99Oink4X'}]}
0:02:20.491122	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b03, FOpts:), FPort: e0, FRMPayload: 0802020202020202020202020202020202020202020202020202020202020202020 2020202020202020202020202020202020202020202020202020202020202020202 0202020202020202020202020202020202020202020202020202020202020202020 2020202020202020202020202020202020202020202020202020202020202020202 0202020202020202020202020202020202020202020202020202020202020202020 2020202020202020202020202020202020202020202020202020202020202020202 0202020202020202020202020202020202020202020202020202020202020202020 202020202020202, MIC: a29e4e17)
0:02:20.492128	LOG	Server <-------------------- DUT
0:02:20.494128	LOG	Frame Command Payload in the Answer: 0802020202020202020202020202020202020202020202020202020202020202020 2020202020202020202020202020202020202020202020202020202020202020202 0202020202020202020202020202020202020202020202020202020202020202020 2020202020202020202020202020202020202020202020202020202020202020202 0202020202020202020202020202020202020202020202020202020202020202020 2020202020202020202020202020202020202020202020202020202020202020202 0202020202020202020202020202020202020202020202020202020202020202020 202020202020202
0:02:20.500129	LOG	Checking if the payload of the EchoPayloadAns is correct
0:02:20.504129	LOG	Send Test Command EchoPayloadReq process completed
0:02:20.507161	LOG	End Test Step: Uplink - Max Payload via Echo for datarate SF8BW125
0:02:20.511198	LOG	Partial Verdict: PASS
0:02:20.515198	LOG	==
0:02:20.519199	LOG	==
0:02:20.521198	LOG	Start Test Step: Uplink - Max Payload via Echo for datarate SF7BW125
0:02:20.532334	LOG	Step 02-03
0:02:20.536282	LOG	Send MAC command block process starts
0:02:21.982601	LOG	GPS Time updated: 1385122360511
0:02:21.983599	LOG	PULL_DATA: 02 49e7 02 0016c001ff1025bf
0:02:21.985618	LOG	PULL_ACK: 02 49e7 04
0:02:27.227389	LOG	First uplink received. Open reception window.
0:02:27.342751	LOG	PUSH_ACK: 02 b0d8 01
0:02:27.344802	LOG	GPS Time from gateway: 1385122365763
0:02:27.345790	LOG	PUSH_DATA: Protocol version = 02, Token = b0d8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3934941446, 'time': '2023-11-27T12:12:26.762984Z', 'tmms': 1385122365763, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3282, 'rssi': -50, 'size': 20, 'data': 'QAAAAACABAsCvZo81YuXOZIphLs='}]}
0:02:27.347757	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b04, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 922984bb)
0:02:27.348791	LOG	Server <-------------------- DUT

0:02:27.350757	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 078f, FOpts:), FPort: 00, FRMPayload: 03500700010505d2ad84), MIC: b8f61568)
0:02:27.352763	LOG	PULL_RESP: Protocol version = 02, Token = 647e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3936941446, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAjwcAmZEnHCcb1SKTu7j2FWg='}}
0:02:27.353796	LOG	Server --------------------> DUT
0:02:27.356505	LOG	TX_ACK: 02 647e 05 0016c001ff1025bf
0:02:32.182252	LOG	GPS Time updated: 1385122370718
0:02:32.184520	LOG	PULL_DATA: 02 3e9f 02 0016c001ff1025bf
0:02:32.186091	LOG	PULL_ACK: 02 3e9f 04
0:02:32.193756	LOG	First uplink received. Open reception window.
0:02:32.301575	LOG	PUSH_ACK: 02 64f3 01
0:02:32.304081	LOG	GPS Time from gateway: 1385122370721
0:02:32.305123	LOG	PUSH_DATA: Protocol version = 02, Token = 64f3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3939900082, 'time': '2023-11-27T12:12:31.721619Z', 'tmms': 1385122370721, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3278, 'rssi': -50, 'size': 24, 'data': 'QAAAAACEBQsDBwUHAjaji6DJ53r5dz0T'}]}
0:02:32.307090	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0b05, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: f9773d13)
0:02:32.308087	LOG	Server <-------------------- DUT
0:02:32.310090	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:32.312125	LOG	Command Answer: 03070507
0:02:32.366721	LOG	MAC command communication completed
0:02:32.371728	LOG	Step 03-04
0:02:32.381727	LOG	Send Test Command EchoPayloadReq process starts
0:02:37.189879	LOG	First uplink received. Open reception window.
0:02:37.297478	LOG	PUSH_ACK: 02 02f2 01
0:02:37.299445	LOG	GPS Time from gateway: 1385122375716
0:02:37.300479	LOG	PUSH_DATA: Protocol version = 02, Token = 02f2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3944894692, 'time': '2023-11-27T12:12:36.716228Z', 'tmms': 1385122375716, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3282, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCBgsFBwLAYrihNUwIPptasQ=='}]}
0:02:37.302448	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b06, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 3e9b5ab1)
0:02:37.303448	LOG	Server <-------------------- DUT
0:02:37.305542	LOG	MAC Command RXParamSetupAns received
0:02:37.307542	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0790, FOpts:), FPort: e0, FRMPayload: 0801010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: b8b97753)
0:02:37.309586	LOG	Frame command sent to the DUT
0:02:37.310577	LOG	PULL_RESP: Protocol version = 02, Token = af3e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3945894692, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data':

		'YAAAAAAAkAfgbTMVs1cXMq6Mz4KFQftCXaDrjGocsPYGctFBa8V18kUFjOU1+ViJgMquH65PWWpbDbwrsDbZOYnN5zkW13alcmUMTs5ir1UJjoQHPWNRSMWt3HFLNtXCc43nwkWLFav24OCBq4HYpRSx7iD1GJ2Gql0nlO2LzTPIssAI8NHrQqK+tGHVrBK9EfV0a/ump8qz1edCInqOYQBbNvovGSGwcQkyQuFOYY+t8R7rjgzWIO2OdjDa+Bu+CPrcZJD9qp2xw27CS3SAHsaH543k56NwIPNlhIBkeyTpf1rAD0d5/WKnNGp5qkyP//qkIzekbkJDwUa4uXdT'}}
0:02:37.312574	LOG	Server --------------------> DUT
0:02:37.315569	LOG	TX_ACK: 02 af3e 05 0016c001ff1025bf
0:02:39.020627	LOG	First uplink received. Open reception window.
0:02:39.127034	LOG	PUSH_ACK: 02 5bef 01
0:02:39.129002	LOG	GPS Time from gateway: 1385122377554
0:02:39.130001	LOG	PUSH_DATA: Protocol version = 02, Token = 5bef, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3946733094, 'time': '2023-11-27T12:12:38.554630Z', 'tmms': 1385122377554, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3297, 'rssi': -49, 'size': 255, 'data': 'QAAAAACABwvgNtRprIkYNHCfY6ORQkyo1SZMzOoeYQho0Mnm41S+yMtUB3/XcL2/OtF3eKb5l2P1wUDQ+6hOsimSt3Q+Hb0kN1g//IDAOsk5L0qfxTfRUMobCk+fQJWs2hdy+5YRlR+a4Ou0bfzWLxI9rblg4CsbMNe7FAe1FfP66YCaVb7GjO8WYeMm7nxviZ3n5Qmodlv57jiXupXxR0o7pXMOZsOVkVl16JLxBhaCZuz8A797alANZZxW9kdAHCWAdgNtnVhnbR+c6ykz4XxdRf+2hkakc3wY+Mtc8k1xcBTdJOHXLgBAAFArw+vZn5luL+DHbNe2XWrgOvFn'}]}
0:02:39.131002	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b07, FOpts:), FPort: e0, FRMPayload: 0802, MIC: e03af167)
0:02:39.133008	LOG	Server <-------------------- DUT
0:02:39.135013	LOG	Frame Command Payload in the Answer: 0802
0:02:39.138910	LOG	Checking if the payload of the EchoPayloadAns is correct
0:02:39.141951	LOG	Send Test Command EchoPayloadReq process completed
0:02:39.144926	LOG	Step 04-05
0:02:39.150499	LOG	Send Test Command EchoPayloadReq process starts
0:02:42.186830	LOG	First uplink received. Open reception window.
0:02:42.295590	LOG	PUSH_ACK: 02 7ea4 01
0:02:42.297590	LOG	GPS Time from gateway: 1385122380716
0:02:42.298589	LOG	PUSH_DATA: Protocol version = 02, Token = 7ea4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3949894325, 'time': '2023-11-27T12:12:41.715860Z', 'tmms': 1385122380716, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3278, 'rssi': -49, 'size': 20, 'data': 'QAAAAACACAsCXcqtSETUqsw1ce8='}]}
0:02:42.300589	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b08, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: cc3571ef)
0:02:42.301589	LOG	Server <-------------------- DUT

0:02:42.303589	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0791, FOpts:), FPort: e0, FRMPayload: 08010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 8963d483)
0:02:42.305135	LOG	Frame command sent to the DUT
0:02:42.307118	LOG	PULL_RESP: Protocol version = 02, Token = f17b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3951894325, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAkQfg0p6EBxTmKDVQefvrD65SOamby2XtUdRfuKjkJKQdpriUNz Cv+KqCivR8hboxfme9PgcjQpSBXMNHBA5Cz89u4f0aAz0W9BMdCYLFHx/q3r beyVidQKv12GUDRm/Y3BmK3JvV2GiGQiqmsfItvI7I3XD/Dq4Te7PTNaoJrYp1 CsW2lftETk9PTj3KngIsAD74v4iuTBKGg8PuJ4kGelAGn3OovlrdG7u6Wb/wJSm hSrnuw8YvNgZxWfLWLE4RXAx6EZvWP0JdZ6+Wo75FvzndL456VND3SKHA CqyoJXPF8uAnduSsjHkl0Lx8RJuImOiZtr6JY9SD'}}
0:02:42.309103	LOG	Server --------------------> DUT
0:02:42.311102	LOG	TX_ACK: 02 f17b 05 0016c001ff1025bf
0:02:42.313101	LOG	GPS Time updated: 1385122380843
0:02:42.314101	LOG	PULL_DATA: 02 736c 02 0016c001ff1025bf
0:02:42.316100	LOG	PULL_ACK: 02 736c 04
0:02:45.020954	LOG	First uplink received. Open reception window.
0:02:45.124459	LOG	PUSH_ACK: 02 b027 01
0:02:45.126458	LOG	GPS Time from gateway: 1385122383553
0:02:45.127462	LOG	PUSH_DATA: Protocol version = 02, Token = b027, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3952732100, 'time': '2023-11-27T12:12:44.553635Z', 'tmms': 1385122383553, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3286, 'rssi': -50, 'size': 255, 'data': 'QAAAAACACQvgS4vFwXXlnK15L3TRyoRsPlbpIUnbS/D7oMOLqlbMHS+M3 auxRZ8rXQgz+y78C9h4Cnb6+OqS3FhXis66aMBA0ugpGaWtDv+mRi/S75ujpS0 24ilvgpcPhNSkXT40PLaAfgnwXY0XXVIsNHWwaMcUa8N63KgdYX6XF8vYS qSTPJWXzqkrThjtYvPtVO7At1LhY9Tzq46dXy3AKwCPYUhqT52MH0qJGKW2 ssWDgbdgKvPEpPP+2Ft1hPE+cPqzbWzi3oV8MEdU29ezWKu9pvigHaQ+Ob6A Qt6vLNWHmK9yct4H0E/nHcPuJPcCsePnbZguOej6L2W0'}]}
0:02:45.128462	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b09, FOpts:), FPort: e0, FRMPayload: 08020202020202020202020202020202020202020202020202020202020 20202020202020202020202020202020202020202020202020202020202 02020202020202020202020202020202020202020202020202020202020 20202020202020202020202020202020202020202020202020202020202 02020202020202020202020202020202020202020202020202020202020 20202020202020202020202020202020202020202020202020202020202 02020202020202020202020202020202020202020202020202020202020 202020202020202, MIC: fa2f65b4)
0:02:45.130427	LOG	Server <-------------------- DUT
0:02:45.132433	LOG	Frame Command Payload in the Answer: 08020202020202020202020202020202020202020202020202020202020 20202020202020202020202020202020202020202020202020202020202 02020202020202020202020202020202020202020202020202020202020 20202020202020202020202020202020202020202020202020202020202 02020202020202020202020202020202020202020202020202020202020 20202020202020202020202020202020202020202020202020202020202

		0202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202
0:02:45.136181	LOG	Checking if the payload of the EchoPayloadAns is correct
0:02:45.138727	LOG	Send Test Command EchoPayloadReq process completed
0:02:45.141763	LOG	End Test Step: Uplink - Max Payload via Echo for datarate SF7BW125
0:02:45.145760	LOG	Partial Verdict: PASS
0:02:45.149337	LOG	==========
0:02:45.154342	LOG	==========
0:02:45.157357	LOG	Start Test Step: Uplink - Max Payload via Echo for optional datarate SF7BW250
0:02:45.168857	LOG	Send NewChannelReq process starts
0:02:47.184862	LOG	First uplink received. Open reception window.
0:02:47.298242	LOG	PUSH_ACK: 02 de32 01
0:02:47.300211	LOG	GPS Time from gateway: 1385122385716
0:02:47.301209	LOG	PUSH_DATA: Protocol version = 02, Token = de32, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3954894134, 'time': '2023-11-27T12:12:46.715667Z', 'tmms': 1385122385716, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3282, 'rssi': -50, 'size': 20, 'data': 'QAAAAACACgsC6OWkkaujslVRYzk='}]}
0:02:47.302214	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b0a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 55516339)
0:02:47.304725	LOG	Server <---------- DUT
0:02:47.306726	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0792, FOpts:), FPort: 00, FRMPayload: 070328768466), MIC: 622870cb)
0:02:47.308725	LOG	PULL_RESP: Protocol version = 02, Token = 9c47, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3956894134, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YAAAAAAAkgcApm6a+FtTYihwyw=='}}
0:02:47.310725	LOG	Server ----------> DUT
0:02:47.315725	LOG	TX_ACK: 02 9c47 05 0016c001ff1025bf
0:02:52.183611	LOG	First uplink received. Open reception window.
0:02:52.286464	LOG	PUSH_ACK: 02 8425 01
0:02:52.288467	LOG	GPS Time from gateway: 1385122390715
0:02:52.289473	LOG	PUSH_DATA: Protocol version = 02, Token = 8425, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3959893998, 'time': '2023-11-27T12:12:51.715530Z', 'tmms': 1385122390715, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3278, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCCwsHAwLgpLUUkZRjTTVDiw=='}]}
0:02:52.291474	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b0b, FOpts: 0703), FPort: 02, FRMPayload: 00000001020000, MIC: 4d35438b)
0:02:52.292475	LOG	Server <---------- DUT
0:02:52.294475	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:52.296475	LOG	Command Answer: 0703
0:02:52.300472	LOG	MAC command communication completed
0:02:52.305987	LOG	Step 02-03
0:02:52.310017	LOG	Send MAC command block process starts
0:02:52.362118	LOG	GPS Time updated: 1385122390894
0:02:52.364168	LOG	PULL_DATA: 02 0ff0 02 0016c001ff1025bf
0:02:52.365171	LOG	PULL_ACK: 02 0ff0 04
0:02:57.189635	LOG	First uplink received. Open reception window.
0:02:57.298447	LOG	PUSH_ACK: 02 14a2 01
0:02:57.300410	LOG	GPS Time from gateway: 1385122395715
0:02:57.301412	LOG	PUSH_DATA: Protocol version = 02, Token = 14a2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3964893673, 'time': '2023-11-27T12:12:56.715206Z', 'tmms': 1385122395715, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3278, 'rssi': -50, 'size': 20, 'data': 'QAAAAACADAsCAZzTfshuJn+tRmo='}]}
0:02:57.303459	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b0c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 7fad466a)
0:02:57.305032	LOG	Server <-------------------- DUT
0:02:57.307033	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0793, FOpts:), FPort: 00, FRMPayload: 03600f00010505d2ad84), MIC: f7a66e9f)
0:02:57.310039	LOG	PULL_RESP: Protocol version = 02, Token = ea1b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3966893673, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAkwcA9gv1cyeUv2oxJvembp8='}}
0:02:57.312033	LOG	Server --------------------> DUT
0:02:57.315016	LOG	TX_ACK: 02 ea1b 05 0016c001ff1025bf
0:03:02.153525	LOG	First uplink received. Open reception window.
0:03:02.267447	LOG	PUSH_ACK: 02 f661 01
0:03:02.269414	LOG	GPS Time from gateway: 1385122400689
0:03:02.271423	LOG	PUSH_DATA: Protocol version = 02, Token = f661, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3969867836, 'time': '2023-11-27T12:13:01.689368Z', 'tmms': 1385122400689, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3278, 'rssi': -50, 'size': 24, 'data': 'QAAAAACEDQsDBwUHAsoERF4ZTXs4YSWL'}]}
0:03:02.272928	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0b0d, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 3861258b)
0:03:02.273934	LOG	Server <-------------------- DUT
0:03:02.275935	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:03:02.278448	LOG	Command Answer: 03070507
0:03:02.343550	LOG	MAC command communication completed
0:03:02.347549	LOG	Step 03-04
0:03:02.359558	LOG	Send Test Command EchoPayloadReq process starts
0:03:02.383649	LOG	GPS Time updated: 1385122400919
0:03:02.385682	LOG	PULL_DATA: 02 1787 02 0016c001ff1025bf
0:03:02.386683	LOG	PULL_ACK: 02 1787 04
0:03:07.160307	LOG	First uplink received. Open reception window.
0:03:07.268431	LOG	PUSH_ACK: 02 3c7b 01
0:03:07.270431	LOG	GPS Time from gateway: 1385122405686
0:03:07.271432	LOG	PUSH_DATA: Protocol version = 02, Token = 3c7b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3974865004, 'time': '2023-11-27T12:13:06.686535Z', 'tmms': 1385122405686, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3278, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCDgsFBwKtbC+xbKl62/56hA=='}]}
0:03:07.273443	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b0e, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: dbfe7a84)
0:03:07.274448	LOG	Server <-------------------- DUT
0:03:07.276444	LOG	MAC Command RXParamSetupAns received
0:03:07.279445	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0794, FOpts:), FPort: e0, FRMPayload: 0801010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 9f3390c6)

0:03:07.280443	LOG	Frame command sent to the DUT
0:03:07.282956	LOG	PULL_RESP: Protocol version = 02, Token = e52a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3975865004, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAlAfgZDq2xLLPZnhmVk/5b2L01IVG1K71MaylnP5gVbc32TylMUNP4fQHDtXIgELpAi2IRk+nxLqpXIPvdsGU/qNH2eho6Wyg0nDl/Urwt7axvsHVSLZuHnxAYSJ4U8htTzs1n9LxYx5r+AIxhe1Q6WkEgs4Q0rQup2per+YlNLNLJVd60b7okc2SQPrOpiEBPiFs5W5DieoPTyU+5z7EmrXmmdshKV/Pit/5ALBzbmxm1eq1Hv/9XG6z2mIKs1oXDfaO9wT+Rfj9BH3MFDR/5/IhlAoO2XQ76y89P2+1bsdaZqFCdImsRL16de02lgAbNXDR7uyfM5DG'}}
0:03:07.283960	LOG	Server --------------------> DUT
0:03:07.288960	LOG	TX_ACK: 02 e52a 05 0016c001ff1025bf
0:03:08.594986	LOG	First uplink received. Open reception window.
0:03:08.699059	LOG	PUSH_ACK: 02 7a3e 01
0:03:08.701060	LOG	GPS Time from gateway: 1385122407127
0:03:08.702061	LOG	PUSH_DATA: Protocol version = 02, Token = 7a3e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3976305355, 'time': '2023-11-27T12:13:08.126886Z', 'tmms': 1385122407127, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3278, 'rssi': -49, 'size': 255, 'data': 'QAAAAACADwvg8b8Nl4OCiiE4xsw8VpdyvfwSRptK8/tYgst6fCtR8At27gcN6ENRq1smrmFI4nmVaI3SWgnu010SE3uFlOtqk8mrHBD082OZCXXUtS274IEraz696rTu+H3h1rSg0ZkCjIAwhkvM4+qoFO1rbvzOvKSUA04aVnDAvPBylr3Orysl6w0yeKjYDds2bRgYTWiLZVB0OPsW5IUA5IPvo0EpO5ydhsTwidIV8kT8HZu5MEbwrlydZUIhQvoiMknuNGvnmANpeldRnX3dy0/NELjrGcR7d2zktGdDh8eXltncGCXkarEJuxa/RYMdXogypY1ormNDkUyq'}]}
0:03:08.704067	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b0f, FOpts:), FPort: e0, FRMPayload: 0802, MIC: 43914caa)
0:03:08.705067	LOG	Server <-------------------- DUT
0:03:08.707066	LOG	Frame Command Payload in the Answer: 0802
0:03:08.711099	LOG	Checking if the payload of the EchoPayloadAns is correct
0:03:08.714101	LOG	Send Test Command EchoPayloadReq process completed
0:03:08.719102	LOG	Step 04-05
0:03:08.725101	LOG	Send Test Command EchoPayloadReq process starts
0:03:12.156361	LOG	First uplink received. Open reception window.
0:03:12.267483	LOG	PUSH_ACK: 02 2d69 01
0:03:12.269451	LOG	GPS Time from gateway: 1385122410686
0:03:12.270452	LOG	PUSH_DATA: Protocol version = 02, Token = 2d69, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3979864643, 'time': '2023-11-27T12:13:11.686173Z', 'tmms': 1385122410686, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.5, 'foff': -3247, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAEAsCiYr+3tqnW0R8pF8='}]}
0:03:12.272453	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b10, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 447ca45f)
0:03:12.273965	LOG	Server <-------------------- DUT
0:03:12.275965	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0795, FOpts:), FPort: e0, FRMPayload: 0801010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: f540b832)
0:03:12.278970	LOG	Frame command sent to the DUT
0:03:12.280970	LOG	PULL_RESP: Protocol version = 02, Token = 73c7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3981864643, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAlQfgU43cp7NzTEFWyRMQ13QZpd9/y/yuKvvw5FE4/0U4eot+jCk Q13CtWjvVbcduXnbc0wUa0v2JFf4dZ2c24rDEiYm9QfuM/JjGi+fkCwwEWXcn9 8t0yWJS+DicfebjdIEhZpUk+K0OKi8+uBBhMlNcsovBtT1KO/La4l8Er/BkeaBV9 7o8Sk2MZFVz8QP7gMzOsgHilcwthETxlcWClMVLNdXzGFBehpwVxJfP5gNwr Pknd9g/QWKXPOny5bbb8/04eGfESajbvlPjt9fbXeI6zNzbVysIGzpXmUoaQApXr KmvngA992jNXzEJ/jpdS32m9qj1QLgy'}}
0:03:12.281965	LOG	Server --------------------> DUT
0:03:12.284967	LOG	TX_ACK: 02 73c7 05 0016c001ff1025bf
0:03:12.491934	LOG	GPS Time updated: 1385122411021
0:03:12.492967	LOG	PULL_DATA: 02 48ab 02 0016c001ff1025bf
0:03:12.494936	LOG	PULL_ACK: 02 48ab 04
0:03:14.792192	LOG	First uplink received. Open reception window.
0:03:14.897305	LOG	PUSH_ACK: 02 0ebb 01
0:03:14.899310	LOG	GPS Time from gateway: 1385122413324
0:03:14.901311	LOG	PUSH_DATA: Protocol version = 02, Token = 0ebb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3982502694, 'time': '2023-11-27T12:13:14.324222Z', 'tmms': 1385122413324, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3278, 'rssi': -49, 'size': 255, 'data': 'QAAAAACAEQvgOEsTmQor5I2XjWt6t+xPcZilbIddgiB2Sc51vRHuvVwOarfBli FWB7OLCepPxrk2A2O2zRC1SEWPw3FO9gEoaY5fUo5IGkpOjPhEcTg9HOA7f 9jbAgsjHInmygNg4trVSHMPnrdD4IZFe2ssV7napPVMtwZjqdWHnHkAJ05YSM 0wmhpSyLJnTn4wM626Ds4Ziu30ZGeZew9y1iDHowmzA3h8OOYvXNq2cNnd WwAN3RUYrAke4qbj5BRvsbN6Miu3VmQ9T7zK2SmWdNlVjXG3/9+Tg0rUyK 0RODDoQI7pBudXX7QnEKgEjQUDejJ8+ccTN/mSPQOa'}]}
0:03:14.902342	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b11, FOpts:), FPort: e0, FRMPayload: 0802020202020202020202020202020202020202020202020202020202020202020 2020202020202020202020202020202020202020202020202020202020202020202 0202020202020202020202020202020202020202020202020202020202020202020 2020202020202020202020202020202020202020202020202020202020202020202 0202020202020202020202020202020202020202020202020202020202020202020 2020202020202020202020202020202020202020202020202020202020202020202 0202020202020202020202020202020202020202020202020202020202020202020 202020202020202, MIC: 923d039a)
0:03:14.903343	LOG	Server <-------------------- DUT
0:03:14.905312	LOG	Frame Command Payload in the Answer: 0802020202020202020202020202020202020202020202020202020202020202020

		202
0:03:14.909312	LOG	Checking if the payload of the EchoPayloadAns is correct
0:03:14.913344	LOG	Send Test Command EchoPayloadReq process completed
0:03:14.917349	LOG	Send LinkADRReq process starts
0:03:17.156627	LOG	First uplink received. Open reception window.
0:03:17.267433	LOG	PUSH_ACK: 02 18be 01
0:03:17.269400	LOG	GPS Time from gateway: 1385122415686
0:03:17.270401	LOG	PUSH_DATA: Protocol version = 02, Token = 18be, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3984864384, 'time': '2023-11-27T12:13:16.685913Z', 'tmms': 1385122415686, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3278, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAEgsC6cIN4Zd1JRfmNBg='}]}
0:03:17.272405	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b12, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 17e63418)
0:03:17.273918	LOG	Server <-------------------- DUT
0:03:17.275918	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0796, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: 3d0dcf52)
0:03:17.277921	LOG	PULL_RESP: Protocol version = 02, Token = 065d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3986864384, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAlgcAE+nHh889Dc9S'}}
0:03:17.280001	LOG	Server --------------------> DUT
0:03:17.283969	LOG	TX_ACK: 02 065d 05 0016c001ff1025bf
0:03:22.188692	LOG	First uplink received. Open reception window.
0:03:22.300246	LOG	PUSH_ACK: 02 e2f6 01
0:03:22.302758	LOG	GPS Time from gateway: 1385122420714
0:03:22.304264	LOG	PUSH_DATA: Protocol version = 02, Token = e2f6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3989892520, 'time': '2023-11-27T12:13:21.714048Z', 'tmms': 1385122420714, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3271, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCEwsDBwLTY7UAVfTRFVs1Bw=='}]}
0:03:22.306271	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b13, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 155b3507)
0:03:22.307271	LOG	Server <-------------------- DUT
0:03:22.310274	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:03:22.312275	LOG	Command Answer: 0307
0:03:22.320276	LOG	MAC command communication completed
0:03:22.324276	LOG	Send NewChannelReq process starts
0:03:22.531820	LOG	GPS Time updated: 1385122421057
0:03:22.533421	LOG	PULL_DATA: 02 f066 02 0016c001ff1025bf
0:03:22.535714	LOG	PULL_ACK: 02 f066 04
0:03:27.184504	LOG	#***************************CURRENT BEACON SENT***************************#
0:03:27.186503	LOG	PULL_RESP: Protocol version = 02, Token = 4339, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385122432000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACASo9SRXYAAAAAAAAAAAA='}}
0:03:27.187504	LOG	Server --------------------> DUT

0:03:27.189504	LOG	#**********# ******#
0:03:27.198507	LOG	#**********NEXT BEACON QUEUED**********#
0:03:27.200546	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385122560000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAS49STZwAAAAAAAAAAA='}}
0:03:27.201540	LOG	Server ----------> DUT
0:03:27.202541	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 004b8f52, CRC1: 4d9c, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385122560000
0:03:27.204513	LOG	#**********# ******#
0:03:27.205541	LOG	Next BEACON scheduled at GPS time (ms): 1385122688000
0:03:27.206848	LOG	First uplink received. Open reception window.
0:03:27.208810	LOG	TX_ACK: 02 4339 05 0016c001ff1025bf
0:03:27.314500	LOG	PUSH_ACK: 02 1cff 01
0:03:27.316499	LOG	GPS Time from gateway: 1385122425713
0:03:27.317531	LOG	PUSH_DATA: Protocol version = 02, Token = 1cff, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3994892152, 'time': '2023-11-27T12:13:26.713678Z', 'tmms': 1385122425713, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3278, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAFAsCtjzOTKp+ouFhfpA='}]}
0:03:27.319534	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b14, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e1617e90)
0:03:27.320574	LOG	Server <---------- DUT
0:03:27.322542	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0797, FOpts:), FPort: 00, FRMPayload: 070300000050), MIC: eb936947)
0:03:27.324540	LOG	PULL_RESP: Protocol version = 02, Token = 2733, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3996892152, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YAAAAAAAlwcApJdn9/Wd65NpRw=='}}
0:03:27.325571	LOG	Server ----------> DUT
0:03:27.328068	LOG	TX_ACK: 02 2733 05 0016c001ff1025bf
0:03:32.178669	LOG	First uplink received. Open reception window.
0:03:32.287563	LOG	PUSH_ACK: 02 5730 01
0:03:32.289570	LOG	GPS Time from gateway: 1385122430713
0:03:32.290571	LOG	PUSH_DATA: Protocol version = 02, Token = 5730, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 3999892036, 'time': '2023-11-27T12:13:31.713563Z', 'tmms': 1385122430713, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3274, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCFQsHAwK+Q0P0g3is8FkGyg=='}]}
0:03:32.292584	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b15, FOpts: 0703), FPort: 02, FRMPayload: 00000001020000, MIC: f05906ca)
0:03:32.293580	LOG	Server <---------- DUT
0:03:32.295579	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:03:32.297580	LOG	Command Answer: 0703
0:03:32.302576	LOG	MAC command communication completed
0:03:32.306119	LOG	End Test Step: Uplink - Max Payload via Echo for optional datarate SF7BW250
0:03:32.310800	LOG	Partial Verdict: PASS
0:03:32.315320	LOG	==========
0:03:32.322331	LOG	==========
0:03:32.324327	LOG	Start Test Step: Uplink - Max Payload via Echo for optional datarate FSK
0:03:32.336842	LOG	Send NewChannelReq process starts

