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**	SAMR34-XPRO	2021-10-17	Yes	**PASS**	
	App ID	CertApp_EU_ABP				
	Sw ver	MLSv2.0.0				
	Hw ver	SAMR34J18B				
TP_A_EU868_ED_MAC_104_BV_001_B	**Device ID**	SAMR34-XPRO	2021-10-17	Yes	**PASS**	
	App ID	CertApp_EU_OTAA				
	Sw ver	MLSv2.0.0				
	Hw ver	SAMR34J18B				
TP_A_EU868_ED_MAC_104_BV_002	**Device ID**	SAMR34-XPRO	2021-10-17	Yes	**PASS**	
	App ID	CertApp_EU_ABP				
	Sw ver	MLSv2.0.0				
	Hw ver	SAMR34J18B				
TP_A_EU868_ED_MAC_104_BV_003	**Device ID**	SAMR34-XPRO	2021-10-17	Yes	**PASS**	
	App ID	CertApp_EU_ABP				
	Sw ver	MLSv2.0.0				
	Hw ver	SAMR34J18B				
TP_A_EU868_ED_MAC_104_BV_004	**Device ID**	SAMR34-XPRO	2021-10-17	Yes	**PASS**	
	App ID	CertApp_EU_ABP				
	Sw ver	MLSv2.0.0				
	Hw ver	SAMR34J18B				
TP_A_EU868_ED_MAC_104_BV_005	**Device ID**	SAMR34-XPRO	2021-10-18	Yes	**PASS**	
	App ID	CertApp_EU_ABP				
	Sw ver	MLSv2.0.0				
	Hw ver	SAMR34J18B				
TP_A_EU868_ED_MAC_104_BV_006	**Device ID**	SAMR34-XPRO	2021-10-18	Yes	**PASS**	
	App ID	CertApp_EU_ABP				
	Sw ver	MLSv2.0.0				
	Hw ver	SAMR34J18B				
TP_A_EU868_ED_MAC_104_BV_007	**Device ID**	SAMR34-XPRO	2021-10-18	Yes	**PASS**	
	App ID	CertApp_EU_ABP				
	Sw ver	MLSv2.0.0				
	Hw ver	SAMR34J18B				
TP_A_EU868_ED_MAC_104_BV_008	**Device ID**	SAMR34-XPRO	2021-10-18	Yes	**PASS**	
	App ID	CertApp_EU_ABP				
	Sw ver	MLSv2.0.0				
	Hw ver	SAMR34J18B				
TP_A_EU868_ED_MAC_104_BV_009	**Device ID**	SAMR34-XPRO	2021-10-18	Yes	**PASS**	
	App ID	CertApp_EU_ABP				
	Sw ver	MLSv2.0.0				

	Hw ver	SAMR34J18B				
TP_A_EU868_ED_MAC_104_BV_010	**Device ID**	SAMR34-XPRO	2021-10-18	Yes	**PASS**	
	App ID	CertApp_EU_ABP				
	Sw ver	MLSv2.0.0				
	Hw ver	SAMR34J18B				
TP_A_EU868_ED_MAC_104_BV_011	**Device ID**	SAMR34-XPRO	2021-10-18	Yes	**PASS**	
	App ID	CertApp_EU_ABP				
	Sw ver	MLSv2.0.0				
	Hw ver	SAMR34J18B				
TP_A_EU868_ED_MAC_104_BV_012_A	**Device ID**	SAMR34-XPRO	2021-10-18	Yes	**PASS**	
	App ID	CertApp_EU_ABP				
	Sw ver	MLSv2.0.0				
	Hw ver	SAMR34J18B				
TP_A_EU868_ED_MAC_104_BV_012_B	**Device ID**	SAMR34-XPRO	2021-10-18	Yes	**PASS**	
	App ID	CertApp_EU_ABP				
	Sw ver	MLSv2.0.0				
	Hw ver	SAMR34J18B				
TP_A_EU868_ED_MAC_104_BV_013	**Device ID**	SAMR34-XPRO	2021-10-18	Yes	**PASS**	
	App ID	CertApp_EU_ABP				
	Sw ver	MLSv2.0.0				
	Hw ver	SAMR34J18B				
TP_A_EU868_ED_MAC_104_BV_014	**Device ID**	SAMR34-XPRO	2021-10-18	Yes	**PASS**	
	App ID	CertApp_EU_ABP				
	Sw ver	MLSv2.0.0				
	Hw ver	SAMR34J18B				
TP_A_EU868_ED_MAC_104_BV_015_A	**Device ID**	SAMR34-XPRO	2021-10-18	No	**PASS**	
	App ID	CertApp_EU_ABP				
	Sw ver	MLSv2.0.0				
	Hw ver	SAMR34J18B				
TP_A_EU868_ED_MAC_104_BV_015_B	**Device ID**	SAMR34-XPRO	2021-10-18	No	**PASS**	
	App ID	CertApp_EU_ABP				
	Sw ver	MLSv2.0.0				
	Hw ver	SAMR34J18B				
TP_A_EU868_ED_MAC_104_BV_016	**Device ID**	SAMR34-XPRO	2021-10-18	Yes	**PASS**	
	App ID	CertApp_EU_ABP				
	Sw ver	MLSv2.0.0				
	Hw ver	SAMR34J18B				
TP_A_EU868_ED_MAC_104_BV_017	**Device ID**	SAMR34-XPRO	2021-10-18	Yes	**PASS**	
	App ID	CertApp_EU_ABP				
	Sw ver	MLSv2.0.0				
	Hw ver	SAMR34J18B				
TP_A_EU868_ED_MAC_104_BV_018	**Device ID**	SAMR34-XPRO	2021-10-18	Yes	**PASS**	
	App ID	CertApp_EU_ABP				
	Sw ver	MLSv2.0.0				
	Hw ver	SAMR34J18B				
TP_A_EU868_ED_MAC_104_BV_019_A	**Device ID**	SAMR34-XPRO	2021-10-18	Yes	**PASS**	
	App ID	CertApp_EU_ABP				
	Sw ver	MLSv2.0.0				
	Hw ver	SAMR34J18B				
TP_A_EU868_ED_MAC_104_BV_019_B	**Device ID**	SAMR34-XPRO	2021-10-18	Yes	**PASS**	
	App ID	CertApp_EU_ABP				
	Sw ver	MLSv2.0.0				

	Hw ver	SAMR34J18B				
TP_A_EU868_ED_MAC_104_BV_020	**Device ID**	SAMR34-XPRO	2021-10-18	Yes	**PASS**	
	App ID	CertApp_EU_ABP				
	Sw ver	MLSv2.0.0				
	Hw ver	SAMR34J18B				
TP_A_EU868_ED_MAC_104_BV_021	**Device ID**	SAMR34-XPRO	2021-10-18	Yes	**PASS**	
	App ID	CertApp_EU_ABP				
	Sw ver	MLSv2.0.0				
	Hw ver	SAMR34J18B				
TP_A_EU868_ED_MAC_104_BV_022	**Device ID**	SAMR34-XPRO	2021-10-18	Yes	**PASS**	
	App ID	CertApp_EU_ABP				
	Sw ver	MLSv2.0.0				
	Hw ver	SAMR34J18B				

Test Case	TP_A_EU868_ED_MAC_104_BV_000	
Verdict	PASS	
Date	2021-10-17 23:03:37	
Comments	Activation Pre-test	
Technology Version	LCTT v3.1.0_D1 | GUI v1.10.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.1	
Test Specs Version	USv1.5.1/EUv1.6/KRv1.2.1/ASv1.1.1/INv1.1.1/ALLv1.1	
Project	MLSv2.0.0	
Project Creation Date	2021-10-17 22:25:22	
Sample	DevID:SAMR34-XPRO | AppID:CertApp_EU_ABP | SW:MLSv2.0.0 | HW:SAMR34J18B	
Parameters	Conformance	TRUE

Time Stamp (ms)	Event	Summary
0:00:00.014684	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_000
0:00:00.050662	LOG	==========
0:00:00.052661	LOG	Start Test Step: Device activation
0:00:00.063654	LOG	Activation By Personalization (ABP) process starts
0:00:00.070650	LOG	Activation process has finished successfully
0:00:00.072650	LOG	Data stored in the DUT after Activation:
0:00:00.076648	LOG	DevAddr: 20202020
0:00:00.079646	LOG	AppEUI: abcdabcdabcdabcd
0:00:00.082646	LOG	NwkSKey: abcdabcdabcdabcdabcdabcdabcdabcd
0:00:00.084645	LOG	AppSKey: 12345678123456781234567812345678
0:00:00.088642	LOG	End Test Step: Device activation
0:00:00.092640	LOG	Partial Verdict: PASS
0:00:00.095636	LOG	==========
0:00:00.100636	LOG	==========
0:00:00.103634	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.117624	LOG	DUT Pre-condition activation process starts
0:00:00.121623	LOG	Check FCntUp after reset process starts
0:00:00.126619	LOG	Check FCntUp after reset process complete
0:00:00.130617	LOG	Check minimum DR after reset (only ABP) process starts
0:00:00.134614	LOG	Check ADR bit process starts
0:03:00.321227	LOG	PULL_DATA: 02 67c6 02 aa555a0000240409
0:03:00.326224	LOG	PULL_ACK: 02 67c6 04
0:03:00.328223	LOG	First PULL_DATA received
0:03:10.403511	LOG	PULL_DATA: 02 6973 02 aa555a0000240409

0:03:10.410508	LOG	PULL_ACK: 02 6973 04
0:03:20.490883	LOG	PULL_DATA: 02 51ff 02 aa555a0000240409
0:03:20.496880	LOG	PULL_ACK: 02 51ff 04
0:03:30.581163	LOG	PULL_DATA: 02 4aec 02 aa555a0000240409
0:03:30.584161	LOG	PULL_ACK: 02 4aec 04
0:03:40.660449	LOG	PULL_DATA: 02 29cd 02 aa555a0000240409
0:03:40.663447	LOG	PULL_ACK: 02 29cd 04
0:03:50.740733	LOG	PULL_DATA: 02 baab 02 aa555a0000240409
0:03:50.742733	LOG	PULL_ACK: 02 baab 04
0:04:00.821019	LOG	PULL_DATA: 02 f2fb 02 aa555a0000240409
0:04:00.826018	LOG	PULL_ACK: 02 f2fb 04
0:04:08.582619	LOG	PUSH_ACK: 02 0002 01
0:04:08.584618	LOG	PUSH_DATA: Protocol version = 02, Token = 0002, Identifier = 00, JSON = {'rxpk': [{'tmst': 71639940, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAAgAB58cHimLU'}]}
0:04:08.585618	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0002, FOpts:), FPort: 01, FRMPayload: 0000, MIC: 078a62d4)
0:04:08.587616	LOG	Server <---------- DUT
0:04:08.589633	LOG	ADR bit in FCtrl field is set
0:04:08.592632	LOG	Check previous uplink data rate process starts
0:04:08.596630	LOG	Uplink received with expected Data Rate
0:04:08.598610	LOG	Check minimum DR after reset (only ABP) process complete
0:04:08.602609	LOG	Send Test Command DutResetReq process starts
0:04:08.605623	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0001, FOpts:), FPort: e0, FRMPayload: 01), MIC: a43baa74)
0:04:08.606605	LOG	Frame command sent to the DUT
0:04:08.608605	LOG	PULL_RESP: Protocol version = 02, Token = ab68, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 73639940, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAAAQDgUKQ7qnQ='}}
0:04:08.609605	LOG	Server ----------> DUT
0:04:08.612602	LOG	Send Test Command DutResetReq process completed
0:04:08.629592	LOG	Check FCntUp after reset process starts
0:04:08.635589	LOG	Wait until a confirmed or unconfirmed uplink arrives process starts
0:04:10.921293	LOG	PULL_DATA: 02 e346 02 aa555a0000240409
0:04:10.923292	LOG	PULL_ACK: 02 e346 04
0:04:20.057116	LOG	PUSH_ACK: 02 0003 01
0:04:20.061113	LOG	PUSH_DATA: Protocol version = 02, Token = 0003, Identifier = 00, JSON = {'rxpk': [{'tmst': 83125280, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -43, 'size': 15, 'data': 'QCAgICCAAwABWNrmp2aU'}]}
0:04:20.062113	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0003, FOpts:), FPort: 01, FRMPayload: 0000, MIC: e6a76694)
0:04:20.063113	LOG	Server <---------- DUT
0:04:20.066111	LOG	Wait until a confirmed or unconfirmed uplink arrives tested successfully
0:04:20.071108	LOG	Check FCntUp after reset process complete
0:04:20.076104	LOG	Check minimum DR after reset (only ABP) process starts
0:04:20.083099	LOG	Check ADR bit process starts
0:04:21.000579	LOG	PULL_DATA: 02 7cc2 02 aa555a0000240409
0:04:21.002578	LOG	PULL_ACK: 02 7cc2 04
0:04:31.080864	LOG	PULL_DATA: 02 54f8 02 aa555a0000240409
0:04:31.085862	LOG	PULL_ACK: 02 54f8 04
0:04:41.160150	LOG	PULL_DATA: 02 1be8 02 aa555a0000240409
0:04:41.163149	LOG	PULL_ACK: 02 1be8 04