0:03:32.571901	LOG	GPS Time updated: 1385122431107
0:03:32.572900	LOG	PULL_DATA: 02 a24d 02 0016c001ff1025bf
0:03:32.574900	LOG	PULL_ACK: 02 a24d 04
0:03:37.180939	LOG	First uplink received. Open reception window.
0:03:37.287402	LOG	PUSH_ACK: 02 918e 01
0:03:37.289379	LOG	GPS Time from gateway: 1385122435713
0:03:37.290378	LOG	PUSH_DATA: Protocol version = 02, Token = 918e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4004891674, 'time': '2023-11-27T12:13:36.713200Z', 'tmms': 1385122435713, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.8, 'foff': -3278, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAFgsCA7EWxw1TlDQwOl4='}]}
0:03:37.291382	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b16, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 34303a5e)
0:03:37.293383	LOG	Server <---------- DUT
0:03:37.295383	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0798, FOpts:), FPort: 00, FRMPayload: 070428768477), MIC: 500796f0)
0:03:37.297383	LOG	PULL_RESP: Protocol version = 02, Token = 7fa1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4006891674, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YAAAAAAAmAcAPq8qkF3rUAeW8A=='}}
0:03:37.298383	LOG	Server ----------> DUT
0:03:37.300969	LOG	TX_ACK: 02 7fa1 05 0016c001ff1025bf
0:03:42.183996	LOG	First uplink received. Open reception window.
0:03:42.292842	LOG	PUSH_ACK: 02 2aa3 01
0:03:42.294842	LOG	GPS Time from gateway: 1385122440713
0:03:42.295844	LOG	PUSH_DATA: Protocol version = 02, Token = 2aa3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4009891515, 'time': '2023-11-27T12:13:41.713040Z', 'tmms': 1385122440713, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3278, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCFwsHAwIcF0oacc8ivC2jsw=='}]}
0:03:42.297850	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b17, FOpts: 0703), FPort: 02, FRMPayload: 00000001020000, MIC: bc2da3b3)
0:03:42.298851	LOG	Server <---------- DUT
0:03:42.300852	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:03:42.302852	LOG	Command Answer: 0703
0:03:42.308365	LOG	MAC command communication completed
0:03:42.314373	LOG	Step 02-03
0:03:42.318371	LOG	Send MAC command block process starts
0:03:42.751931	LOG	GPS Time updated: 1385122441281
0:03:42.752929	LOG	PULL_DATA: 02 6166 02 0016c001ff1025bf
0:03:42.754931	LOG	PULL_ACK: 02 6166 04
0:03:47.180782	LOG	First uplink received. Open reception window.
0:03:47.292475	LOG	PUSH_ACK: 02 1fdb 01
0:03:47.294446	LOG	GPS Time from gateway: 1385122445712
0:03:47.295475	LOG	PUSH_DATA: Protocol version = 02, Token = 1fdb, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4014891158, 'time': '2023-11-27T12:13:46.712682Z', 'tmms': 1385122445712, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3278, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAGAsCFZ1YtdmhsGF/kTs='}]}
0:03:47.297444	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b18, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 617f913b)
0:03:47.298479	LOG	Server <---------- DUT
0:03:47.300483	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 0799, FOpts:), FPort: 00, FRMPayload: 03701700010505d2ad84), MIC: 6b5b0982)

0:03:47.302477	LOG	PULL_RESP: Protocol version = 02, Token = 3c29, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4016891158, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAmQcAtoFLF6JTUrKAkWtbCYI='}}
0:03:47.304018	LOG	Server --------------------> DUT
0:03:47.307055	LOG	TX_ACK: 02 3c29 05 0016c001ff1025bf
0:03:52.132739	LOG	First uplink received. Open reception window.
0:03:52.245935	LOG	PUSH_ACK: 02 a48c 01
0:03:52.248080	LOG	GPS Time from gateway: 1385122450662
0:03:52.249845	LOG	PUSH_DATA: Protocol version = 02, Token = a48c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4019840779, 'time': '2023-11-27T12:13:51.662302Z', 'tmms': 1385122450662, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -56, 'size': 24, 'data': 'QAAAAACEGQsDBwUHAu1N3c/YipxIi9Xq'}]}
0:03:52.251500	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0b19, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 488bd5ea)
0:03:52.252513	LOG	Server <-------------------- DUT
0:03:52.254238	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:03:52.255946	LOG	Command Answer: 03070507
0:03:52.315795	LOG	MAC command communication completed
0:03:52.319804	LOG	Step 03-04
0:03:52.332797	LOG	Send Test Command EchoPayloadReq process starts
0:03:52.770649	LOG	GPS Time updated: 1385122451300
0:03:52.773228	LOG	PULL_DATA: 02 b0d1 02 0016c001ff1025bf
0:03:52.774231	LOG	PULL_ACK: 02 b0d1 04
0:03:57.129103	LOG	First uplink received. Open reception window.
0:03:57.239517	LOG	PUSH_ACK: 02 f6f8 01
0:03:57.241054	LOG	GPS Time from gateway: 1385122455662
0:03:57.243058	LOG	PUSH_DATA: Protocol version = 02, Token = f6f8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4024840193, 'time': '2023-11-27T12:13:56.661715Z', 'tmms': 1385122455662, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -58, 'size': 22, 'data': 'QAAAAACCGgsFBwK7yKpjCBpIbJwKXQ=='}]}
0:03:57.244059	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b1a, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 6c9c0a5d)
0:03:57.245085	LOG	Server <-------------------- DUT
0:03:57.247060	LOG	MAC Command RXParamSetupAns received
0:03:57.248092	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 079a, FOpts:), FPort: e0, FRMPayload: 0801010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: c69c6257)
0:03:57.250092	LOG	Frame command sent to the DUT
0:03:57.251095	LOG	PULL_RESP: Protocol version = 02, Token = 540e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4025840193, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 868.1, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YAAAAAAAmgfgIrFGm4Bpa0+fBcKHngCebKUonfG3I/0T4Bbxf/Ajl9CR3E5e KyTmizg+QfT7aQZrGM28oFwjyCAK5JtOM22lBrSuNHDxkAdF0QGjyF457wXS MSJiktxhKPt5776u4U061JdkvLEI+/eIQWIYxjn84rksENl6wXAF/GpAXQya2VJN qPPnjV8Q+eyMxzntgBJjDj9yv7F4KtgZd5b/decGX7D9w/x90c8TOWkeJqXOc3/w

		s3qO0TNtTLQKFVUTuCXlWDZg1I77wU2Zy3KWPfC19L7ivIb0gxNjWPT1EL3k53qxWLl5hescHqqbHynHw9KlzZvGnGJX'}}
0:03:57.253061	LOG	Server --------------------> DUT
0:03:57.256062	LOG	TX_ACK: 02 540e 05 0016c001ff1025bf
0:03:58.181756	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:03:58.183702	LOG	Previous uplink Frame type (FType): 011
0:03:58.185705	LOG	Wrong FType received in the uplink. Ignoring the PUSH_DATA
0:03:58.186702	LOG	Previous uplink Frame type (FType): 011
0:03:58.267230	LOG	First uplink received. Open reception window.
0:03:58.381084	LOG	PUSH_ACK: 02 b495 01
0:03:58.383055	LOG	GPS Time from gateway: 1385122456792
0:03:58.384054	LOG	PUSH_DATA: Protocol version = 02, Token = b495, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4025970731, 'time': '2023-11-27T12:13:57.792253Z', 'tmms': 1385122456792, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -46, 'size': 255, 'data': 'QAAAAACAGwvgh80ozi+aX1w3ffJ38yIICW+fh17kTEn+TjQuLM2MHuxfD5Ghw1qeHBafrFbFBsYEte9dv9D9P3Wyxz/PqRNQk1J/ajYIN8bwbYt5wlHzT0ukRHIta/yIQ0+0zlYAae6XinfQXgtQdsT9pWOIePfnqfkBFopQhrzWhNCg5kTmlumYlYlU+VyafSJ3TJ2IhColD7yTgbdB9iByaORON3HcYmlIPcE4iUFReKyJKN+vJ/isarORfHqJ28bgLtko1ZrS4nKUG4RwdInV8uO+zlOazju3AirF2puIcoKHfRB6x+EjpeBAIMm0z0DXrh3G75313HDzmhd5'}]}
0:03:58.386064	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b1b, FOpts:), FPort: e0, FRMPayload: 0802, MIC: f39a1779)
0:03:58.387099	LOG	Server <-------------------- DUT
0:03:58.389067	LOG	Frame Command Payload in the Answer: 0802
0:03:58.393096	LOG	Checking if the payload of the EchoPayloadAns is correct
0:03:58.396064	LOG	Send Test Command EchoPayloadReq process completed
0:03:58.400611	LOG	Step 04-05
0:03:58.406357	LOG	Send Test Command EchoPayloadReq process starts
0:04:02.131575	LOG	First uplink received. Open reception window.
0:04:02.238975	LOG	PUSH_ACK: 02 c296 01
0:04:02.241028	LOG	GPS Time from gateway: 1385122460661
0:04:02.242068	LOG	PUSH_DATA: Protocol version = 02, Token = c296, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4029839518, 'time': '2023-11-27T12:14:01.661038Z', 'tmms': 1385122460661, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAHAsCpMQOR1mnRCXSuUU='}]}
0:04:02.243067	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b1c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 25d2b945)
0:04:02.244604	LOG	Server <-------------------- DUT

0:04:02.246611	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 079b, FOpts:), FPort: e0, FRMPayload: 0801010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 27288389)
0:04:02.248650	LOG	Frame command sent to the DUT
0:04:02.249642	LOG	PULL_RESP: Protocol version = 02, Token = 05a0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4031839518, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YAAAAAAAmwfgdQos90ciuxhG6lBCL4f2sIwy0QlFTd72Z1WoCwnjscO5gV+9 STQ3BKVCSQEFY0L8gYAZU9aMv37FiBe+8cVgVheS6vAWxEScjBVmoy+Xw kvPSEI+QImJLf5DfN1tLtM+0e3zTNBSUILq/Mr7/i84rLyCfMzBFXuBxGRMgqq G6+DcxJSRSPWcTPQPWwXAAulcpm2IQWRhW8ViRydZzds5Xp9qaPaKY7p5 KcfWHnYQz8MQ1l+ghcIiwbAJKblBKf09FAFtS/OzVYjNdHgbN7exx35ZvAZvA MGKgzhVlONWvT0loYHkjOhfDr12HLXn/iJJCw4nKIOJ'}}
0:04:02.250644	LOG	Server --------------------> DUT
0:04:02.253611	LOG	TX_ACK: 02 05a0 05 0016c001ff1025bf
0:04:02.881520	LOG	GPS Time updated: 1385122461411
0:04:02.882558	LOG	PULL_DATA: 02 8bb3 02 0016c001ff1025bf
0:04:02.884528	LOG	PULL_ACK: 02 8bb3 04
0:04:04.613412	LOG	First uplink received. Open reception window.
0:04:04.719367	LOG	PUSH_ACK: 02 fda7 01
0:04:04.721370	LOG	GPS Time from gateway: 1385122463143
0:04:04.722368	LOG	PUSH_DATA: Protocol version = 02, Token = fda7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4032321545, 'time': '2023-11-27T12:14:04.143066Z', 'tmms': 1385122463143, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -46, 'size': 255, 'data': 'QAAAAACAHQvgEN8yMtY5fERrYl4OD0sKPkZo2EKxc21WYUdtsom81cbml RfepGGdjxXWqBIMYShTpPTecalHJdIGLME/mSsdLOSgBG3WQM1Wd6bB5FJ WTW1KZ9ztycgF0uZwsjnsrc90opDUOUTaCuS+mDH+uXUUObelDHG+k+ZUR pKNwnVNFELpKakxOvxgEmtZZq20tccVQmo5fHPsU8v977cqKe+j/calJ4ektDLq ZeEJRI58ph50JzneYCvcqpbbHJyJ96Heibj0I9X0jMxjKaJRkP9GnpVgoXFG1podS 9OTEAjAIOlSoKCLkwmu/7OhvLcESFzgYEEr1WKr'}]}
0:04:04.723368	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b1d, FOpts:), FPort: e0, FRMPayload: 0802020202020202020202020202020202020202020202020202020202020202020 2020202020202020202020202020202020202020202020202020202020202020202 0202020202020202020202020202020202020202020202020202020202020202020 2020202020202020202020202020202020202020202020202020202020202020202 0202020202020202020202020202020202020202020202020202020202020202020 2020202020202020202020202020202020202020202020202020202020202020202 0202020202020202020202020202020202020202020202020202020202020202020 202020202020202, MIC: 2bd562ab)
0:04:04.725366	LOG	Server <-------------------- DUT
0:04:04.726411	LOG	Frame Command Payload in the Answer: 0802020202020202020202020202020202020202020202020202020202020202020 2020202020202020202020202020202020202020202020202020202020202020202 0202020202020202020202020202020202020202020202020202020202020202020 2020202020202020202020202020202020202020202020202020202020202020202 0202020202020202020202020202020202020202020202020202020202020202020 2020202020202020202020202020202020202020202020202020202020202020202

		02020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202
0:04:04.730372	LOG	Checking if the payload of the EchoPayloadAns is correct
0:04:04.734405	LOG	Send Test Command EchoPayloadReq process completed
0:04:04.738314	LOG	Send LinkADRReq process starts
0:04:07.131097	LOG	First uplink received. Open reception window.
0:04:07.245757	LOG	PUSH_ACK: 02 b254 01
0:04:07.247724	LOG	GPS Time from gateway: 1385122465661
0:04:07.248724	LOG	PUSH_DATA: Protocol version = 02, Token = b254, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4034839257, 'time': '2023-11-27T12:14:06.660776Z', 'tmms': 1385122465661, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -62, 'size': 20, 'data': 'QAAAAACAHgsCAaAc1sOBczk+2Lc='}]}
0:04:07.249725	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b1e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 393ed8b7)
0:04:07.252234	LOG	Server <---------- DUT
0:04:07.254234	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 079c, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: d6afd993)
0:04:07.256235	LOG	PULL_RESP: Protocol version = 02, Token = de43, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4036839257, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAnAcArDZ/RYXWr9mT'}}
0:04:07.257234	LOG	Server ----------> DUT
0:04:07.259862	LOG	TX_ACK: 02 de43 05 0016c001ff1025bf
0:04:12.181509	LOG	First uplink received. Open reception window.
0:04:12.292188	LOG	PUSH_ACK: 02 a169 01
0:04:12.294223	LOG	GPS Time from gateway: 1385122470711
0:04:12.295191	LOG	PUSH_DATA: Protocol version = 02, Token = a169, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4039889966, 'time': '2023-11-27T12:14:11.711486Z', 'tmms': 1385122470711, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3278, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCHwsDBwL5s2QeqM+xmaca2g=='}]}
0:04:12.297230	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b1f, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 99a71ada)
0:04:12.298197	LOG	Server <---------- DUT
0:04:12.300230	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:04:12.302230	LOG	Command Answer: 0307
0:04:12.311743	LOG	MAC command communication completed
0:04:12.315744	LOG	Send NewChannelReq process starts
0:04:12.921656	LOG	GPS Time updated: 1385122471451
0:04:12.922657	LOG	PULL_DATA: 02 e22d 02 0016c001ff1025bf
0:04:12.924629	LOG	PULL_ACK: 02 e22d 04
0:04:17.174786	LOG	First uplink received. Open reception window.
0:04:17.279920	LOG	PUSH_ACK: 02 430d 01
0:04:17.281889	LOG	GPS Time from gateway: 1385122475711
0:04:17.282887	LOG	PUSH_DATA: Protocol version = 02, Token = 430d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4044889596, 'time': '2023-11-27T12:14:16.711115Z', 'tmms': 1385122475711, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3274, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAIAsC4eNbI9lfdGhiVm4='}]}
0:04:17.283889	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b20, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6862566e)
0:04:17.285888	LOG	Server <---------- DUT
0:04:17.287888	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 079d, FOpts:), FPort: 00, FRMPayload: 070400000050), MIC: 0fdd6e16)

0:04:17.289895	LOG	PULL_RESP: Protocol version = 02, Token = 1d34, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4046889596, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YAAAAAAAnQcAH+YRxq6DD91uFg==''}}
0:04:17.290894	LOG	Server ----------> DUT
0:04:17.293589	LOG	TX_ACK: 02 1d34 05 0016c001ff1025bf
0:04:22.181701	LOG	First uplink received. Open reception window.
0:04:22.285403	LOG	PUSH_ACK: 02 d0a5 01
0:04:22.287578	LOG	GPS Time from gateway: 1385122480711
0:04:22.289218	LOG	PUSH_DATA: Protocol version = 02, Token = d0a5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4049889447, 'time': '2023-11-27T12:14:21.710965Z', 'tmms': 1385122480711, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3255, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCIQsHAwJfIx1i2K9Zo3Nw5w==''}]}
0:04:22.290430	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b21, FOpts: 0703), FPort: 02, FRMPayload: 00000001020000, MIC: a37370e7)
0:04:22.292226	LOG	Server <---------- DUT
0:04:22.294146	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:04:22.295758	LOG	Command Answer: 0703
0:04:22.300514	LOG	MAC command communication completed
0:04:22.303549	LOG	End Test Step: Uplink - Max Payload via Echo for optional datarate FSK
0:04:22.307637	LOG	Partial Verdict: PASS
0:04:22.312636	LOG	==========
0:04:22.317639	LOG	==========
0:04:22.319638	LOG	Start Test Step: Uplink - Max Payload via Echo for optional datarate LR_FHSSCR1_3BW137
0:04:22.335215	LOG	End Test Step: Uplink - Max Payload via Echo for optional datarate LR_FHSSCR1_3BW137
0:04:22.338253	LOG	TEST STEP NOT APPLICABLE
0:04:22.342224	LOG	==========
0:04:22.347221	LOG	==========
0:04:22.350230	LOG	Start Test Step: Uplink - Max Payload via Echo for optional datarate LR_FHSSCR2_3BW137
0:04:22.366319	LOG	End Test Step: Uplink - Max Payload via Echo for optional datarate LR_FHSSCR2_3BW137
0:04:22.369357	LOG	TEST STEP NOT APPLICABLE
0:04:22.373361	LOG	==========
0:04:22.378324	LOG	==========
0:04:22.381324	LOG	Start Test Step: Uplink - Max Payload via Echo for optional datarate LR_FHSSCR1_3BW336
0:04:22.405909	LOG	End Test Step: Uplink - Max Payload via Echo for optional datarate LR_FHSSCR1_3BW336
0:04:22.409878	LOG	TEST STEP NOT APPLICABLE
0:04:22.412878	LOG	==========
0:04:22.417885	LOG	==========
0:04:22.419885	LOG	Start Test Step: Uplink - Max Payload via Echo for optional datarate LR_FHSSCR2_3BW336
0:04:22.434396	LOG	End Test Step: Uplink - Max Payload via Echo for optional datarate LR_FHSSCR2_3BW336
0:04:22.440401	LOG	TEST STEP NOT APPLICABLE
0:04:22.444398	LOG	==========
0:04:22.449450	LOG	==========
0:04:22.451438	LOG	Start Test Step: Restore default settings
0:04:22.460969	LOG	Step 06-07
0:04:22.467236	LOG	Send MAC command block process starts

0:04:22.960829	LOG	GPS Time updated: 1385122481490
0:04:22.962797	LOG	PULL_DATA: 02 73ef 02 0016c001ff1025bf
0:04:22.963798	LOG	PULL_ACK: 02 73ef 04
0:04:27.178735	LOG	First uplink received. Open reception window.
0:04:27.286012	LOG	PUSH_ACK: 02 8018 01
0:04:27.287977	LOG	GPS Time from gateway: 1385122485710
0:04:27.288982	LOG	PUSH_DATA: Protocol version = 02, Token = 8018, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4054889092, 'time': '2023-11-27T12:14:26.710609Z', 'tmms': 1385122485710, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3278, 'rssi': -50, 'size': 20, 'data': 'QAAAAACAIgsCzil4sDTDPPjTi7o='}]}
0:04:27.290988	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b22, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f8d38bba)
0:04:27.291987	LOG	Server <---------- DUT
0:04:27.293988	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 079e, FOpts:), FPort: 00, FRMPayload: 03500700010500d2ad84), MIC: c32f1946)
0:04:27.295987	LOG	PULL_RESP: Protocol version = 02, Token = 7c55, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4056889092, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAngcAKOcCnuX5bg1hvsMvGUY='}}
0:04:27.296987	LOG	Server ----------> DUT
0:04:27.299988	LOG	TX_ACK: 02 7c55 05 0016c001ff1025bf
0:04:32.185636	LOG	First uplink received. Open reception window.
0:04:32.294651	LOG	PUSH_ACK: 02 7c31 01
0:04:32.296653	LOG	GPS Time from gateway: 1385122490715
0:04:32.297653	LOG	PUSH_DATA: Protocol version = 02, Token = 7c31, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4059894066, 'time': '2023-11-27T12:14:31.715582Z', 'tmms': 1385122490715, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3278, 'rssi': -50, 'size': 24, 'data': 'QAAAAACEIwsDBwUHAoL9cyK0KbUs8Iz+'}]}
0:04:32.299694	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0b23, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 2cf08cfe)
0:04:32.300658	LOG	Server <---------- DUT
0:04:32.302659	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:04:32.304198	LOG	Command Answer: 03070507
0:04:32.370241	LOG	MAC command communication completed
0:04:32.375384	LOG	Step 07-08
0:04:32.378384	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:04:33.171227	LOG	GPS Time updated: 1385122491701
0:04:33.172230	LOG	PULL_DATA: 02 e972 02 0016c001ff1025bf
0:04:33.173198	LOG	PULL_ACK: 02 e972 04
0:04:37.181036	LOG	First uplink received. Open reception window.
0:04:37.294103	LOG	PUSH_ACK: 02 2966 01
0:04:37.296103	LOG	GPS Time from gateway: 1385122495710
0:04:37.297102	LOG	PUSH_DATA: Protocol version = 02, Token = 2966, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4064888661, 'time': '2023-11-27T12:14:36.710176Z', 'tmms': 1385122495710, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.5, 'foff': -3271, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCJAsFBwIA2boV2B9DxCBFpA=='}]}
0:04:37.299103	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b24, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: c42045a4)
0:04:37.300103	LOG	Server <---------- DUT
0:04:37.302104	LOG	MAC Command RXParamSetupAns received

0:04:37.304621	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 079f, FOpts:), FPort: e0, FRMPayload: 0501), MIC: 41467f35)
0:04:37.306620	LOG	Frame command sent to the DUT
0:04:37.307619	LOG	PULL_RESP: Protocol version = 02, Token = b684, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4066888661, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAnwfgAElBRn81'}}
0:04:37.310619	LOG	Server ----------> DUT
0:04:37.313620	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:04:37.316620	LOG	End Test Step: Restore default settings
0:04:37.321627	LOG	Partial Verdict: PASS
0:04:37.326631	LOG	==========
0:04:37.330628	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_019_A
0:04:37.333628	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_019_B	
Verdict	PASS	
Date	2023-11-27 13:14:38	
Description		
Technology Version	LCTT v3.11.0_R1 | GUI v2.6.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.3	
Test Specs Version	USv1.5.1/EUv1.6.2/KRv1.2.1/ASv1.1.1/INv1.1.1/ALL_Av1.6/ALL_Cv1.0/ ALL_Bv1.0/SCHCv1.1/ALPv1.0	
Project	ref-stack	
Project Creation Date	2023-10-04 09:10:20	
Sample Parameters		
	SF7BW250 Frequency	868.100
	FSK Frequency	868.100
	Conformance	TRUE
	LR-FHSSCR1/3BW137 Frequency	868.000
	LR-FHSSCR2/3BW137 Frequency	868.000
	LR-FHSSCR1/3BW336 Frequency	868.600
	LR-FHSSCR2/3BW336 Frequency	868.600

Time Stamp (ms)	Event	Summary
0:00:00.009294	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_019_B
0:00:00.068387	LOG	==========
0:00:00.070388	LOG	Start Test Step: Device activation
0:00:00.154398	LOG	Activation process has finished successfully
0:00:00.156398	LOG	Data stored in the DUT after Activation:
0:00:00.159399	LOG	DevAddr: 00000000
0:00:00.162433	LOG	AppEUI: 0000000000000000
0:00:00.165950	LOG	NwkSKey: 6bfb58c6a233389e6e66450a9e520a70
0:00:00.168918	LOG	AppSKey: ded4e508ab9cede444c3765e0533fcac
0:00:00.172943	LOG	End Test Step: Device activation
0:00:00.176943	LOG	Partial Verdict: PASS
0:00:00.180949	LOG	==========
0:00:00.184953	LOG	==========
0:00:00.186956	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.196459	LOG	DUT Pre-condition activation process starts
0:00:00.199464	LOG	DUT Pre-condition activation completed
0:00:00.202516	LOG	End Test Step: DUT Pre-condition settings
0:00:00.206501	LOG	Partial Verdict: PASS
0:00:00.210497	LOG	==========

0:00:00.214469	LOG	==========
0:00:00.216504	LOG	Start Test Step: Initial settings for the test
0:00:00.226472	LOG	Step 01
0:00:00.228754	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:00:02.132718	LOG	PUSH_DATA received while waiting first PULL_DATA
0:00:03.146090	LOG	GPS Time updated: 1385122498466
0:00:03.147116	LOG	PULL_DATA: 02 7487 02 0016c001ff1025bf
0:00:03.149117	LOG	PULL_ACK: 02 7487 04
0:00:07.132631	LOG	First uplink received. Open reception window.
0:00:07.239980	LOG	PUSH_ACK: 02 eb71 01
0:00:07.241945	LOG	GPS Time from gateway: 1385122505709
0:00:07.243486	LOG	PUSH_DATA: Protocol version = 02, Token = eb71, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4074888081, 'time': '2023-11-27T12:14:46.709595Z', 'tmms': 1385122505709, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3271, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAJgsCy/Ax+iQP7OFEPEk='}]}
0:00:07.244525	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b26, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e1443c49)
0:00:07.246493	LOG	Server <---------- DUT
0:00:07.247525	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07a0, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 03ee21c5)
0:00:07.250492	LOG	Frame command sent to the DUT
0:00:07.252493	LOG	PULL_RESP: Protocol version = 02, Token = 47c8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4076888081, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAoAfghDQD7iHF'}}
0:00:07.253526	LOG	Server ----------> DUT
0:00:07.256491	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:00:07.260000	LOG	End Test Step: Initial settings for the test
0:00:07.264036	LOG	Partial Verdict: PASS
0:00:07.268002	LOG	==========
0:00:07.273034	LOG	==========
0:00:07.276039	LOG	Start Test Step: Uplink - Oversized Payload via Echo for datarate SF12BW125
0:00:07.286076	LOG	Step 02-03
0:00:07.290041	LOG	Send MAC command block process starts
0:00:12.128887	LOG	First uplink received. Open reception window.
0:00:12.241496	LOG	PUSH_ACK: 02 2e9e 01
0:00:12.243806	LOG	GPS Time from gateway: 1385122510709
0:00:12.246045	LOG	PUSH_DATA: Protocol version = 02, Token = 2e9e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4079887849, 'time': '2023-11-27T12:14:51.709362Z', 'tmms': 1385122510709, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3270, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAJwsCF8f6Ok2pc6D6r7s='}]}
0:00:12.247106	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b27, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a0faafbb)
0:00:12.248799	LOG	Server <---------- DUT
0:00:12.251138	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07a1, FOpts:), FPort: 00, FRMPayload: 03000700010505d2ad84), MIC: f63918ee)
0:00:12.252846	LOG	PULL_RESP: Protocol version = 02, Token = 1775, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4081887849, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAoQcADFE58+d00obBL/Y5GO4='}}
0:00:12.253903	LOG	Server ----------> DUT
0:00:12.256009	LOG	TX_ACK: 02 1775 05 0016c001ff1025bf
0:00:13.306368	LOG	GPS Time updated: 1385122511887

0:00:13.307382	LOG	PULL_DATA: 02 c506 02 0016c001ff1025bf
0:00:13.309367	LOG	PULL_ACK: 02 c506 04
0:00:18.577607	LOG	Multiple frames received. Selecting the correct frame...
0:00:18.579570	LOG	Frame selected: {'jver': 1, 'tmst': 4086313657, 'time': '2023-11-27T12:14:58.135169Z', 'tmms': 1385122517135, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.0, 'foff': -3263, 'rssi': -49, 'size': 24, 'data': 'QAAAAACEKAsDBwUHAv0e4SHOZhmyriPG'}
0:00:18.581576	LOG	First uplink received. Open reception window.
0:00:18.688267	LOG	PUSH_ACK: 02 f266 01
0:00:18.690272	LOG	GPS Time from gateway: 1385122517135
0:00:18.691306	LOG	PUSH_DATA: Protocol version = 02, Token = f266, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4086313657, 'time': '2023-11-27T12:14:58.135169Z', 'tmms': 1385122517135, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.0, 'foff': -3262, 'rssi': -113, 'size': 24, 'data': 'QAAAAACEKAsDBwUHAv0e4SHOZhmyriPG'}, {'jver': 1, 'tmst': 4086313657, 'time': '2023-11-27T12:14:58.135169Z', 'tmms': 1385122517135, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.0, 'foff': -3263, 'rssi': -49, 'size': 24, 'data': 'QAAAAACEKAsDBwUHAv0e4SHOZhmyriPG'}]}
0:00:18.692306	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0b28, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: b2ae23c6)
0:00:18.694305	LOG	Server <---------- DUT
0:00:18.696287	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:18.697395	LOG	Command Answer: 03070507
0:00:18.757110	LOG	MAC command communication completed
0:00:18.761672	LOG	Step 03-04
0:00:18.775680	LOG	Send Test Command EchoPayloadReq process starts
0:00:23.395761	LOG	GPS Time updated: 1385122521949
0:00:23.397728	LOG	PULL_DATA: 02 6fd5 02 0016c001ff1025bf
0:00:23.398760	LOG	PULL_ACK: 02 6fd5 04
0:00:23.573286	LOG	Multiple frames received. Selecting the correct frame...
0:00:23.574286	LOG	Frame selected: {'jver': 1, 'tmst': 4091313388, 'time': '2023-11-27T12:15:03.134899Z', 'tmms': 1385122522135, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.8, 'foff': -3246, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCKQsFBwIh1CxxTukVPXH2Gw=='}
0:00:23.576286	LOG	First uplink received. Open reception window.
0:00:23.678438	LOG	PUSH_ACK: 02 93b2 01
0:00:23.680401	LOG	GPS Time from gateway: 1385122522135
0:00:23.681406	LOG	PUSH_DATA: Protocol version = 02, Token = 93b2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4091313380, 'time': '2023-11-27T12:15:03.134891Z', 'tmms': 1385122522135, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 4, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.5, 'foff': -3216, 'rssi': -113, 'size': 22, 'data': 'QAAAAACCKQsFBwIh1CxxTukVPXH2Gw=='}, {'jver': 1, 'tmst': 4091313388, 'time': '2023-11-27T12:15:03.134899Z', 'tmms': 1385122522135, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.8, 'foff': -3246, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCKQsFBwIh1CxxTukVPXH2Gw=='}]}
0:00:23.683425	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b29, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 3d71f61b)
0:00:23.684411	LOG	Server <---------- DUT
0:00:23.686412	LOG	MAC Command RXParamSetupAns received
0:00:23.688411	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07a2, FOpts:), FPort: e0, FRMPayload:

		08010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: bcd358fd)
0:00:23.689411	LOG	Frame command sent to the DUT
0:00:23.691411	LOG	PULL_RESP: Protocol version = 02, Token = c76f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4093313388, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 65, 'data': 'YAAAAAAAogfgW68ewOjU7vKTKK8v/Gioj4FvX6LJfcvNfAJORBCT/LlIwDLqGj4sBkus9bU01K2QUrvnVrzTWP0='}}
0:00:23.692411	LOG	Server ----------> DUT
0:00:23.695121	LOG	TX_ACK: 02 c76f 05 0016c001ff1025bf
0:00:26.873501	LOG	Multiple frames received. Selecting the correct frame...
0:00:26.875501	LOG	Frame selected: {'jver': 1, 'tmst': 4094610799, 'time': '2023-11-27T12:15:06.432309Z', 'tmms': 1385122525432, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3240, 'rssi': -50, 'size': 12, 'data': 'QAAAAACAKgvkqvAE'}
0:00:26.877272	LOG	First uplink received. Open reception window.
0:00:26.987406	LOG	PUSH_ACK: 02 e263 01
0:00:26.989408	LOG	GPS Time from gateway: 1385122525432
0:00:26.990410	LOG	PUSH_DATA: Protocol version = 02, Token = e263, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4094610799, 'time': '2023-11-27T12:15:06.432309Z', 'tmms': 1385122525432, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3240, 'rssi': -50, 'size': 12, 'data': 'QAAAAACAKgvkqvAE'}, {'jver': 1, 'tmst': 4094610800, 'time': '2023-11-27T12:15:06.432310Z', 'tmms': 1385122525432, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.2, 'foff': -3240, 'rssi': -113, 'size': 12, 'data': 'QAAAAACAKgvkqvAE'}]}
0:00:26.991408	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b2a, FOpts:), FPort: , FRMPayload: , MIC: e4aaf004)
0:00:26.993372	LOG	Server <---------- DUT
0:00:26.995393	LOG	Frame command not received because the payload is empty
0:00:26.996377	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07a3, FOpts:), FPort: e0, FRMPayload: 08010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 08298c0d)
0:00:26.998382	LOG	Frame command sent to the DUT
0:00:26.999378	LOG	PULL_RESP: Protocol version = 02, Token = 04d6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4096610799, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 65, 'data': 'YAAAAAAAowfgKW/Y9ncpZSWy+M21HkqeoWVjoF79JHyWlBoYHL4OHb7w0SQRbLQFSTyd4X0nFrBmDsn0kggpjA0='}}
0:00:27.001377	LOG	Server ----------> DUT
0:00:27.003378	LOG	TX_ACK: 02 04d6 05 0016c001ff1025bf
0:00:30.167797	LOG	Multiple frames received. Selecting the correct frame...
0:00:30.168829	LOG	Frame selected: {'jver': 1, 'tmst': 4097909770, 'time': '2023-11-27T12:15:09.731280Z', 'tmms': 1385122528731, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3233, 'rssi': -50, 'size': 12, 'data': 'QAAAAACAKwsFPYSY'}
0:00:30.170831	LOG	First uplink received. Open reception window.
0:00:30.286112	LOG	PUSH_ACK: 02 5755 01
0:00:30.287685	LOG	GPS Time from gateway: 1385122528731
0:00:30.288658	LOG	PUSH_DATA: Protocol version = 02, Token = 5755, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4097909770, 'time': '2023-11-27T12:15:09.731280Z', 'tmms': 1385122528731, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.2, 'foff': -3233, 'rssi':

		-50, 'size': 12, 'data': 'QAAAAACAKwsFPYSY'}, {'jver': 1, 'tmst': 4097909770, 'time': '2023-11-27T12:15:09.731280Z', 'tmms': 1385122528731, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'mid': 3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -128, 'lsnr': -15.8, 'foff': -3233, 'rssi': -113, 'size': 12, 'data': 'QAAAAACAKwsFPYSY'}]}
0:00:30.290806	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b2b, FOpts:), FPort: , FRMPayload: , MIC: 053d8498)
0:00:30.291794	LOG	Server <---------- DUT
0:00:30.293793	LOG	Frame command not received because the payload is empty
0:00:30.295794	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07a4, FOpts:), FPort: e0, FRMPayload: 08010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: be427117)
0:00:30.297794	LOG	Frame command sent to the DUT
0:00:30.299830	LOG	PULL_RESP: Protocol version = 02, Token = bf44, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4099909770, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 65, 'data': 'YAAAAAAApAfghwwFj/I6LCpOpsgOt6M74wAfiCJxFOV8al/1BjHpVkwpgniAYNmxlrCPsAfsvd0XNU9Ib75CcRc='}}
0:00:30.301799	LOG	Server ----------> DUT
0:00:30.305793	LOG	TX_ACK: 02 bf44 05 0016c001ff1025bf
0:00:33.445576	LOG	GPS Time updated: 1385122532006
0:00:33.447545	LOG	PULL_DATA: 02 6dcf 02 0016c001ff1025bf
0:00:33.448540	LOG	PULL_ACK: 02 6dcf 04
0:00:33.467570	LOG	Multiple frames received. Selecting the correct frame...
0:00:33.469074	LOG	Frame selected: {'jver': 1, 'tmst': 4101208567, 'time': '2023-11-27T12:15:13.030075Z', 'tmms': 1385122532030, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3230, 'rssi': -50, 'size': 12, 'data': 'QAAAAACALAs9YS1C'}
0:00:33.470079	LOG	First uplink received. Open reception window.
0:00:33.572438	LOG	PUSH_ACK: 02 0957 01
0:00:33.574402	LOG	GPS Time from gateway: 1385122532030
0:00:33.575402	LOG	PUSH_DATA: Protocol version = 02, Token = 0957, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4101208567, 'time': '2023-11-27T12:15:13.030075Z', 'tmms': 1385122532030, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3230, 'rssi': -50, 'size': 12, 'data': 'QAAAAACALAs9YS1C'}, {'jver': 1, 'tmst': 4101208567, 'time': '2023-11-27T12:15:13.030075Z', 'tmms': 1385122532030, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'mid': 2, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -126, 'lsnr': -13.5, 'foff': -3229, 'rssi': -113, 'size': 12, 'data': 'QAAAAACALAs9YS1C'}]}
0:00:33.576403	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b2c, FOpts:), FPort: , FRMPayload: , MIC: 3d612d42)
0:00:33.578403	LOG	Server <---------- DUT
0:00:33.579402	LOG	Frame command not received because the payload is empty
0:00:33.585402	LOG	End Test Step: Uplink - Oversized Payload via Echo for datarate SF12BW125
0:00:33.590408	LOG	Partial Verdict: PASS
0:00:33.593408	LOG	==========
0:00:33.598412	LOG	==========
0:00:33.600448	LOG	Start Test Step: Uplink - Oversized Payload via Echo for datarate SF11BW125
0:00:33.612831	LOG	Step 02-03
0:00:33.616833	LOG	Send MAC command block process starts
0:00:38.404681	LOG	First uplink received. Open reception window.
0:00:38.507600	LOG	PUSH_ACK: 02 4132 01
0:00:38.509697	LOG	GPS Time from gateway: 1385122536970

0:00:38.510729	LOG	PUSH_DATA: Protocol version = 02, Token = 4132, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4106148682, 'time': '2023-11-27T12:15:17.970190Z', 'tmms': 1385122536970, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3231, 'rssi': -49, 'size': 20, 'data': 'QAAAAACALQsCqVZ3TDiHLbtDj/8='}]}
0:00:38.512693	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b2d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: bb438fff)
0:00:38.513694	LOG	Server <---------- DUT
0:00:38.515694	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07a5, FOpts:), FPort: 00, FRMPayload: 03100700010505d2ad84), MIC: 6e02b9f6)
0:00:38.517730	LOG	PULL_RESP: Protocol version = 02, Token = dec7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4108148682, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAApQcA2slV6uSLOGEdrG4CufY='}}
0:00:38.518731	LOG	Server ----------> DUT
0:00:38.521240	LOG	TX_ACK: 02 dec7 05 0016c001ff1025bf
0:00:42.952858	LOG	First uplink received. Open reception window.
0:00:43.054801	LOG	PUSH_ACK: 02 bdb7 01
0:00:43.056768	LOG	GPS Time from gateway: 1385122541526
0:00:43.057768	LOG	PUSH_DATA: Protocol version = 02, Token = bdb7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4110704973, 'time': '2023-11-27T12:15:22.526479Z', 'tmms': 1385122541526, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.5, 'foff': -3231, 'rssi': -49, 'size': 24, 'data': 'QAAAAACELgsDBwUHAqXXH2xKUfBtevQw'}]}
0:00:43.059768	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0b2e, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 6d7af430)
0:00:43.060769	LOG	Server <---------- DUT
0:00:43.062769	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:43.063768	LOG	Command Answer: 03070507
0:00:43.121420	LOG	MAC command communication completed
0:00:43.125385	LOG	Step 03-04
0:00:43.139897	LOG	Send Test Command EchoPayloadReq process starts
0:00:43.556152	LOG	GPS Time updated: 1385122542129
0:00:43.557152	LOG	PULL_DATA: 02 10b9 02 0016c001ff1025bf
0:00:43.559119	LOG	PULL_ACK: 02 10b9 04
0:00:47.818707	LOG	First uplink received. Open reception window.
0:00:47.921008	LOG	PUSH_ACK: 02 ef84 01
0:00:47.923007	LOG	GPS Time from gateway: 1385122546392
0:00:47.924007	LOG	PUSH_DATA: Protocol version = 02, Token = ef84, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4115570892, 'time': '2023-11-27T12:15:27.392397Z', 'tmms': 1385122546392, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3232, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCLwsFBwJpXQx3UhDXhUOQzw=='}]}
0:00:47.925975	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b2f, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 854390cf)
0:00:47.927010	LOG	Server <---------- DUT
0:00:47.928012	LOG	MAC Command RXParamSetupAns received
0:00:47.930007	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07a6, FOpts:), FPort: e0, FRMPayload: 08010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 4b06ffab)
0:00:47.932018	LOG	Frame command sent to the DUT

0:00:47.933050	LOG	PULL_RESP: Protocol version = 02, Token = 8010, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4117570892, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 65, 'data': 'YAAAAAAApgfgwKC/BiwcQ1Ym/oyg9QePO77/3L54UT+BlldBo4rbJvgjgSirYPcZwT0mqkkvi2KLIutoK0sG/6s='}}
0:00:47.935017	LOG	Server ----------> DUT
0:00:47.939055	LOG	TX_ACK: 02 8010 05 0016c001ff1025bf
0:00:50.547376	LOG	First uplink received. Open reception window.
0:00:50.658372	LOG	PUSH_ACK: 02 40db 01
0:00:50.660337	LOG	GPS Time from gateway: 1385122549112
0:00:50.661336	LOG	PUSH_DATA: Protocol version = 02, Token = 40db, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4118290782, 'time': '2023-11-27T12:15:30.112287Z', 'tmms': 1385122549112, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.2, 'foff': -3228, 'rssi': -50, 'size': 12, 'data': 'QAAAAACAMAtdboZS'}]}
0:00:50.663341	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b30, FOpts:), FPort: , FRMPayload: , MIC: 5d6e8652)
0:00:50.665001	LOG	Server <---------- DUT
0:00:50.667143	LOG	Frame command not received because the payload is empty
0:00:50.668776	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07a7, FOpts:), FPort: e0, FRMPayload: 08010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 90096289)
0:00:50.671008	LOG	Frame command sent to the DUT
0:00:50.672602	LOG	PULL_RESP: Protocol version = 02, Token = 26bb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4120290782, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 65, 'data': 'YAAAAAAApwfgdKdTaTD0d9AgMRZmUdXhlbAueT1ma1HaVegLSaJdAJXCJFT838TvXlqN12Tk/SUBPOX165AJYok='}}
0:00:50.674207	LOG	Server ----------> DUT
0:00:50.676431	LOG	TX_ACK: 02 26bb 05 0016c001ff1025bf
0:00:53.262684	LOG	#**********CURRENT BEACON SENT**********#
0:00:53.264652	LOG	PULL_RESP: Protocol version = 02, Token = a165, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385122560000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAAS49STZwAAAAAAAAAAA='}}
0:00:53.265649	LOG	Server ----------> DUT
0:00:53.267680	LOG	#**********#
0:00:53.277690	LOG	#**********NEXT BEACON QUEUED**********#
0:00:53.278690	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385122688000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAS49SdUEAAAAAAAAAAA='}}
0:00:53.279692	LOG	Server ----------> DUT
0:00:53.281728	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 804b8f52, CRC1: 7541, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385122688000
0:00:53.282732	LOG	#**********#
0:00:53.283731	LOG	Next BEACON scheduled at GPS time (ms): 1385122816000
0:00:53.284694	LOG	First uplink received. Open reception window.
0:00:53.286728	LOG	TX_ACK: 02 a165 05 0016c001ff1025bf

0:00:53.397090	LOG	PUSH_ACK: 02 f56e 01
0:00:53.399056	LOG	GPS Time from gateway: 1385122551834
0:00:53.401067	LOG	PUSH_DATA: Protocol version = 02, Token = f56e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4121012549, 'time': '2023-11-27T12:15:32.834055Z', 'tmms': 1385122551834, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.0, 'foff': -3227, 'rssi': -50, 'size': 12, 'data': 'QAAAAACAMQsM1DhX'}]}
0:00:53.402072	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b31, FOpts:), FPort: , FRMPayload: , MIC: 0cd43857)
0:00:53.404074	LOG	Server <---------- DUT
0:00:53.406073	LOG	Frame command not received because the payload is empty
0:00:53.407072	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07a8, FOpts:), FPort: e0, FRMPayload: 08010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 7a8ea0f9)
0:00:53.409073	LOG	Frame command sent to the DUT
0:00:53.411072	LOG	PULL_RESP: Protocol version = 02, Token = ace5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4123012549, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 65, 'data': 'YAAAAAAAqAfgSfuia3ii3ukufj81nbhAU1W3zLxPuARR587kthDuIEUiMkV0Q4V2AoHaOwg1wmg8zQNoEHqOoPk='}}
0:00:53.412075	LOG	Server ----------> DUT
0:00:53.414075	LOG	TX_ACK: 02 ace5 05 0016c001ff1025bf
0:00:53.615647	LOG	GPS Time updated: 1385122552163
0:00:53.616616	LOG	PULL_DATA: 02 79ba 02 0016c001ff1025bf
0:00:53.618645	LOG	PULL_ACK: 02 79ba 04
0:00:55.990909	LOG	First uplink received. Open reception window.
0:00:56.094361	LOG	PUSH_ACK: 02 20e3 01
0:00:56.096325	LOG	GPS Time from gateway: 1385122554556
0:00:56.097362	LOG	PUSH_DATA: Protocol version = 02, Token = 20e3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4123734398, 'time': '2023-11-27T12:15:35.555903Z', 'tmms': 1385122554556, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.5, 'foff': -3225, 'rssi': -50, 'size': 12, 'data': 'QAAAAACAMgvi31Jm'}]}
0:00:56.099331	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b32, FOpts:), FPort: , FRMPayload: , MIC: e2df5266)
0:00:56.100364	LOG	Server <---------- DUT
0:00:56.102329	LOG	Frame command not received because the payload is empty
0:00:56.108488	LOG	End Test Step: Uplink - Oversized Payload via Echo for datarate SF11BW125
0:00:56.113421	LOG	Partial Verdict: PASS
0:00:56.117421	LOG	==========
0:00:56.122426	LOG	==========
0:00:56.124426	LOG	Start Test Step: Uplink - Oversized Payload via Echo for datarate SF10BW125
0:00:56.134936	LOG	Step 02-03
0:00:56.138936	LOG	Send MAC command block process starts
0:01:02.823013	LOG	First uplink received. Open reception window.
0:01:02.924105	LOG	PUSH_ACK: 02 9622 01
0:01:02.926102	LOG	GPS Time from gateway: 1385122561391
0:01:02.927101	LOG	PUSH_DATA: Protocol version = 02, Token = 9622, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4130570062, 'time': '2023-11-27T12:15:42.391566Z', 'tmms': 1385122561391, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 10.8, 'foff': -3238, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAMwsCjV9WW3377Wfhds0='}]}
0:01:02.929090	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b33, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 67e176cd)

0:01:02.930102	LOG	Server <---------- DUT
0:01:02.932126	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07a9, FOpts:), FPort: 00, FRMPayload: 03200700010505d2ad84), MIC: 3c63f101)
0:01:02.934111	LOG	PULL_RESP: Protocol version = 02, Token = 256e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4132570062, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAqQcA5jnVQ6uF99a66jxj8QE='}}
0:01:02.935143	LOG	Server ----------> DUT
0:01:02.938145	LOG	TX_ACK: 02 256e 05 0016c001ff1025bf
0:01:03.775787	LOG	GPS Time updated: 1385122562343
0:01:03.776787	LOG	PULL_DATA: 02 16ed 02 0016c001ff1025bf
0:01:03.778788	LOG	PULL_ACK: 02 16ed 04
0:01:07.451537	LOG	First uplink received. Open reception window.
0:01:07.552396	LOG	PUSH_ACK: 02 7869 01
0:01:07.554358	LOG	GPS Time from gateway: 1385122566021
0:01:07.555359	LOG	PUSH_DATA: Protocol version = 02, Token = 7869, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4135199359, 'time': '2023-11-27T12:15:47.020861Z', 'tmms': 1385122566021, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3235, 'rssi': -49, 'size': 24, 'data': 'QAAAAACENAsDBwUHAgax35U4icO9LWEU'}]}
0:01:07.557371	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0b34, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: bd2d6114)
0:01:07.558363	LOG	Server <---------- DUT
0:01:07.560363	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:07.561364	LOG	Command Answer: 03070507
0:01:07.618927	LOG	MAC command communication completed
0:01:07.622937	LOG	Step 03-04
0:01:07.636512	LOG	Send Test Command EchoPayloadReq process starts
0:01:12.443135	LOG	First uplink received. Open reception window.
0:01:12.549026	LOG	PUSH_ACK: 02 c5e5 01
0:01:12.551027	LOG	GPS Time from gateway: 1385122571020
0:01:12.551994	LOG	PUSH_DATA: Protocol version = 02, Token = c5e5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4140199090, 'time': '2023-11-27T12:15:52.020590Z', 'tmms': 1385122571020, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.0, 'foff': -3239, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCNQsFBwLJoM3e+oN2HNgNdQ=='}]}
0:01:12.553992	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b35, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 1cd80d75)
0:01:12.555031	LOG	Server <---------- DUT
0:01:12.557068	LOG	MAC Command RXParamSetupAns received
0:01:12.559045	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07aa, FOpts:), FPort: e0, FRMPayload: 08010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 109bcbd2)
0:01:12.560070	LOG	Frame command sent to the DUT
0:01:12.562080	LOG	PULL_RESP: Protocol version = 02, Token = 83af, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4142199090, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 65, 'data': 'YAAAAAAAqgfgD7AlaBKpOMtBS1IH/OHyogCbDF0SWzBP8TeHA3sjB8hN8zM7qBO8cO9/lZeu96Mx1VMlSBCby9I='}}
0:01:12.563035	LOG	Server ----------> DUT
0:01:12.565942	LOG	TX_ACK: 02 83af 05 0016c001ff1025bf

0:01:13.825811	LOG	GPS Time updated: 1385122572401
0:01:13.826810	LOG	PULL_DATA: 02 38ce 02 0016c001ff1025bf
0:01:13.828816	LOG	PULL_ACK: 02 38ce 04
0:01:14.882227	LOG	First uplink received. Open reception window.
0:01:14.984038	LOG	PUSH_ACK: 02 3c79 01
0:01:14.986005	LOG	GPS Time from gateway: 1385122573452
0:01:14.987041	LOG	PUSH_DATA: Protocol version = 02, Token = 3c79, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4142630691, 'time': '2023-11-27T12:15:54.452193Z', 'tmms': 1385122573452, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3240, 'rssi': -50, 'size': 12, 'data': 'QAAAAACANgvDQTkH'}]}
0:01:14.988039	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b36, FOpts:), FPort: , FRMPayload: , MIC: c3413907)
0:01:14.990042	LOG	Server <---------- DUT
0:01:14.991038	LOG	Frame command not received because the payload is empty
0:01:14.993005	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07ab, FOpts:), FPort: e0, FRMPayload: 08010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 17f04b0f)
0:01:14.994046	LOG	Frame command sent to the DUT
0:01:14.995045	LOG	PULL_RESP: Protocol version = 02, Token = 8c5a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4144630691, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 65, 'data': 'YAAAAAAAqwfgE7EJsW/1fMaGD4RenBodMfcMDHHEB5vSOAkSJhEmnO4a0QC/Bv0ephLBWZujka2b08zvwBfwSw8='}}
0:01:14.997048	LOG	Server ----------> DUT
0:01:14.999030	LOG	TX_ACK: 02 8c5a 05 0016c001ff1025bf
0:01:17.311117	LOG	First uplink received. Open reception window.
0:01:17.415823	LOG	PUSH_ACK: 02 01fa 01
0:01:17.417821	LOG	GPS Time from gateway: 1385122575885
0:01:17.419822	LOG	PUSH_DATA: Protocol version = 02, Token = 01fa, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4145063412, 'time': '2023-11-27T12:15:56.884912Z', 'tmms': 1385122575885, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3238, 'rssi': -50, 'size': 12, 'data': 'QAAAAACANwv/4EQ/'}]}
0:01:17.420822	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b37, FOpts:), FPort: , FRMPayload: , MIC: ffe0443f)
0:01:17.421821	LOG	Server <---------- DUT
0:01:17.423822	LOG	Frame command not received because the payload is empty
0:01:17.425822	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07ac, FOpts:), FPort: e0, FRMPayload: 08010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 9f01745d)
0:01:17.426822	LOG	Frame command sent to the DUT
0:01:17.428822	LOG	PULL_RESP: Protocol version = 02, Token = be64, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4147063412, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 65, 'data': 'YAAAAAAArAfgJKSaOe/cFhbAgb76QmlVjpyRQsb+9IDCc9IdYcFs0s0/FmxuVFskCE5iCK1nixQrBleCPp8BdF0='}}
0:01:17.429821	LOG	Server ----------> DUT
0:01:17.432543	LOG	TX_ACK: 02 be64 05 0016c001ff1025bf
0:01:19.747765	LOG	First uplink received. Open reception window.
0:01:19.857555	LOG	PUSH_ACK: 02 3011 01
0:01:19.859523	LOG	GPS Time from gateway: 1385122578318

0:01:19.860522	LOG	PUSH_DATA: Protocol version = 02, Token = 3011, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4147496354, 'time': '2023-11-27T12:15:59.317855Z', 'tmms': 1385122578318, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.5, 'foff': -3236, 'rssi': -50, 'size': 12, 'data': 'QAAAAACAOAs3SEyc'}]}
0:01:19.861523	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b38, FOpts:), FPort: , FRMPayload: , MIC: 37484c9c)
0:01:19.863523	LOG	Server <---------- DUT
0:01:19.864522	LOG	Frame command not received because the payload is empty
0:01:19.870527	LOG	End Test Step: Uplink - Oversized Payload via Echo for datarate SF10BW125
0:01:19.874562	LOG	Partial Verdict: PASS
0:01:19.878559	LOG	==========
0:01:19.882563	LOG	==========
0:01:19.884646	LOG	Start Test Step: Uplink - Oversized Payload via Echo for datarate SF9BW125
0:01:19.898647	LOG	Step 02-03
0:01:19.902659	LOG	Send MAC command block process starts
0:01:22.446171	LOG	First uplink received. Open reception window.
0:01:22.551760	LOG	PUSH_ACK: 02 b320 01
0:01:22.553728	LOG	GPS Time from gateway: 1385122581020
0:01:22.554727	LOG	PUSH_DATA: Protocol version = 02, Token = b320, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4150198511, 'time': '2023-11-27T12:16:02.020011Z', 'tmms': 1385122581020, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 13.8, 'foff': -3235, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAOQsCi63oDw2ZhAyWxIg='}]}
0:01:22.556733	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b39, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0c96c488)
0:01:22.557732	LOG	Server <---------- DUT
0:01:22.559732	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07ad, FOpts:), FPort: 00, FRMPayload: 03300700010505d2ad84), MIC: 0aa2d2b3)
0:01:22.561733	LOG	PULL_RESP: Protocol version = 02, Token = 6861, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4152198511, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAArQcAAJ0lgOW6UrizHgqi0rM='}}
0:01:22.562732	LOG	Server ----------> DUT
0:01:22.566767	LOG	TX_ACK: 02 6861 05 0016c001ff1025bf
0:01:24.034918	LOG	GPS Time updated: 1385122582608
0:01:24.036916	LOG	PULL_DATA: 02 95f3 02 0016c001ff1025bf
0:01:24.038701	LOG	PULL_ACK: 02 95f3 04
0:01:27.274177	LOG	First uplink received. Open reception window.
0:01:27.385228	LOG	PUSH_ACK: 02 fb8a 01
0:01:27.387194	LOG	GPS Time from gateway: 1385122585855
0:01:27.388193	LOG	PUSH_DATA: Protocol version = 02, Token = fb8a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4155033503, 'time': '2023-11-27T12:16:06.855003Z', 'tmms': 1385122585855, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3236, 'rssi': -49, 'size': 24, 'data': 'QAAAAACEOgsDBwUHAvGe32sp7+AjAWoi'}]}
0:01:27.390194	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0b3a, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 23016a22)
0:01:27.391194	LOG	Server <---------- DUT
0:01:27.393194	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:27.394194	LOG	Command Answer: 03070507
0:01:27.449751	LOG	MAC command communication completed
0:01:27.454726	LOG	Step 03-04

0:01:27.468772	LOG	Send Test Command EchoPayloadReq process starts
0:01:32.281441	LOG	First uplink received. Open reception window.
0:01:32.389763	LOG	PUSH_ACK: 02 44d6 01
0:01:32.391735	LOG	GPS Time from gateway: 1385122590854
0:01:32.393735	LOG	PUSH_DATA: Protocol version = 02, Token = 44d6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4160033224, 'time': '2023-11-27T12:16:11.854723Z', 'tmms': 1385122590854, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3236, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCOwsFBwKmGS3BiBoGLRyxng=='}]}
0:01:32.395733	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b3b, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 2d1cb19e)
0:01:32.396733	LOG	Server <-------------------- DUT
0:01:32.398764	LOG	MAC Command RXParamSetupAns received
0:01:32.400739	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07ae, FOpts:), FPort: e0, FRMPayload: 0801), MIC: 94ab7a71)
0:01:32.401739	LOG	Frame command sent to the DUT
0:01:32.403740	LOG	PULL_RESP: Protocol version = 02, Token = 61cf, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4162033224, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 129, 'data': 'YAAAAAAArgfgpruYq8LwLRic+HU8tKmDdt7CexOhXduqD7lF1s/GDQCki17zCjCdaH/+Fd9i1IHKC7U8PcUdhIpbCKfq85mx9A/P7KhurhOAucy2p/fRSceBqOfaloSw0rCiR97DToFlkNPTEBeMCD7sm/VPm8Pac0s+y9OUq3px'}}
0:01:32.405747	LOG	Server --------------------> DUT
0:01:32.408738	LOG	TX_ACK: 02 61cf 05 0016c001ff1025bf
0:01:34.084902	LOG	GPS Time updated: 1385122592657
0:01:34.086869	LOG	PULL_DATA: 02 df64 02 0016c001ff1025bf
0:01:34.088600	LOG	PULL_ACK: 02 df64 04
0:01:34.664715	LOG	First uplink received. Open reception window.
0:01:34.776574	LOG	PUSH_ACK: 02 b920 01
0:01:34.778575	LOG	GPS Time from gateway: 1385122593238
0:01:34.779576	LOG	PUSH_DATA: Protocol version = 02, Token = b920, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4162416581, 'time': '2023-11-27T12:16:14.238079Z', 'tmms': 1385122593238, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.2, 'foff': -3238, 'rssi': -50, 'size': 12, 'data': 'QAAAAACAPAvyY1fn'}]}
0:01:34.781583	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b3c, FOpts:), FPort: , FRMPayload: , MIC: f26357e7)
0:01:34.782619	LOG	Server <-------------------- DUT
0:01:34.784627	LOG	Frame command not received because the payload is empty
0:01:34.785615	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07af, FOpts:), FPort: e0, FRMPayload: 0801), MIC: eb8cd7bd)
0:01:34.787604	LOG	Frame command sent to the DUT
0:01:34.788614	LOG	PULL_RESP: Protocol version = 02, Token = e186, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4164416581, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 129, 'data': 'YAAAAAAArwfgEeqC1d8mZjt8VsRY7hS9NAfDvHTQQF9XgOjwLzPtOpRjt8

		QB41DOArUzbO9sobQ6kCwxDJ3vemP/3tVhWWVnPE/KpPeOPMvql+u4vDvh02FquHAJe12rdOT7Yl3KgMhK1rJ/LJTHumQF/zWfzXm7P959q47rjNe9'}}
0:01:34.790150	LOG	Server --------------------> DUT
0:01:34.792181	LOG	TX_ACK: 02 e186 05 0016c001ff1025bf
0:01:37.052844	LOG	First uplink received. Open reception window.
0:01:37.164923	LOG	PUSH_ACK: 02 174f 01
0:01:37.166431	LOG	GPS Time from gateway: 1385122595625
0:01:37.168431	LOG	PUSH_DATA: Protocol version = 02, Token = 174f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4164803643, 'time': '2023-11-27T12:16:16.625141Z', 'tmms': 1385122595625, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3240, 'rssi': -50, 'size': 12, 'data': 'QAAAAACAPQsDr1rF'}]}
0:01:37.169431	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b3d, FOpts:), FPort: , FRMPayload: , MIC: 03af5ac5)
0:01:37.171432	LOG	Server <-------------------- DUT
0:01:37.172432	LOG	Frame command not received because the payload is empty
0:01:37.174431	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07b0, FOpts:), FPort: e0, FRMPayload: 0801), MIC: e9413291)
0:01:37.175431	LOG	Frame command sent to the DUT
0:01:37.177431	LOG	PULL_RESP: Protocol version = 02, Token = f8ef, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4166803643, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 129, 'data': 'YAAAAAAAsAfguvY7hcyFXmUo8B4vGqxUfbPEjRTJ7fqa64ezGsTIxH4Iypj5d2YhWxHr0rLyc6zJkO74Z0RHj2LDuZTyNkbQX5JwTKbya9ZTFeyD9taTlHLeRS7JxoV5aITwFN/kZghwM1E/VaSDJpPh8gVdYJZ/zuqcBjvpQTKR'}}
0:01:37.178431	LOG	Server --------------------> DUT
0:01:37.181439	LOG	TX_ACK: 02 f8ef 05 0016c001ff1025bf
0:01:41.249575	LOG	First uplink received. Open reception window.
0:01:41.364040	LOG	PUSH_ACK: 02 422d 01
0:01:41.366039	LOG	GPS Time from gateway: 1385122599821
0:01:41.367039	LOG	PUSH_DATA: Protocol version = 02, Token = 422d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4168999321, 'time': '2023-11-27T12:16:20.820818Z', 'tmms': 1385122599821, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 11.8, 'foff': -3232, 'rssi': -50, 'size': 12, 'data': 'QAAAAACAPgvLIgHQ'}]}
0:01:41.368040	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b3e, FOpts:), FPort: , FRMPayload: , MIC: cb2201d0)
0:01:41.370055	LOG	Server <-------------------- DUT
0:01:41.372047	LOG	Frame command not received because the payload is empty
0:01:41.377080	LOG	End Test Step: Uplink - Oversized Payload via Echo for datarate SF9BW125
0:01:41.381078	LOG	Partial Verdict: PASS
0:01:41.385680	LOG	==
0:01:41.391647	LOG	==
0:01:41.393679	LOG	Start Test Step: Uplink - Oversized Payload via Echo for datarate SF8BW125
0:01:41.405651	LOG	Step 02-03
0:01:41.408653	LOG	Send MAC command block process starts
0:01:44.113399	LOG	GPS Time updated: 1385122602684
0:01:44.114398	LOG	PULL_DATA: 02 3dba 02 0016c001ff1025bf
0:01:44.116399	LOG	PULL_ACK: 02 3dba 04
0:01:47.259421	LOG	First uplink received. Open reception window.
0:01:47.362416	LOG	PUSH_ACK: 02 9702 01

0:01:47.364415	LOG	GPS Time from gateway: 1385122605833
0:01:47.365414	LOG	PUSH_DATA: Protocol version = 02, Token = 9702, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4175011929, 'time': '2023-11-27T12:16:26.833425Z', 'tmms': 1385122605833, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 12.5, 'foff': -3236, 'rssi': -49, 'size': 20, 'data': 'QAAAAACAPwsCCY0eKEOEx8qX6gg='}]}
0:01:47.367415	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b3f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ca97ea08)
0:01:47.368447	LOG	Server <-------------------- DUT
0:01:47.370511	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07b1, FOpts:), FPort: 00, FRMPayload: 03400700010505d2ad84), MIC: 593b1ce1)
0:01:47.372469	LOG	PULL_RESP: Protocol version = 02, Token = a678, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4177011929, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAsQcAmL5mREnERAksqFk7HOE='}}
0:01:47.373486	LOG	Server --------------------> DUT
0:01:47.376093	LOG	TX_ACK: 02 a678 05 0016c001ff1025bf
0:01:52.181039	LOG	First uplink received. Open reception window.
0:01:52.282641	LOG	PUSH_ACK: 02 a0cf 01
0:01:52.285443	LOG	GPS Time from gateway: 1385122610761
0:01:52.287303	LOG	PUSH_DATA: Protocol version = 02, Token = a0cf, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4179939609, 'time': '2023-11-27T12:16:31.761103Z', 'tmms': 1385122610761, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 15.0, 'foff': -3240, 'rssi': -49, 'size': 24, 'data': 'QAAAAACEQAsDBwUHAhr/+B2uVLahDo8O'}]}
0:01:52.288627	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0b40, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: a10e8f0e)
0:01:52.290283	LOG	Server <-------------------- DUT
0:01:52.291933	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:52.294092	LOG	Command Answer: 03070507
0:01:52.356203	LOG	MAC command communication completed
0:01:52.362170	LOG	Step 03-04
0:01:52.377207	LOG	Send Test Command EchoPayloadReq process starts
0:01:54.305345	LOG	GPS Time updated: 1385122612885
0:01:54.306349	LOG	PULL_DATA: 02 d1dc 02 0016c001ff1025bf
0:01:54.308350	LOG	PULL_ACK: 02 d1dc 04
0:01:57.171873	LOG	First uplink received. Open reception window.
0:01:57.279987	LOG	PUSH_ACK: 02 49d2 01
0:01:57.281954	LOG	GPS Time from gateway: 1385122615750
0:01:57.282954	LOG	PUSH_DATA: Protocol version = 02, Token = 49d2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4184929117, 'time': '2023-11-27T12:16:36.750610Z', 'tmms': 1385122615750, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.5, 'foff': -3240, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCQQsFBwJSmgcUZ8oSn6MV1Q=='}]}
0:01:57.283959	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b41, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 9fa315d5)
0:01:57.285958	LOG	Server <-------------------- DUT
0:01:57.287960	LOG	MAC Command RXParamSetupAns received
0:01:57.288959	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07b2, FOpts:), FPort: e0, FRMPayload: 0801010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101

		010101010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010101010 10101010101010101), MIC: 18f00a62)
0:01:57.291477	LOG	Frame command sent to the DUT
0:01:57.292468	LOG	PULL_RESP: Protocol version = 02, Token = 72a8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4186929117, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 256, 'data': 'YAAAAAAAsgfgiO1uKPkC//TZ/rIWIkEiSJRQ0ysHGThdN4oDpfT+Mbh8B8p2RPMVaVgqQdsgsH9SuJr21Sdcq3N3wGJkMLHZP5SPjK1gebAbzSbuf8s9JA8lfiodRFNgYdS50szheg7wmK5uc5XHhixAiSSa/Sf+C5lbikg0DF1T3RwaIbVJ10HIyO+XIzs3MjzXvtSq2wqQB0AmqBDappQe8xgaCgqviwAUHHU70xt3VKAFawjkDOMt8yFstcGE1VdJs9Ae+oZ174nrRarGvzKEMxZYHRh3SE7kzzhj7SfsywCezyq+XyWuwOY4SyZ0bg6zM4V2yeJ9gnVOGPAKYg=='}}
0:01:57.293468	LOG	Server --------------------> DUT
0:01:57.296875	LOG	TX_ACK: 02 72a8 05 0016c001ff1025bf
0:02:02.168634	LOG	First uplink received. Open reception window.
0:02:02.272662	LOG	PUSH_ACK: 02 e389 01
0:02:02.274170	LOG	GPS Time from gateway: 1385122620750
0:02:02.275174	LOG	PUSH_DATA: Protocol version = 02, Token = e389, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4189928861, 'time': '2023-11-27T12:16:41.750355Z', 'tmms': 1385122620750, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 15.0, 'foff': -3243, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCQgsFBwJDaXGh5+hkYqX4GQ=='}]}
0:02:02.277174	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b42, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 62a5f819)
0:02:02.278174	LOG	Server <-------------------- DUT
0:02:02.280174	LOG	MAC Command RXParamSetupAns received
0:02:02.281174	LOG	MAC Command RXParamSetupAns received
0:02:02.283175	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07b3, FOpts:), FPort: e0, FRMPayload: 080101010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010101010 10101010101010101), MIC: e4a31fe1)
0:02:02.285175	LOG	Frame command sent to the DUT
0:02:02.286174	LOG	PULL_RESP: Protocol version = 02, Token = 79c2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4191928861, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 256, 'data': 'YAAAAAAAswfgrmpGWXd/z+u4KpZV8bHojhmmD0QZB4wZrRzjPcMMQDl3zUS83UJohVBMsOFYzgUjF+Gxd/pF+5k6OXwiS5CsEu/xgLkbu89Z2eSz2CILkTJcn0ix9Wf0BRk8ifVH+1h99lYOxhpV6qY5mNgiehYn8K3u0/F3M9Px8r9P6mV4+KzqrDLso20RjGbEhHQf/WgTE9r4vwilgUlTtTAuRYdGsJO16i3nvihd20JL53t05/Ktze3lPlbMDvvTYOAhjM+AgTisSQLnh5++bqXg9fxupB6JRgr62KnHnFKOQmOprWcAc014fTCNKAvNCJ8Ly5LJF4f55KMf4Q=='}}
0:02:02.288175	LOG	Server --------------------> DUT
0:02:02.290208	LOG	TX_ACK: 02 79c2 05 0016c001ff1025bf
0:02:04.385133	LOG	GPS Time updated: 1385122622967
0:02:04.386101	LOG	PULL_DATA: 02 9978 02 0016c001ff1025bf
0:02:04.388102	LOG	PULL_ACK: 02 9978 04
0:02:07.175444	LOG	First uplink received. Open reception window.

0:02:07.291184	LOG	PUSH_ACK: 02 7c94 01
0:02:07.293185	LOG	GPS Time from gateway: 1385122625750
0:02:07.294185	LOG	PUSH_DATA: Protocol version = 02, Token = 7c94, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4194928601, 'time': '2023-11-27T12:16:46.750094Z', 'tmms': 1385122625750, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.8, 'foff': -3243, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCQwsFBwL6uHNhVb/IPG5G5g=='}]}
0:02:07.295185	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b43, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 3c6e46e6)
0:02:07.297187	LOG	Server <-------------------- DUT
0:02:07.298191	LOG	MAC Command RXParamSetupAns received
0:02:07.300186	LOG	MAC Command RXParamSetupAns received
0:02:07.301186	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07b4, FOpts:), FPort: e0, FRMPayload: 0801), MIC: c5935066)
0:02:07.303186	LOG	Frame command sent to the DUT
0:02:07.305186	LOG	PULL_RESP: Protocol version = 02, Token = 3787, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4196928601, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 256, 'data': 'YAAAAAAAtAfgtQWssjhgzonWSVAW+yb7cHZkZ/sKi//Ce/94R3C1NbG5Zt4XAfNN1XeZPlNNT2zXcKFvG18GZnfW4VrpzmAcbHmw1qF3+p0hp0BEEb/8QhDRHdXPI0J19UmxhTBEb42jvLzHtlS9Qj7yNADkfjuNKHfVja+BfM4K7AFmBNK0f3pRnXMsFVQNcdrtk7gO5s2i7RxPwpYrM5DJauZbix7kW6aOc8cjOJz+BfNjo+tLc59A73XuPQsfgHocub97snyP5dgISYLjpU8rYpQe9CFY966Un/k7S8iyvmPBDvL7MBcrXUDkd90RR/nn5rhR111eCmXnxZNQZg=='}}
0:02:07.306185	LOG	Server --------------------> DUT
0:02:07.308190	LOG	TX_ACK: 02 3787 05 0016c001ff1025bf
0:02:12.171736	LOG	First uplink received. Open reception window.
0:02:12.287633	LOG	PUSH_ACK: 02 02de 01
0:02:12.288599	LOG	GPS Time from gateway: 1385122630750
0:02:12.291108	LOG	PUSH_DATA: Protocol version = 02, Token = 02de, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4199928337, 'time': '2023-11-27T12:16:51.749829Z', 'tmms': 1385122630750, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 15.0, 'foff': -3248, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCRAsFBwII0nZRN4tJzBA6Vw=='}]}
0:02:12.292108	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b44, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: cc103a57)
0:02:12.293108	LOG	Server <-------------------- DUT
0:02:12.295109	LOG	MAC Command RXParamSetupAns received
0:02:12.301109	LOG	End Test Step: Uplink - Oversized Payload via Echo for datarate SF8BW125
0:02:12.306008	LOG	Partial Verdict: PASS
0:02:12.310415	LOG	==
0:02:12.314533	LOG	==
0:02:12.316807	LOG	Start Test Step: Uplink - Oversized Payload via Echo for datarate SF7BW125
0:02:12.330526	LOG	Step 02-03
0:02:12.334038	LOG	Send MAC command block process starts
0:02:14.444960	LOG	GPS Time updated: 1385122633023
0:02:14.446433	LOG	PULL_DATA: 02 0846 02 0016c001ff1025bf
0:02:14.448439	LOG	PULL_ACK: 02 0846 04

0:02:17.175152	LOG	First uplink received. Open reception window.
0:02:17.286536	LOG	PUSH_ACK: 02 b4e8 01
0:02:17.288506	LOG	GPS Time from gateway: 1385122635749
0:02:17.290034	LOG	PUSH_DATA: Protocol version = 02, Token = b4e8, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4204928090, 'time': '2023-11-27T12:16:56.749581Z', 'tmms': 1385122635749, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.8, 'foff': -3248, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCRQsFBwICM+/OfdRmTyuB3Q=='}]}
0:02:17.291039	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b45, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 4f2b81dd)
0:02:17.293038	LOG	Server <---------- DUT
0:02:17.295057	LOG	MAC Command RXParamSetupAns received
0:02:17.297079	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07b5, FOpts:), FPort: , FRMPayload:), MIC: 7484ca20)
0:02:17.299040	LOG	PULL_RESP: Protocol version = 02, Token = 9604, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4206928090, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 12, 'data': 'YAAAAAAAtQd0hMog'}}
0:02:17.301040	LOG	Server ----------> DUT
0:02:17.306040	LOG	TX_ACK: 02 9604 05 0016c001ff1025bf
0:02:22.168553	LOG	First uplink received. Open reception window.
0:02:22.279614	LOG	PUSH_ACK: 02 aa6d 01
0:02:22.281617	LOG	GPS Time from gateway: 1385122640749
0:02:22.282614	LOG	PUSH_DATA: Protocol version = 02, Token = aa6d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4209927749, 'time': '2023-11-27T12:17:01.749239Z', 'tmms': 1385122640749, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.8, 'foff': -3247, 'rssi': -49, 'size': 20, 'data': 'QAAAAACARgsCmTF0YfCOBLWL7N0='}]}
0:02:22.283614	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b46, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b58becdd)
0:02:22.285614	LOG	Server <---------- DUT
0:02:22.287614	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07b6, FOpts:), FPort: 00, FRMPayload: 03500700010505d2ad84), MIC: 2db92e0a)
0:02:22.288609	LOG	PULL_RESP: Protocol version = 02, Token = 8b7b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4211927749, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAtgcA4aU3lLxG+9z96C25Lgo='}}
0:02:22.291156	LOG	Server ----------> DUT
0:02:22.294153	LOG	TX_ACK: 02 8b7b 05 0016c001ff1025bf
0:02:24.594796	LOG	GPS Time updated: 1385122643176
0:02:24.596769	LOG	PULL_DATA: 02 08c1 02 0016c001ff1025bf
0:02:24.597764	LOG	PULL_ACK: 02 08c1 04
0:02:27.126239	LOG	First uplink received. Open reception window.
0:02:27.234144	LOG	PUSH_ACK: 02 bd4a 01
0:02:27.236112	LOG	GPS Time from gateway: 1385122645708
0:02:27.237111	LOG	PUSH_DATA: Protocol version = 02, Token = bd4a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4214886397, 'time': '2023-11-27T12:17:06.707886Z', 'tmms': 1385122645708, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3248, 'rssi': -50, 'size': 24, 'data': 'QAAAAACERwsDBwUHAq1smFlNIssKSund'}]}
0:02:27.239112	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0b47, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 0a4ae9dd)
0:02:27.240112	LOG	Server <---------- DUT

0:02:27.242117	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:27.243112	LOG	Command Answer: 03070507
0:02:27.301021	LOG	MAC command communication completed
0:02:27.305349	LOG	Step 03-04
0:02:27.318750	LOG	Send Test Command EchoPayloadReq process starts
0:02:32.125243	LOG	First uplink received. Open reception window.
0:02:32.233799	LOG	PUSH_ACK: 02 0585 01
0:02:32.235768	LOG	GPS Time from gateway: 1385122650702
0:02:32.236767	LOG	PUSH_DATA: Protocol version = 02, Token = 0585, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4219881006, 'time': '2023-11-27T12:17:11.702493Z', 'tmms': 1385122650702, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3248, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCSAsFBwJt1YuFiaOLZZ7IwQ=='}]}
0:02:32.238769	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b48, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 659ec8c1)
0:02:32.239768	LOG	Server <-------------------- DUT
0:02:32.241767	LOG	MAC Command RXParamSetupAns received
0:02:32.242768	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07b7, FOpts:), FPort: e0, FRMPayload: 0801), MIC: 0b8a261c)
0:02:32.244772	LOG	Frame command sent to the DUT
0:02:32.246779	LOG	PULL_RESP: Protocol version = 02, Token = c111, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4221881006, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 256, 'data': 'YAAAAAAAtwfg9N0mwl6MMfFaWJkNP3/FvX63pQ3HouwIN911i2fWYB2Zt0cJ1KDFkHZUeH8dUQEwaHnezYGAMd8uJChQ85Bki/VUk2rnPIsUfZnQe1Jo4ShPhk29PTqsLhNuZyqQ3YBNCjeKtf4g5G44mTBYFNx1tXxAjljbLi3RI03tYzVu/0P+X2Muclk/3u3Y25KjgkNbxtgpZmt/yluMiWw9A22UlEZUgfmudl4X268KOlRYNVRTsmGQfTDlf8On1XAxrnBJJTeAVkcISbDoErzlmPQyf6/6FO8pMkAU31qr9K6EMl8pC7KJjPzvNb/puP1KhzzWNsVHC4omHA=='}}
0:02:32.247806	LOG	Server --------------------> DUT
0:02:32.250614	LOG	TX_ACK: 02 c111 05 0016c001ff1025bf
0:02:34.765236	LOG	GPS Time updated: 1385122653341
0:02:34.766236	LOG	PULL_DATA: 02 fca5 02 0016c001ff1025bf
0:02:34.768236	LOG	PULL_ACK: 02 fca5 04
0:02:37.123372	LOG	First uplink received. Open reception window.
0:02:37.234352	LOG	PUSH_ACK: 02 55cd 01
0:02:37.236319	LOG	GPS Time from gateway: 1385122655702
0:02:37.237320	LOG	PUSH_DATA: Protocol version = 02, Token = 55cd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4224880748, 'time': '2023-11-27T12:17:16.702234Z', 'tmms': 1385122655702, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -50, 'lsnr': 14.2, 'foff': -3248, 'rssi': -49, 'size': 22, 'data': 'QAAAAACCSQsFBwIroLRtrXpFRFcC4A=='}]}
0:02:37.239352	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b49, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 445702e0)
0:02:37.240352	LOG	Server <-------------------- DUT
0:02:37.242319	LOG	MAC Command RXParamSetupAns received
0:02:37.243319	LOG	MAC Command RXParamSetupAns received

0:02:37.245360	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07b8, FOpts:), FPort: e0, FRMPayload: 0801), MIC: 83eefa05)
0:02:37.246361	LOG	Frame command sent to the DUT
0:02:37.248360	LOG	PULL_RESP: Protocol version = 02, Token = 3365, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4226880748, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 256, 'data': 'YAAAAAAAuAfg8rfeIsFjsYplJbkf8zemC+tK5AaZRfhEnzY429gZvzIn+Sa9I5CAuXOQsuSmDAisPukVNNb+W4XDjDznq/VapJHpWX26cDw8TIYdcTPkaR8xg3nI6KDRCyv4LI1sd2tkAK+nXBmaHkynHpCNe4OcWY54d7q/fog4zouIzQ4Z5WZdQywwz2sM91ZjsemNQdvTvnyGuf5ARWgDE4Uq32af09ETlX91Bx9Yc0NBT6VhXdlouG+LSyxxZzjHuEUX79y6ga2A6yBjME9zCsta4jk/aFhCDcVN1kf/6ZgFO7hyY52qFJisSlkrGw0JivYDPOtYPEohg+76BQ=='}}
0:02:37.249325	LOG	Server --------------------> DUT
0:02:37.253325	LOG	TX_ACK: 02 3365 05 0016c001ff1025bf
0:02:42.126262	LOG	First uplink received. Open reception window.
0:02:42.236170	LOG	PUSH_ACK: 02 819e 01
0:02:42.238139	LOG	GPS Time from gateway: 1385122660702
0:02:42.239138	LOG	PUSH_DATA: Protocol version = 02, Token = 819e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4229880485, 'time': '2023-11-27T12:17:21.701972Z', 'tmms': 1385122660702, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3255, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCSgsFBwKptniupBNXLZh35w=='}]}
0:02:42.240138	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b4a, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 2d9877e7)
0:02:42.242139	LOG	Server <-------------------- DUT
0:02:42.243138	LOG	MAC Command RXParamSetupAns received
0:02:42.245156	LOG	MAC Command RXParamSetupAns received
0:02:42.247143	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07b9, FOpts:), FPort: e0, FRMPayload: 0801), MIC: eff4236c)
0:02:42.248143	LOG	Frame command sent to the DUT
0:02:42.250143	LOG	PULL_RESP: Protocol version = 02, Token = e1de, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4231880485, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 256, 'data': 'YAAAAAAAuQfgDclhp0s/c2DOyLW64l5qmybIWhEFNwiVeql45BD+0ovPyKojWaDyqU+5lus2ssnSZznxz4fJOLLMwG7i0ZnSgw+FJcQ9SUKyJQop408S/8R+BCmZMGfxUHpqNklGSnQwWor83/6QAu/D7GWVcUImnmpIOR33oRaH2yjQ6Zloz7iG0AWzLf4oejiQrnfsifnnUVIs9J8f3qHnY2+nL5wMBIwZxgk5iVE4AJHFIjm1b0JNHphtWCXgzVJ8jIOqYEHMTYfilzF3hDC6gUch8SvIhFuam3QTqQQZhEHAAsV+J3XN336xquBzETmzGhj/dBjXJRLy7/QjbA=='}}
0:02:42.251143	LOG	Server --------------------> DUT

0:02:42.253599	LOG	TX_ACK: 02 e1de 05 0016c001ff1025bf
0:02:44.974626	LOG	GPS Time updated: 1385122663551
0:02:44.976629	LOG	PULL_DATA: 02 9f58 02 0016c001ff1025bf
0:02:44.977782	LOG	PULL_ACK: 02 9f58 04
0:02:47.125937	LOG	First uplink received. Open reception window.
0:02:47.237454	LOG	PUSH_ACK: 02 1782 01
0:02:47.239422	LOG	GPS Time from gateway: 1385122665701
0:02:47.240422	LOG	PUSH_DATA: Protocol version = 02, Token = 1782, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4234880228, 'time': '2023-11-27T12:17:26.701714Z', 'tmms': 1385122665701, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3247, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCSwsFBwJQDHCyVYZsGdl6JQ=='}]}
0:02:47.241422	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b4b, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 19d97a25)
0:02:47.243428	LOG	Server <---------- DUT
0:02:47.245432	LOG	MAC Command RXParamSetupAns received
0:02:47.250432	LOG	End Test Step: Uplink - Oversized Payload via Echo for datarate SF7BW125
0:02:47.254431	LOG	Partial Verdict: PASS
0:02:47.257432	LOG	==========
0:02:47.261942	LOG	==========
0:02:47.263948	LOG	Start Test Step: Uplink - Oversized Payload via Echo for datarate SF7BW250
0:02:47.276945	LOG	Send NewChannelReq process starts
0:02:52.123987	LOG	First uplink received. Open reception window.
0:02:52.234338	LOG	PUSH_ACK: 02 e1b1 01
0:02:52.236342	LOG	GPS Time from gateway: 1385122670701
0:02:52.237340	LOG	PUSH_DATA: Protocol version = 02, Token = e1b1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4239879972, 'time': '2023-11-27T12:17:31.701457Z', 'tmms': 1385122670701, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3255, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCTAsFBwKAyLqcCcVg07HEbw=='}]}
0:02:52.238340	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b4c, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: d3b1c46f)
0:02:52.240339	LOG	Server <---------- DUT
0:02:52.241339	LOG	MAC Command RXParamSetupAns received
0:02:52.243340	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07ba, FOpts:), FPort: , FRMPayload:), MIC: 2cad205f)
0:02:52.245359	LOG	PULL_RESP: Protocol version = 02, Token = 4837, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4241879972, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 12, 'data': 'YAAAAAAAugcsrSBf'}}
0:02:52.246344	LOG	Server ----------> DUT
0:02:52.250053	LOG	TX_ACK: 02 4837 05 0016c001ff1025bf
0:02:55.184607	LOG	GPS Time updated: 1385122673763
0:02:55.186574	LOG	PULL_DATA: 02 fa5e 02 0016c001ff1025bf
0:02:55.188101	LOG	PULL_ACK: 02 fa5e 04
0:02:57.124197	LOG	First uplink received. Open reception window.
0:02:57.232163	LOG	PUSH_ACK: 02 45fc 01
0:02:57.234126	LOG	GPS Time from gateway: 1385122675701
0:02:57.235126	LOG	PUSH_DATA: Protocol version = 02, Token = 45fc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4244879615, 'time': '2023-11-27T12:17:36.701099Z', 'tmms': 1385122675701, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3255, 'rssi': -51, 'size': 20, 'data': 'QAAAAACATQsCiGi4y4ZojnbqT6k='}]}
0:02:57.236126	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b4d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 76ea4fa9)
0:02:57.238127	LOG	Server <---------- DUT

0:02:57.240126	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07bb, FOpts:), FPort: 00, FRMPayload: 070328768466), MIC: 36444311)
0:02:57.242127	LOG	PULL_RESP: Protocol version = 02, Token = 0cad, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4246879615, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YAAAAAAAuwcAzg9luj0vNkRDEQ==\'}}
0:02:57.243126	LOG	Server ----------> DUT
0:02:57.247132	LOG	TX_ACK: 02 0cad 05 0016c001ff1025bf
0:03:00.409184	LOG	#**********CURRENT BEACON SENT**********#
0:03:00.411149	LOG	PULL_RESP: Protocol version = 02, Token = e2eb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385122688000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACAS49SdUEAAAAAAAAAAAA=\'}}
0:03:00.413150	LOG	Server ----------> DUT
0:03:00.415168	LOG	#**********#
0:03:00.425209	LOG	#**********NEXT BEACON QUEUED**********#
0:03:00.426207	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385122816000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAATI9S3RkAAAAAAAAAAA=\'}}
0:03:00.427205	LOG	Server ----------> DUT
0:03:00.429206	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 004c8f52, CRC1: dd19, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385122816000
0:03:00.430205	LOG	#**********#
0:03:00.431210	LOG	Next BEACON scheduled at GPS time (ms): 1385122944000
0:03:00.433249	LOG	TX_ACK: 02 e2eb 05 0016c001ff1025bf
0:03:02.120629	LOG	First uplink received. Open reception window.
0:03:02.226149	LOG	PUSH_ACK: 02 42f0 01
0:03:02.227653	LOG	GPS Time from gateway: 1385122680701
0:03:02.229659	LOG	PUSH_DATA: Protocol version = 02, Token = 42f0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4249879461, 'time': '2023-11-27T12:17:41.700944Z', 'tmms': 1385122680701, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.2, 'foff': -3248, 'rssi': -50, 'size': 22, 'data': 'QAAAAACCTgsHAwINhXO5BqwQtFSz2g==\'}]}
0:03:02.230658	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b4e, FOpts: 0703), FPort: 02, FRMPayload: 00000001020000, MIC: b454b3da)
0:03:02.232659	LOG	Server <---------- DUT
0:03:02.233658	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:03:02.235658	LOG	Command Answer: 0703
0:03:02.240658	LOG	MAC command communication completed
0:03:02.245788	LOG	Step 02-03
0:03:02.248829	LOG	Send MAC command block process starts
0:03:05.244900	LOG	GPS Time updated: 1385122683826
0:03:05.245898	LOG	PULL_DATA: 02 36ec 02 0016c001ff1025bf
0:03:05.247878	LOG	PULL_ACK: 02 36ec 04
0:03:07.125314	LOG	First uplink received. Open reception window.
0:03:07.241070	LOG	PUSH_ACK: 02 5d3e 01
0:03:07.243071	LOG	GPS Time from gateway: 1385122685700
0:03:07.244078	LOG	PUSH_DATA: Protocol version = 02, Token = 5d3e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4254879098, 'time': '2023-11-27T12:17:46.700580Z',

		'tmms': 1385122685700, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3244, 'rssi': -51, 'size': 20, 'data': 'QAAAAACATwsCSJldobgpb1YwuLw='}]}
0:03:07.246076	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b4f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5630b8bc)
0:03:07.247108	LOG	Server <-------------------- DUT
0:03:07.249076	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07bc, FOpts:), FPort: 00, FRMPayload: 03600f00010505d2ad84), MIC: d9c793f6)
0:03:07.251075	LOG	PULL_RESP: Protocol version = 02, Token = ffde, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4256879098, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAvAcANpsZNpJev7d5E9nHk/Y='}}
0:03:07.252076	LOG	Server --------------------> DUT
0:03:07.255076	LOG	TX_ACK: 02 ffde 05 0016c001ff1025bf
0:03:12.097270	LOG	First uplink received. Open reception window.
0:03:12.208531	LOG	PUSH_ACK: 02 ad1a 01
0:03:12.210566	LOG	GPS Time from gateway: 1385122690674
0:03:12.211568	LOG	PUSH_DATA: Protocol version = 02, Token = ad1a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4259853221, 'time': '2023-11-27T12:17:51.674702Z', 'tmms': 1385122690674, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.8, 'foff': -3232, 'rssi': -51, 'size': 24, 'data': 'QAAAAACEUAsDBwUHAtdYF16j/fmaX3Rc'}]}
0:03:12.213567	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0b50, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 9a5f745c)
0:03:12.214566	LOG	Server <-------------------- DUT
0:03:12.216535	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:03:12.217534	LOG	Command Answer: 03070507
0:03:12.275108	LOG	MAC command communication completed
0:03:12.278108	LOG	Step 03-04
0:03:12.291658	LOG	Send Test Command EchoPayloadReq process starts
0:03:15.444738	LOG	GPS Time updated: 1385122694022
0:03:15.445743	LOG	PULL_DATA: 02 889c 02 0016c001ff1025bf
0:03:15.447745	LOG	PULL_ACK: 02 889c 04
0:03:17.091922	LOG	First uplink received. Open reception window.
0:03:17.195296	LOG	PUSH_ACK: 02 148d 01
0:03:17.196766	LOG	GPS Time from gateway: 1385122695672
0:03:17.198770	LOG	PUSH_DATA: Protocol version = 02, Token = 148d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4264850388, 'time': '2023-11-27T12:17:56.671867Z', 'tmms': 1385122695672, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3247, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCUQsFBwKmtKey3p3HPVVHxw=='}]}
0:03:17.199770	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b51, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 3d5547c7)
0:03:17.200770	LOG	Server <-------------------- DUT
0:03:17.202771	LOG	MAC Command RXParamSetupAns received
0:03:17.204770	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07bd, FOpts:), FPort: e0, FRMPayload: 080101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101

		010101010101010101010101010101010101010101010101010101010101010 10101010101010101), MIC: d70395ac)
0:03:17.205770	LOG	Frame command sent to the DUT
0:03:17.207771	LOG	PULL_RESP: Protocol version = 02, Token = 2a65, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4266850388, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 256, 'data': 'YAAAAAAAvQfg8R2ErfptvRlIawFiRsGNOny0OVilBtR54CgRSSJ3vvAqNSeG dnZlRXAF0A8HA2rRKbiqRe9LziT8EZuA3Z3IW6Nv2MhF2YBC6R7hraZL0IIW SP+mknn6hc/MZDjB+qLf5ajHcxyKmU80JkHDt5pMxRLGVr5IuK6v7VedbqTCw 5bDYr0oNlzRdzREjdLkmX2qt9s7g+7eJN13AqShAHa7JnZT6usYKVZk5TYIK71 LFvS5Kety8JX31jiQKe0t8lacXVjNIViof3abMaM5DMXy4Yz0NBe3cEDCXLygG JU2jVvkvGvyzoeBs/Xs5xy0KK8v9xnY1wOVrA=='}}
0:03:17.208770	LOG	Server --------------------> DUT
0:03:17.211772	LOG	TX_ACK: 02 2a65 05 0016c001ff1025bf
0:03:22.089152	LOG	First uplink received. Open reception window.
0:03:22.199551	LOG	PUSH_ACK: 02 2111 01
0:03:22.201516	LOG	GPS Time from gateway: 1385122700671
0:03:22.202516	LOG	PUSH_DATA: Protocol version = 02, Token = 2111, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4269850139, 'time': '2023-11-27T12:18:01.671619Z', 'tmms': 1385122700671, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3247, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCUgsFBwJ3UO/oZeF4EJxfjw=='}]}
0:03:22.203516	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b52, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 109c5f8f)
0:03:22.205516	LOG	Server <-------------------- DUT
0:03:22.207516	LOG	MAC Command RXParamSetupAns received
0:03:22.208516	LOG	MAC Command RXParamSetupAns received
0:03:22.210516	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07be, FOpts:), FPort: e0, FRMPayload: 080101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101010101010101010101010101 010101010101010101010101010101010101010101010101010101010101010 10101010101010101), MIC: f3ac9894)
0:03:22.211516	LOG	Frame command sent to the DUT
0:03:22.213521	LOG	PULL_RESP: Protocol version = 02, Token = 5b10, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4271850139, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 256, 'data': 'YAAAAAAAvgfgXVefRrjB0cDlQkkPXLQqbAj3y3MCHFcY/T0BNqU3ugRcg+ 0N0SxqmbKvWzJmyNd5n3STO/+2PP3czrf6T3+o3/P/Eqm6Kl6FmVyCh+WL94J EAkouVvK4UHKzUBQjw5OJYMaYp8jDtLc9BnOBli7DHh4RXU3Iw3DtDdzuMj 0+7Wy9ZQipzxbcaIiEWxhe9cFH2U+IiIKvmf0FAPXHUreaT+DOrKsgNMKyOk7 yTkF2zsV7eYHW6pBi65cqoVBbeR2NwGjd3LZdqWZOFt6UZM7W7Xl2E9PB3 R91iqiXxFl8vTfsSL7KdDrRm4bCUH6rj8uKbV/786yYlA=='}}
0:03:22.215521	LOG	Server --------------------> DUT
0:03:22.217521	LOG	TX_ACK: 02 5b10 05 0016c001ff1025bf
0:03:25.574167	LOG	GPS Time updated: 1385122704157
0:03:25.576135	LOG	PULL_DATA: 02 3276 02 0016c001ff1025bf
0:03:25.577137	LOG	PULL_ACK: 02 3276 04
0:03:27.089512	LOG	First uplink received. Open reception window.
0:03:27.202728	LOG	PUSH_ACK: 02 deb4 01
0:03:27.204696	LOG	GPS Time from gateway: 1385122705671