0:04:51.240555	LOG	PULL_DATA: 02 e78d 02 aa555a0000240409
0:04:51.242554	LOG	PULL_ACK: 02 e78d 04
0:05:01.320841	LOG	PULL_DATA: 02 765a 02 aa555a0000240409
0:05:01.324838	LOG	PULL_ACK: 02 765a 04
0:05:11.400144	LOG	PULL_DATA: 02 2e63 02 aa555a0000240409
0:05:11.402125	LOG	PULL_ACK: 02 2e63 04
0:05:21.480412	LOG	PULL_DATA: 02 339f 02 aa555a0000240409
0:05:21.482412	LOG	PULL_ACK: 02 339f 04
0:05:31.560697	LOG	PULL_DATA: 02 c99a 02 aa555a0000240409
0:05:31.563696	LOG	PULL_ACK: 02 c99a 04
0:05:41.639986	LOG	PULL_DATA: 02 6632 02 aa555a0000240409
0:05:41.641984	LOG	PULL_ACK: 02 6632 04
0:05:51.720268	LOG	PULL_DATA: 02 0db7 02 aa555a0000240409
0:05:51.722267	LOG	PULL_ACK: 02 0db7 04
0:06:01.800554	LOG	PULL_DATA: 02 3158 02 aa555a0000240409
0:06:01.805552	LOG	PULL_ACK: 02 3158 04
0:06:11.880827	LOG	PULL_DATA: 02 a35a 02 aa555a0000240409
0:06:11.884826	LOG	PULL_ACK: 02 a35a 04
0:06:20.129148	LOG	PUSH_ACK: 02 0009 01
0:06:20.134145	LOG	PUSH_DATA: Protocol version = 02, Token = 0009, Identifier = 00, JSON = {'rxpk': [{'tmst': 203187288, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -44, 'size': 15, 'data': 'QCAgICCABAABMZSvZqO/'}]}
0:06:20.139142	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0004, FOpts:), FPort: 01, FRMPayload: 0000, MIC: af66a3bf)
0:06:20.143139	LOG	Server <---------- DUT
0:06:20.150134	LOG	ADR bit in FCtrl field is set
0:06:20.154131	LOG	Check previous uplink data rate process starts
0:06:20.159129	LOG	Uplink received with expected Data Rate
0:06:20.162127	LOG	Check minimum DR after reset (only ABP) process complete
0:06:20.173121	LOG	Send Test Command TxPeriodicityChange process starts
0:06:20.178118	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0002, FOpts:), FPort: e0, FRMPayload: 0601), MIC: ca951b70)
0:06:20.180117	LOG	Frame command sent to the DUT
0:06:20.182117	LOG	PULL_RESP: Protocol version = 02, Token = 6895, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 205187288, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAAgDgnIfKlRtw'}}
0:06:20.184115	LOG	Server ----------> DUT
0:06:20.189112	LOG	Send Test Command TxPeriodicityChange process completed
0:06:20.194109	LOG	Send Test Command TxFramesCtrlReq process starts
0:06:22.070045	LOG	PULL_DATA: 02 255d 02 aa555a0000240409
0:06:22.072044	LOG	PULL_ACK: 02 255d 04
0:06:32.150332	LOG	PULL_DATA: 02 0517 02 aa555a0000240409
0:06:32.159327	LOG	PULL_ACK: 02 0517 04
0:06:42.239627	LOG	PULL_DATA: 02 58e9 02 aa555a0000240409
0:06:42.241607	LOG	PULL_ACK: 02 58e9 04
0:06:52.319890	LOG	PULL_DATA: 02 5ed4 02 aa555a0000240409
0:06:52.321889	LOG	PULL_ACK: 02 5ed4 04
0:07:02.400173	LOG	PULL_DATA: 02 abb2 02 aa555a0000240409
0:07:02.403172	LOG	PULL_ACK: 02 abb2 04
0:07:12.480455	LOG	PULL_DATA: 02 cdc6 02 aa555a0000240409
0:07:12.482454	LOG	PULL_ACK: 02 cdc6 04
0:07:22.559737	LOG	PULL_DATA: 02 9bb4 02 aa555a0000240409
0:07:22.561737	LOG	PULL_ACK: 02 9bb4 04

0:07:32.640020	LOG	PULL_DATA: 02 5411 02 aa555a0000240409
0:07:32.650032	LOG	PULL_ACK: 02 5411 04
0:07:42.730297	LOG	PULL_DATA: 02 0e82 02 aa555a0000240409
0:07:42.732296	LOG	PULL_ACK: 02 0e82 04
0:07:52.819573	LOG	PULL_DATA: 02 7441 02 aa555a0000240409
0:07:52.821573	LOG	PULL_ACK: 02 7441 04
0:08:02.899856	LOG	PULL_DATA: 02 213d 02 aa555a0000240409
0:08:02.904854	LOG	PULL_ACK: 02 213d 04
0:08:12.979765	LOG	PULL_DATA: 02 dc87 02 aa555a0000240409
0:08:12.982767	LOG	PULL_ACK: 02 dc87 04
0:08:19.551864	LOG	PUSH_ACK: 02 000f 01
0:08:19.553863	LOG	PUSH_DATA: Protocol version = 02, Token = 000f, Identifier = 00, JSON = {'rxpk': [{'tmst': 322610106, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -43, 'size': 15, 'data': 'QCAgICCABQAB6ilZG6U6'}]}
0:08:19.554862	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0005, FOpts:), FPort: 01, FRMPayload: 0001, MIC: 591ba53a)
0:08:19.556862	LOG	Server <---------- DUT
0:08:19.558861	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0003, FOpts:), FPort: e0, FRMPayload: 0701), MIC: 4d11cd87)
0:08:19.562859	LOG	Frame command sent to the DUT
0:08:19.563858	LOG	PULL_RESP: Protocol version = 02, Token = c037, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 324610106, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAAwDge1BNEc2H'}}
0:08:19.565857	LOG	Server ----------> DUT
0:08:19.568855	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:19.572853	LOG	Check ADR bit process starts
0:08:23.129940	LOG	PULL_DATA: 02 70e9 02 aa555a0000240409
0:08:23.131939	LOG	PULL_ACK: 02 70e9 04
0:08:33.209272	LOG	PULL_DATA: 02 3ea1 02 aa555a0000240409
0:08:33.213252	LOG	PULL_ACK: 02 3ea1 04
0:08:43.289688	LOG	PULL_DATA: 02 41e1 02 aa555a0000240409
0:08:43.291687	LOG	PULL_ACK: 02 41e1 04
0:08:53.368972	LOG	PULL_DATA: 02 fc67 02 aa555a0000240409
0:08:53.370970	LOG	PULL_ACK: 02 fc67 04
0:09:03.449587	LOG	PULL_DATA: 02 3e01 02 aa555a0000240409
0:09:03.452603	LOG	PULL_ACK: 02 3e01 04
0:09:13.529869	LOG	PULL_DATA: 02 7e97 02 aa555a0000240409
0:09:13.533869	LOG	PULL_ACK: 02 7e97 04
0:09:23.609152	LOG	PULL_DATA: 02 eadc 02 aa555a0000240409
0:09:23.611152	LOG	PULL_ACK: 02 eadc 04
0:09:33.689535	LOG	PULL_DATA: 02 6b96 02 aa555a0000240409
0:09:33.692532	LOG	PULL_ACK: 02 6b96 04
0:09:43.769816	LOG	PULL_DATA: 02 8f38 02 aa555a0000240409
0:09:43.770815	LOG	PULL_ACK: 02 8f38 04
0:09:53.849099	LOG	PULL_DATA: 02 5c2a 02 aa555a0000240409
0:09:53.852097	LOG	PULL_ACK: 02 5c2a 04
0:10:03.929381	LOG	PULL_DATA: 02 ecb0 02 aa555a0000240409
0:10:03.934379	LOG	PULL_ACK: 02 ecb0 04
0:10:14.009665	LOG	PULL_DATA: 02 3bfb 02 aa555a0000240409
0:10:14.010665	LOG	PULL_ACK: 02 3bfb 04
0:10:19.593827	LOG	PUSH_ACK: 02 0016 01
0:10:19.596825	LOG	PUSH_DATA: Protocol version = 02, Token = 0016, Identifier = 00, JSON = {'rxpk': [{'tmst': 442672292, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -47, 'size': 15, 'data': 'QCAgICCABgABQetx6Bl5'}]}
0:10:19.597825	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0006, FOpts:), FPort: 01, FRMPayload: 0002, MIC: 71e81979)
0:10:19.599823	LOG	Server <---------- DUT
0:10:19.604821	LOG	ADR bit in FCtrl field is set
0:10:19.612817	LOG	Send LinkADRReq process starts
0:10:24.089278	LOG	PULL_DATA: 02 32af 02 aa555a0000240409
0:10:24.091276	LOG	PULL_ACK: 02 32af 04
0:10:34.168971	LOG	PULL_DATA: 02 3c54 02 aa555a0000240409
0:10:34.173969	LOG	PULL_ACK: 02 3c54 04
0:10:44.249253	LOG	PULL_DATA: 02 ec18 02 aa555a0000240409
0:10:44.251253	LOG	PULL_ACK: 02 ec18 04
0:10:54.328613	LOG	PULL_DATA: 02 db5c 02 aa555a0000240409
0:10:54.330594	LOG	PULL_ACK: 02 db5c 04
0:11:04.408912	LOG	PULL_DATA: 02 021a 02 aa555a0000240409
0:11:04.413910	LOG	PULL_ACK: 02 021a 04
0:11:14.499191	LOG	PULL_DATA: 02 fe43 02 aa555a0000240409
0:11:14.500191	LOG	PULL_ACK: 02 fe43 04
0:11:24.578472	LOG	PULL_DATA: 02 fbfa 02 aa555a0000240409
0:11:24.580471	LOG	PULL_ACK: 02 fbfa 04
0:11:34.658859	LOG	PULL_DATA: 02 aa3a 02 aa555a0000240409
0:11:34.663856	LOG	PULL_ACK: 02 aa3a 04
0:11:44.739139	LOG	PULL_DATA: 02 fb29 02 aa555a0000240409
0:11:44.741138	LOG	PULL_ACK: 02 fb29 04
0:11:54.818421	LOG	PULL_DATA: 02 d1e6 02 aa555a0000240409
0:11:54.820419	LOG	PULL_ACK: 02 d1e6 04
0:12:04.898731	LOG	PULL_DATA: 02 053c 02 aa555a0000240409
0:12:04.906697	LOG	PULL_ACK: 02 053c 04
0:12:14.988975	LOG	PULL_DATA: 02 7c94 02 aa555a0000240409
0:12:14.990975	LOG	PULL_ACK: 02 7c94 04
0:12:19.662323	LOG	PUSH_ACK: 02 001b 01
0:12:19.665321	LOG	PUSH_DATA: Protocol version = 02, Token = 001b, Identifier = 00, JSON = {'rxpk': [{'tmst': 562734468, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -44, 'size': 15, 'data': 'QCAgICCABwABfRh/VYEq'}]}
0:12:19.666323	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0007, FOpts:), FPort: 01, FRMPayload: 0002, MIC: 7f55812a)
0:12:19.668320	LOG	Server <---------- DUT
0:12:19.670320	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0004, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: cd2fb162)
0:12:19.673318	LOG	PULL_RESP: Protocol version = 02, Token = 0243, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 564734468, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAABAAA1U5WV0jNL7Fi'}}
0:12:19.674336	LOG	Server ----------> DUT
0:12:19.677315	LOG	TX_ACK: 02 0243 05 aa555a0000240409
0:12:25.128090	LOG	PULL_DATA: 02 75d8 02 aa555a0000240409
0:12:25.130089	LOG	PULL_ACK: 02 75d8 04
0:12:35.208447	LOG	PULL_DATA: 02 be61 02 aa555a0000240409
0:12:35.213444	LOG	PULL_ACK: 02 be61 04
0:12:45.288778	LOG	PULL_DATA: 02 89f9 02 aa555a0000240409
0:12:45.290778	LOG	PULL_ACK: 02 89f9 04
0:12:55.368059	LOG	PULL_DATA: 02 5cbb 02 aa555a0000240409
0:12:55.370059	LOG	PULL_ACK: 02 5cbb 04