0:03:27.205695	LOG	PUSH_DATA: Protocol version = 02, Token = deb4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4274849865, 'time': '2023-11-27T12:18:06.671344Z', 'tmms': 1385122705671, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3247, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCUwsFBwLj8Noanfbc1gB4wA=='}]}
0:03:27.206696	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b53, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: d60078c0)
0:03:27.208696	LOG	Server <-------------------- DUT
0:03:27.210699	LOG	MAC Command RXParamSetupAns received
0:03:27.211696	LOG	MAC Command RXParamSetupAns received
0:03:27.213700	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07bf, FOpts:), FPort: e0, FRMPayload: 0801), MIC: 98c7ba9e)
0:03:27.214701	LOG	Frame command sent to the DUT
0:03:27.216701	LOG	PULL_RESP: Protocol version = 02, Token = d16b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4276849865, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 256, 'data': 'YAAAAAAAvwfg4d/Vn+kTGgW3FmGvRshFaYm5K4tqjykmtJAGnn2VjFJf4Pp8iPSjKF3gq8MnPyX8QQEO9ML768kBDjR6ZRCx0/Oh5FP6DAkH/QNHTGZYUw8jTd6fq3WaxXm+LBjp6G5KwUKjzfmN448/3Cg/kWkXtC+gR3s14FNmd4VUG8rJyFn/I7BDZXCnR8HiMZsOHqRWlnLviNTg+74njm4vpGDSuaYffdWyWJ1KkSNzCtTwto5/grry2AFzh57dFDycpMaUhPOsyKswRXswFf4rJbIia8cUV1DRKmkpUg3Vm/pelaRA4tDimmoCbre9GmTjqsPB1jtZmMe6ng=='}}
0:03:27.217701	LOG	Server --------------------> DUT
0:03:27.223727	LOG	TX_ACK: 02 d16b 05 0016c001ff1025bf
0:03:32.089269	LOG	First uplink received. Open reception window.
0:03:32.203755	LOG	PUSH_ACK: 02 00ed 01
0:03:32.205724	LOG	GPS Time from gateway: 1385122710671
0:03:32.206723	LOG	PUSH_DATA: Protocol version = 02, Token = 00ed, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4279849617, 'time': '2023-11-27T12:18:11.671095Z', 'tmms': 1385122710671, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3247, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCVAsFBwJyYj1U+Jd+6hoSdQ=='}]}
0:03:32.207723	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b54, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: ea1a1275)
0:03:32.209724	LOG	Server <-------------------- DUT
0:03:32.210723	LOG	MAC Command RXParamSetupAns received
0:03:32.217728	LOG	Send LinkADRReq process starts
0:03:35.624289	LOG	GPS Time updated: 1385122714206
0:03:35.626289	LOG	PULL_DATA: 02 ddfb 02 0016c001ff1025bf
0:03:35.627288	LOG	PULL_ACK: 02 ddfb 04
0:03:37.089596	LOG	First uplink received. Open reception window.
0:03:37.202539	LOG	PUSH_ACK: 02 4b22 01
0:03:37.204574	LOG	GPS Time from gateway: 1385122715670
0:03:37.205574	LOG	PUSH_DATA: Protocol version = 02, Token = 4b22, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4284849360, 'time': '2023-11-27T12:18:16.670837Z', 'tmms': 1385122715670, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3247, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCVQsFBwKbGgEs9+C/zvSJig=='}]}

0:03:37.207559	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b55, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: cef4898a)
0:03:37.208576	LOG	Server <---------- DUT
0:03:37.210542	LOG	MAC Command RXParamSetupAns received
0:03:37.212555	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07c0, FOpts:), FPort: , FRMPayload:), MIC: bf28d1c8)
0:03:37.213592	LOG	PULL_RESP: Protocol version = 02, Token = 6cf7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4286849360, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 12, 'data': 'YAAAAAAAwAe/KNHI'}}
0:03:37.215592	LOG	Server ----------> DUT
0:03:37.217881	LOG	TX_ACK: 02 6cf7 05 0016c001ff1025bf
0:03:42.095306	LOG	First uplink received. Open reception window.
0:03:42.201515	LOG	PUSH_ACK: 02 f787 01
0:03:42.203516	LOG	GPS Time from gateway: 1385122720670
0:03:42.204516	LOG	PUSH_DATA: Protocol version = 02, Token = f787, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4289848989, 'time': '2023-11-27T12:18:21.670465Z', 'tmms': 1385122720670, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'mid': 16, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3247, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAVgsC6cSxxEIj9GlJbDQ='}]}
0:03:42.206482	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b56, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 69496c34)
0:03:42.207482	LOG	Server <---------- DUT
0:03:42.209494	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07c1, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: e6594efe)
0:03:42.211516	LOG	PULL_RESP: Protocol version = 02, Token = a21a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4291848989, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAwQcAiLUwdBLmWU7+'}}
0:03:42.212516	LOG	Server ----------> DUT
0:03:42.215520	LOG	TX_ACK: 02 a21a 05 0016c001ff1025bf
0:03:45.783755	LOG	GPS Time updated: 1385122724358
0:03:45.785723	LOG	PULL_DATA: 02 703a 02 0016c001ff1025bf
0:03:45.787737	LOG	PULL_ACK: 02 703a 04
0:03:47.115525	LOG	First uplink received. Open reception window.
0:03:47.225448	LOG	PUSH_ACK: 02 77a6 01
0:03:47.227415	LOG	GPS Time from gateway: 1385122725698
0:03:47.228925	LOG	PUSH_DATA: Protocol version = 02, Token = 77a6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4294877130, 'time': '2023-11-27T12:18:26.698605Z', 'tmms': 1385122725698, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3274, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCVwsDBwJaPFdmLb0kTus6EQ=='}]}
0:03:47.229924	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b57, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 4eeb3a11)
0:03:47.230925	LOG	Server <---------- DUT
0:03:47.232925	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:03:47.234939	LOG	Command Answer: 0307
0:03:47.241688	LOG	MAC command communication completed
0:03:47.245071	LOG	Send NewChannelReq process starts
0:03:52.124774	LOG	First uplink received. Open reception window.
0:03:52.225502	LOG	PUSH_ACK: 02 26d5 01
0:03:52.227469	LOG	GPS Time from gateway: 1385122730698
0:03:52.228830	LOG	PUSH_DATA: Protocol version = 02, Token = 26d5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 4909469, 'time': '2023-11-27T12:18:31.698239Z', 'tmms': 1385122730698, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA',

		'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3271, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAWAsCQZhJoGcxjmHk3W4='}]}
0:03:52.229830	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b58, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 61e4dd6e)
0:03:52.231831	LOG	Server <---------- DUT
0:03:52.232798	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07c2, FOpts:), FPort: 00, FRMPayload: 070300000050), MIC: 3b435457)
0:03:52.234833	LOG	PULL_RESP: Protocol version = 02, Token = 8c48, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 6909469, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YAAAAAAAwgcAzV/MOWAoO0NUVw=='}}
0:03:52.235832	LOG	Server ----------> DUT
0:03:52.238663	LOG	TX_ACK: 02 8c48 05 0016c001ff1025bf
0:03:55.803947	LOG	GPS Time updated: 1385122734377
0:03:55.805917	LOG	PULL_DATA: 02 e4d4 02 0016c001ff1025bf
0:03:55.806922	LOG	PULL_ACK: 02 e4d4 04
0:03:57.117765	LOG	First uplink received. Open reception window.
0:03:57.227450	LOG	PUSH_ACK: 02 ef6d 01
0:03:57.229026	LOG	GPS Time from gateway: 1385122735698
0:03:57.230995	LOG	PUSH_DATA: Protocol version = 02, Token = ef6d, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 9909311, 'time': '2023-11-27T12:18:36.698079Z', 'tmms': 1385122735698, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3270, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCWQsHAwKdSRhqfuxk085KdQ=='}]}
0:03:57.232029	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b59, FOpts: 0703), FPort: 02, FRMPayload: 00000001020000, MIC: d3ce4a75)
0:03:57.233025	LOG	Server <---------- DUT
0:03:57.234995	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:03:57.236007	LOG	Command Answer: 0703
0:03:57.241574	LOG	MAC command communication completed
0:03:57.243606	LOG	End Test Step: Uplink - Oversized Payload via Echo for datarate SF7BW250
0:03:57.247643	LOG	Partial Verdict: PASS
0:03:57.250644	LOG	==========
0:03:57.254643	LOG	==========
0:03:57.256645	LOG	Start Test Step: Uplink - Oversized Payload via Echo for datarate FSK
0:03:57.269714	LOG	Send NewChannelReq process starts
0:04:02.121557	LOG	First uplink received. Open reception window.
0:04:02.230893	LOG	PUSH_ACK: 02 fa91 01
0:04:02.232861	LOG	GPS Time from gateway: 1385122740697
0:04:02.233861	LOG	PUSH_DATA: Protocol version = 02, Token = fa91, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 14908950, 'time': '2023-11-27T12:18:41.697717Z', 'tmms': 1385122740697, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3271, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAWgsCDs5qsIBlGWvrFto='}]}
0:04:02.235862	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b5a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6beb16da)
0:04:02.236861	LOG	Server <---------- DUT
0:04:02.238862	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07c3, FOpts:), FPort: 00, FRMPayload: 070428768477), MIC: 143fc94d)
0:04:02.240862	LOG	PULL_RESP: Protocol version = 02, Token = 7f8a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 16908950, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YAAAAAAAwwcAPZRwBqdwFD/JTQ=='}}
0:04:02.241861	LOG	Server ----------> DUT
0:04:02.244889	LOG	TX_ACK: 02 7f8a 05 0016c001ff1025bf

0:04:05.813906	LOG	GPS Time updated: 1385122744389
0:04:05.815873	LOG	PULL_DATA: 02 152d 02 0016c001ff1025bf
0:04:05.816910	LOG	PULL_ACK: 02 152d 04
0:04:07.121487	LOG	First uplink received. Open reception window.
0:04:07.236000	LOG	PUSH_ACK: 02 08f3 01
0:04:07.237969	LOG	GPS Time from gateway: 1385122745697
0:04:07.238968	LOG	PUSH_DATA: Protocol version = 02, Token = 08f3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 19908793, 'time': '2023-11-27T12:18:46.697561Z', 'tmms': 1385122745697, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3274, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCWwsHAwLvqmcH6e/zmC5fcA=='}]}
0:04:07.240969	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b5b, FOpts: 0703), FPort: 02, FRMPayload: 00000001020000, MIC: 982e5f70)
0:04:07.241969	LOG	Server <---------- DUT
0:04:07.243974	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:04:07.244973	LOG	Command Answer: 0703
0:04:07.250360	LOG	MAC command communication completed
0:04:07.254400	LOG	Step 02-03
0:04:07.257391	LOG	Send MAC command block process starts
0:04:12.122965	LOG	First uplink received. Open reception window.
0:04:12.233885	LOG	PUSH_ACK: 02 e11c 01
0:04:12.235851	LOG	GPS Time from gateway: 1385122750697
0:04:12.236850	LOG	PUSH_DATA: Protocol version = 02, Token = e11c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 24908439, 'time': '2023-11-27T12:18:51.697206Z', 'tmms': 1385122750697, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3271, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAXAsCOn+cVHsmslwphMA='}]}
0:04:12.237851	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b5c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5c2984c0)
0:04:12.239851	LOG	Server <---------- DUT
0:04:12.241859	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07c4, FOpts:), FPort: 00, FRMPayload: 03701700010505d2ad84), MIC: 1e8d9d27)
0:04:12.242851	LOG	PULL_RESP: Protocol version = 02, Token = f3b1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 26908439, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAxAcAqDSPWY7qgSoTLB6NnSc='}}
0:04:12.244856	LOG	Server ----------> DUT
0:04:12.247553	LOG	TX_ACK: 02 f3b1 05 0016c001ff1025bf
0:04:16.024343	LOG	GPS Time updated: 1385122754599
0:04:16.025342	LOG	PULL_DATA: 02 71ed 02 0016c001ff1025bf
0:04:16.027343	LOG	PULL_ACK: 02 71ed 04
0:04:17.070023	LOG	First uplink received. Open reception window.
0:04:17.183858	LOG	PUSH_ACK: 02 4872 01
0:04:17.185893	LOG	GPS Time from gateway: 1385122755646
0:04:17.186887	LOG	PUSH_DATA: Protocol version = 02, Token = 4872, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 29858070, 'time': '2023-11-27T12:18:56.646836Z', 'tmms': 1385122755646, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -58, 'size': 24, 'data': 'QAAAAACEXQsDBwUHAnId/vhMjXhKUE+A'}]}
0:04:17.188859	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0b5d, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 4a504f80)
0:04:17.189400	LOG	Server <---------- DUT

0:04:17.191417	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:04:17.192438	LOG	Command Answer: 03070507
0:04:17.249466	LOG	MAC command communication completed
0:04:17.253466	LOG	Step 03-04
0:04:17.267584	LOG	Send Test Command EchoPayloadReq process starts
0:04:22.069183	LOG	First uplink received. Open reception window.
0:04:22.181462	LOG	PUSH_ACK: 02 da25 01
0:04:22.183429	LOG	GPS Time from gateway: 1385122760646
0:04:22.184428	LOG	PUSH_DATA: Protocol version = 02, Token = da25, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 34857466, 'time': '2023-11-27T12:19:01.646231Z', 'tmms': 1385122760646, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -61, 'size': 22, 'data': 'QAAAAACCXgsFBwIPYmxs3QtRJkW1zA=='}]}
0:04:22.185428	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b5e, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 2645b5cc)
0:04:22.187429	LOG	Server <-------------------- DUT
0:04:22.188433	LOG	MAC Command RXParamSetupAns received
0:04:22.190429	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07c5, FOpts:), FPort: e0, FRMPayload: 0801), MIC: a00cc576)
0:04:22.192428	LOG	Frame command sent to the DUT
0:04:22.193428	LOG	PULL_RESP: Protocol version = 02, Token = 094c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 36857466, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 256, 'data': 'YAAAAAAAxQfgXno+Lt50zcqelGhrZ61cT7pKaHcHnJkWC0OOUwGRBzsU7DSz6ixNrazlfLghWsN0Lfc1yaynrZFUja9FWJpvztc519/zhiPCe1NWLQzxK9t8S5p/T+lTQOK7o5ZOsbuRJuYMtISZN6V46gdjWye8cDhTQv1pebyIgo/zvnylGlJs7CtmiCFxm1jINEZwNzeX/mCJaoFuDFrY6eRgAaO9z+Yf8RE5jqRXJIEoE5h8htx6nFNovfyMZ/u7mtGQF0T7CNlKPtxjlqiwdAWVEMl2E+QZDuC8mFA2xTrY3VC+38eULrgAAKr/Gke4gEaDO4t8wJBroAzFdg=='}}
0:04:22.194932	LOG	Server --------------------> DUT
0:04:22.197450	LOG	TX_ACK: 02 094c 05 0016c001ff1025bf
0:04:26.183889	LOG	GPS Time updated: 1385122764760
0:04:26.184926	LOG	PULL_DATA: 02 6d26 02 0016c001ff1025bf
0:04:26.186608	LOG	PULL_ACK: 02 6d26 04
0:04:27.070352	LOG	First uplink received. Open reception window.
0:04:27.178279	LOG	PUSH_ACK: 02 4864 01
0:04:27.180281	LOG	GPS Time from gateway: 1385122765646
0:04:27.181314	LOG	PUSH_DATA: Protocol version = 02, Token = 4864, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 39857214, 'time': '2023-11-27T12:19:06.645978Z', 'tmms': 1385122765646, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -61, 'size': 22, 'data': 'QAAAAACCXwsFBwIiaBTJAfygV9dy3w=='}]}
0:04:27.182352	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b5f, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 57d772df)
0:04:27.184319	LOG	Server <-------------------- DUT
0:04:27.185320	LOG	MAC Command RXParamSetupAns received
0:04:27.187319	LOG	MAC Command RXParamSetupAns received

0:04:27.188352	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07c6, FOpts:), FPort: e0, FRMPayload: 08010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101), MIC: 07a2cdb7)
0:04:27.190352	LOG	Frame command sent to the DUT
0:04:27.191351	LOG	PULL_RESP: Protocol version = 02, Token = 01f8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 41857214, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 256, 'data': 'YAAAAAAAxgfg1KuY71MXx84M2eztZ+s5npDPc5v/EglWPyCY/zvOHs7/Xvq Tmq/mLIDCmBkLy16PEFITvzAlTpqwuH79EGNAgYZBIKmGgid/p8Yq+KsfVK s64gp/7Cizvjd9BQI3dn97Vv6l3Sb/N8CjjRgrvXNcNlWZJAumxSyyuayDjdcYXb5 e3UiujRcvvcKWpL9g4mWkYBTsUxGICy4yV4OcOqMWYPqdNPLxoTgBs9Gpn 0DbEviIjaCx5dPRg3s2hRAVWK1wb5yWPczWJPj+oLG4iptBvQCrGRkgaZZv3L JRXOoeyVub/73WTxga09v9SRMqmLMe/OG3B6LNtw=='}}
0:04:27.193318	LOG	Server --------------------> DUT
0:04:27.195359	LOG	TX_ACK: 02 01f8 05 0016c001ff1025bf
0:04:32.061753	LOG	First uplink received. Open reception window.
0:04:32.167257	LOG	PUSH_ACK: 02 9e25 01
0:04:32.168765	LOG	GPS Time from gateway: 1385122770645
0:04:32.169765	LOG	PUSH_DATA: Protocol version = 02, Token = 9e25, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 44856964, 'time': '2023-11-27T12:19:11.645727Z', 'tmms': 1385122770645, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -60, 'size': 22, 'data': 'QAAAAACCYAsFBwJnKexs2+1PMQ16/A=='}]}
0:04:32.171765	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b60, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 310d7afc)
0:04:32.172764	LOG	Server <-------------------- DUT
0:04:32.174765	LOG	MAC Command RXParamSetupAns received
0:04:32.175764	LOG	MAC Command RXParamSetupAns received
0:04:32.177764	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07c7, FOpts:), FPort: e0, FRMPayload: 08010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101010101010101010101010101010101010101010101 01010101010101010101010101010101010101010101010101010101010 10101010101010101), MIC: 3651b540)
0:04:32.178764	LOG	Frame command sent to the DUT
0:04:32.180765	LOG	PULL_RESP: Protocol version = 02, Token = 7e0b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 46856964, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 256, 'data': 'YAAAAAAAxwfgNN6ac5vtbepZkkNJ8GxypiKsUOdj8IQusioql5E4SwhPmWl/y bJrL2suOvrjgeR4gXkiW0VqEjM4w/AHTArJK9ui5H14K+YRGpS/6O8q0VO4Vnr WiZPwqkz4UkF2L7wg0KZBbSLO7HG8SXulO7TZDXUxO6eaBQgo8O3y/QyS7l sCk0yzxza6Z6h8tE2cLxsNFOTAXNPAtHffbQIddDOaJAXcil7aStCwcpiHS3FUy G2lx1FmqCyAiH4F/9lyYDfbQvn2733F3lpkcevX9stVA/sL8i46yjGENFJwVNhX2 2SZYca8UgI4+R/9JyDMrqzfc6MeNlG1QA=='}}
0:04:32.181769	LOG	Server --------------------> DUT

0:04:32.184614	LOG	TX_ACK: 02 7e0b 05 0016c001ff1025bf
0:04:36.384184	LOG	GPS Time updated: 1385122774967
0:04:36.385190	LOG	PULL_DATA: 02 5fc5 02 0016c001ff1025bf
0:04:36.387192	LOG	PULL_ACK: 02 5fc5 04
0:04:37.069273	LOG	First uplink received. Open reception window.
0:04:37.184815	LOG	PUSH_ACK: 02 fa43 01
0:04:37.186817	LOG	GPS Time from gateway: 1385122775645
0:04:37.187817	LOG	PUSH_DATA: Protocol version = 02, Token = fa43, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 49856699, 'time': '2023-11-27T12:19:16.645461Z', 'tmms': 1385122775645, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -58, 'size': 22, 'data': 'QAAAAACCYQsFBwLe5e644G+CG44Cwg==\'}]}
0:04:37.188817	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b61, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 1b8e02c2)
0:04:37.190850	LOG	Server <---------- DUT
0:04:37.191851	LOG	MAC Command RXParamSetupAns received
0:04:37.198396	LOG	Send LinkADRReq process starts
0:04:42.068362	LOG	First uplink received. Open reception window.
0:04:42.184585	LOG	PUSH_ACK: 02 99e9 01
0:04:42.186552	LOG	GPS Time from gateway: 1385122780645
0:04:42.187551	LOG	PUSH_DATA: Protocol version = 02, Token = 99e9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 54856443, 'time': '2023-11-27T12:19:21.645203Z', 'tmms': 1385122780645, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -58, 'size': 22, 'data': 'QAAAAACCYgsFBwJoAvvPz2JAkn3ljQ==\'}]}
0:04:42.189556	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b62, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 927de58d)
0:04:42.190556	LOG	Server <---------- DUT
0:04:42.192557	LOG	MAC Command RXParamSetupAns received
0:04:42.194557	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07c8, FOpts:), FPort: , FRMPayload:), MIC: c4839566)
0:04:42.196061	LOG	PULL_RESP: Protocol version = 02, Token = 71cb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 56856443, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 12, 'data': 'YAAAAAAAyAfEg5Vm'}}
0:04:42.197068	LOG	Server ----------> DUT
0:04:42.200068	LOG	TX_ACK: 02 71cb 05 0016c001ff1025bf
0:04:46.393618	LOG	GPS Time updated: 1385122784970
0:04:46.395619	LOG	PULL_DATA: 02 b009 02 0016c001ff1025bf
0:04:46.396621	LOG	PULL_ACK: 02 b009 04
0:04:47.063227	LOG	First uplink received. Open reception window.
0:04:47.175389	LOG	PUSH_ACK: 02 edab 01
0:04:47.177390	LOG	GPS Time from gateway: 1385122785644
0:04:47.178389	LOG	PUSH_DATA: Protocol version = 02, Token = edab, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 59855751, 'time': '2023-11-27T12:19:26.644512Z', 'tmms': 1385122785644, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'mid': 17, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -63, 'size': 20, 'data': 'QAAAAACAYwsC31A4ANNZii6ak8s=\'}]}
0:04:47.180389	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b63, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2e9a93cb)
0:04:47.181395	LOG	Server <---------- DUT
0:04:47.183397	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07c9, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: 3f6889a9)
0:04:47.185395	LOG	PULL_RESP: Protocol version = 02, Token = 2f0a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 61855751, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAAyQcAJDOkO98/aImp'}}
0:04:47.186394	LOG	Server ----------> DUT
0:04:47.191393	LOG	TX_ACK: 02 2f0a 05 0016c001ff1025bf
0:04:52.113420	LOG	First uplink received. Open reception window.
0:04:52.227277	LOG	PUSH_ACK: 02 9a02 01
0:04:52.229309	LOG	GPS Time from gateway: 1385122790695
0:04:52.231282	LOG	PUSH_DATA: Protocol version = 02, Token = 9a02, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 64906465, 'time': '2023-11-27T12:19:31.695225Z', 'tmms': 1385122790695, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3285, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCZAsDBwJC0k12VE2lSgS7VA=='}]}
0:04:52.232285	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b64, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 4a04bb54)
0:04:52.234284	LOG	Server <---------- DUT
0:04:52.235282	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:04:52.237281	LOG	Command Answer: 0307
0:04:52.244480	LOG	MAC command communication completed
0:04:52.247937	LOG	Send NewChannelReq process starts
0:04:56.423465	LOG	GPS Time updated: 1385122795006
0:04:56.425483	LOG	PULL_DATA: 02 d8a2 02 0016c001ff1025bf
0:04:56.427625	LOG	PULL_ACK: 02 d8a2 04
0:04:57.117956	LOG	First uplink received. Open reception window.
0:04:57.225058	LOG	PUSH_ACK: 02 f6b9 01
0:04:57.226061	LOG	GPS Time from gateway: 1385122795694
0:04:57.228639	LOG	PUSH_DATA: Protocol version = 02, Token = f6b9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 69906111, 'time': '2023-11-27T12:19:36.694870Z', 'tmms': 1385122795694, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3286, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAZQsCz1MOHvt6N0Qn0r0='}]}
0:04:57.229643	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b65, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4427d2bd)
0:04:57.231610	LOG	Server <---------- DUT
0:04:57.233191	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07ca, FOpts:), FPort: 00, FRMPayload: 070400000050), MIC: 75d88f55)
0:04:57.235192	LOG	PULL_RESP: Protocol version = 02, Token = efdc, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 71906111, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YAAAAAAAygcAliFg5jV6ddiPVQ=='}}
0:04:57.236185	LOG	Server ----------> DUT
0:04:57.238535	LOG	TX_ACK: 02 efdc 05 0016c001ff1025bf
0:05:02.113930	LOG	First uplink received. Open reception window.
0:05:02.228889	LOG	PUSH_ACK: 02 a607 01
0:05:02.230854	LOG	GPS Time from gateway: 1385122800694
0:05:02.231855	LOG	PUSH_DATA: Protocol version = 02, Token = a607, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 74905953, 'time': '2023-11-27T12:19:41.694711Z', 'tmms': 1385122800694, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3285, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCZgsHAwIU+AWRHF9nm3ziNQ=='}]}
0:05:02.233855	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b66, FOpts: 0703), FPort: 02, FRMPayload: 00000001020000, MIC: 9b7ce235)
0:05:02.234855	LOG	Server <---------- DUT
0:05:02.236359	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:05:02.238365	LOG	Command Answer: 0703

0:05:02.243406	LOG	MAC command communication completed
0:05:02.245453	LOG	End Test Step: Uplink - Oversized Payload via Echo for datarate FSK
0:05:02.250411	LOG	Partial Verdict: PASS
0:05:02.253443	LOG	==========
0:05:02.257411	LOG	==========
0:05:02.260926	LOG	Start Test Step: Uplink - Oversized Payload via Echo for datarate LR_FHSSCR1_3BW137
0:05:02.275987	LOG	End Test Step: Uplink - Oversized Payload via Echo for datarate LR_FHSSCR1_3BW137
0:05:02.279986	LOG	TEST STEP NOT APPLICABLE
0:05:02.282987	LOG	==========
0:05:02.287828	LOG	==========
0:05:02.289838	LOG	Start Test Step: Uplink - Oversized Payload via Echo for datarate LR_FHSSCR2_3BW137
0:05:02.304347	LOG	End Test Step: Uplink - Oversized Payload via Echo for datarate LR_FHSSCR2_3BW137
0:05:02.307383	LOG	TEST STEP NOT APPLICABLE
0:05:02.310417	LOG	==========
0:05:02.315383	LOG	==========
0:05:02.317153	LOG	Start Test Step: Uplink - Oversized Payload via Echo for datarate LR_FHSSCR1_3BW336
0:05:02.330316	LOG	End Test Step: Uplink - Oversized Payload via Echo for datarate LR_FHSSCR1_3BW336
0:05:02.333317	LOG	TEST STEP NOT APPLICABLE
0:05:02.336869	LOG	==========
0:05:02.341879	LOG	==========
0:05:02.344880	LOG	Start Test Step: Uplink - Oversized Payload via Echo for datarate LR_FHSSCR2_3BW336
0:05:02.357342	LOG	End Test Step: Uplink - Oversized Payload via Echo for datarate LR_FHSSCR2_3BW336
0:05:02.360341	LOG	TEST STEP NOT APPLICABLE
0:05:02.364340	LOG	==========
0:05:02.368341	LOG	==========
0:05:02.370379	LOG	Start Test Step: Restore default settings
0:05:02.381347	LOG	Step 06-07
0:05:02.387909	LOG	Send MAC command block process starts
0:05:06.474024	LOG	GPS Time updated: 1385122805054
0:05:06.475023	LOG	PULL_DATA: 02 d980 02 0016c001ff1025bf
0:05:06.477288	LOG	PULL_ACK: 02 d980 04
0:05:07.114575	LOG	First uplink received. Open reception window.
0:05:07.222565	LOG	PUSH_ACK: 02 2d46 01
0:05:07.224527	LOG	GPS Time from gateway: 1385122805694
0:05:07.225526	LOG	PUSH_DATA: Protocol version = 02, Token = 2d46, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 79905589, 'time': '2023-11-27T12:19:46.694346Z', 'tmms': 1385122805694, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3286, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAZwsCJLWgEg6JqELMMl4='}]}
0:05:07.227557	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b67, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 42cc325e)
0:05:07.228644	LOG	Server <---------- DUT
0:05:07.230641	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07cb, FOpts:), FPort: 00, FRMPayload: 03500700010500d2ad84), MIC: b633342d)
0:05:07.233647	LOG	PULL_RESP: Protocol version = 02, Token = 9a56, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 81905589, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAAywcAXWSQ1e0oEH/+JrYzNC0='}}
0:05:07.235644	LOG	Server ----------> DUT
0:05:07.237643	LOG	TX_ACK: 02 9a56 05 0016c001ff1025bf
0:05:12.116767	LOG	#**********CURRENT BEACON SENT**********#
0:05:12.117801	LOG	PULL_RESP: Protocol version = 02, Token = 8465, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385122816000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAATI9S3RkAAAAAAAAAAA='}}
0:05:12.119838	LOG	Server ----------> DUT
0:05:12.120838	LOG	#**********#
0:05:12.130515	LOG	#**********NEXT BEACON QUEUED**********#
0:05:12.132512	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385122944000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACATI9S5cQAAAAAAAAAAA='}}
0:05:12.133511	LOG	Server ----------> DUT
0:05:12.135088	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 804c8f52, CRC1: e5c4, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385122944000
0:05:12.136088	LOG	#**********#
0:05:12.137089	LOG	Next BEACON scheduled at GPS time (ms): 1385123072000
0:05:12.139109	LOG	First uplink received. Open reception window.
0:05:12.141089	LOG	TX_ACK: 02 8465 05 0016c001ff1025bf
0:05:12.249675	LOG	PUSH_ACK: 02 a675 01
0:05:12.251682	LOG	GPS Time from gateway: 1385122810699
0:05:12.252713	LOG	PUSH_DATA: Protocol version = 02, Token = a675, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 84910569, 'time': '2023-11-27T12:19:51.699325Z', 'tmms': 1385122810699, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3297, 'rssi': -51, 'size': 24, 'data': 'QAAAAACEaAsDBwUHAjIswBc+lOYJlx7w'}]}
0:05:12.254730	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0b68, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 09971ef0)
0:05:12.255716	LOG	Server <---------- DUT
0:05:12.257681	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:05:12.259244	LOG	Command Answer: 03070507
0:05:12.315136	LOG	MAC command communication completed
0:05:12.319137	LOG	Step 07-08
0:05:12.322648	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:05:16.523176	LOG	GPS Time updated: 1385122815082
0:05:16.525190	LOG	PULL_DATA: 02 ab54 02 0016c001ff1025bf
0:05:16.526278	LOG	PULL_ACK: 02 ab54 04
0:05:17.118766	LOG	First uplink received. Open reception window.
0:05:17.226108	LOG	PUSH_ACK: 02 2d49 01
0:05:17.227644	LOG	GPS Time from gateway: 1385122815693
0:05:17.229650	LOG	PUSH_DATA: Protocol version = 02, Token = 2d49, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 89905173, 'time': '2023-11-27T12:19:56.693928Z', 'tmms': 1385122815693, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3285, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCaQsFBwLa89uTWwPRAO9aYQ=='}]}

0:05:17.230679	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b69, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 00ef5a61)
0:05:17.231683	LOG	Server <---------- DUT
0:05:17.233650	LOG	MAC Command RXParamSetupAns received
0:05:17.234682	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07cc, FOpts:), FPort: e0, FRMPayload: 0501), MIC: 9652820d)
0:05:17.236689	LOG	Frame command sent to the DUT
0:05:17.237719	LOG	PULL_RESP: Protocol version = 02, Token = b97b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 91905173, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAzAfge4CWUoIN'}}
0:05:17.239691	LOG	Server ----------> DUT
0:05:17.241689	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:05:17.244686	LOG	End Test Step: Restore default settings
0:05:17.248722	LOG	Partial Verdict: PASS
0:05:17.252297	LOG	==========
0:05:17.255300	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_019_B
0:05:17.257294	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_020	
Verdict	PASS	
Date	2023-11-27 13:19:58	
Description		
Technology Version	LCTT v3.11.0_R1 | GUI v2.6.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.3	
Test Specs Version	USv1.5.1/EUv1.6.2/KRv1.2.1/ASv1.1.1/INv1.1.1/ALL_Av1.6/ALL_Cv1.0/ALL_Bv1.0/SCHCv1.1/ALPv1.0	
Project	ref-stack	
Project Creation Date	2023-10-04 09:10:20	
Sample Parameters		
	Conformance	TRUE

Time Stamp (ms)	Event	Summary
0:00:00.009886	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_020
0:00:00.068335	LOG	==========
0:00:00.071015	LOG	Start Test Step: Device activation
0:00:00.161702	LOG	Activation process has finished successfully
0:00:00.163705	LOG	Data stored in the DUT after Activation:
0:00:00.166710	LOG	DevAddr: 00000000
0:00:00.170709	LOG	AppEUI: 0000000000000000
0:00:00.172710	LOG	NwkSKey: 6bfb58c6a233389e6e66450a9e520a70
0:00:00.175710	LOG	AppSKey: ded4e508ab9cede444c3765e0533fcac
0:00:00.180214	LOG	End Test Step: Device activation
0:00:00.185218	LOG	Partial Verdict: PASS
0:00:00.188219	LOG	==========
0:00:00.193219	LOG	==========
0:00:00.195220	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.204225	LOG	DUT Pre-condition activation process starts
0:00:00.207225	LOG	DUT Pre-condition activation completed
0:00:00.210226	LOG	End Test Step: DUT Pre-condition settings
0:00:00.214291	LOG	Partial Verdict: PASS
0:00:00.218294	LOG	==========
0:00:00.223294	LOG	==========
0:00:00.225803	LOG	Start Test Step: MAC Commands in App-Payload (FRMPayload) only (FPort = 0)
0:00:00.234806	LOG	Step 01-02

0:00:00.238806	LOG	Send MAC command block process starts
0:00:02.287087	LOG	PUSH_DATA received while waiting first PULL_DATA
0:00:06.864061	LOG	GPS Time updated: 1385122820270
0:00:06.866063	LOG	PULL_DATA: 02 0e73 02 0016c001ff1025bf
0:00:06.867478	LOG	PULL_ACK: 02 0e73 04
0:00:07.283810	LOG	First uplink received. Open reception window.
0:00:07.394932	LOG	PUSH_ACK: 02 d0a7 01
0:00:07.396898	LOG	GPS Time from gateway: 1385122825693
0:00:07.398402	LOG	PUSH_DATA: Protocol version = 02, Token = d0a7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 99904551, 'time': '2023-11-27T12:20:06.693305Z', 'tmms': 1385122825693, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.8, 'foff': -3297, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAawsCEqw/iv1hevtBA1k='}]}
0:00:07.400408	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b6b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fb410359)
0:00:07.402416	LOG	Server <---------- DUT
0:00:07.404409	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07cd, FOpts:), FPort: 00, FRMPayload: 060502d2ad8408010350000061), MIC: 9db8d35c)
0:00:07.406408	LOG	PULL_RESP: Protocol version = 02, Token = ea17, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 101904551, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 26, 'data': 'YAAAAAAAzQcAdn8k8IQO20y2DxUNl52401w='}}
0:00:07.408405	LOG	Server ----------> DUT
0:00:07.411408	LOG	TX_ACK: 02 ea17 05 0016c001ff1025bf
0:00:12.296993	LOG	First uplink received. Open reception window.
0:00:12.410723	LOG	PUSH_ACK: 02 b04a 01
0:00:12.412687	LOG	GPS Time from gateway: 1385122830703
0:00:12.413687	LOG	PUSH_DATA: Protocol version = 02, Token = b04a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 104914704, 'time': '2023-11-27T12:20:11.703457Z', 'tmms': 1385122830703, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3293, 'rssi': -51, 'size': 28, 'data': 'QAAAAACIbAsGAAYFBwgDBwLKuVn125pe4Tiwzg=='}]}
0:00:12.415692	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 88, FCnt: 0b6c, FOpts: 0600060507080307), FPort: 02, FRMPayload: 00000001020000, MIC: e138b0ce)
0:00:12.416692	LOG	Server <---------- DUT
0:00:12.418692	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:12.419692	LOG	Command Answer: 0600060507080307
0:00:12.493526	LOG	MAC command communication completed
0:00:12.497493	LOG	Step 03
0:00:12.500494	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:17.064486	LOG	GPS Time updated: 1385122835471
0:00:17.065484	LOG	PULL_DATA: 02 2b4b 02 0016c001ff1025bf
0:00:17.067484	LOG	PULL_ACK: 02 2b4b 04
0:00:17.288498	LOG	First uplink received. Open reception window.
0:00:17.392381	LOG	PUSH_ACK: 02 4c03 01
0:00:17.394350	LOG	GPS Time from gateway: 1385122835698
0:00:17.395402	LOG	PUSH_DATA: Protocol version = 02, Token = 4c03, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 109909276, 'time': '2023-11-27T12:20:16.698028Z', 'tmms': 1385122835698, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.8, 'foff': -3293, 'rssi': -51, 'size': 23, 'data': 'QAAAAACDbQsFBwgCFo/EqxB/JvEIbcM='}]}
0:00:17.396382	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 83, FCnt: 0b6d, FOpts: 050708), FPort: 02, FRMPayload: 00000001020000, MIC: f1086dc3)

0:00:17.398384	LOG	Server <---------- DUT
0:00:17.400469	LOG	MAC Command RXParamSetupAns received
0:00:17.401468	LOG	MAC Command RXTimingSetupAns received
0:00:17.403469	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07ce, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 82baa772)
0:00:17.405468	LOG	Frame command sent to the DUT
0:00:17.407469	LOG	PULL_RESP: Protocol version = 02, Token = 9bab, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 111909276, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAAzgfgkXOCuqdy'}}
0:00:17.409468	LOG	Server ----------> DUT
0:00:17.412470	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:17.415543	LOG	End Test Step: MAC Commands in App-Payload (FRMPayload) only (FPort = 0)
0:00:17.419515	LOG	Partial Verdict: PASS
0:00:17.424505	LOG	==========
0:00:17.428505	LOG	==========
0:00:17.431017	LOG	Start Test Step: MAC Commands in Frame Options (FOpts) only (FPort != 0)
0:00:17.443523	LOG	Step 01-02
0:00:17.448530	LOG	Send MAC command block process starts
0:00:22.288389	LOG	First uplink received. Open reception window.
0:00:22.392186	LOG	PUSH_ACK: 02 ed42 01
0:00:22.394156	LOG	GPS Time from gateway: 1385122840692
0:00:22.395186	LOG	PUSH_DATA: Protocol version = 02, Token = ed42, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 114903773, 'time': '2023-11-27T12:20:21.692524Z', 'tmms': 1385122840692, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAbgsCG9jgdglP6rCGkws='}]}
0:00:22.397194	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b6e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: b086930b)
0:00:22.397194	LOG	Server <---------- DUT
0:00:22.399742	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 0d, FCnt: 07cf, FOpts: 060502d2ad8408010350000061), FPort: , FRMPayload:), MIC: c52d25da)
0:00:22.401737	LOG	PULL_RESP: Protocol version = 02, Token = fa85, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 116903773, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 25, 'data': 'YAAAAAANzwcGBQLSrYQIAQNQAABhxS0l2g=='}}
0:00:22.403741	LOG	Server ----------> DUT
0:00:22.406741	LOG	TX_ACK: 02 fa85 05 0016c001ff1025bf
0:00:27.234083	LOG	GPS Time updated: 1385122845638
0:00:27.236078	LOG	PULL_DATA: 02 bcac 02 0016c001ff1025bf
0:00:27.237061	LOG	PULL_ACK: 02 bcac 04
0:00:27.295790	LOG	First uplink received. Open reception window.
0:00:27.397202	LOG	PUSH_ACK: 02 aa62 01
0:00:27.398740	LOG	GPS Time from gateway: 1385122845702
0:00:27.400747	LOG	PUSH_DATA: Protocol version = 02, Token = aa62, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 119913924, 'time': '2023-11-27T12:20:26.702674Z', 'tmms': 1385122845702, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3305, 'rssi': -51, 'size': 28, 'data': 'QAAAAACIbwsGAAcFBwgDBwLArXjrnjsGUJAtbA=='}]}
0:00:27.401778	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 88, FCnt: 0b6f, FOpts: 0600070507080307), FPort: 02, FRMPayload: 00000001020000, MIC: 50902d6c)
0:00:27.402777	LOG	Server <---------- DUT
0:00:27.404779	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field

0:00:27.405746	LOG	Command Answer: 0600070507080307
0:00:27.483369	LOG	MAC command communication completed
0:00:27.487334	LOG	Step 03
0:00:27.490369	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:32.288339	LOG	First uplink received. Open reception window.
0:00:32.405331	LOG	PUSH_ACK: 02 b483 01
0:00:32.407299	LOG	GPS Time from gateway: 1385122850697
0:00:32.408302	LOG	PUSH_DATA: Protocol version = 02, Token = b483, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 124908499, 'time': '2023-11-27T12:20:31.697248Z', 'tmms': 1385122850697, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3305, 'rssi': -51, 'size': 23, 'data': 'QAAAAACDcAsFBwgCQ3AMVCO9IIIpyqI='}]}
0:00:32.410299	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 83, FCnt: 0b70, FOpts: 050708), FPort: 02, FRMPayload: 00000001020000, MIC: 8229caa2)
0:00:32.411300	LOG	Server <---------- DUT
0:00:32.413299	LOG	MAC Command RXParamSetupAns received
0:00:32.414299	LOG	MAC Command RXTimingSetupAns received
0:00:32.416304	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07d0, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 7a25bda1)
0:00:32.417304	LOG	Frame command sent to the DUT
0:00:32.419304	LOG	PULL_RESP: Protocol version = 02, Token = 8b45, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 126908499, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA0Afg6hB6Jb2h'}}
0:00:32.420303	LOG	Server ----------> DUT
0:00:32.423112	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:32.426155	LOG	End Test Step: MAC Commands in Frame Options (FOpts) only (FPort != 0)
0:00:32.429695	LOG	Partial Verdict: PASS
0:00:32.432736	LOG	==========
0:00:32.438709	LOG	==========
0:00:32.441710	LOG	Start Test Step: MAC Commands in App-Payload (FRMPayload) and FOpts
0:00:32.451760	LOG	Step 01
0:00:32.457308	LOG	Send MAC command block in FOpts and FRMPayload process starts
0:00:37.244597	LOG	GPS Time updated: 1385122855652
0:00:37.245601	LOG	PULL_DATA: 02 e3e1 02 0016c001ff1025bf
0:00:37.247574	LOG	PULL_ACK: 02 e3e1 04
0:00:37.286754	LOG	First uplink received. Open reception window.
0:00:37.393944	LOG	PUSH_ACK: 02 ca89 01
0:00:37.395914	LOG	GPS Time from gateway: 1385122855691
0:00:37.396911	LOG	PUSH_DATA: Protocol version = 02, Token = ca89, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 129903005, 'time': '2023-11-27T12:20:36.691752Z', 'tmms': 1385122855691, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAcQsCJX22FQhh/wFmuAc='}]}
0:00:37.398416	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b71, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0166b807)
0:00:37.399422	LOG	Server <---------- DUT
0:00:37.401424	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 0f, FCnt: 07d1, FOpts: 0300000061030000000610502d2ad84), FPort: 00, FRMPayload: 0350000061080106), MIC: a03a8288)
0:00:37.404431	LOG	PULL_RESP: Protocol version = 02, Token = 6ada, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 131903005, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 36, 'data': 'YAAAAAAP0QcDAAAAYQMAAABhBQLSrYQA2JAPHhHTccegOoKI'}}
0:00:37.405422	LOG	Server ----------> DUT

0:00:37.408421	LOG	TX_ACK: 02 6ada 05 0016c001ff1025bf
0:00:42.285247	LOG	First uplink received. Open reception window.
0:00:42.395490	LOG	PUSH_ACK: 02 dd83 01
0:00:42.397458	LOG	GPS Time from gateway: 1385122860691
0:00:42.398962	LOG	PUSH_DATA: Protocol version = 02, Token = dd83, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 134902752, 'time': '2023-11-27T12:20:41.691500Z', 'tmms': 1385122860691, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3293, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAcgsCdVasnusWs9BVqIo='}]}
0:00:42.399968	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b72, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d055a88a)
0:00:42.401969	LOG	Server <---------- DUT
0:00:42.403999	LOG	MAC command not received because FPort field is not set to 0 and FOpts field is empty
0:00:42.407001	LOG	MAC command communication completed
0:00:42.411000	LOG	Send MAC command block in FOpts and FRMPayload process starts
0:00:47.273713	LOG	GPS Time updated: 1385122865680
0:00:47.275974	LOG	PULL_DATA: 02 be56 02 0016c001ff1025bf
0:00:47.278005	LOG	PULL_ACK: 02 be56 04
0:00:47.279975	LOG	First uplink received. Open reception window.
0:00:47.394200	LOG	PUSH_ACK: 02 10cd 01
0:00:47.396169	LOG	GPS Time from gateway: 1385122865691
0:00:47.397168	LOG	PUSH_DATA: Protocol version = 02, Token = 10cd, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 139902484, 'time': '2023-11-27T12:20:46.691231Z', 'tmms': 1385122865691, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.8, 'foff': -3309, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAcwsC5VIR5xBD4K7GY6A='}]}
0:00:47.398673	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b73, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: aec663a0)
0:00:47.399678	LOG	Server <---------- DUT
0:00:47.401693	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 0f, FCnt: 07d2, FOpts: 03000000610300000610502d2ad84), FPort: 00, FRMPayload: 0350000061080106), MIC: 88505b21)
0:00:47.404680	LOG	PULL_RESP: Protocol version = 02, Token = d32b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 141902484, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 36, 'data': 'YAAAAAAP0gcDAAAAYQMAAABhBQLSrYQA33Bq/5NuzxSIUFsh'}}
0:00:47.406694	LOG	Server ----------> DUT
0:00:47.408678	LOG	TX_ACK: 02 d32b 05 0016c001ff1025bf
0:00:52.278549	LOG	First uplink received. Open reception window.
0:00:52.389766	LOG	PUSH_ACK: 02 c9e0 01
0:00:52.391731	LOG	GPS Time from gateway: 1385122870691
0:00:52.392731	LOG	PUSH_DATA: Protocol version = 02, Token = c9e0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 144902230, 'time': '2023-11-27T12:20:51.690976Z', 'tmms': 1385122870691, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3309, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAdAsCiN4g9F7HZta6924='}]}
0:00:52.393735	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b74, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d6baf76e)
0:00:52.395735	LOG	Server <---------- DUT
0:00:52.396736	LOG	MAC command not received because FPort field is not set to 0 and FOpts field is empty
0:00:52.400246	LOG	MAC command communication completed
0:00:52.405246	LOG	Send MAC command block in FOpts and FRMPayload process starts
0:00:57.281273	LOG	First uplink received. Open reception window.

0:00:57.385200	LOG	PUSH_ACK: 02 7426 01
0:00:57.387203	LOG	GPS Time from gateway: 1385122875690
0:00:57.388201	LOG	PUSH_DATA: Protocol version = 02, Token = 7426, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 149901967, 'time': '2023-11-27T12:20:56.690712Z', 'tmms': 1385122875690, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3309, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAdQsCCNWmW62FPc59iOE='}]}
0:00:57.389202	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b75, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ce7d88e1)
0:00:57.391197	LOG	Server <---------- DUT
0:00:57.392202	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 0f, FCnt: 07d3, FOpts: 03000000610300000061050 2d2ad84), FPort: 00, FRMPayload: 0350000061080106), MIC: 566d2ac3)
0:00:57.394208	LOG	PULL_RESP: Protocol version = 02, Token = bd10, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 151901967, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 36, 'data': 'YAAAAAAP0wcDAAAAYQMAAABhBQLSrYQAqloKymRDrwhWbSrD'}}
0:00:57.396206	LOG	Server ----------> DUT
0:00:57.398709	LOG	TX_ACK: 02 bd10 05 0016c001ff1025bf
0:00:57.399715	LOG	GPS Time updated: 1385122875808
0:00:57.401713	LOG	PULL_DATA: 02 6025 02 0016c001ff1025bf
0:00:57.402714	LOG	PULL_ACK: 02 6025 04
0:01:02.285050	LOG	First uplink received. Open reception window.
0:01:02.390925	LOG	PUSH_ACK: 02 708c 01
0:01:02.392891	LOG	GPS Time from gateway: 1385122880690
0:01:02.393891	LOG	PUSH_DATA: Protocol version = 02, Token = 708c, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 154901712, 'time': '2023-11-27T12:21:01.690456Z', 'tmms': 1385122880690, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3308, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAdgsCOPrMXqsTav1WifE='}]}
0:01:02.394891	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b76, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fd5689f1)
0:01:02.395892	LOG	Server <---------- DUT
0:01:02.396891	LOG	MAC command not received because FPort field is not set to 0 and FOpts field is empty
0:01:02.400403	LOG	MAC command communication completed
0:01:02.405403	LOG	Send MAC command block in FOpts and FRMPayload process starts
0:01:07.283630	LOG	First uplink received. Open reception window.
0:01:07.388121	LOG	PUSH_ACK: 02 70bc 01
0:01:07.390124	LOG	GPS Time from gateway: 1385122885690
0:01:07.391122	LOG	PUSH_DATA: Protocol version = 02, Token = 70bc, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 159901455, 'time': '2023-11-27T12:21:06.690198Z', 'tmms': 1385122885690, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3308, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAdwsCRN90yeCgfl0/1VA='}]}
0:01:07.392125	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b77, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 5d3fd550)
0:01:07.394127	LOG	Server <---------- DUT
0:01:07.395090	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 0f, FCnt: 07d4, FOpts: 03000000610300000061050 2d2ad84), FPort: 00, FRMPayload: 0350000061080106), MIC: 5ebbffad)
0:01:07.397090	LOG	PULL_RESP: Protocol version = 02, Token = b7f1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 161901455, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 36, 'data': 'YAAAAAAP1AcDAAAAYQMAAABhBQLSrYQAQY00EcsKKwFeu/+t'}}

0:01:07.398597	LOG	Server ----------> DUT
0:01:07.401603	LOG	TX_ACK: 02 b7f1 05 0016c001ff1025bf
0:01:07.403607	LOG	GPS Time updated: 1385122885811
0:01:07.405611	LOG	PULL_DATA: 02 8f5d 02 0016c001ff1025bf
0:01:07.406602	LOG	PULL_ACK: 02 8f5d 04
0:01:12.281883	LOG	First uplink received. Open reception window.
0:01:12.388324	LOG	PUSH_ACK: 02 0aa9 01
0:01:12.389324	LOG	GPS Time from gateway: 1385122890689
0:01:12.390862	LOG	PUSH_DATA: Protocol version = 02, Token = 0aa9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 164901187, 'time': '2023-11-27T12:21:11.689928Z', 'tmms': 1385122890689, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3309, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAeAsCdCOiku0XIybC4sk='}]}
0:01:12.392927	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b78, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 26c2e2c9)
0:01:12.393900	LOG	Server <---------- DUT
0:01:12.395891	LOG	MAC command not received because FPort field is not set to 0 and FOpts field is empty
0:01:12.398438	LOG	MAC command communication completed
0:01:12.402477	LOG	Step 02
0:01:12.407461	LOG	Check ACK bit in next uplink process starts
0:01:12.414478	LOG	Send MAC command block in FOpts and FRMPayload process starts
0:01:17.277768	LOG	First uplink received. Open reception window.
0:01:17.383630	LOG	PUSH_ACK: 02 aebe 01
0:01:17.385599	LOG	GPS Time from gateway: 1385122895689
0:01:17.386631	LOG	PUSH_DATA: Protocol version = 02, Token = aebe, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 169900929, 'time': '2023-11-27T12:21:16.689671Z', 'tmms': 1385122895689, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3305, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAeQsCwofKudAeQziUz0k='}]}
0:01:17.387630	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b79, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 3894cf49)
0:01:17.388631	LOG	Server <---------- DUT
0:01:17.390639	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 0f, FCnt: 07d5, FOpts: 03000000610300000610502d2ad84), FPort: 00, FRMPayload: 0350000061080106), MIC: 5e12d13f)
0:01:17.392600	LOG	PULL_RESP: Protocol version = 02, Token = 74af, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 171900929, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 36, 'data': 'oAAAAAAP1QcDAAAAYQMAAABhBQLSrYQA6zywONYCH0deEtE/'}}
0:01:17.393631	LOG	Server ----------> DUT
0:01:17.398682	LOG	TX_ACK: 02 74af 05 0016c001ff1025bf
0:01:17.603961	LOG	GPS Time updated: 1385122896015
0:01:17.604994	LOG	PULL_DATA: 02 2c91 02 0016c001ff1025bf
0:01:17.606962	LOG	PULL_ACK: 02 2c91 04
0:01:22.277662	LOG	First uplink received. Open reception window.
0:01:22.390485	LOG	PUSH_ACK: 02 9ff6 01
0:01:22.392450	LOG	GPS Time from gateway: 1385122900689
0:01:22.393450	LOG	PUSH_DATA: Protocol version = 02, Token = 9ff6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 174900666, 'time': '2023-11-27T12:21:21.689407Z', 'tmms': 1385122900689, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3313, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAegsCfFnh3esMMabMaAs='}]}
0:01:22.394454	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b7a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: a6cc680b)

0:01:22.396455	LOG	Server <---------- DUT
0:01:22.397455	LOG	MAC command not received because FPort field is not set to 0 and FOpts field is empty
0:01:22.398959	LOG	Confirmed wrong MAC Command. MAC Command answer received with ACK bit to 0
0:01:22.402473	LOG	MAC command communication completed
0:01:22.407470	LOG	Check ACK bit in next uplink process starts
0:01:22.413502	LOG	Send MAC command block in FOpts and FRMPayload process starts
0:01:27.283496	LOG	First uplink received. Open reception window.
0:01:27.390835	LOG	PUSH_ACK: 02 1bf5 01
0:01:27.392800	LOG	GPS Time from gateway: 1385122905689
0:01:27.393800	LOG	PUSH_DATA: Protocol version = 02, Token = 1bf5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 179900417, 'time': '2023-11-27T12:21:26.689157Z', 'tmms': 1385122905689, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.8, 'foff': -3313, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAewsCfkHuLgwUDfHgJuQ='}]}
0:01:27.395805	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b7b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f1e026e4)
0:01:27.396805	LOG	Server <---------- DUT
0:01:27.398310	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 0f, FCnt: 07d6, FOpts: 0300000061030000006105 02d2ad84), FPort: 00, FRMPayload: 0350000061080106), MIC: ba8ce360)
0:01:27.400315	LOG	PULL_RESP: Protocol version = 02, Token = 50be, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 181900417, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 36, 'data': 'oAAAAAAP1gcDAAAAYQMAAABhBQLSrYQA5ljzVAWUt3y6jONg'}}
0:01:27.401315	LOG	Server ----------> DUT
0:01:27.404461	LOG	TX_ACK: 02 50be 05 0016c001ff1025bf
0:01:27.613281	LOG	GPS Time updated: 1385122906019
0:01:27.615281	LOG	PULL_DATA: 02 6bf8 02 0016c001ff1025bf
0:01:27.616281	LOG	PULL_ACK: 02 6bf8 04
0:01:32.284688	LOG	First uplink received. Open reception window.
0:01:32.393930	LOG	PUSH_ACK: 02 782a 01
0:01:32.395898	LOG	GPS Time from gateway: 1385122910688
0:01:32.396897	LOG	PUSH_DATA: Protocol version = 02, Token = 782a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 184900158, 'time': '2023-11-27T12:21:31.688897Z', 'tmms': 1385122910688, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3313, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAfAsCOhB2xlw+nPS/jlY='}]}
0:01:32.398402	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b7c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f4bf8e56)
0:01:32.400408	LOG	Server <---------- DUT
0:01:32.401407	LOG	MAC command not received because FPort field is not set to 0 and FOpts field is empty
0:01:32.403408	LOG	Confirmed wrong MAC Command. MAC Command answer received with ACK bit to 0
0:01:32.406407	LOG	MAC command communication completed
0:01:32.410943	LOG	Check ACK bit in next uplink process starts
0:01:32.416412	LOG	Send MAC command block in FOpts and FRMPayload process starts
0:01:37.276481	LOG	First uplink received. Open reception window.
0:01:37.391583	LOG	PUSH_ACK: 02 4f88 01
0:01:37.393586	LOG	GPS Time from gateway: 1385122915688
0:01:37.394588	LOG	PUSH_DATA: Protocol version = 02, Token = 4f88, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 189899903, 'time': '2023-11-27T12:21:36.688641Z', 'tmms': 1385122915688, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3309, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAfQsCnGmP/XsocKqK/Vw='}]}
0:01:37.395588	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b7d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: aa8afd5c)
0:01:37.397586	LOG	Server <---------- DUT
0:01:37.399093	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 0f, FCnt: 07d7, FOpts: 03000000610300000610502d2ad84), FPort: 00, FRMPayload: 0350000061080106), MIC: c5506c5b)
0:01:37.401099	LOG	PULL_RESP: Protocol version = 02, Token = 91f4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 191899903, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 36, 'data': 'oAAAAAAP1wcDAAAAYQMAAABhBQLSrYQAwyhd+HB4Sk3FUGxb'}}
0:01:37.402103	LOG	Server ----------> DUT
0:01:37.404885	LOG	TX_ACK: 02 91f4 05 0016c001ff1025bf
0:01:37.823273	LOG	GPS Time updated: 1385122916235
0:01:37.825239	LOG	PULL_DATA: 02 f718 02 0016c001ff1025bf
0:01:37.826874	LOG	PULL_ACK: 02 f718 04
0:01:42.275574	LOG	First uplink received. Open reception window.
0:01:42.381575	LOG	PUSH_ACK: 02 3ec9 01
0:01:42.383580	LOG	GPS Time from gateway: 1385122920688
0:01:42.385233	LOG	PUSH_DATA: Protocol version = 02, Token = 3ec9, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 194899636, 'time': '2023-11-27T12:21:41.688373Z', 'tmms': 1385122920688, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3309, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAfgsCDriGyj7p4A0uzMM='}]}
0:01:42.386306	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b7e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0d2eccc3)
0:01:42.387963	LOG	Server <---------- DUT
0:01:42.389692	LOG	MAC command not received because FPort field is not set to 0 and FOpts field is empty
0:01:42.390755	LOG	Confirmed wrong MAC Command. MAC Command answer received with ACK bit to 0
0:01:42.394127	LOG	MAC command communication completed
0:01:42.397442	LOG	Check ACK bit in next uplink process starts
0:01:42.404140	LOG	Send MAC command block in FOpts and FRMPayload process starts
0:01:47.279582	LOG	First uplink received. Open reception window.
0:01:47.384550	LOG	PUSH_ACK: 02 90ae 01
0:01:47.386547	LOG	GPS Time from gateway: 1385122925688
0:01:47.387547	LOG	PUSH_DATA: Protocol version = 02, Token = 90ae, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 199899382, 'time': '2023-11-27T12:21:46.688117Z', 'tmms': 1385122925688, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3316, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAfwsCOT+2EEXrdwqi/L8='}]}
0:01:47.389543	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b7f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0aa2fcbf)
0:01:47.390551	LOG	Server <---------- DUT
0:01:47.392548	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 0f, FCnt: 07d8, FOpts: 03000000610300000610502d2ad84), FPort: 00, FRMPayload: 0350000061080106), MIC: 34d86a12)
0:01:47.393548	LOG	PULL_RESP: Protocol version = 02, Token = 681a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 201899382, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 36, 'data': 'oAAAAAAP2AcDAAAAYQMAAABhBQLSrYQAiGwb5SJ5otE02GoS'}}
0:01:47.395516	LOG	Server ----------> DUT