0:13:05.448339	LOG	PULL_DATA: 02 a899 02 aa555a0000240409
0:13:05.453337	LOG	PULL_ACK: 02 a899 04
0:13:15.528620	LOG	PULL_DATA: 02 0f95 02 aa555a0000240409
0:13:15.530619	LOG	PULL_ACK: 02 0f95 04
0:13:25.607901	LOG	PULL_DATA: 02 b1eb 02 aa555a0000240409
0:13:25.609900	LOG	PULL_ACK: 02 b1eb 04
0:13:35.688342	LOG	PULL_DATA: 02 f1b3 02 aa555a0000240409
0:13:35.693340	LOG	PULL_ACK: 02 f1b3 04
0:13:45.768622	LOG	PULL_DATA: 02 05ef 02 aa555a0000240409
0:13:45.770622	LOG	PULL_ACK: 02 05ef 04
0:13:55.847904	LOG	PULL_DATA: 02 f700 02 aa555a0000240409
0:13:55.849902	LOG	PULL_ACK: 02 f700 04
0:14:05.928184	LOG	PULL_DATA: 02 e9a1 02 aa555a0000240409
0:14:05.933181	LOG	PULL_ACK: 02 e9a1 04
0:14:16.008464	LOG	PULL_DATA: 02 3ae5 02 aa555a0000240409
0:14:16.010463	LOG	PULL_ACK: 02 3ae5 04
0:14:18.593997	LOG	PUSH_ACK: 02 0020 01
0:14:18.596995	LOG	PUSH_DATA: Protocol version = 02, Token = 0020, Identifier = 00, JSON = {'rxpk': [{'tmst': 681693005, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCCAADBwF1JtzJKFo='}]}
0:14:18.598994	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0008, FOpts: 0307), FPort: 01, FRMPayload: 0002, MIC: dcc9285a)
0:14:18.599993	LOG	Server <---------- DUT
0:14:18.601992	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:14:18.603991	LOG	Command Answer: 0307
0:14:18.614985	LOG	MAC command communication completed
0:14:18.621981	LOG	Send Test Command DutVersionsReq process starts
0:14:26.087745	LOG	PULL_DATA: 02 ca0b 02 aa555a0000240409
0:14:26.090743	LOG	PULL_ACK: 02 ca0b 04
0:14:28.617309	LOG	PUSH_ACK: 02 0021 01
0:14:28.619308	LOG	PUSH_DATA: Protocol version = 02, Token = 0021, Identifier = 00, JSON = {'rxpk': [{'tmst': 691693021, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCACQABn/N6G9xM'}]}
0:14:28.620308	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0009, FOpts:), FPort: 01, FRMPayload: 0002, MIC: 7a1bdc4c)
0:14:28.621307	LOG	Server <---------- DUT
0:14:28.623306	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0005, FOpts:), FPort: e0, FRMPayload: 7f), MIC: 12c48e9b)
0:14:28.625305	LOG	Frame command sent to the DUT
0:14:28.627304	LOG	PULL_RESP: Protocol version = 02, Token = 0428, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 693693021, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAABQDgKxLEjps='}}
0:14:28.628303	LOG	Server ----------> DUT
0:14:28.631301	LOG	TX_ACK: 02 0428 05 aa555a0000240409
0:14:33.632464	LOG	PUSH_ACK: 02 0023 01
0:14:33.635462	LOG	PUSH_DATA: Protocol version = 02, Token = 0023, Identifier = 00, JSON = {'rxpk': [{'tmst': 696715360, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -46, 'size': 23, 'data': 'QCAgICCACgDgv8H4Fah2vI2lJYNAiWs='}]}
0:14:33.636462	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 000a, FOpts:), FPort: e0, FRMPayload: 7f010004010004010004, MIC: 8340896b)
0:14:33.637463	LOG	Server <---------- DUT

0:14:33.639460	LOG	Answer in payload: 010004010004010004
0:14:33.640459	LOG	Frame Command Payload in the Answer: 7f010004010004010004
0:14:33.645457	LOG	DUT Version received: 010004010004010004
0:14:33.647457	LOG	Send Test Command DutVersionsReq completed
0:14:33.649456	LOG	DUT Pre-condition activation completed
0:14:33.651455	LOG	End Test Step: DUT Pre-condition settings
0:14:33.656451	LOG	Partial Verdict: PASS
0:14:33.659448	LOG	==========
0:14:33.664445	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_000
0:14:33.665445	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_001_B	
Verdict	PASS	
Date	2021-10-17 23:18:15	
Comments	Activation by Personalization	
Technology Version	LCTT v3.1.0_D1 | GUI v1.10.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.1	
Test Specs Version	USv1.5.1/EUv1.6/KRv1.2.1/ASv1.1.1/INv1.1.1/ALLv1.1	
Project	MLSv2.0.0	
Project Creation Date	2021-10-17 22:25:22	
Sample	DevID:SAMR34-XPRO | AppID:CertApp_EU_ABP | SW:MLSv2.0.0 | HW:SAMR34J18B	
Parameters	RX2 Receive window frequency	868.525
	Conformance	TRUE

Time Stamp (ms)	Event	Summary
0:00:00.013232	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_001_B
0:00:00.051209	LOG	==========
0:00:00.053209	LOG	Start Test Step: Device activation
0:00:00.108177	LOG	Activation process has finished successfully
0:00:00.110176	LOG	Data stored in the DUT after Activation:
0:00:00.112175	LOG	DevAddr: 20202020
0:00:00.114174	LOG	AppEUI: abcdabcdabcdabcd
0:00:00.117172	LOG	NwkSKey: abcdabcdabcdabcdabcdabcdabcdabcd
0:00:00.120170	LOG	AppSKey: 12345678123456781234567812345678
0:00:00.123170	LOG	End Test Step: Device activation
0:00:00.126169	LOG	Partial Verdict: PASS
0:00:00.131164	LOG	==========
0:00:00.136162	LOG	==========
0:00:00.138160	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.148154	LOG	DUT Pre-condition activation process starts
0:00:00.152152	LOG	Check FCntUp after reset process starts
0:00:00.156150	LOG	Check FCntUp after reset process complete
0:00:00.159148	LOG	Check minimum DR after reset (only ABP) process starts
0:00:00.163146	LOG	Check ADR bit process starts
0:00:07.860777	LOG	PUSH_DATA received while waiting first PULL_DATA
0:00:09.382914	LOG	PULL_DATA: 02 4847 02 aa555a0000240409
0:00:09.384913	LOG	PULL_ACK: 02 4847 04
0:00:09.385912	LOG	First PULL_DATA received
0:00:19.463198	LOG	PULL_DATA: 02 64bd 02 aa555a0000240409
0:00:19.464197	LOG	PULL_ACK: 02 64bd 04
0:00:29.542475	LOG	PULL_DATA: 02 1f23 02 aa555a0000240409
0:00:29.546473	LOG	PULL_ACK: 02 1f23 04
0:00:39.622756	LOG	PULL_DATA: 02 1ea8 02 aa555a0000240409

0:00:39.624755	LOG	PULL_ACK: 02 1ea8 04
0:00:49.703036	LOG	PULL_DATA: 02 1c7b 02 aa555a0000240409
0:00:49.705035	LOG	PULL_ACK: 02 1c7b 04
0:00:59.782316	LOG	PULL_DATA: 02 64c5 02 aa555a0000240409
0:00:59.786315	LOG	PULL_ACK: 02 64c5 04
0:01:09.862596	LOG	PULL_DATA: 02 1473 02 aa555a0000240409
0:01:09.864596	LOG	PULL_ACK: 02 1473 04
0:01:19.942877	LOG	PULL_DATA: 02 5ac5 02 aa555a0000240409
0:01:19.944876	LOG	PULL_ACK: 02 5ac5 04
0:01:30.022158	LOG	PULL_DATA: 02 5e4b 02 aa555a0000240409
0:01:30.027156	LOG	PULL_ACK: 02 5e4b 04
0:01:40.102438	LOG	PULL_DATA: 02 7963 02 aa555a0000240409
0:01:40.104438	LOG	PULL_ACK: 02 7963 04
0:01:50.182719	LOG	PULL_DATA: 02 3b70 02 aa555a0000240409
0:01:50.184718	LOG	PULL_ACK: 02 3b70 04
0:02:00.262002	LOG	PULL_DATA: 02 6424 02 aa555a0000240409
0:02:00.266000	LOG	PULL_ACK: 02 6424 04
0:02:07.896665	LOG	PUSH_ACK: 02 002d 01
0:02:07.899664	LOG	PUSH_DATA: Protocol version = 02, Token = 002d, Identifier = 00, JSON = {'rxpk': [{'tmst': 827871521, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICCADAABsKMEeGYh'}]}
0:02:07.901663	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 000c, FOpts:), FPort: 01, FRMPayload: 0003, MIC: 04786621)
0:02:07.903661	LOG	Server <---------- DUT
0:02:07.908659	LOG	ADR bit in FCtrl field is set
0:02:07.913656	LOG	Check previous uplink data rate process starts
0:02:07.919652	LOG	Uplink received with expected Data Rate
0:02:07.923650	LOG	Check minimum DR after reset (only ABP) process complete
0:02:07.928647	LOG	Send Test Command DutResetReq process starts
0:02:07.931645	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0006, FOpts:), FPort: e0, FRMPayload: 01), MIC: 4fdfdd5a)
0:02:07.933645	LOG	Frame command sent to the DUT
0:02:07.935644	LOG	PULL_RESP: Protocol version = 02, Token = a0e3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 829871521, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAABgDga0/f3Vo='}}
0:02:07.937642	LOG	Server ----------> DUT
0:02:07.942639	LOG	Send Test Command DutResetReq process completed
0:02:07.962628	LOG	Check FCntUp after reset process starts
0:02:07.968624	LOG	Wait until a confirmed or unconfirmed uplink arrives process starts
0:02:10.452233	LOG	PULL_DATA: 02 119e 02 aa555a0000240409
0:02:10.454215	LOG	PULL_ACK: 02 119e 04
0:02:19.400138	LOG	PUSH_ACK: 02 002e 01
0:02:19.402136	LOG	PUSH_DATA: Protocol version = 02, Token = 002e, Identifier = 00, JSON = {'rxpk': [{'tmst': 839357029, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -43, 'size': 15, 'data': 'QCAgICCADQABQcCIhTWb'}]}
0:02:19.403134	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 000d, FOpts:), FPort: 01, FRMPayload: 0000, MIC: 8885359b)
0:02:19.404136	LOG	Server <---------- DUT
0:02:19.407134	LOG	Wait until a confirmed or unconfirmed uplink arrives tested successfully
0:02:19.417126	LOG	Check FCntUp after reset process complete
0:02:19.421124	LOG	Check minimum DR after reset (only ABP) process starts
0:02:19.426121	LOG	Check ADR bit process starts

0:02:20.532492	LOG	PULL_DATA: 02 09dc 02 aa555a0000240409
0:02:20.534493	LOG	PULL_ACK: 02 09dc 04
0:02:30.611772	LOG	PULL_DATA: 02 aad4 02 aa555a0000240409
0:02:30.616769	LOG	PULL_ACK: 02 aad4 04
0:02:40.692050	LOG	PULL_DATA: 02 acf2 02 aa555a0000240409
0:02:40.694049	LOG	PULL_ACK: 02 acf2 04
0:02:50.772328	LOG	PULL_DATA: 02 1b10 02 aa555a0000240409
0:02:50.774328	LOG	PULL_ACK: 02 1b10 04
0:03:00.851609	LOG	PULL_DATA: 02 af3b 02 aa555a0000240409
0:03:00.856605	LOG	PULL_ACK: 02 af3b 04
0:03:10.931886	LOG	PULL_DATA: 02 33cd 02 aa555a0000240409
0:03:10.933885	LOG	PULL_ACK: 02 33cd 04
0:03:21.012164	LOG	PULL_DATA: 02 e350 02 aa555a0000240409
0:03:21.014163	LOG	PULL_ACK: 02 e350 04
0:03:31.092442	LOG	PULL_DATA: 02 4847 02 aa555a0000240409
0:03:31.096440	LOG	PULL_ACK: 02 4847 04
0:03:41.171722	LOG	PULL_DATA: 02 155c 02 aa555a0000240409
0:03:41.173720	LOG	PULL_ACK: 02 155c 04
0:03:51.252000	LOG	PULL_DATA: 02 bb6f 02 aa555a0000240409
0:03:51.252999	LOG	PULL_ACK: 02 bb6f 04
0:04:01.332277	LOG	PULL_DATA: 02 2219 02 aa555a0000240409
0:04:01.340273	LOG	PULL_ACK: 02 2219 04
0:04:11.421551	LOG	PULL_DATA: 02 ba9b 02 aa555a0000240409
0:04:11.424550	LOG	PULL_ACK: 02 ba9b 04
0:04:19.486974	LOG	PUSH_ACK: 02 0035 01
0:04:19.488971	LOG	PUSH_DATA: Protocol version = 02, Token = 0035, Identifier = 00, JSON = {'rxpk': [{'tmst': 959419101, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCADgABf+t+Qv/j'}]}
0:04:19.489972	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 000e, FOpts:), FPort: 01, FRMPayload: 0000, MIC: 7e42ffe3)
0:04:19.491970	LOG	Server <---------- DUT
0:04:19.494970	LOG	ADR bit in FCtrl field is set
0:04:19.498967	LOG	Check previous uplink data rate process starts
0:04:19.502965	LOG	Uplink received with expected Data Rate
0:04:19.504965	LOG	Check minimum DR after reset (only ABP) process complete
0:04:19.517955	LOG	Send Test Command TxPeriodicityChange process starts
0:04:19.520954	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0007, FOpts:), FPort: e0, FRMPayload: 0601), MIC: 5758a84e)
0:04:19.523952	LOG	Frame command sent to the DUT
0:04:19.525952	LOG	PULL_RESP: Protocol version = 02, Token = 035b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 961419101, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAABwDg+HFXWKhO'}}
0:04:19.527950	LOG	Server ----------> DUT
0:04:19.531947	LOG	Send Test Command TxPeriodicityChange process completed
0:04:19.537945	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:21.631756	LOG	PULL_DATA: 02 7df5 02 aa555a0000240409
0:04:21.633755	LOG	PULL_ACK: 02 7df5 04
0:04:31.712033	LOG	PULL_DATA: 02 0be1 02 aa555a0000240409
0:04:31.715031	LOG	PULL_ACK: 02 0be1 04
0:04:41.791313	LOG	PULL_DATA: 02 1a1c 02 aa555a0000240409
0:04:41.794311	LOG	PULL_ACK: 02 1a1c 04
0:04:51.891580	LOG	PULL_DATA: 02 7f23 02 aa555a0000240409
0:04:51.893579	LOG	PULL_ACK: 02 7f23 04

0:05:01.971858	LOG	PULL_DATA: 02 f829 02 aa555a0000240409
0:05:01.975855	LOG	PULL_ACK: 02 f829 04
0:05:12.051137	LOG	PULL_DATA: 02 f8a4 02 aa555a0000240409
0:05:12.053135	LOG	PULL_ACK: 02 f8a4 04
0:05:22.131414	LOG	PULL_DATA: 02 1b13 02 aa555a0000240409
0:05:22.133414	LOG	PULL_ACK: 02 1b13 04
0:05:32.211693	LOG	PULL_DATA: 02 b5ca 02 aa555a0000240409
0:05:32.214692	LOG	PULL_ACK: 02 b5ca 04
0:05:42.291338	LOG	PULL_DATA: 02 4ee8 02 aa555a0000240409
0:05:42.293337	LOG	PULL_ACK: 02 4ee8 04
0:05:52.371616	LOG	PULL_DATA: 02 9832 02 aa555a0000240409
0:05:52.375614	LOG	PULL_ACK: 02 9832 04
0:06:02.450982	LOG	PULL_DATA: 02 38e0 02 aa555a0000240409
0:06:02.454978	LOG	PULL_ACK: 02 38e0 04
0:06:12.531258	LOG	PULL_DATA: 02 794d 02 aa555a0000240409
0:06:12.533256	LOG	PULL_ACK: 02 794d 04
0:06:18.899643	LOG	PUSH_ACK: 02 003a 01
0:06:18.901642	LOG	PUSH_DATA: Protocol version = 02, Token = 003a, Identifier = 00, JSON = {'rxpk': [{'tmst': 1078842064, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 7.0, 'rssi': -43, 'size': 15, 'data': 'QCAgICCADwABdeySDkKT'}]}
0:06:18.902642	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 000f, FOpts:), FPort: 01, FRMPayload: 0001, MIC: 920e4293)
0:06:18.904642	LOG	Server <---------- DUT
0:06:18.906640	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0008, FOpts:), FPort: e0, FRMPayload: 0701), MIC: 3c626f72)
0:06:18.908639	LOG	Frame command sent to the DUT
0:06:18.910639	LOG	PULL_RESP: Protocol version = 02, Token = 0bb7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1080842064, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAACADgwKU8Ym9y'}}
0:06:18.911638	LOG	Server ----------> DUT
0:06:18.916635	LOG	Send Test Command TxFramesCtrlReq process completed
0:06:18.921631	LOG	Check ADR bit process starts
0:06:22.691490	LOG	PULL_DATA: 02 3d34 02 aa555a0000240409
0:06:22.693489	LOG	PULL_ACK: 02 3d34 04
0:06:32.771769	LOG	PULL_DATA: 02 bc5f 02 aa555a0000240409
0:06:32.779765	LOG	PULL_ACK: 02 bc5f 04
0:06:42.861060	LOG	PULL_DATA: 02 4e77 02 aa555a0000240409
0:06:42.862043	LOG	PULL_ACK: 02 4e77 04
0:06:52.941321	LOG	PULL_DATA: 02 facb 02 aa555a0000240409
0:06:52.942320	LOG	PULL_ACK: 02 facb 04
0:07:03.030591	LOG	PULL_DATA: 02 6c05 02 aa555a0000240409
0:07:03.035589	LOG	PULL_ACK: 02 6c05 04
0:07:13.110867	LOG	PULL_DATA: 02 ac86 02 aa555a0000240409
0:07:13.112867	LOG	PULL_ACK: 02 ac86 04
0:07:23.191146	LOG	PULL_DATA: 02 212b 02 aa555a0000240409
0:07:23.192146	LOG	PULL_ACK: 02 212b 04
0:07:33.270421	LOG	PULL_DATA: 02 aa1a 02 aa555a0000240409
0:07:33.274419	LOG	PULL_ACK: 02 aa1a 04
0:07:43.350697	LOG	PULL_DATA: 02 55a2 02 aa555a0000240409
0:07:43.355696	LOG	PULL_ACK: 02 55a2 04
0:07:53.430974	LOG	PULL_DATA: 02 be70 02 aa555a0000240409
0:07:53.432973	LOG	PULL_ACK: 02 be70 04
0:08:03.510312	LOG	PULL_DATA: 02 b573 02 aa555a0000240409

0:08:03.515308	LOG	PULL_ACK: 02 b573 04
0:08:13.590590	LOG	PULL_DATA: 02 3b04 02 aa555a0000240409
0:08:13.592587	LOG	PULL_ACK: 02 3b04 04
0:08:18.940658	LOG	PUSH_ACK: 02 0040 01
0:08:18.942657	LOG	PUSH_DATA: Protocol version = 02, Token = 0040, Identifier = 00, JSON = {'rxpk': [{'tmst': 1198904194, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 7.5, 'rssi': -43, 'size': 15, 'data': 'QCAgICCAEAAB4YKVFvEk'}]}
0:08:18.944656	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0010, FOpts:), FPort: 01, FRMPayload: 0002, MIC: 9516f124)
0:08:18.945655	LOG	Server <---------- DUT
0:08:18.954650	LOG	ADR bit in FCtrl field is set
0:08:18.969642	LOG	Send LinkADRReq process starts
0:08:23.670973	LOG	PULL_DATA: 02 5cd3 02 aa555a0000240409
0:08:23.672972	LOG	PULL_ACK: 02 5cd3 04
0:08:33.750249	LOG	PULL_DATA: 02 3694 02 aa555a0000240409
0:08:33.755246	LOG	PULL_ACK: 02 3694 04
0:08:43.830525	LOG	PULL_DATA: 02 b3af 02 aa555a0000240409
0:08:43.832524	LOG	PULL_ACK: 02 b3af 04
0:08:53.909803	LOG	PULL_DATA: 02 e2f0 02 aa555a0000240409
0:08:53.912800	LOG	PULL_ACK: 02 e2f0 04
0:09:03.990078	LOG	PULL_DATA: 02 e49e 02 aa555a0000240409
0:09:03.995075	LOG	PULL_ACK: 02 e49e 04
0:09:14.070354	LOG	PULL_DATA: 02 4f32 02 aa555a0000240409
0:09:14.073352	LOG	PULL_ACK: 02 4f32 04
0:09:24.149631	LOG	PULL_DATA: 02 1549 02 aa555a0000240409
0:09:24.152630	LOG	PULL_ACK: 02 1549 04
0:09:34.229909	LOG	PULL_DATA: 02 fd82 02 aa555a0000240409
0:09:34.234905	LOG	PULL_ACK: 02 fd82 04
0:09:44.310184	LOG	PULL_DATA: 02 4ea9 02 aa555a0000240409
0:09:44.312183	LOG	PULL_ACK: 02 4ea9 04
0:09:54.390460	LOG	PULL_DATA: 02 0870 02 aa555a0000240409
0:09:54.393458	LOG	PULL_ACK: 02 0870 04
0:10:04.469741	LOG	PULL_DATA: 02 d4b2 02 aa555a0000240409
0:10:04.473737	LOG	PULL_ACK: 02 d4b2 04
0:10:14.550029	LOG	PULL_DATA: 02 8a29 02 aa555a0000240409
0:10:14.552012	LOG	PULL_ACK: 02 8a29 04
0:10:19.021475	LOG	PUSH_ACK: 02 0045 01
0:10:19.023473	LOG	PUSH_DATA: Protocol version = 02, Token = 0045, Identifier = 00, JSON = {'rxpk': [{'tmst': 1318966338, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 7.5, 'rssi': -43, 'size': 15, 'data': 'QCAgICCAEQABYPauqrSw'}]}
0:10:19.025472	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0011, FOpts:), FPort: 01, FRMPayload: 0002, MIC: aeaab4b0)
0:10:19.027471	LOG	Server <---------- DUT
0:10:19.029472	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0009, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: 0abb00c8)
0:10:19.031471	LOG	PULL_RESP: Protocol version = 02, Token = f171, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1320966338, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAACQAAyjstKDwKuwDI'}}
0:10:19.033468	LOG	Server ----------> DUT
0:10:19.036466	LOG	TX_ACK: 02 f171 05 aa555a0000240409
0:10:24.700250	LOG	PULL_DATA: 02 5448 02 aa555a0000240409
0:10:24.702249	LOG	PULL_ACK: 02 5448 04