0:01:47.398516	LOG	TX_ACK: 02 681a 05 0016c001ff1025bf
0:01:48.023928	LOG	GPS Time updated: 1385122926431
0:01:48.024928	LOG	PULL_DATA: 02 5500 02 0016c001ff1025bf
0:01:48.026437	LOG	PULL_ACK: 02 5500 04
0:01:52.281451	LOG	First uplink received. Open reception window.
0:01:52.396842	LOG	PUSH_ACK: 02 6be4 01
0:01:52.398968	LOG	GPS Time from gateway: 1385122930687
0:01:52.400006	LOG	PUSH_DATA: Protocol version = 02, Token = 6be4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 204899121, 'time': '2023-11-27T12:21:51.687857Z', 'tmms': 1385122930687, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3316, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAgAsCbv1lDOcJWpSaDVk='}]}
0:01:52.401007	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b80, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 949a0d59)
0:01:52.402007	LOG	Server <---------- DUT
0:01:52.404038	LOG	MAC command not received because FPort field is not set to 0 and FOpts field is empty
0:01:52.405008	LOG	Confirmed wrong MAC Command. MAC Command answer received with ACK bit to 0
0:01:52.408009	LOG	MAC command communication completed
0:01:52.412006	LOG	Step 03
0:01:52.415307	LOG	Check ACK bit in next uplink process starts
0:01:52.419350	LOG	End Test Step: MAC Commands in App-Payload (FRMPayload) and FOpts
0:01:52.423350	LOG	Partial Verdict: PASS
0:01:52.426349	LOG	==========
0:01:52.430982	LOG	==========
0:01:52.433984	LOG	Start Test Step: Incorrect MAC Commands
0:01:52.445832	LOG	Step 01
0:01:52.448869	LOG	Send LinkADRReq process starts
0:01:57.277091	LOG	#**********CURRENT BEACON SENT**********#
0:01:57.278090	LOG	PULL_RESP: Protocol version = 02, Token = d10b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385122944000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACATI9S5cQAAAAAAAAAAA='}}
0:01:57.280092	LOG	Server ----------> DUT
0:01:57.281125	LOG	#**********#
0:01:57.291164	LOG	#**********NEXT BEACON QUEUED**********#
0:01:57.292166	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385123072000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAATY9S7S4AAAAAAAAAAA='}}
0:01:57.294163	LOG	Server ----------> DUT
0:01:57.295163	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 004d8f52, CRC1: ed2e, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385123072000
0:01:57.296166	LOG	#**********#
0:01:57.298167	LOG	Next BEACON scheduled at GPS time (ms): 1385123200000
0:01:57.300170	LOG	First uplink received. Open reception window.
0:01:57.301166	LOG	TX_ACK: 02 d10b 05 0016c001ff1025bf
0:01:57.404812	LOG	PUSH_ACK: 02 5e6a 01
0:01:57.406780	LOG	GPS Time from gateway: 1385122935687

0:01:57.407780	LOG	PUSH_DATA: Protocol version = 02, Token = 5e6a, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 209898854, 'time': '2023-11-27T12:21:56.687589Z', 'tmms': 1385122935687, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3313, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAgQsCaYOufYzagdZVKUo='}]}
0:01:57.409780	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b81, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: d655294a)
0:01:57.410780	LOG	Server <---------- DUT
0:01:57.412780	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07d9, FOpts:), FPort: 00, FRMPayload: 03c0000000), MIC: 8d65c2b0)
0:01:57.414780	LOG	PULL_RESP: Protocol version = 02, Token = db81, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 211898854, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAA2QcAxFuLB+2NZcKw'}}
0:01:57.415786	LOG	Server ----------> DUT
0:01:57.419615	LOG	TX_ACK: 02 db81 05 0016c001ff1025bf
0:01:58.043814	LOG	GPS Time updated: 1385122936428
0:01:58.044814	LOG	PULL_DATA: 02 3068 02 0016c001ff1025bf
0:01:58.046814	LOG	PULL_ACK: 02 3068 04
0:02:02.282593	LOG	First uplink received. Open reception window.
0:02:02.384444	LOG	PUSH_ACK: 02 13df 01
0:02:02.386412	LOG	GPS Time from gateway: 1385122940687
0:02:02.387411	LOG	PUSH_DATA: Protocol version = 02, Token = 13df, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 214898707, 'time': '2023-11-27T12:22:01.687441Z', 'tmms': 1385122940687, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3316, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCggsDBAJ9qnNG7ejs64fGKw=='}]}
0:02:02.389411	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b82, FOpts: 0304), FPort: 02, FRMPayload: 00000001020000, MIC: eb87c62b)
0:02:02.390411	LOG	Server <---------- DUT
0:02:02.392411	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:02.393411	LOG	Command Answer: 0304
0:02:02.398412	LOG	MAC command communication completed
0:02:02.402303	LOG	Answer received from DUT: 04
0:02:02.407306	LOG	Step 02
0:02:02.412302	LOG	Send LinkADRReq process starts
0:02:07.282348	LOG	First uplink received. Open reception window.
0:02:07.396381	LOG	PUSH_ACK: 02 263f 01
0:02:07.398350	LOG	GPS Time from gateway: 1385122945687
0:02:07.399861	LOG	PUSH_DATA: Protocol version = 02, Token = 263f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 219898343, 'time': '2023-11-27T12:22:06.687076Z', 'tmms': 1385122945687, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3316, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAgwsCkiC5hGHM9b6InRE='}]}
0:02:07.400857	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b83, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: be889d11)
0:02:07.401858	LOG	Server <---------- DUT
0:02:07.403858	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07da, FOpts:), FPort: 00, FRMPayload: 03010000), MIC: be63f68d)
0:02:07.405858	LOG	PULL_RESP: Protocol version = 02, Token = ceae, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 221898343, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YAAAAAAA2gcAULf8Sr5j9o0='}}
0:02:07.406858	LOG	Server ----------> DUT
0:02:07.409806	LOG	TX_ACK: 02 ceae 05 0016c001ff1025bf

0:02:08.243533	LOG	GPS Time updated: 1385122946648
0:02:08.245107	LOG	PULL_DATA: 02 70c5 02 0016c001ff1025bf
0:02:08.247113	LOG	PULL_ACK: 02 70c5 04
0:02:12.273487	LOG	First uplink received. Open reception window.
0:02:12.379056	LOG	PUSH_ACK: 02 baa1 01
0:02:12.381024	LOG	GPS Time from gateway: 1385122950686
0:02:12.383033	LOG	PUSH_DATA: Protocol version = 02, Token = baa1, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 224898090, 'time': '2023-11-27T12:22:11.686822Z', 'tmms': 1385122950686, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3316, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAhAsCqJ2yHturHe3k6CI='}]}
0:02:12.384038	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b84, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ede4e822)
0:02:12.386038	LOG	Server <---------- DUT
0:02:12.387038	LOG	MAC command not received because FPort field is not set to 0 and FOpts field is empty
0:02:12.389046	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07db, FOpts:), FPort: 00, FRMPayload: 03010000), MIC: bce835a0)
0:02:12.391040	LOG	PULL_RESP: Protocol version = 02, Token = 307e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 226898090, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YAAAAAAA2wcA2lp5GbzoNaA='}}
0:02:12.392037	LOG	Server ----------> DUT
0:02:12.395194	LOG	TX_ACK: 02 307e 05 0016c001ff1025bf
0:02:17.274412	LOG	First uplink received. Open reception window.
0:02:17.389409	LOG	PUSH_ACK: 02 8432 01
0:02:17.391410	LOG	GPS Time from gateway: 1385122955686
0:02:17.392411	LOG	PUSH_DATA: Protocol version = 02, Token = 8432, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 229897830, 'time': '2023-11-27T12:22:16.686561Z', 'tmms': 1385122955686, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3316, 'rssi': -52, 'size': 20, 'data': 'QAAAAACAhQsCCV30BcL8knABNmA='}]}
0:02:17.394412	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b85, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 70013660)
0:02:17.395412	LOG	Server <---------- DUT
0:02:17.397410	LOG	MAC command not received because FPort field is not set to 0 and FOpts field is empty
0:02:17.399469	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07dc, FOpts:), FPort: 00, FRMPayload: 03010000), MIC: bcf92c94)
0:02:17.401469	LOG	PULL_RESP: Protocol version = 02, Token = 35b7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 231897830, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YAAAAAAA3AcADq0Gsbz5LJQ='}}
0:02:17.402469	LOG	Server ----------> DUT
0:02:17.406471	LOG	TX_ACK: 02 35b7 05 0016c001ff1025bf
0:02:18.453509	LOG	GPS Time updated: 1385122956865
0:02:18.454510	LOG	PULL_DATA: 02 cbd3 02 0016c001ff1025bf
0:02:18.456933	LOG	PULL_ACK: 02 cbd3 04
0:02:22.274433	LOG	First uplink received. Open reception window.
0:02:22.382373	LOG	PUSH_ACK: 02 bbc2 01
0:02:22.384345	LOG	GPS Time from gateway: 1385122960686
0:02:22.385346	LOG	PUSH_DATA: Protocol version = 02, Token = bbc2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 234897566, 'time': '2023-11-27T12:22:21.686296Z', 'tmms': 1385122960686, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3320, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAhgsCZnDSMpN6sOn/XPg='}]}

0:02:22.387352	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b86, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e9ff5cf8)
0:02:22.388352	LOG	Server <---------- DUT
0:02:22.390386	LOG	MAC command not received because FPort field is not set to 0 and FOpts field is empty
0:02:22.396386	LOG	Step 03
0:02:22.400499	LOG	Send Unknown command process starts
0:02:27.275483	LOG	First uplink received. Open reception window.
0:02:27.380117	LOG	PUSH_ACK: 02 eb23 01
0:02:27.382084	LOG	GPS Time from gateway: 1385122965685
0:02:27.383084	LOG	PUSH_DATA: Protocol version = 02, Token = eb23, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 239897303, 'time': '2023-11-27T12:22:26.686031Z', 'tmms': 1385122965685, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3320, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAhwsCYTkHCo8ILGbTHw8='}]}
0:02:27.384089	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b87, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 66d31f0f)
0:02:27.386122	LOG	Server <---------- DUT
0:02:27.388089	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07dd, FOpts:), FPort: 00, FRMPayload: 7f), MIC: ed2c3b57)
0:02:27.390092	LOG	PULL_RESP: Protocol version = 02, Token = f2a3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 241897303, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YAAAAAAA3QcAZu0sO1c='}}
0:02:27.391091	LOG	Server ----------> DUT
0:02:27.395090	LOG	TX_ACK: 02 f2a3 05 0016c001ff1025bf
0:02:28.652859	LOG	GPS Time updated: 1385122967063
0:02:28.654826	LOG	PULL_DATA: 02 2e2a 02 0016c001ff1025bf
0:02:28.655826	LOG	PULL_ACK: 02 2e2a 04
0:02:32.281736	LOG	First uplink received. Open reception window.
0:02:32.395121	LOG	PUSH_ACK: 02 ecbe 01
0:02:32.397089	LOG	GPS Time from gateway: 1385122970685
0:02:32.398595	LOG	PUSH_DATA: Protocol version = 02, Token = ecbe, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 244897051, 'time': '2023-11-27T12:22:31.685780Z', 'tmms': 1385122970685, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3316, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAiAsCzUI+O66gdMIt7Sk='}]}
0:02:32.399601	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b88, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c22ded29)
0:02:32.401601	LOG	Server <---------- DUT
0:02:32.402602	LOG	MAC command not received because FPort field is not set to 0 and FOpts field is empty
0:02:32.409602	LOG	Step 04
0:02:32.413602	LOG	Send MAC command block process starts
0:02:37.277072	LOG	First uplink received. Open reception window.
0:02:37.387313	LOG	PUSH_ACK: 02 d841 01
0:02:37.389314	LOG	GPS Time from gateway: 1385122975685
0:02:37.390315	LOG	PUSH_DATA: Protocol version = 02, Token = d841, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 249896792, 'time': '2023-11-27T12:22:36.685520Z', 'tmms': 1385122975685, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.2, 'foff': -3316, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAiQsCku8WckxJ22UI9K0='}]}
0:02:37.391319	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b89, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 6508f4ad)
0:02:37.393353	LOG	Server <---------- DUT

0:02:37.395335	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07de, FOpts:), FPort: 00, FRMPayload: 0603010000), MIC: 1c24fd83)
0:02:37.397365	LOG	PULL_RESP: Protocol version = 02, Token = c625, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 251896792, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAA3gcAl6mhdP0cJP2D'}}
0:02:37.398357	LOG	Server ----------> DUT
0:02:37.400440	LOG	TX_ACK: 02 c625 05 0016c001ff1025bf
0:02:38.863273	LOG	GPS Time updated: 1385122977271
0:02:38.864273	LOG	PULL_DATA: 02 bf43 02 0016c001ff1025bf
0:02:38.866274	LOG	PULL_ACK: 02 bf43 04
0:02:42.276848	LOG	First uplink received. Open reception window.
0:02:42.386488	LOG	PUSH_ACK: 02 ad56 01
0:02:42.388495	LOG	GPS Time from gateway: 1385122980690
0:02:42.389489	LOG	PUSH_DATA: Protocol version = 02, Token = ad56, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 254901755, 'time': '2023-11-27T12:22:41.690482Z', 'tmms': 1385122980690, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3316, 'rssi': -51, 'size': 23, 'data': 'QAAAAACDigsGAAcC9yfL8CPP75lismw='}]}
0:02:42.391494	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 83, FCnt: 0b8a, FOpts: 060007), FPort: 02, FRMPayload: 00000001020000, MIC: 9962b26c)
0:02:42.392494	LOG	Server <---------- DUT
0:02:42.394495	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:42.395494	LOG	Command Answer: 060007
0:02:42.433505	LOG	MAC command communication completed
0:02:42.438560	LOG	Step 05-06
0:02:42.442527	LOG	Send MAC command block process starts
0:02:47.274506	LOG	First uplink received. Open reception window.
0:02:47.384764	LOG	PUSH_ACK: 02 85c0 01
0:02:47.385738	LOG	GPS Time from gateway: 1385122985684
0:02:47.388247	LOG	PUSH_DATA: Protocol version = 02, Token = 85c0, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 259896270, 'time': '2023-11-27T12:22:46.684996Z', 'tmms': 1385122985684, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3324, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAiwsC5OAaAU8HlvU0p7A='}]}
0:02:47.389247	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b8b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f534a7b0)
0:02:47.390250	LOG	Server <---------- DUT
0:02:47.392247	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07df, FOpts:), FPort: 00, FRMPayload: 03500000617f06), MIC: d79a5b8e)
0:02:47.394247	LOG	PULL_RESP: Protocol version = 02, Token = 0259, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 261896270, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 20, 'data': 'YAAAAAAA3wcAkSfXb4q2wteaW44='}}
0:02:47.396253	LOG	Server ----------> DUT
0:02:47.400896	LOG	TX_ACK: 02 0259 05 0016c001ff1025bf
0:02:49.073410	LOG	GPS Time updated: 1385122987482
0:02:49.074409	LOG	PULL_DATA: 02 35ab 02 0016c001ff1025bf
0:02:49.076437	LOG	PULL_ACK: 02 35ab 04
0:02:52.274163	LOG	First uplink received. Open reception window.
0:02:52.382679	LOG	PUSH_ACK: 02 00a6 01
0:02:52.384679	LOG	GPS Time from gateway: 1385122990684
0:02:52.385648	LOG	PUSH_DATA: Protocol version = 02, Token = 00a6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 264896107, 'time': '2023-11-27T12:22:51.684832Z', 'tmms': 1385122990684, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3316, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCjAsDBwJ1Bc3H6QcGTDe34g==']}
0:02:52.387681	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0b8c, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: 4c37b7e2)
0:02:52.388680	LOG	Server <---------- DUT
0:02:52.390704	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:52.392217	LOG	Command Answer: 0307
0:02:52.433929	LOG	MAC command communication completed
0:02:52.438963	LOG	Step 07
0:02:52.442930	LOG	Receive frame on specific channels process starts
0:02:52.453000	LOG	Attempt 1/15
0:02:57.272306	LOG	First uplink received. Open reception window.
0:02:57.373671	LOG	PUSH_ACK: 02 7036 01
0:02:57.375673	LOG	GPS Time from gateway: 1385122995684
0:02:57.376673	LOG	PUSH_DATA: Protocol version = 02, Token = 7036, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 269895758, 'time': '2023-11-27T12:22:56.684482Z', 'tmms': 1385122995684, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3320, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAjQsCtDByOYZuHgox2X0='}]}
0:02:57.378707	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b8d, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 0a31d97d)
0:02:57.379708	LOG	Server <---------- DUT
0:02:57.381681	LOG	Attempt 2/15
0:02:59.162458	LOG	GPS Time updated: 1385122997574
0:02:59.164456	LOG	PULL_DATA: 02 312a 02 0016c001ff1025bf
0:02:59.166449	LOG	PULL_ACK: 02 312a 04
0:03:02.276757	LOG	First uplink received. Open reception window.
0:03:02.388300	LOG	PUSH_ACK: 02 d7b5 01
0:03:02.390307	LOG	GPS Time from gateway: 1385123000684
0:03:02.391269	LOG	PUSH_DATA: Protocol version = 02, Token = d7b5, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 274895500, 'time': '2023-11-27T12:23:01.684222Z', 'tmms': 1385123000684, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.0, 'foff': -3324, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAjgsCpGynwIpbc+J6pLI='}]}
0:03:02.393304	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b8e, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e27aa4b2)
0:03:02.394301	LOG	Server <---------- DUT
0:03:02.396296	LOG	Attempt 3/15
0:03:07.271392	LOG	First uplink received. Open reception window.
0:03:07.375940	LOG	PUSH_ACK: 02 5ca3 01
0:03:07.377906	LOG	GPS Time from gateway: 1385123005683
0:03:07.378944	LOG	PUSH_DATA: Protocol version = 02, Token = 5ca3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 279895230, 'time': '2023-11-27T12:23:06.683953Z', 'tmms': 1385123005683, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3324, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAjwsCUSFdE/OKLDXU0IE='}]}
0:03:07.380934	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b8f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 35d4d081)
0:03:07.381953	LOG	Server <---------- DUT
0:03:07.383944	LOG	Attempt 4/15
0:03:09.242763	LOG	GPS Time updated: 1385123007654
0:03:09.244772	LOG	PULL_DATA: 02 8817 02 0016c001ff1025bf
0:03:09.245768	LOG	PULL_ACK: 02 8817 04
0:03:12.275721	LOG	First uplink received. Open reception window.
0:03:12.392279	LOG	PUSH_ACK: 02 3b93 01

0:03:12.394248	LOG	GPS Time from gateway: 1385123010683
0:03:12.395246	LOG	PUSH_DATA: Protocol version = 02, Token = 3b93, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 284894973, 'time': '2023-11-27T12:23:11.683695Z', 'tmms': 1385123010683, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.8, 'foff': -3324, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAkAsCyozKW++rtpoXsq8='}]}
0:03:12.396285	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b90, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9a17b2af)
0:03:12.397253	LOG	Server <---------- DUT
0:03:12.399764	LOG	Attempt 5/15
0:03:17.270262	LOG	First uplink received. Open reception window.
0:03:17.373933	LOG	PUSH_ACK: 02 9e27 01
0:03:17.375904	LOG	GPS Time from gateway: 1385123015683
0:03:17.376933	LOG	PUSH_DATA: Protocol version = 02, Token = 9e27, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 289894718, 'time': '2023-11-27T12:23:16.683439Z', 'tmms': 1385123015683, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.8, 'foff': -3324, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAkQsCws0TGqRitXVtUFo='}]}
0:03:17.377934	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b91, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 756d505a)
0:03:17.379942	LOG	Server <---------- DUT
0:03:17.380940	LOG	Attempt 6/15
0:03:19.323026	LOG	GPS Time updated: 1385123017737
0:03:19.324023	LOG	PULL_DATA: 02 5276 02 0016c001ff1025bf
0:03:19.325992	LOG	PULL_ACK: 02 5276 04
0:03:22.269005	LOG	First uplink received. Open reception window.
0:03:22.381729	LOG	PUSH_ACK: 02 6911 01
0:03:22.383753	LOG	GPS Time from gateway: 1385123020683
0:03:22.384767	LOG	PUSH_DATA: Protocol version = 02, Token = 6911, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 294894454, 'time': '2023-11-27T12:23:21.683174Z', 'tmms': 1385123020683, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3324, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAkgsCdTilE+tNPyMpKOQ='}]}
0:03:22.385767	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b92, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 232928e4)
0:03:22.387735	LOG	Server <---------- DUT
0:03:22.388767	LOG	Attempt 7/15
0:03:27.275842	LOG	First uplink received. Open reception window.
0:03:27.388570	LOG	PUSH_ACK: 02 ba8f 01
0:03:27.390571	LOG	GPS Time from gateway: 1385123025682
0:03:27.391570	LOG	PUSH_DATA: Protocol version = 02, Token = ba8f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 299894192, 'time': '2023-11-27T12:23:26.682911Z', 'tmms': 1385123025682, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3324, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAkwsC8QFe4joS0CzkFJo='}]}
0:03:27.392574	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b93, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 2ce4149a)
0:03:27.394588	LOG	Server <---------- DUT
0:03:27.395577	LOG	Attempt 8/15
0:03:29.402266	LOG	GPS Time updated: 1385123027809
0:03:29.404298	LOG	PULL_DATA: 02 2e67 02 0016c001ff1025bf
0:03:29.405268	LOG	PULL_ACK: 02 2e67 04
0:03:32.277037	LOG	First uplink received. Open reception window.
0:03:32.381868	LOG	PUSH_ACK: 02 e5b3 01
0:03:32.383841	LOG	GPS Time from gateway: 1385123030682

0:03:32.384840	LOG	PUSH_DATA: Protocol version = 02, Token = e5b3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 304893934, 'time': '2023-11-27T12:23:31.682652Z', 'tmms': 1385123030682, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3328, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAlAsC525xd+9f0vbsCJo='}]}
0:03:32.386845	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b94, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: f6ec089a)
0:03:32.387844	LOG	Server <---------- DUT
0:03:32.389845	LOG	Attempt 9/15
0:03:37.272600	LOG	First uplink received. Open reception window.
0:03:37.378239	LOG	PUSH_ACK: 02 281b 01
0:03:37.380240	LOG	GPS Time from gateway: 1385123035682
0:03:37.381240	LOG	PUSH_DATA: Protocol version = 02, Token = 281b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 309893673, 'time': '2023-11-27T12:23:36.682390Z', 'tmms': 1385123035682, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3328, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAlQsCfpJ2uSid8ubl8pw='}]}
0:03:37.382240	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b95, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: e6e5f29c)
0:03:37.384246	LOG	Server <---------- DUT
0:03:37.385246	LOG	Attempt 10/15
0:03:39.492798	LOG	GPS Time updated: 1385123037903
0:03:39.493802	LOG	PULL_DATA: 02 5e28 02 0016c001ff1025bf
0:03:39.495805	LOG	PULL_ACK: 02 5e28 04
0:03:42.276776	LOG	First uplink received. Open reception window.
0:03:42.382564	LOG	PUSH_ACK: 02 5ef2 01
0:03:42.384536	LOG	GPS Time from gateway: 1385123040682
0:03:42.385535	LOG	PUSH_DATA: Protocol version = 02, Token = 5ef2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 314893413, 'time': '2023-11-27T12:23:41.682128Z', 'tmms': 1385123040682, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3331, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAlgsCs537QNCBCBvlILE='}]}
0:03:42.386539	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b96, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 1be520b1)
0:03:42.388540	LOG	Server <---------- DUT
0:03:42.389556	LOG	Attempt 11/15
0:03:47.274678	LOG	First uplink received. Open reception window.
0:03:47.379202	LOG	PUSH_ACK: 02 f835 01
0:03:47.381173	LOG	GPS Time from gateway: 1385123045681
0:03:47.382170	LOG	PUSH_DATA: Protocol version = 02, Token = f835, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 319893154, 'time': '2023-11-27T12:23:46.681870Z', 'tmms': 1385123045681, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3331, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAlwsCRKdpvqKKLsYzZRg='}]}
0:03:47.383204	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b97, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c6336518)
0:03:47.385209	LOG	Server <---------- DUT
0:03:47.387231	LOG	Attempt 12/15
0:03:49.572653	LOG	GPS Time updated: 1385123047979
0:03:49.573653	LOG	PULL_DATA: 02 a854 02 0016c001ff1025bf
0:03:49.575622	LOG	PULL_ACK: 02 a854 04
0:03:52.272153	LOG	First uplink received. Open reception window.
0:03:52.387319	LOG	PUSH_ACK: 02 d830 01
0:03:52.389287	LOG	GPS Time from gateway: 1385123050681
0:03:52.390286	LOG	PUSH_DATA: Protocol version = 02, Token = d830, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 324892897, 'time': '2023-11-27T12:23:51.681612Z',

		'tmms': 1385123050681, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.5, 'foff': -3324, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAmAsC9CLNS06kOdvT5OI='}]}
0:03:52.391291	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b98, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: dbd3e4e2)
0:03:52.393292	LOG	Server <---------- DUT
0:03:52.394291	LOG	Attempt 13/15
0:03:57.270101	LOG	First uplink received. Open reception window.
0:03:57.380903	LOG	PUSH_ACK: 02 6c3e 01
0:03:57.382869	LOG	GPS Time from gateway: 1385123055681
0:03:57.383873	LOG	PUSH_DATA: Protocol version = 02, Token = 6c3e, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 329892637, 'time': '2023-11-27T12:23:56.681351Z', 'tmms': 1385123055681, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3324, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAmQsCdiczQ6AmD8pYkag='}]}
0:03:57.384885	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b99, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: ca5891a8)
0:03:57.386878	LOG	Server <---------- DUT
0:03:57.387881	LOG	Attempt 14/15
0:03:59.652670	LOG	GPS Time updated: 1385123058064
0:03:59.653670	LOG	PULL_DATA: 02 a4a7 02 0016c001ff1025bf
0:03:59.655640	LOG	PULL_ACK: 02 a4a7 04
0:04:02.275462	LOG	First uplink received. Open reception window.
0:04:02.380274	LOG	PUSH_ACK: 02 d142 01
0:04:02.382277	LOG	GPS Time from gateway: 1385123060681
0:04:02.384285	LOG	PUSH_DATA: Protocol version = 02, Token = d142, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 334892386, 'time': '2023-11-27T12:24:01.681099Z', 'tmms': 1385123060681, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3324, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAmgsCDWyPpjO3TsUHnk0='}]}
0:04:02.385316	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b9a, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c5079e4d)
0:04:02.387285	LOG	Server <---------- DUT
0:04:02.389284	LOG	Attempt 15/15
0:04:07.273691	LOG	#**********CURRENT BEACON SENT**********#
0:04:07.275697	LOG	PULL_RESP: Protocol version = 02, Token = 1bc3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmms': 1385123072000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AAAATY9S7S4AAAAAAAAAAA='}}
0:04:07.276730	LOG	Server ----------> DUT
0:04:07.278697	LOG	#**********#
0:04:07.287694	LOG	#**********NEXT BEACON QUEUED**********#
0:04:07.289696	LOG	Next beacon scheduled: JSON = {'txpk': {'imme': False, 'tmms': 1385123200000, 'rfch': 0, 'powe': 14, 'ipol': False, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'prea': 10, 'fdev': 0, 'codr': '4/5', 'ncrc': True, 'nhdr': True, 'size': 17, 'data': 'AACATY9S1fMAAAAAAAAAAA='}}
0:04:07.290700	LOG	Server ----------> DUT
0:04:07.291700	LOG	BEACON queued frame [BCNPayload: BCNPayload: (RFU1: 00, Param: 00, Time: 804d8f52, CRC1: d5f3, GwSpecific: 00000000000000, RFU2: , CRC2: 0000)] at GPS time (ms): 1385123200000
0:04:07.292700	LOG	#**********#
0:04:07.294701	LOG	Next BEACON scheduled at GPS time (ms): 1385123328000

0:04:07.295700	LOG	First uplink received. Open reception window.
0:04:07.297703	LOG	TX_ACK: 02 1bc3 05 0016c001ff1025bf
0:04:07.401532	LOG	PUSH_ACK: 02 ce23 01
0:04:07.403583	LOG	GPS Time from gateway: 1385123065680
0:04:07.405535	LOG	PUSH_DATA: Protocol version = 02, Token = ce23, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 339892124, 'time': '2023-11-27T12:24:06.680836Z', 'tmms': 1385123065680, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3324, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAmwsCEQpDjxMs3/5j87Q='}]}
0:04:07.407535	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b9b, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: fe63f3b4)
0:04:07.408566	LOG	Server <---------- DUT
0:04:07.415537	LOG	Receive frame on specific channels process tested successfully
0:04:07.418539	LOG	End Test Step: Incorrect MAC Commands
0:04:07.422570	LOG	Partial Verdict: PASS
0:04:07.425570	LOG	==========
0:04:07.430075	LOG	==========
0:04:07.433084	LOG	Start Test Step: Restore default settings
0:04:07.444826	LOG	Send RXTimingSetupReq process starts
0:04:09.792416	LOG	GPS Time updated: 1385123068175
0:04:09.793416	LOG	PULL_DATA: 02 b937 02 0016c001ff1025bf
0:04:09.795421	LOG	PULL_ACK: 02 b937 04
0:04:12.265061	LOG	First uplink received. Open reception window.
0:04:12.380413	LOG	PUSH_ACK: 02 c662 01
0:04:12.382446	LOG	GPS Time from gateway: 1385123070680
0:04:12.383446	LOG	PUSH_DATA: Protocol version = 02, Token = c662, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 344891864, 'time': '2023-11-27T12:24:11.680575Z', 'tmms': 1385123070680, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3324, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAnAsCLpAljZMD5YKZ174='}]}
0:04:12.384451	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b9c, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 8299d7be)
0:04:12.386450	LOG	Server <---------- DUT
0:04:12.387451	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07e0, FOpts:), FPort: 00, FRMPayload: 0800), MIC: ec39ab06)
0:04:12.389489	LOG	PULL_RESP: Protocol version = 02, Token = cee9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 346891864, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YAAAAAAA4AcA6hDsOasG'}}
0:04:12.390483	LOG	Server ----------> DUT
0:04:12.393820	LOG	TX_ACK: 02 cee9 05 0016c001ff1025bf
0:04:17.271194	LOG	First uplink received. Open reception window.
0:04:17.387379	LOG	PUSH_ACK: 02 daac 01
0:04:17.389379	LOG	GPS Time from gateway: 1385123075680
0:04:17.390381	LOG	PUSH_DATA: Protocol version = 02, Token = daac, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 349891702, 'time': '2023-11-27T12:24:16.680412Z', 'tmms': 1385123075680, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3328, 'rssi': -51, 'size': 21, 'data': 'QAAAAACBnQsIAqPNdJLSKop5Cvzp'}]}
0:04:17.392385	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 81, FCnt: 0b9d, FOpts: 08), FPort: 02, FRMPayload: 00000001020000, MIC: 790afce9)
0:04:17.393386	LOG	Server <---------- DUT
0:04:17.395420	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:04:17.396386	LOG	Command Answer: 08
0:04:17.408582	LOG	MAC command communication completed