0:10:34.779528	LOG	PULL_DATA: 02 9a0a 02 aa555a0000240409
0:10:34.784524	LOG	PULL_ACK: 02 9a0a 04
0:10:44.859804	LOG	PULL_DATA: 02 bcd5 02 aa555a0000240409
0:10:44.861802	LOG	PULL_ACK: 02 bcd5 04
0:10:54.940079	LOG	PULL_DATA: 02 0e18 02 aa555a0000240409
0:10:54.942078	LOG	PULL_ACK: 02 0e18 04
0:11:05.019355	LOG	PULL_DATA: 02 a844 02 aa555a0000240409
0:11:05.024353	LOG	PULL_ACK: 02 a844 04
0:11:15.099632	LOG	PULL_DATA: 02 ac5b 02 aa555a0000240409
0:11:15.101631	LOG	PULL_ACK: 02 ac5b 04
0:11:25.179909	LOG	PULL_DATA: 02 f38e 02 aa555a0000240409
0:11:25.181908	LOG	PULL_ACK: 02 f38e 04
0:11:35.259185	LOG	PULL_DATA: 02 4cd7 02 aa555a0000240409
0:11:35.268181	LOG	PULL_ACK: 02 4cd7 04
0:11:45.349460	LOG	PULL_DATA: 02 2d9b 02 aa555a0000240409
0:11:45.353456	LOG	PULL_ACK: 02 2d9b 04
0:11:55.428809	LOG	PULL_DATA: 02 0942 02 aa555a0000240409
0:11:55.430808	LOG	PULL_ACK: 02 0942 04
0:12:05.509136	LOG	PULL_DATA: 02 e506 02 aa555a0000240409
0:12:05.514134	LOG	PULL_ACK: 02 e506 04
0:12:15.589413	LOG	PULL_DATA: 02 c433 02 aa555a0000240409
0:12:15.590412	LOG	PULL_ACK: 02 c433 04
0:12:17.941077	LOG	PUSH_ACK: 02 004b 01
0:12:17.943076	LOG	PUSH_DATA: Protocol version = 02, Token = 004b, Identifier = 00, JSON = {'rxpk': [{'tmst': 1437924995, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCEgADBwEfN6JZMhc='}]}
0:12:17.945076	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0012, FOpts: 0307), FPort: 01, FRMPayload: 0002, MIC: a2593217)
0:12:17.946075	LOG	Server <---------- DUT
0:12:17.947075	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:12:17.948075	LOG	Command Answer: 0307
0:12:17.955071	LOG	MAC command communication completed
0:12:17.962065	LOG	Send Test Command DutVersionsReq process starts
0:12:25.669687	LOG	PULL_DATA: 02 afcd 02 aa555a0000240409
0:12:25.671687	LOG	PULL_ACK: 02 afcd 04
0:12:27.926406	LOG	PUSH_ACK: 02 004d 01
0:12:27.928405	LOG	PUSH_DATA: Protocol version = 02, Token = 004d, Identifier = 00, JSON = {'rxpk': [{'tmst': 1447925003, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAEwABrpcvFOHA'}]}
0:12:27.930405	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0013, FOpts:), FPort: 01, FRMPayload: 0002, MIC: 2f14e1c0)
0:12:27.931403	LOG	Server <---------- DUT
0:12:27.933404	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 000a, FOpts:), FPort: e0, FRMPayload: 7f), MIC: 34a7b2b7)
0:12:27.935401	LOG	Frame command sent to the DUT
0:12:27.936400	LOG	PULL_RESP: Protocol version = 02, Token = 4f0d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1449925003, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAACgDgVDSnsrc='}}
0:12:27.937401	LOG	Server ----------> DUT
0:12:27.940398	LOG	TX_ACK: 02 4f0d 05 aa555a0000240409
0:12:32.976633	LOG	PUSH_ACK: 02 004e 01

0:12:32.980629	LOG	PUSH_DATA: Protocol version = 02, Token = 004e, Identifier = 00, JSON = {'rxpk': [{'tmst': 1452947269, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 23, 'data': 'QCAgICCAFADgACFRnga2yceCiHcELNo='}]}
0:12:32.981628	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0014, FOpts:), FPort: e0, FRMPayload: 7f010004010004010004, MIC: 77042cda)
0:12:32.982628	LOG	Server <---------- DUT
0:12:32.983627	LOG	Answer in payload: 010004010004010004
0:12:32.985626	LOG	Frame Command Payload in the Answer: 7f010004010004010004
0:12:32.988624	LOG	DUT Version received: 010004010004010004
0:12:32.990623	LOG	Send Test Command DutVersionsReq completed
0:12:32.994621	LOG	DUT Pre-condition activation completed
0:12:32.998619	LOG	End Test Step: DUT Pre-condition settings
0:12:33.009613	LOG	Partial Verdict: PASS
0:12:33.015609	LOG	==========
0:12:33.021605	LOG	==========
0:12:33.023605	LOG	Start Test Step: Test DUT Configuration after reset
0:12:33.036598	LOG	Send MAC command block process starts
0:12:35.709079	LOG	PULL_DATA: 02 a384 02 aa555a0000240409
0:12:35.713078	LOG	PULL_ACK: 02 a384 04
0:12:44.080325	LOG	PUSH_ACK: 02 004f 01
0:12:44.082324	LOG	PUSH_DATA: Protocol version = 02, Token = 004f, Identifier = 00, JSON = {'rxpk': [{'tmst': 1464041374, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -42, 'size': 15, 'data': 'QCAgICCAFQABkjuTXO5W'}]}
0:12:44.084323	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0015, FOpts:), FPort: 01, FRMPayload: 0003, MIC: 935cee56)
0:12:44.121302	LOG	Server <---------- DUT
0:12:44.123302	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 000b, FOpts:), FPort: 00, FRMPayload: 03570100010533c286840a00f87d840802), MIC: 1c31bbc5)
0:12:44.126299	LOG	PULL_RESP: Protocol version = 02, Token = fd17, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1466041374, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 30, 'data': 'YCAgICAACwAATWf/ytcvfZUBYKR+fbspbtEcMbvF'}}
0:12:44.128298	LOG	Server ----------> DUT
0:12:44.132296	LOG	TX_ACK: 02 fd17 05 aa555a0000240409
0:12:45.809343	LOG	PULL_DATA: 02 7f2d 02 aa555a0000240409
0:12:45.811343	LOG	PULL_ACK: 02 7f2d 04
0:12:55.888638	LOG	PULL_DATA: 02 add4 02 aa555a0000240409
0:12:55.890618	LOG	PULL_ACK: 02 add4 04
0:13:05.969038	LOG	PULL_DATA: 02 7647 02 aa555a0000240409
0:13:05.978033	LOG	PULL_ACK: 02 7647 04
0:13:16.058493	LOG	PULL_DATA: 02 de32 02 aa555a0000240409
0:13:16.061491	LOG	PULL_ACK: 02 de32 04
0:13:26.138768	LOG	PULL_DATA: 02 1cec 02 aa555a0000240409
0:13:26.140767	LOG	PULL_ACK: 02 1cec 04
0:13:36.218753	LOG	PULL_DATA: 02 4ac4 02 aa555a0000240409
0:13:36.222734	LOG	PULL_ACK: 02 4ac4 04
0:13:46.299011	LOG	PULL_DATA: 02 30f6 02 aa555a0000240409
0:13:46.301010	LOG	PULL_ACK: 02 30f6 04
0:13:56.378403	LOG	PULL_DATA: 02 2023 02 aa555a0000240409
0:13:56.380404	LOG	PULL_ACK: 02 2023 04
0:14:06.458741	LOG	PULL_DATA: 02 856c 02 aa555a0000240409
0:14:06.462720	LOG	PULL_ACK: 02 856c 04

0:14:16.538997	LOG	PULL_DATA: 02 fbb2 02 aa555a0000240409
0:14:16.540996	LOG	PULL_ACK: 02 fbb2 04
0:14:26.618272	LOG	PULL_DATA: 02 0704 02 aa555a0000240409
0:14:26.620272	LOG	PULL_ACK: 02 0704 04
0:14:36.698549	LOG	PULL_DATA: 02 f4ec 02 aa555a0000240409
0:14:36.703546	LOG	PULL_ACK: 02 f4ec 04
0:14:43.027967	LOG	PUSH_ACK: 02 0054 01
0:14:43.029952	LOG	PUSH_DATA: Protocol version = 02, Token = 0054, Identifier = 00, JSON = {'rxpk': [{'tmst': 1583005185, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -61, 'size': 22, 'data': 'QCAgICCHFgADBwUHCgMIASYhi6cJGw=='}]}
0:14:43.031952	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 87, FCnt: 0016, FOpts: 030705070a0308), FPort: 01, FRMPayload: 0003, MIC: 8ba7091b)
0:14:43.032951	LOG	Server <---------- DUT
0:14:43.033950	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:14:43.035950	LOG	Command Answer: 030705070a0308
0:14:43.130695	LOG	MAC command communication completed
0:14:43.133693	LOG	Send Test Command DutResetReq process starts
0:14:46.778693	LOG	PULL_DATA: 02 0bb9 02 aa555a0000240409
0:14:46.780692	LOG	PULL_ACK: 02 0bb9 04
0:14:53.052168	LOG	PUSH_ACK: 02 0055 01
0:14:53.054166	LOG	PUSH_DATA: Protocol version = 02, Token = 0055, Identifier = 00, JSON = {'rxpk': [{'tmst': 1593010305, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -61, 'size': 20, 'data': 'QCAgICCFFwAFBwoDCAHFsbaW/fI='}]}
0:14:53.055164	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 85, FCnt: 0017, FOpts: 05070a0308), FPort: 01, FRMPayload: 0003, MIC: b696fdf2)
0:14:53.056166	LOG	Server <---------- DUT
0:14:53.058162	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 000c, FOpts:), FPort: e0, FRMPayload: 01), MIC: 9f26f130)
0:14:53.061161	LOG	Frame command sent to the DUT
0:14:53.062160	LOG	PULL_RESP: Protocol version = 02, Token = 78ed, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1596010305, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAADADgjp8m8TA='}}
0:14:53.063162	LOG	Server ----------> DUT
0:14:53.067158	LOG	Send Test Command DutResetReq process completed
0:14:53.073155	LOG	Check minimum DR after reset (only ABP) process starts
0:14:53.080152	LOG	Check ADR bit process starts
0:14:56.839015	LOG	PULL_DATA: 02 20ba 02 aa555a0000240409
0:14:56.841014	LOG	PULL_ACK: 02 20ba 04
0:15:04.523653	LOG	PUSH_ACK: 02 0057 01
0:15:04.525652	LOG	PUSH_DATA: Protocol version = 02, Token = 0057, Identifier = 00, JSON = {'rxpk': [{'tmst': 1604460794, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 7.8, 'rssi': -59, 'size': 15, 'data': 'QCAgICCAGAAB2ZzvDYVU'}]}
0:15:04.526650	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0018, FOpts:), FPort: 01, FRMPayload: 0000, MIC: ef0d8554)
0:15:04.527651	LOG	Server <---------- DUT
0:15:04.530648	LOG	ADR bit in FCtrl field is set
0:15:04.535644	LOG	Check previous uplink data rate process starts
0:15:04.542641	LOG	Uplink received with expected Data Rate
0:15:04.546638	LOG	Check minimum DR after reset (only ABP) process complete
0:15:04.560630	LOG	Wait until a confirmed or unconfirmed uplink arrives process starts
0:15:06.918290	LOG	PULL_DATA: 02 86c3 02 aa555a0000240409

0:15:06.923289	LOG	PULL_ACK: 02 86c3 04
0:15:16.998566	LOG	PULL_DATA: 02 3e05 02 aa555a0000240409
0:15:17.000565	LOG	PULL_ACK: 02 3e05 04
0:15:27.077843	LOG	PULL_DATA: 02 f1ec 02 aa555a0000240409
0:15:27.079841	LOG	PULL_ACK: 02 f1ec 04
0:15:37.168112	LOG	PULL_DATA: 02 d967 02 aa555a0000240409
0:15:37.173109	LOG	PULL_ACK: 02 d967 04
0:15:47.248387	LOG	PULL_DATA: 02 33b7 02 aa555a0000240409
0:15:47.250386	LOG	PULL_ACK: 02 33b7 04
0:15:57.327999	LOG	PULL_DATA: 02 9950 02 aa555a0000240409
0:15:57.329998	LOG	PULL_ACK: 02 9950 04
0:16:07.408275	LOG	PULL_DATA: 02 a3e3 02 aa555a0000240409
0:16:07.416272	LOG	PULL_ACK: 02 a3e3 04
0:16:17.498543	LOG	PULL_DATA: 02 14d3 02 aa555a0000240409
0:16:17.500542	LOG	PULL_ACK: 02 14d3 04
0:16:27.577839	LOG	PULL_DATA: 02 d934 02 aa555a0000240409
0:16:27.579819	LOG	PULL_ACK: 02 d934 04
0:16:37.658095	LOG	PULL_DATA: 02 f75e 02 aa555a0000240409
0:16:37.663092	LOG	PULL_ACK: 02 f75e 04
0:16:47.737370	LOG	PULL_DATA: 02 a0f2 02 aa555a0000240409
0:16:47.740370	LOG	PULL_ACK: 02 a0f2 04
0:16:57.817645	LOG	PULL_DATA: 02 10a8 02 aa555a0000240409
0:16:57.819644	LOG	PULL_ACK: 02 10a8 04
0:17:04.550821	LOG	PUSH_ACK: 02 005c 01
0:17:04.553819	LOG	PUSH_DATA: Protocol version = 02, Token = 005c, Identifier = 00, JSON = {'rxpk': [{'tmst': 1724522802, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 7.8, 'rssi': -58, 'size': 15, 'data': 'QCAgICCAGQABqYPPCI6C'}]}
0:17:04.554818	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0019, FOpts:), FPort: 01, FRMPayload: 0000, MIC: cf088e82)
0:17:04.556817	LOG	Server <---------- DUT
0:17:04.562814	LOG	Wait until a confirmed or unconfirmed uplink arrives tested successfully
0:17:04.569810	LOG	Send Test Command TxPeriodicityChange process starts
0:17:04.572808	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 000d, FOpts:), FPort: e0, FRMPayload: 0601), MIC: cc2093d6)
0:17:04.575806	LOG	Frame command sent to the DUT
0:17:04.577806	LOG	PULL_RESP: Protocol version = 02, Token = bab8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1726522802, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'oCAgICAADQDg9gvMIJPW'}}
0:17:04.579805	LOG	Server ----------> DUT
0:17:04.583802	LOG	Send Test Command TxPeriodicityChange process completed
0:17:04.589798	LOG	Check ACK bit in next uplink starts
0:17:07.937897	LOG	PULL_DATA: 02 f605 02 aa555a0000240409
0:17:07.941895	LOG	PULL_ACK: 02 f605 04
0:17:18.018175	LOG	PULL_DATA: 02 9401 02 aa555a0000240409
0:17:18.019171	LOG	PULL_ACK: 02 9401 04
0:17:28.097443	LOG	PULL_DATA: 02 beb4 02 aa555a0000240409
0:17:28.099442	LOG	PULL_ACK: 02 beb4 04
0:17:38.177716	LOG	PULL_DATA: 02 bc44 02 aa555a0000240409
0:17:38.182714	LOG	PULL_ACK: 02 bc44 04
0:17:48.257990	LOG	PULL_DATA: 02 78fa 02 aa555a0000240409
0:17:48.259989	LOG	PULL_ACK: 02 78fa 04
0:17:58.337263	LOG	PULL_DATA: 02 4969 02 aa555a0000240409
0:17:58.339263	LOG	PULL_ACK: 02 4969 04

0:18:08.417537	LOG	PULL_DATA: 02 e623 02 aa555a0000240409
0:18:08.420535	LOG	PULL_ACK: 02 e623 04
0:18:18.496811	LOG	PULL_DATA: 02 d01a 02 aa555a0000240409
0:18:18.498809	LOG	PULL_ACK: 02 d01a 04
0:18:28.587096	LOG	PULL_DATA: 02 da69 02 aa555a0000240409
0:18:28.589077	LOG	PULL_ACK: 02 da69 04
0:18:38.667649	LOG	PULL_DATA: 02 6a7e 02 aa555a0000240409
0:18:38.672646	LOG	PULL_ACK: 02 6a7e 04
0:18:48.746923	LOG	PULL_DATA: 02 4c7e 02 aa555a0000240409
0:18:48.748922	LOG	PULL_ACK: 02 4c7e 04
0:18:58.827196	LOG	PULL_DATA: 02 5125 02 aa555a0000240409
0:18:58.828196	LOG	PULL_ACK: 02 5125 04
0:19:03.997259	LOG	PUSH_ACK: 02 0061 01
0:19:03.999258	LOG	PUSH_DATA: Protocol version = 02, Token = 0061, Identifier = 00, JSON = {'rxpk': [{'tmst': 1843945861, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.2, 'rssi': -59, 'size': 15, 'data': 'QCAgICCgGgAB5EYIX0fj'}]}
0:19:04.001257	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: a0, FCnt: 001a, FOpts:), FPort: 01, FRMPayload: 0001, MIC: 085f47e3)
0:19:04.003256	LOG	Server <---------- DUT
0:19:04.009252	LOG	Check ACK bit in next uplink tested successfully
0:19:04.029241	LOG	Send Test Command TxFramesCtrlReq process starts
0:19:08.907469	LOG	PULL_DATA: 02 b348 02 aa555a0000240409
0:19:08.910468	LOG	PULL_ACK: 02 b348 04
0:19:18.986744	LOG	PULL_DATA: 02 8453 02 aa555a0000240409
0:19:18.988742	LOG	PULL_ACK: 02 8453 04
0:19:29.066521	LOG	PULL_DATA: 02 3a94 02 aa555a0000240409
0:19:29.068502	LOG	PULL_ACK: 02 3a94 04
0:19:39.146776	LOG	PULL_DATA: 02 fb31 02 aa555a0000240409
0:19:39.151773	LOG	PULL_ACK: 02 fb31 04
0:19:49.227049	LOG	PULL_DATA: 02 9990 02 aa555a0000240409
0:19:49.229048	LOG	PULL_ACK: 02 9990 04
0:19:59.316316	LOG	PULL_DATA: 02 3257 02 aa555a0000240409
0:19:59.319315	LOG	PULL_ACK: 02 3257 04
0:20:09.396593	LOG	PULL_DATA: 02 44ee 02 aa555a0000240409
0:20:09.400590	LOG	PULL_ACK: 02 44ee 04
0:20:19.476976	LOG	PULL_DATA: 02 9bbc 02 aa555a0000240409
0:20:19.477975	LOG	PULL_ACK: 02 9bbc 04
0:20:29.556310	LOG	PULL_DATA: 02 e9e5 02 aa555a0000240409
0:20:29.558309	LOG	PULL_ACK: 02 e9e5 04
0:20:39.636583	LOG	PULL_DATA: 02 25cf 02 aa555a0000240409
0:20:39.641580	LOG	PULL_ACK: 02 25cf 04
0:20:49.716858	LOG	PULL_DATA: 02 08f5 02 aa555a0000240409
0:20:49.717857	LOG	PULL_ACK: 02 08f5 04
0:20:59.796129	LOG	PULL_DATA: 02 e9e2 02 aa555a0000240409
0:20:59.798129	LOG	PULL_ACK: 02 e9e2 04
0:21:04.026727	LOG	PUSH_ACK: 02 0068 01
0:21:04.028726	LOG	PUSH_DATA: Protocol version = 02, Token = 0068, Identifier = 00, JSON = {'rxpk': [{'tmst': 1964008005, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 6.0, 'rssi': -58, 'size': 15, 'data': 'QCAgICCAGwABhloPxaLU'}]}
0:21:04.030725	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 001b, FOpts:), FPort: 01, FRMPayload: 0001, MIC: 0fc5a2d4)
0:21:04.031723	LOG	Server <---------- DUT

0:21:04.033722	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 000e, FOpts:), FPort: e0, FRMPayload: 0701), MIC: b1cd393a)
0:21:04.035721	LOG	Frame command sent to the DUT
0:21:04.037720	LOG	PULL_RESP: Protocol version = 02, Token = 8210, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1967008005, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAADgDgwYexzTk6'}}
0:21:04.038720	LOG	Server ----------> DUT
0:21:04.042718	LOG	Send Test Command TxFramesCtrlReq process completed
0:21:04.049714	LOG	Check ADR bit process starts
0:21:09.916380	LOG	PULL_DATA: 02 5e53 02 aa555a0000240409
0:21:09.920378	LOG	PULL_ACK: 02 5e53 04
0:21:19.996654	LOG	PULL_DATA: 02 60aa 02 aa555a0000240409
0:21:19.997653	LOG	PULL_ACK: 02 60aa 04
0:21:30.075947	LOG	PULL_DATA: 02 d2b2 02 aa555a0000240409
0:21:30.077926	LOG	PULL_ACK: 02 d2b2 04
0:21:40.156218	LOG	PULL_DATA: 02 d085 02 aa555a0000240409
0:21:40.160198	LOG	PULL_ACK: 02 d085 04
0:21:50.236474	LOG	PULL_DATA: 02 fa54 02 aa555a0000240409
0:21:50.238473	LOG	PULL_ACK: 02 fa54 04
0:22:00.315747	LOG	PULL_DATA: 02 d835 02 aa555a0000240409
0:22:00.317746	LOG	PULL_ACK: 02 d835 04
0:22:10.396022	LOG	PULL_DATA: 02 e8d4 02 aa555a0000240409
0:22:10.405015	LOG	PULL_ACK: 02 e8d4 04
0:22:20.486285	LOG	PULL_DATA: 02 6682 02 aa555a0000240409
0:22:20.487284	LOG	PULL_ACK: 02 6682 04
0:22:30.565556	LOG	PULL_DATA: 02 6498 02 aa555a0000240409
0:22:30.568554	LOG	PULL_ACK: 02 6498 04
0:22:40.645827	LOG	PULL_DATA: 02 d9a8 02 aa555a0000240409
0:22:40.649824	LOG	PULL_ACK: 02 d9a8 04
0:22:50.736093	LOG	PULL_DATA: 02 8775 02 aa555a0000240409
0:22:50.739092	LOG	PULL_ACK: 02 8775 04
0:23:00.815298	LOG	PULL_DATA: 02 6570 02 aa555a0000240409
0:23:00.817295	LOG	PULL_ACK: 02 6570 04
0:23:04.112422	LOG	PUSH_ACK: 02 0070 01
0:23:04.114420	LOG	PUSH_DATA: Protocol version = 02, Token = 0070, Identifier = 00, JSON = {'rxpk': [{'tmst': 2084070294, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 7.5, 'rssi': -58, 'size': 15, 'data': 'QCAgICCAHAABd5aawK1W'}]}
0:23:04.116419	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 001c, FOpts:), FPort: 01, FRMPayload: 0002, MIC: 9ac0ad56)
0:23:04.118418	LOG	Server <---------- DUT
0:23:04.122415	LOG	ADR bit in FCtrl field is set
0:23:04.129412	LOG	Receive frame on specific channels process starts
0:23:04.140406	LOG	Attempt 1/15
0:23:10.895566	LOG	PULL_DATA: 02 5a8a 02 aa555a0000240409
0:23:10.899564	LOG	PULL_ACK: 02 5a8a 04
0:23:20.975839	LOG	PULL_DATA: 02 3f62 02 aa555a0000240409
0:23:20.976837	LOG	PULL_ACK: 02 3f62 04
0:23:31.055110	LOG	PULL_DATA: 02 8029 02 aa555a0000240409
0:23:31.057109	LOG	PULL_ACK: 02 8029 04
0:23:41.135380	LOG	PULL_DATA: 02 44de 02 aa555a0000240409
0:23:41.140378	LOG	PULL_ACK: 02 44de 04
0:23:51.215651	LOG	PULL_DATA: 02 7ca5 02 aa555a0000240409
0:23:51.217651	LOG	PULL_ACK: 02 7ca5 04