0:04:17.413583	LOG	Send MAC command block process starts
0:04:19.952597	LOG	GPS Time updated: 1385123078360
0:04:19.953629	LOG	PULL_DATA: 02 1502 02 0016c001ff1025bf
0:04:19.955607	LOG	PULL_ACK: 02 1502 04
0:04:22.270375	LOG	First uplink received. Open reception window.
0:04:22.374700	LOG	PUSH_ACK: 02 c773 01
0:04:22.376701	LOG	GPS Time from gateway: 1385123080680
0:04:22.377705	LOG	PUSH_DATA: Protocol version = 02, Token = c773, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 354891437, 'time': '2023-11-27T12:24:21.680145Z', 'tmms': 1385123080680, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.2, 'foff': -3328, 'rssi': -51, 'size': 21, 'data': 'QAAAAACBngsIAgyhyXv0kz1Nty4J'}]}
0:04:22.379702	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 81, FCnt: 0b9e, FOpts: 08), FPort: 02, FRMPayload: 00000001020000, MIC: 4db72e09)
0:04:22.380703	LOG	Server <---------- DUT
0:04:22.382702	LOG	MAC Command RXTimingSetupAns received
0:04:22.384207	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07e1, FOpts:), FPort: , FRMPayload:), MIC: fee8dfb4)
0:04:22.385212	LOG	PULL_RESP: Protocol version = 02, Token = fe11, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 356891437, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 12, 'data': 'YAAAAAAA4Qf+6N+0'}}
0:04:22.387212	LOG	Server ----------> DUT
0:04:22.389213	LOG	TX_ACK: 02 fe11 05 0016c001ff1025bf
0:04:27.266483	LOG	First uplink received. Open reception window.
0:04:27.368605	LOG	PUSH_ACK: 02 2a88 01
0:04:27.370570	LOG	GPS Time from gateway: 1385123085679
0:04:27.371571	LOG	PUSH_DATA: Protocol version = 02, Token = 2a88, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 359891101, 'time': '2023-11-27T12:24:26.679810Z', 'tmms': 1385123085679, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3324, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAnwsCIuAMjLfilk93VPQ='}]}
0:04:27.372571	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0b9f, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4f7754f4)
0:04:27.374577	LOG	Server <---------- DUT
0:04:27.376576	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07e2, FOpts:), FPort: 00, FRMPayload: 03500700010500d2ad84), MIC: 08bebbb2)
0:04:27.378576	LOG	PULL_RESP: Protocol version = 02, Token = 2831, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 361891101, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YAAAAAAA4gcA2AhNVmxfD2QDQAi+u7I='}}
0:04:27.379609	LOG	Server ----------> DUT
0:04:27.383579	LOG	TX_ACK: 02 2831 05 0016c001ff1025bf
0:04:30.112217	LOG	GPS Time updated: 1385123088525
0:04:30.114183	LOG	PULL_DATA: 02 4188 02 0016c001ff1025bf
0:04:30.115216	LOG	PULL_ACK: 02 4188 04
0:04:32.271381	LOG	First uplink received. Open reception window.
0:04:32.386408	LOG	PUSH_ACK: 02 7a39 01
0:04:32.388374	LOG	GPS Time from gateway: 1385123090684
0:04:32.389376	LOG	PUSH_DATA: Protocol version = 02, Token = 7a39, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 364896071, 'time': '2023-11-27T12:24:31.684779Z', 'tmms': 1385123090684, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.5, 'foff': -3328, 'rssi': -51, 'size': 24, 'data': 'QAAAAACEoAsDBwUHAvSEOJ6EsK1CgQe+'}]}

0:04:32.390882	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 84, FCnt: 0ba0, FOpts: 03070507), FPort: 02, FRMPayload: 00000001020000, MIC: 428107be)
0:04:32.391921	LOG	Server <---------- DUT
0:04:32.393912	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:04:32.394920	LOG	Command Answer: 03070507
0:04:32.451883	LOG	MAC command communication completed
0:04:32.463003	LOG	End Test Step: Restore default settings
0:04:32.467005	LOG	Partial Verdict: PASS
0:04:32.472037	LOG	==========
0:04:32.476005	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_020
0:04:32.477010	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_021	
Verdict	PASS	
Date	2023-11-27 13:24:33	
Description		
Technology Version	LCTT v3.11.0_R1 | GUI v2.6.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.3	
Test Specs Version	USv1.5.1/EUv1.6.2/KRv1.2.1/ASv1.1.1/INv1.1.1/ALL_Av1.6/ALL_Cv1.0/ALL_Bv1.0/SCHCv1.1/ALPv1.0	
Project	ref-stack	
Project Creation Date	2023-10-04 09:10:20	
Sample Parameters		
	Conformance	TRUE

Time Stamp (ms)	Event	Summary
0:00:00.009295	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_021
0:00:00.066055	LOG	==========
0:00:00.069022	LOG	Start Test Step: Device activation
0:00:00.152146	LOG	Activation process has finished successfully
0:00:00.154147	LOG	Data stored in the DUT after Activation:
0:00:00.156727	LOG	DevAddr: 00000000
0:00:00.159769	LOG	AppEUI: 0000000000000000
0:00:00.162768	LOG	NwkSKey: 6bfb58c6a233389e6e66450a9e520a70
0:00:00.165734	LOG	AppSKey: ded4e508ab9cede444c3765e0533fcac
0:00:00.170731	LOG	End Test Step: Device activation
0:00:00.174736	LOG	Partial Verdict: PASS
0:00:00.178736	LOG	==========
0:00:00.182735	LOG	==========
0:00:00.184736	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.194866	LOG	DUT Pre-condition activation process starts
0:00:00.197900	LOG	DUT Pre-condition activation completed
0:00:00.200866	LOG	End Test Step: DUT Pre-condition settings
0:00:00.204936	LOG	Partial Verdict: PASS
0:00:00.208936	LOG	==========
0:00:00.213938	LOG	==========
0:00:00.215939	LOG	Start Test Step: Test MAC Command priorization
0:00:00.226058	LOG	Step 01-02
0:00:00.230054	LOG	Send MAC command block process starts
0:00:02.430524	LOG	PUSH_DATA received while waiting first PULL_DATA
0:00:05.365610	LOG	GPS Time updated: 1385123093619
0:00:05.366610	LOG	PULL_DATA: 02 8e96 02 0016c001ff1025bf

0:00:05.368615	LOG	PULL_ACK: 02 8e96 04
0:00:07.430502	LOG	First uplink received. Open reception window.
0:00:07.532550	LOG	PUSH_ACK: 02 d4f7 01
0:00:07.534518	LOG	GPS Time from gateway: 1385123100678
0:00:07.536517	LOG	PUSH_DATA: Protocol version = 02, Token = d4f7, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 374890411, 'time': '2023-11-27T12:24:41.679117Z', 'tmms': 1385123100678, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3324, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCogsFBwJVcJi+B9NaWg3oeg=='}]}
0:00:07.537517	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0ba2, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: 5a0de87a)
0:00:07.538518	LOG	Server <---------- DUT
0:00:07.540517	LOG	MAC Command RXParamSetupAns received
0:00:07.542518	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07e3, FOpts:), FPort: , FRMPayload:), MIC: 2e219b7e)
0:00:07.544693	LOG	PULL_RESP: Protocol version = 02, Token = 791f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 376890411, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 12, 'data': 'YAAAAAAA4wcuIZt+'}}
0:00:07.546224	LOG	Server ----------> DUT
0:00:07.548257	LOG	TX_ACK: 02 791f 05 0016c001ff1025bf
0:00:12.432666	LOG	First uplink received. Open reception window.
0:00:12.535245	LOG	PUSH_ACK: 02 a1a6 01
0:00:12.537249	LOG	GPS Time from gateway: 1385123105678
0:00:12.538251	LOG	PUSH_DATA: Protocol version = 02, Token = a1a6, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 379890046, 'time': '2023-11-27T12:24:46.678751Z', 'tmms': 1385123105678, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3328, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAowsCqZVK1LT8GZ0CLws='}]}
0:00:12.540213	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0ba3, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 9d022f0b)
0:00:12.541213	LOG	Server <---------- DUT
0:00:12.543212	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 06, FCnt: 07e4, FOpts: 060350070001), FPort: e0, FRMPayload: 20), MIC: 1c55b28e)
0:00:12.545213	LOG	PULL_RESP: Protocol version = 02, Token = 48b4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 381890046, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 20, 'data': 'YAAAAAAG5AcGA1AHAAHgXhxVso4='}}
0:00:12.546212	LOG	Server ----------> DUT
0:00:12.548218	LOG	TX_ACK: 02 48b4 05 0016c001ff1025bf
0:00:15.485163	LOG	GPS Time updated: 1385123108731
0:00:15.487033	LOG	PULL_DATA: 02 3a6f 02 0016c001ff1025bf
0:00:15.489130	LOG	PULL_ACK: 02 3a6f 04
0:00:17.431572	LOG	First uplink received. Open reception window.
0:00:17.538656	LOG	PUSH_ACK: 02 c9f3 01
0:00:17.540657	LOG	GPS Time from gateway: 1385123110683
0:00:17.541658	LOG	PUSH_DATA: Protocol version = 02, Token = c9f3, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 384895059, 'time': '2023-11-27T12:24:51.683763Z', 'tmms': 1385123110683, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 13.8, 'foff': -3331, 'rssi': -51, 'size': 26, 'data': 'QAAAAACGpAsGAAYDBwIC/zf3p+4n3/OQEAQ='}]}
0:00:17.543624	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 86, FCnt: 0ba4, FOpts: 060006030702), FPort: 02, FRMPayload: 00000001020000, MIC: f3901004)
0:00:17.544668	LOG	Server <---------- DUT

0:00:17.546625	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:17.547663	LOG	Command Answer: 060006030702
0:00:17.549664	LOG	Sending LinkCheckAns to DUT: 023301
0:00:17.550662	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07e5, FOpts:), FPort: 00, FRMPayload: 023301), MIC: 363c00a9)
0:00:17.552663	LOG	PULL_RESP: Protocol version = 02, Token = c6f2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 386895059, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 16, 'data': 'YAAAAAAA5QcAtXTwNjwAqQ==’}}
0:00:17.554662	LOG	Server ----------> DUT
0:00:17.591988	LOG	MAC command communication completed
0:00:17.595497	LOG	End Test Step: Test MAC Command priorization
0:00:17.599531	LOG	Partial Verdict: PASS
0:00:17.603528	LOG	==========
0:00:17.608497	LOG	==========
0:00:17.610502	LOG	Start Test Step: Test MAC Command payload truncation
0:00:17.620503	LOG	Step 03-04
0:00:17.624007	LOG	Send LinkADRReq process starts
0:00:22.430550	LOG	First uplink received. Open reception window.
0:00:22.545217	LOG	PUSH_ACK: 02 a7fe 01
0:00:22.547189	LOG	GPS Time from gateway: 1385123115678
0:00:22.548188	LOG	PUSH_DATA: Protocol version = 02, Token = a7fe, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 389889544, 'time': '2023-11-27T12:24:56.678246Z', 'tmms': 1385123115678, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 14.0, 'foff': -3332, 'rssi': -51, 'size': 20, 'data': 'QAAAAACApQsCyUQTdsl9968vQf8='}]}
0:00:22.550196	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0ba5, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: af2f41ff)
0:00:22.551192	LOG	Server <---------- DUT
0:00:22.553193	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07e6, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: 7308d598)
0:00:22.554192	LOG	PULL_RESP: Protocol version = 02, Token = 21ab, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 391889544, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YAAAAAAA5gcA0zD/VUtzCNWY'}}
0:00:22.556193	LOG	Server ----------> DUT
0:00:22.558705	LOG	TX_ACK: 02 21ab 05 0016c001ff1025bf
0:00:25.495030	LOG	GPS Time updated: 1385123118743
0:00:25.497179	LOG	PULL_DATA: 02 666d 02 0016c001ff1025bf
0:00:25.499236	LOG	PULL_ACK: 02 666d 04
0:00:27.425159	LOG	First uplink received. Open reception window.
0:00:27.536813	LOG	PUSH_ACK: 02 6040 01
0:00:27.538815	LOG	GPS Time from gateway: 1385123120677
0:00:27.539815	LOG	PUSH_DATA: Protocol version = 02, Token = 6040, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 394889372, 'time': '2023-11-27T12:25:01.678075Z', 'tmms': 1385123120677, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.2, 'foff': -3332, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCpgsDBwI7dd40LLbL6G9FVg==’}]}
0:00:27.541816	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0ba6, FOpts: 0307), FPort: 02, FRMPayload: 00000001020000, MIC: e86f4556)
0:00:27.542816	LOG	Server <---------- DUT
0:00:27.544845	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:27.545849	LOG	Command Answer: 0307
0:00:27.552854	LOG	MAC command communication completed

0:00:27.557852	LOG	Send MAC command block process starts
0:00:32.425472	LOG	First uplink received. Open reception window.
0:00:32.534565	LOG	PUSH_ACK: 02 1976 01
0:00:32.536569	LOG	GPS Time from gateway: 1385123125677
0:00:32.537565	LOG	PUSH_DATA: Protocol version = 02, Token = 1976, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 399889016, 'time': '2023-11-27T12:25:06.677718Z', 'tmms': 1385123125677, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 13.5, 'foff': -3328, 'rssi': -51, 'size': 20, 'data': 'QAAAAACApwsCdm9B8JB7vcWfmDo='}]}
0:00:32.538566	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0ba7, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: c59f983a)
0:00:32.540568	LOG	Server <---------- DUT
0:00:32.542567	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07e7, FOpts:), FPort: 00, FRMPayload: 060500d2ad84060606060606060606060606060606060300070001), MIC: 61f21ad3)
0:00:32.544532	LOG	PULL_RESP: Protocol version = 02, Token = 133a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 401889016, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 39, 'data': 'YAAAAAAA5wcA1iJ8j40tqQ61FYLUNvnuJqj3WWbYHva6lGJh8hrT'}}
0:00:32.545532	LOG	Server ----------> DUT
0:00:32.547597	LOG	TX_ACK: 02 133a 05 0016c001ff1025bf
0:00:35.694344	LOG	GPS Time updated: 1385123128946
0:00:35.696344	LOG	PULL_DATA: 02 43e0 02 0016c001ff1025bf
0:00:35.698348	LOG	PULL_ACK: 02 43e0 04
0:00:40.183144	LOG	First uplink received. Open reception window.
0:00:40.286607	LOG	PUSH_ACK: 02 682b 01
0:00:40.288605	LOG	GPS Time from gateway: 1385123133415
0:00:40.289605	LOG	PUSH_DATA: Protocol version = 02, Token = 682b, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 407626448, 'time': '2023-11-27T12:25:14.415147Z', 'tmms': 1385123133415, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 9.0, 'foff': -3335, 'rssi': -51, 'size': 63, 'data': 'QAAAAACAqAsApcN1CThSnYYm1/W9q5JmmbE5K/w2fGgcKtBPIq/DQ87iBnMCVBE1qUlbvEDRFzCpodS+AY2H'}]}
0:00:40.290606	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0ba8, FOpts:), FPort: 00, FRMPayload: 060006050706000606000606000606000606000606000606000606000606000606000606000606000606000606000606000606000606, MIC: be018d87)
0:00:40.292606	LOG	Server <---------- DUT
0:00:40.294607	LOG	Command Answer: 060006050706000606000606000606000606000606000606000606000606000606000606000606000606000606000606000606000606
0:00:40.410459	LOG	MAC command communication completed
0:00:40.412459	LOG	Check previous uplink data rate process starts
0:00:40.417460	LOG	Uplink received with expected Data Rate
0:00:40.419458	LOG	End Test Step: Test MAC Command payload truncation
0:00:40.423462	LOG	Partial Verdict: PASS
0:00:40.427463	LOG	==========
0:00:40.432462	LOG	==========
0:00:40.434462	LOG	Start Test Step: Test MAC Command payload without truncation
0:00:40.445737	LOG	Step 05-06
0:00:40.450701	LOG	Send MAC command block process starts
0:00:45.784895	LOG	GPS Time updated: 1385123139016
0:00:45.785895	LOG	PULL_DATA: 02 f6e3 02 0016c001ff1025bf
0:00:45.787902	LOG	PULL_ACK: 02 f6e3 04

0:00:48.869511	LOG	Multiple frames received. Selecting the correct frame...
0:00:48.870543	LOG	Frame selected: {'jver': 1, 'tmst': 416314269, 'time': '2023-11-27T12:25:23.102967Z', 'tmms': 1385123142102, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.8, 'foff': -3318, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCqQsFBwI9QDtGAVxXwG7emg=='}
0:00:48.872513	LOG	First uplink received. Open reception window.
0:00:48.982893	LOG	PUSH_ACK: 02 64b4 01
0:00:48.984865	LOG	GPS Time from gateway: 1385123142102
0:00:48.985865	LOG	PUSH_DATA: Protocol version = 02, Token = 64b4, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 416314269, 'time': '2023-11-27T12:25:23.102967Z', 'tmms': 1385123142102, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 10.8, 'foff': -3318, 'rssi': -51, 'size': 22, 'data': 'QAAAAACCqQsFBwI9QDtGAVxXwG7emg=='}, {'jver': 1, 'tmst': 416314270, 'time': '2023-11-27T12:25:23.102969Z', 'tmms': 1385123142102, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'mid': 5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -125, 'lsnr': -12.5, 'foff': -3317, 'rssi': -114, 'size': 22, 'data': 'QAAAAACCqQsFBwI9QDtGAVxXwG7emg=='}]}
0:00:48.987869	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 82, FCnt: 0ba9, FOpts: 0507), FPort: 02, FRMPayload: 00000001020000, MIC: c06ede9a)
0:00:48.988870	LOG	Server <---------- DUT
0:00:48.990882	LOG	MAC Command RXParamSetupAns received
0:00:48.991869	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07e8, FOpts:), FPort: , FRMPayload:), MIC: 8d9765b2)
0:00:48.993870	LOG	PULL_RESP: Protocol version = 02, Token = d7b9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 418314269, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 12, 'data': 'YAAAAAAA6AeNl2Wy'}}
0:00:48.994869	LOG	Server ----------> DUT
0:00:48.998903	LOG	TX_ACK: 02 d7b9 05 0016c001ff1025bf
0:00:53.709430	LOG	First uplink received. Open reception window.
0:00:53.820357	LOG	PUSH_ACK: 02 05f2 01
0:00:53.822359	LOG	GPS Time from gateway: 1385123146938
0:00:53.823359	LOG	PUSH_DATA: Protocol version = 02, Token = 05f2, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 421150075, 'time': '2023-11-27T12:25:27.938773Z', 'tmms': 1385123146938, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 0, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'rssis': -51, 'lsnr': 8.2, 'foff': -3322, 'rssi': -51, 'size': 20, 'data': 'QAAAAACAqgsCURw4sT9Q8kR4yFU='}]}
0:00:53.825358	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0baa, FOpts:), FPort: 02, FRMPayload: 00000001020000, MIC: 4478c855)
0:00:53.826358	LOG	Server <---------- DUT
0:00:53.828420	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 00, FCnt: 07e9, FOpts:), FPort: 00, FRMPayload: 060500d2ad840606060606060606060606060606060350070001), MIC: 6302bbcf)
0:00:53.830405	LOG	PULL_RESP: Protocol version = 02, Token = 6b3d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 423150075, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 39, 'data': 'YAAAAAAA6QcAOtDFBv17H5bUfKzbWCddH96w0bVlgQ3QkotjArvP'}}
0:00:53.831439	LOG	Server ----------> DUT
0:00:53.834417	LOG	TX_ACK: 02 6b3d 05 0016c001ff1025bf
0:00:55.924967	LOG	GPS Time updated: 1385123149152
0:00:55.925966	LOG	PULL_DATA: 02 4a58 02 0016c001ff1025bf
0:00:55.928021	LOG	PULL_ACK: 02 4a58 04
0:01:02.500313	LOG	First uplink received. Open reception window.
0:01:02.615663	LOG	PUSH_ACK: 02 ec1f 01
0:01:02.617626	LOG	GPS Time from gateway: 1385123155743

0:01:02.618626	LOG	PUSH_DATA: Protocol version = 02, Token = ec1f, Identifier = 00, JSON = {'rxpk': [{'jver': 1, 'tmst': 429955106, 'time': '2023-11-27T12:25:36.743803Z', 'tmms': 1385123155743, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'mid': 8, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'rssis': -52, 'lsnr': 14.5, 'foff': -3324, 'rssi': -51, 'size': 65, 'data': 'QAAAAACAqwsAlUg6iDjOE0IpMiPbl7FxOPw5aFcWk2d7h1qEmsLy4JLCbmi7yCxBMBfWLsNxW0G1MAXBxakby8Q='}]}
0:01:02.620130	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 00000000, FCtrl: 80, FCnt: 0bab, FOpts:), FPort: 00, FRMPayload: 06000505070600050600050600050600050600050600050600050600050600050600050600050600050600050600050600050600050600050307, MIC: a91bcbc4)
0:01:02.621135	LOG	Server <---------- DUT
0:01:02.623136	LOG	Command Answer: 06000505070600050600050600050600050600050600050600050600050600050600050600050600050600050600050600050600050600050307
0:01:02.741564	LOG	MAC command communication completed
0:01:02.744564	LOG	Check previous uplink data rate process starts
0:01:02.749068	LOG	Uplink received with expected Data Rate
0:01:02.751074	LOG	End Test Step: Test MAC Command payload without truncation
0:01:02.756108	LOG	Partial Verdict: PASS
0:01:02.760109	LOG	==========
0:01:02.764108	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_021
0:01:02.765105	LOG	Final Verdict: PASS

Appendix B – ICS

NAME	VALUE
DUT is a Class A Device (All End Devices)	TRUE
DUT is a Class B Device (Beacon Mode)	TRUE
DUT is a Class C Device (Continuously Listening)	TRUE
DUT works in EU 868MHz ISM Band	TRUE
DUT works in EU 443MHz ISM Band	FALSE
DUT works in USA 915MHz ISM Band	FALSE
DUT works in Asia 923MHz ISM Band	FALSE
DUT works in South Korea 920MHz ISM Band	FALSE
DUT supports Over-The-Air Activation (OTAA) mechanism	TRUE
DUT supports Adaptive Data Rate (ADR) feature	TRUE
DUT supports Trigger Join Request command in Test Mode	TRUE
DUT supports DlChannelReq MAC command	FALSE
DUT needs a reset after deactivating Test Mode	FALSE
DUT supports LinkADRReq block	TRUE
DUT implements LoRaWAN v1.0.2rB certification requirements	FALSE
DUT implements LoRaWAN v1.1 certification requirements	FALSE
DUT works in India 865-867 MHz ISM Band	FALSE
DUT supports the Lorawan-1.0.x-join-synch-issues-remedies-v1.0.0	FALSE
DUT implements Data Rate Decay	FALSE
DUT implements LoRaWAN v1.0.4 certification requirements	TRUE
DUT supports uplink re-transmissions for Confirmed frames	FALSE
DUT works in Rusia 864MHz ISM Band	FALSE
DUT works in Australia 915MHz ISM Band	FALSE
DUT permanently enabled Class C	FALSE
DUT works in Asia 923MHz ISM Band Group 1	FALSE
DUT works in Asia 923MHz ISM Band Group 2	FALSE
DUT works in Asia 923MHz ISM Band Group 3	FALSE
DUT works in Asia 923MHz ISM Band Group 4	FALSE
DUT supports SCHC	FALSE
DUT supports FUOTA	TRUE
DUT supports Application Layer Clock Synchronization	TRUE
DUT supports Remote Multicast Setup	TRUE
DUT supports Fragmentation Data Block Transport	TRUE
DUT supports Firmware Management Protocol	TRUE

Appendix C – IXIT

NAME	VALUE
Minimum transmission power	0
Maximum transmission power	14
End-device identifier (DevEUI)	'0000000000000000'O
End-device Address asigned during activation (DevAddr)	'00000000'O
Maximum number of uplinks re-transmission	1
Frame counter size	32
RuleIDx for SCHC messages	22
RuleIDy for SCHC messages	100
RuleIDz for SCHC messages	101
Maximum nomber of ACK Request	8
FPortUp of the DUT for SCHC messages	20
FPortDown of the DUT for SCHC messages	21
Inactivity timer for SCHC messages	43200
Retransmission timer for SCHC messages	30
FPort for Application Layer Clock Synchronization	202
FPort for Fragmented Data Block	201
FPort for Remote Multicast Setup	200
FPort for Firmware Management Protocol	203
New root key for Remote Multicast Setup	'2B7E151628AED2A6ABF7158809CF4F3C'O
Version of fragmentation algorithm used	2
Describe the data block that is going to be transported through the fragmentation session	'01020304'O
Application session key (AppSKey)	'2B7E151628AED2A6ABF7158809CF4F3C'O
Network session key (NwkSKey)	'2B7E151628AED2A6ABF7158809CF4F3C'O
Application key (AppKey)	'2B7E151628AED2A6ABF7158809CF4F3C'O
Application identifier (AppEUI/JoinEUI)	'0000000000000000'O
End-device Address (DevAddr)	'00000000'O

Appendix D – General Parameters

NAME	VALUE
Gateway model	CoreCell
IN865 RECEIVE_DELAY1 (s)	1.0
IN865 RECEIVE_DELAY2 (s)	2.0
IN865 JOIN_ACCEPT_DELAY1 (s)	5.0
IN865 JOIN_ACCEPT_DELAY2 (s)	6.0
IN865 RX2 Receive window DR	SF10BW125
IN865 RX2 Receive window frequency	866.550
Verbosity level for Logs	TRUE
EU868 Beacon DR	SF9BW125
EU868 Beacon default frequency	869.525
EU868 Class B default pingSlot frequency	869.525
AS923 Beacon DR	SF9BW125
AS923 Beacon default frequency	923.4
AS923 Class B default pingSlot frequency	923.4
KR920 RX2 Receive window frequency	921.9
KR920 RX2 Receive window DR	SF12BW125
AS923 RECEIVE_DELAY1 (s)	1.0
AS923 RECEIVE_DELAY2 (s)	2.0
AS923 JOIN_ACCEPT_DELAY1 (s)	5.0
AS923 JOIN_ACCEPT_DELAY2 (s)	6.0
AS923 RX2 Receive window DR	SF10BW125
AS923 RX2 Receive window frequency	923.2
Network Server IP Address	192.168.1.108
Gateway socket port	1780
Default Tx Power (dBm)	14
Default Tx Antenna	0
EU868 RECEIVE_DELAY1 (s)	1.0
EU868 RECEIVE_DELAY2 (s)	2.0
EU868 JOIN_ACCEPT_DELAY1 (s)	5.0
EU868 JOIN_ACCEPT_DELAY2(s)	6.0
EU868 RX2 Receive window frequency	869.525
EU868 RX2 Receive window DR	SF12BW125
US915 RECEIVE_DELAY1 (s)	1.0
US915 RECEIVE_DELAY2 (s)	2.0
US915 JOIN_ACCEPT_DELAY1(s)	5.0
US915 JOIN_ACCEPT_DELAY2(s)	6.0
US915 RX2 Receive window frequency	923.3
Number of supported channels in Gateway	8
RU864 RECEIVE_DELAY1 (s)	1.0
RU864 RECEIVE_DELAY2 (s)	2.0
RU864 JOIN_ACCEPT_DELAY1 (s)	5.0
RU864 JOIN_ACCEPT_DELAY2(s)	6.0
RU864 RX2 Receive window frequency	869.1
RU864 RX2 Receive window DR	SF12BW125
AU915 RECEIVE_DELAY1 (s)	1.0
AU915 RECEIVE_DELAY2 (s)	2.0

AU915 JOIN_ACCEPT_DELAY1(s)	5.0
AU915 JOIN_ACCEPT_DELAY2(s)	6.0
AU915 RX2 Receive window frequency	923.3
AU915 RX2 Receive window DR	SF12BW500
EU868 pingSlot DR	SF9BW125
AS923 pingSlot DR	SF9BW125
US915 Beacon DR	SF12BW500
US915 Beacon default frequency	923.3
US915 Class B default pingSlot frequency	923.3
US915 pingSlot DR	SF12BW500
KR920 Beacon DR	SF9BW125
KR920 Beacon default frequency	923.1
KR920 Class B default pingSlot frequency	923.1
KR920 pingSlot DR	SF9BW125
IN865 Beacon DR	SF8BW125
IN865 Beacon default frequency	866.550
IN865 Class B default pingSlot frequency	866.550
IN865 pingSlot DR	SF8BW125
RU864 Beacon DR	SF9BW125
RU864 Beacon default frequency	869.1
RU864 Class B default pingSlot frequency	868.9
RU864 pingSlot DR	SF9BW125
AU915 Beacon DR	SF12BW500
AU915 Beacon default frequency	923.3
AU915 Class B default pingSlot frequency	923.3
AU915 pingSlot DR	SF12BW500
EU868 Class C Response Timeout	8.0
KR920 Class C Response Timeout	8.0
US915 Class C Response Timeout	8.0
IN865 Class C Response Timeout	8.0
RU864 Class C Response Timeout	8.0
AU915 Class C Response Timeout	8.0
AS923 Class C Response Timeout	8.0
AS923_GROUP2 Beacon DR	SF9BW125
AS923_GROUP2 Beacon default frequency	921.6
AS923_GROUP2 Class B default pingSlot frequency	921.6
AS923_GROUP2 RECEIVE_DELAY1 (s)	1.0
AS923_GROUP2 RECEIVE_DELAY2 (s)	2.0
AS923_GROUP2 JOIN_ACCEPT_DELAY1 (s)	5.0
AS923_GROUP2 JOIN_ACCEPT_DELAY2 (s)	6.0
AS923_GROUP2 RX2 Receive window DR	SF10BW125
AS923_GROUP2 RX2 Receive window frequency	921.4
AS923_GROUP2 pingSlot DR	SF9BW125
AS923_GROUP2 Class C Response Timeout	8.0
AS923_GROUP3 Beacon DR	SF9BW125
AS923_GROUP3 Beacon default frequency	916.8
AS923_GROUP3 Class B default pingSlot frequency	916.8
AS923_GROUP3 RECEIVE_DELAY1 (s)	1.0
AS923_GROUP3 RECEIVE_DELAY2 (s)	2.0
AS923_GROUP3 JOIN_ACCEPT_DELAY1 (s)	5.0
AS923_GROUP3 JOIN_ACCEPT_DELAY2 (s)	6.0
AS923_GROUP3 RX2 Receive window DR	SF10BW125
AS923_GROUP3 RX2 Receive window frequency	916.6
AS923_GROUP3 pingSlot DR	SF9BW125

AS923_GROUP3 Class C Response Timeout	8.0
AS923_GROUP4 Beacon DR	SF9BW125
AS923_GROUP4 Beacon default frequency	917.5
AS923_GROUP4 Class B default pingSlot frequency	917.5
AS923_GROUP4 RECEIVE_DELAY1 (s)	1.0
AS923_GROUP4 RECEIVE_DELAY2 (s)	2.0
AS923_GROUP4 JOIN_ACCEPT_DELAY1 (s)	5.0
AS923_GROUP4 JOIN_ACCEPT_DELAY2 (s)	6.0
AS923_GROUP4 RX2 Receive window DR	SF10BW125
AS923_GROUP4 RX2 Receive window frequency	917.3
AS923_GROUP4 pingSlot DR	SF9BW125
AS923_GROUP4 Class C Response Timeout	8.0
Number of GWs	1
List of IP address of the GWs	192.168.1.117
Gateway supports LR-FHSS	FALSE
Size of the reception window	100
Testing Category	Pre-testing
US915 RX2 Receive window DR	SF12BW500
General Timer	90
KR920 RECEIVE_DELAY1 (s)	1.0
KR920 RECEIVE_DELAY2 (s)	2.0
KR920 JOIN_ACCEPT_DELAY1(s)	5.0
KR920 JOIN_ACCEPT_DELAY2(s)	6.0

Appendix E – Photographs