0:24:01.314932	LOG	PULL_DATA: 02 894e 02 aa555a0000240409
0:24:01.316911	LOG	PULL_ACK: 02 894e 04
0:24:11.395183	LOG	PULL_DATA: 02 5759 02 aa555a0000240409
0:24:11.404178	LOG	PULL_ACK: 02 5759 04
0:24:21.485448	LOG	PULL_DATA: 02 d351 02 aa555a0000240409
0:24:21.489448	LOG	PULL_ACK: 02 d351 04
0:24:31.565720	LOG	PULL_DATA: 02 adac 02 aa555a0000240409
0:24:31.567719	LOG	PULL_ACK: 02 adac 04
0:24:41.645997	LOG	PULL_DATA: 02 8695 02 aa555a0000240409
0:24:41.652989	LOG	PULL_ACK: 02 8695 04
0:24:51.735257	LOG	PULL_DATA: 02 80ec 02 aa555a0000240409
0:24:51.736256	LOG	PULL_ACK: 02 80ec 04
0:25:01.815665	LOG	PULL_DATA: 02 17e4 02 aa555a0000240409
0:25:01.818665	LOG	PULL_ACK: 02 17e4 04
0:25:04.149339	LOG	PUSH_ACK: 02 0075 01
0:25:04.152337	LOG	PUSH_DATA: Protocol version = 02, Token = 0075, Identifier = 00, JSON = {'rxpk': [{'tmst': 2204132550, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 6.8, 'rssi': -58, 'size': 15, 'data': 'QCAgICCAHQABaQ9GVWmV'}]}
0:25:04.154336	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 001d, FOpts:), FPort: 01, FRMPayload: 0002, MIC: 46556995)
0:25:04.155335	LOG	Server <---------- DUT
0:25:04.157334	LOG	Attempt 2/15
0:25:11.894955	LOG	PULL_DATA: 02 85f1 02 aa555a0000240409
0:25:11.898935	LOG	PULL_ACK: 02 85f1 04
0:25:21.975208	LOG	PULL_DATA: 02 8c0c 02 aa555a0000240409
0:25:21.977207	LOG	PULL_ACK: 02 8c0c 04
0:25:32.055485	LOG	PULL_DATA: 02 66f1 02 aa555a0000240409
0:25:32.058480	LOG	PULL_ACK: 02 66f1 04
0:25:42.134750	LOG	PULL_DATA: 02 7cc0 02 aa555a0000240409
0:25:42.139749	LOG	PULL_ACK: 02 7cc0 04
0:25:52.215022	LOG	PULL_DATA: 02 7cbb 02 aa555a0000240409
0:25:52.217021	LOG	PULL_ACK: 02 7cbb 04
0:26:02.294294	LOG	PULL_DATA: 02 22fc 02 aa555a0000240409
0:26:02.296293	LOG	PULL_ACK: 02 22fc 04
0:26:12.374597	LOG	PULL_DATA: 02 e466 02 aa555a0000240409
0:26:12.382563	LOG	PULL_ACK: 02 e466 04
0:26:22.464831	LOG	PULL_DATA: 02 da61 02 aa555a0000240409
0:26:22.466830	LOG	PULL_ACK: 02 da61 04
0:26:32.545107	LOG	PULL_DATA: 02 0b63 02 aa555a0000240409
0:26:32.547103	LOG	PULL_ACK: 02 0b63 04
0:26:42.634368	LOG	PULL_DATA: 02 af62 02 aa555a0000240409
0:26:42.639366	LOG	PULL_ACK: 02 af62 04
0:26:52.714639	LOG	PULL_DATA: 02 bc83 02 aa555a0000240409
0:26:52.716639	LOG	PULL_ACK: 02 bc83 04
0:27:02.793910	LOG	PULL_DATA: 02 b469 02 aa555a0000240409
0:27:02.795909	LOG	PULL_ACK: 02 b469 04
0:27:04.230094	LOG	PUSH_ACK: 02 007b 01
0:27:04.232095	LOG	PUSH_DATA: Protocol version = 02, Token = 007b, Identifier = 00, JSON = {'rxpk': [{'tmst': 2324194734, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 7.2, 'rssi': -58, 'size': 15, 'data': 'QCAgICCAHgABGPtp9wp4'}]}
0:27:04.234092	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 001e, FOpts:), FPort: 01, FRMPayload: 0002, MIC: 69f70a78)
0:27:04.235091	LOG	Server <---------- DUT

0:27:04.238090	LOG	Attempt 3/15
0:27:12.874180	LOG	PULL_DATA: 02 2f3a 02 aa555a0000240409
0:27:12.879178	LOG	PULL_ACK: 02 2f3a 04
0:27:22.954451	LOG	PULL_DATA: 02 ffaf 02 aa555a0000240409
0:27:22.956450	LOG	PULL_ACK: 02 ffaf 04
0:27:33.033869	LOG	PULL_DATA: 02 2716 02 aa555a0000240409
0:27:33.035868	LOG	PULL_ACK: 02 2716 04
0:27:43.114139	LOG	PULL_DATA: 02 93ac 02 aa555a0000240409
0:27:43.117138	LOG	PULL_ACK: 02 93ac 04
0:27:53.194410	LOG	PULL_DATA: 02 071f 02 aa555a0000240409
0:27:53.195409	LOG	PULL_ACK: 02 071f 04
0:28:03.273680	LOG	PULL_DATA: 02 b86d 02 aa555a0000240409
0:28:03.275680	LOG	PULL_ACK: 02 b86d 04
0:28:13.353970	LOG	PULL_DATA: 02 1134 02 aa555a0000240409
0:28:13.357949	LOG	PULL_ACK: 02 1134 04
0:28:23.434221	LOG	PULL_DATA: 02 2d8d 02 aa555a0000240409
0:28:23.436220	LOG	PULL_ACK: 02 2d8d 04
0:28:33.513491	LOG	PULL_DATA: 02 ef4f 02 aa555a0000240409
0:28:33.515491	LOG	PULL_ACK: 02 ef4f 04
0:28:43.593924	LOG	PULL_DATA: 02 89d4 02 aa555a0000240409
0:28:43.598922	LOG	PULL_ACK: 02 89d4 04
0:28:53.673134	LOG	PULL_DATA: 02 b663 02 aa555a0000240409
0:28:53.675132	LOG	PULL_ACK: 02 b663 04
0:29:03.773392	LOG	PULL_DATA: 02 35c1 02 aa555a0000240409
0:29:03.775391	LOG	PULL_ACK: 02 35c1 04
0:29:04.311087	LOG	PUSH_ACK: 02 0080 01
0:29:04.313085	LOG	PUSH_DATA: Protocol version = 02, Token = 0080, Identifier = 00, JSON = {'rxpk': [{'tmst': 2444256886, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 6.8, 'rssi': -58, 'size': 15, 'data': 'QCAgICCAHwAB67akH+xz'}]}
0:29:04.314085	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 001f, FOpts:), FPort: 01, FRMPayload: 0002, MIC: a41fec73)
0:29:04.315084	LOG	Server <---------- DUT
0:29:04.317084	LOG	Attempt 4/15
0:29:13.853775	LOG	PULL_DATA: 02 c7e4 02 aa555a0000240409
0:29:13.858772	LOG	PULL_ACK: 02 c7e4 04
0:29:23.934045	LOG	PULL_DATA: 02 2483 02 aa555a0000240409
0:29:23.936044	LOG	PULL_ACK: 02 2483 04
0:29:34.013315	LOG	PULL_DATA: 02 67d8 02 aa555a0000240409
0:29:34.015314	LOG	PULL_ACK: 02 67d8 04
0:29:44.093586	LOG	PULL_DATA: 02 ed96 02 aa555a0000240409
0:29:44.096585	LOG	PULL_ACK: 02 ed96 04
0:29:54.173856	LOG	PULL_DATA: 02 12ec 02 aa555a0000240409
0:29:54.175855	LOG	PULL_ACK: 02 12ec 04
0:30:04.253128	LOG	PULL_DATA: 02 4539 02 aa555a0000240409
0:30:04.255126	LOG	PULL_ACK: 02 4539 04
0:30:14.333397	LOG	PULL_DATA: 02 02d8 02 aa555a0000240409
0:30:14.338394	LOG	PULL_ACK: 02 02d8 04
0:30:24.413668	LOG	PULL_DATA: 02 e50a 02 aa555a0000240409
0:30:24.416666	LOG	PULL_ACK: 02 e50a 04
0:30:34.493937	LOG	PULL_DATA: 02 f89d 02 aa555a0000240409
0:30:34.496935	LOG	PULL_ACK: 02 f89d 04
0:30:44.573208	LOG	PULL_DATA: 02 7709 02 aa555a0000240409
0:30:44.578205	LOG	PULL_ACK: 02 7709 04
0:30:54.653569	LOG	PULL_DATA: 02 d1a5 02 aa555a0000240409

0:30:54.655569	LOG	PULL_ACK: 02 d1a5 04
0:31:04.343119	LOG	PUSH_ACK: 02 0088 01
0:31:04.344118	LOG	PUSH_DATA: Protocol version = 02, Token = 0088, Identifier = 00, JSON = {'rxpk': [{'tmst': 2564318982, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 7.8, 'rssi': -61, 'size': 15, 'data': 'QCAgICCAIAABRBKMwBPF'}]}
0:31:04.346118	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0020, FOpts:), FPort: 01, FRMPayload: 0002, MIC: 8cc013c5)
0:31:04.347119	LOG	Server <---------- DUT
0:31:04.348118	LOG	Attempt 5/15
0:31:04.732897	LOG	PULL_DATA: 02 96c1 02 aa555a0000240409
0:31:04.734896	LOG	PULL_ACK: 02 96c1 04
0:31:14.813168	LOG	PULL_DATA: 02 f41f 02 aa555a0000240409
0:31:14.818166	LOG	PULL_ACK: 02 f41f 04
0:31:24.892440	LOG	PULL_DATA: 02 95aa 02 aa555a0000240409
0:31:24.894439	LOG	PULL_ACK: 02 95aa 04
0:31:34.972708	LOG	PULL_DATA: 02 82ca 02 aa555a0000240409
0:31:34.974708	LOG	PULL_ACK: 02 82ca 04
0:31:45.052979	LOG	PULL_DATA: 02 6c49 02 aa555a0000240409
0:31:45.057976	LOG	PULL_ACK: 02 6c49 04
0:31:55.132250	LOG	PULL_DATA: 02 ae90 02 aa555a0000240409
0:31:55.134249	LOG	PULL_ACK: 02 ae90 04
0:32:05.212519	LOG	PULL_DATA: 02 cd16 02 aa555a0000240409
0:32:05.214518	LOG	PULL_ACK: 02 cd16 04
0:32:15.292904	LOG	PULL_DATA: 02 68ba 02 aa555a0000240409
0:32:15.296901	LOG	PULL_ACK: 02 68ba 04
0:32:25.372218	LOG	PULL_DATA: 02 ac7a 02 aa555a0000240409
0:32:25.374218	LOG	PULL_ACK: 02 ac7a 04
0:32:35.452487	LOG	PULL_DATA: 02 a6f2 02 aa555a0000240409
0:32:35.454486	LOG	PULL_ACK: 02 a6f2 04
0:32:45.532757	LOG	PULL_DATA: 02 b4a8 02 aa555a0000240409
0:32:45.535755	LOG	PULL_ACK: 02 b4a8 04
0:32:55.612046	LOG	PULL_DATA: 02 ca99 02 aa555a0000240409
0:32:55.614026	LOG	PULL_ACK: 02 ca99 04
0:33:04.434029	LOG	PUSH_ACK: 02 008f 01
0:33:04.440026	LOG	PUSH_DATA: Protocol version = 02, Token = 008f, Identifier = 00, JSON = {'rxpk': [{'tmst': 2684381150, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -58, 'size': 15, 'data': 'QCAgICCAIQABhmy+gxKl'}]}
0:33:04.443008	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0021, FOpts:), FPort: 01, FRMPayload: 0002, MIC: be8312a5)
0:33:04.447006	LOG	Server <---------- DUT
0:33:04.458997	LOG	Receive frame on specific channels process tested successfully
0:33:04.462997	LOG	End Test Step: Test DUT Configuration after reset
0:33:04.467992	LOG	Partial Verdict: PASS
0:33:04.473989	LOG	==========
0:33:04.480986	LOG	==========
0:33:04.483983	LOG	Start Test Step: Restore DUT Configuration
0:33:04.496975	LOG	Send MAC command block process starts
0:33:05.692458	LOG	PULL_DATA: 02 b2c2 02 aa555a0000240409
0:33:05.694457	LOG	PULL_ACK: 02 b2c2 04
0:33:15.772727	LOG	PULL_DATA: 02 372a 02 aa555a0000240409
0:33:15.776725	LOG	PULL_ACK: 02 372a 04
0:33:25.851996	LOG	PULL_DATA: 02 cb08 02 aa555a0000240409
0:33:25.853996	LOG	PULL_ACK: 02 cb08 04

0:33:35.932266	LOG	PULL_DATA: 02 cf61 02 aa555a0000240409
0:33:35.934265	LOG	PULL_ACK: 02 cf61 04
0:33:46.012535	LOG	PULL_DATA: 02 c9c3 02 aa555a0000240409
0:33:46.017533	LOG	PULL_ACK: 02 c9c3 04
0:33:56.091805	LOG	PULL_DATA: 02 805e 02 aa555a0000240409
0:33:56.093804	LOG	PULL_ACK: 02 805e 04
0:34:06.172074	LOG	PULL_DATA: 02 6e03 02 aa555a0000240409
0:34:06.174074	LOG	PULL_ACK: 02 6e03 04
0:34:16.252344	LOG	PULL_DATA: 02 28da 02 aa555a0000240409
0:34:16.256342	LOG	PULL_ACK: 02 28da 04
0:34:26.331615	LOG	PULL_DATA: 02 4cd7 02 aa555a0000240409
0:34:26.333613	LOG	PULL_ACK: 02 4cd7 04
0:34:36.411886	LOG	PULL_DATA: 02 6a19 02 aa555a0000240409
0:34:36.413883	LOG	PULL_ACK: 02 6a19 04
0:34:46.491153	LOG	PULL_DATA: 02 edd2 02 aa555a0000240409
0:34:46.495151	LOG	PULL_ACK: 02 edd2 04
0:34:56.571713	LOG	PULL_DATA: 02 d399 02 aa555a0000240409
0:34:56.573712	LOG	PULL_ACK: 02 d399 04
0:35:04.474222	LOG	PUSH_ACK: 02 0095 01
0:35:04.476221	LOG	PUSH_DATA: Protocol version = 02, Token = 0095, Identifier = 00, JSON = {'rxpk': [{'tmst': 2804443286, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -58, 'size': 15, 'data': 'QCAgICCAIgAB6Y301Oj0'}]}
0:35:04.477220	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0022, FOpts:), FPort: 01, FRMPayload: 0002, MIC: f4d4e8f4)
0:35:04.479223	LOG	Server <---------- DUT
0:35:04.481221	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 000f, FOpts:), FPort: 00, FRMPayload: 0500d2ad840a0028768408010350000061), MIC: 4972407b)
0:35:04.484214	LOG	PULL_RESP: Protocol version = 02, Token = 453f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2807443286, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 30, 'data': 'YCAgICAADwAA73SdWrfFnXTdCYPYIWf21+tJckB7'}}
0:35:04.485214	LOG	Server ----------> DUT
0:35:04.489212	LOG	TX_ACK: 02 453f 05 aa555a0000240409
0:35:06.581560	LOG	PULL_DATA: 02 4c79 02 aa555a0000240409
0:35:06.583560	LOG	PULL_ACK: 02 4c79 04
0:35:16.661839	LOG	PULL_DATA: 02 8b00 02 aa555a0000240409
0:35:16.665837	LOG	PULL_ACK: 02 8b00 04
0:35:26.741108	LOG	PULL_DATA: 02 2256 02 aa555a0000240409
0:35:26.743108	LOG	PULL_ACK: 02 2256 04
0:35:36.831372	LOG	PULL_DATA: 02 9ad4 02 aa555a0000240409
0:35:36.833371	LOG	PULL_ACK: 02 9ad4 04
0:35:46.911642	LOG	PULL_DATA: 02 18d1 02 aa555a0000240409
0:35:46.915640	LOG	PULL_ACK: 02 18d1 04
0:35:56.991911	LOG	PULL_DATA: 02 fee4 02 aa555a0000240409
0:35:56.993910	LOG	PULL_ACK: 02 fee4 04
0:36:07.071181	LOG	PULL_DATA: 02 d9cd 02 aa555a0000240409
0:36:07.073180	LOG	PULL_ACK: 02 d9cd 04
0:36:17.151450	LOG	PULL_DATA: 02 45a3 02 aa555a0000240409
0:36:17.155448	LOG	PULL_ACK: 02 45a3 04
0:36:27.230719	LOG	PULL_DATA: 02 91c6 02 aa555a0000240409
0:36:27.232719	LOG	PULL_ACK: 02 91c6 04
0:36:37.320983	LOG	PULL_DATA: 02 01ff 02 aa555a0000240409
0:36:37.322982	LOG	PULL_ACK: 02 01ff 04

0:36:47.401253	LOG	PULL_DATA: 02 c92a 02 aa555a0000240409
0:36:47.409249	LOG	PULL_ACK: 02 c92a 04
0:36:57.491517	LOG	PULL_DATA: 02 d915 02 aa555a0000240409
0:36:57.493515	LOG	PULL_ACK: 02 d915 04
0:37:03.423218	LOG	PUSH_ACK: 02 009b 01
0:37:03.425218	LOG	PUSH_DATA: Protocol version = 02, Token = 009b, Identifier = 00, JSON = {'rxpk': [{'tmst': 2923407103, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -45, 'size': 22, 'data': 'QCAgICCHIwAFBwoDCAMHAcdORQhONw==''}]}
0:37:03.426217	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 87, FCnt: 0023, FOpts: 05070a03080307), FPort: 01, FRMPayload: 0002, MIC: 45084e37)
0:37:03.428218	LOG	Server <---------- DUT
0:37:03.429218	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:37:03.431216	LOG	Command Answer: 05070a03080307
0:37:03.528159	LOG	MAC command communication completed
0:37:03.531157	LOG	End Test Step: Restore DUT Configuration
0:37:03.534155	LOG	Partial Verdict: PASS
0:37:03.538153	LOG	==========
0:37:03.545149	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_001_B
0:37:03.548148	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_002	
Verdict	PASS	
Date	2021-10-17 23:55:21	
Comments	Cryptography	
Technology Version	LCTT v3.1.0_D1 | GUI v1.10.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.1	
Test Specs Version	USv1.5.1/EUv1.6/KRv1.2.1/ASv1.1.1/INv1.1.1/ALLv1.1	
Project	MLSv2.0.0	
Project Creation Date	2021-10-17 22:25:22	
Sample	DevID:SAMR34-XPRO | AppID:CertApp_EU_ABP | SW:MLSv2.0.0 | HW:SAMR34J18B	
Parameters	Conformance	TRUE

Time Stamp (ms)	Event	Summary
0:00:00.011950	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_002
0:00:00.051927	LOG	==========
0:00:00.053928	LOG	Start Test Step: Device activation
0:00:00.115909	LOG	Activation process has finished successfully
0:00:00.117891	LOG	Data stored in the DUT after Activation:
0:00:00.120888	LOG	DevAddr: 20202020
0:00:00.122889	LOG	AppEUI: abcdabcdabcdabcd
0:00:00.124887	LOG	NwkSKey: abcdabcdabcdabcdabcdabcdabcdabcd
0:00:00.127884	LOG	AppSKey: 12345678123456781234567812345678
0:00:00.131882	LOG	End Test Step: Device activation
0:00:00.136879	LOG	Partial Verdict: PASS
0:00:00.140878	LOG	==========
0:00:00.144877	LOG	==========
0:00:00.147873	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.159868	LOG	DUT Pre-condition activation process starts
0:00:00.162865	LOG	DUT Pre-condition activation completed
0:00:00.165864	LOG	End Test Step: DUT Pre-condition settings
0:00:00.168862	LOG	Partial Verdict: PASS
0:00:00.172860	LOG	==========

0:00:00.176858	LOG	==========
0:00:00.178857	LOG	Start Test Step: AES Encryption
0:00:00.195845	LOG	Send Test Command EchoPayloadReq process starts
0:00:00.779513	LOG	PULL_DATA: 02 0143 02 aa555a0000240409
0:00:00.780515	LOG	PULL_ACK: 02 0143 04
0:00:00.782512	LOG	First PULL_DATA received
0:00:06.660174	LOG	PUSH_ACK: 02 009c 01
0:00:06.664169	LOG	PUSH_DATA: Protocol version = 02, Token = 009c, Identifier = 00, JSON = {'rxpk': [{'tmst': 2933412223, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -46, 'size': 20, 'data': 'QCAgICCFJAAFBwoDCAGS6s6HGio='}]}
0:00:06.665169	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 85, FCnt: 0024, FOpts: 05070a0308), FPort: 01, FRMPayload: 0002, MIC: ce871a2a)
0:00:06.666168	LOG	Server <---------- DUT
0:00:06.668167	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0010, FOpts:), FPort: e0, FRMPayload: 0801), MIC: 0827c2d2)
0:00:06.670166	LOG	Frame command sent to the DUT
0:00:06.672164	LOG	PULL_RESP: Protocol version = 02, Token = 633c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2935412223, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAEADgPogIJ8LS'}}
0:00:06.673162	LOG	Server ----------> DUT
0:00:06.676162	LOG	TX_ACK: 02 633c 05 aa555a0000240409
0:00:10.869304	LOG	PULL_DATA: 02 2fee 02 aa555a0000240409
0:00:10.871304	LOG	PULL_ACK: 02 2fee 04
0:00:16.648018	LOG	PUSH_ACK: 02 009d 01
0:00:16.650017	LOG	PUSH_DATA: Protocol version = 02, Token = 009d, Identifier = 00, JSON = {'rxpk': [{'tmst': 2943409874, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAJQDgxvhVzwBL'}]}
0:00:16.651019	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0025, FOpts:), FPort: e0, FRMPayload: 0802, MIC: 55cf004b)
0:00:16.653017	LOG	Server <---------- DUT
0:00:16.654016	LOG	Answer in payload: 02
0:00:16.655016	LOG	Frame Command Payload in the Answer: 0802
0:00:16.659014	LOG	Checking if the payload of the EchoPayloadAns is correct
0:00:16.663012	LOG	Send Test Command EchoPayloadReq process completed
0:00:16.668007	LOG	Send Test Command EchoPayloadReq process starts
0:00:20.948658	LOG	PULL_DATA: 02 1502 02 aa555a0000240409
0:00:20.950656	LOG	PULL_ACK: 02 1502 04
0:00:21.649259	LOG	PUSH_ACK: 02 009f 01
0:00:21.651258	LOG	PUSH_DATA: Protocol version = 02, Token = 009f, Identifier = 00, JSON = {'rxpk': [{'tmst': 2948409658, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAJgABsZNQWdeC'}]}
0:00:21.652257	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0026, FOpts:), FPort: 01, FRMPayload: 0003, MIC: 5059d782)
0:00:21.654257	LOG	Server <---------- DUT
0:00:21.656256	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0011, FOpts:), FPort: e0, FRMPayload: 080f0f0f0f0f0f0f0f0f0f0f0f0f0f), MIC: 9f41d812)
0:00:21.659255	LOG	Frame command sent to the DUT
0:00:21.660254	LOG	PULL_RESP: Protocol version = 02, Token = f34e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2950409658, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 29, 'data': 'YCAgICAAEQDgT/Y6ts2xJk1x7fHcNgf/Bp9B2BI='}}

0:00:21.661255	LOG	Server ----------> DUT
0:00:21.666250	LOG	TX_ACK: 02 f34e 05 aa555a0000240409
0:00:26.641462	LOG	PUSH_ACK: 02 00a1 01
0:00:26.643460	LOG	PUSH_DATA: Protocol version = 02, Token = 00a1, Identifier = 00, JSON = {'rxpk': [{'tmst': 2953438114, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 29, 'data': 'QCAgICCAJwDgtnVyDEOSE2N0yGWsts5o8w6jG/U='}]}
0:00:26.645460	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0027, FOpts:), FPort: e0, FRMPayload: 08101010101010101010101010101010, MIC: 0ea31bf5)
0:00:26.646458	LOG	Server <---------- DUT
0:00:26.648458	LOG	Answer in payload: 10101010101010101010101010101010
0:00:26.650457	LOG	Frame Command Payload in the Answer: 08101010101010101010101010101010
0:00:26.655454	LOG	Checking if the payload of the EchoPayloadAns is correct
0:00:26.661450	LOG	Send Test Command EchoPayloadReq process completed
0:00:26.666447	LOG	Send Test Command EchoPayloadReq process starts
0:00:31.109046	LOG	PULL_DATA: 02 8761 02 aa555a0000240409
0:00:31.114048	LOG	PULL_ACK: 02 8761 04
0:00:36.615916	LOG	PUSH_ACK: 02 00a2 01
0:00:36.616916	LOG	PUSH_DATA: Protocol version = 02, Token = 00a2, Identifier = 00, JSON = {'rxpk': [{'tmst': 2963417394, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAKAABqVzC2md+'}]}
0:00:36.618913	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0028, FOpts:), FPort: 01, FRMPayload: 0004, MIC: c2da677e)
0:00:36.619912	LOG	Server <---------- DUT
0:00:36.621913	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0012, FOpts:), FPort: e0, FRMPayload: 08202020202020202020202020202020202020202020), MIC: 4c977ad8)
0:00:36.624909	LOG	Frame command sent to the DUT
0:00:36.626909	LOG	PULL_RESP: Protocol version = 02, Token = 3d24, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2965417394, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 34, 'data': 'YCAgICAAEgDg17lneFtynljmlAssoyF8vOzCcsEyTJd62A=='}}
0:00:36.627908	LOG	Server ----------> DUT
0:00:36.632906	LOG	TX_ACK: 02 3d24 05 aa555a0000240409
0:00:41.248280	LOG	PULL_DATA: 02 7c13 02 aa555a0000240409
0:00:41.250279	LOG	PULL_ACK: 02 7c13 04
0:00:41.659048	LOG	PUSH_ACK: 02 00a3 01
0:00:41.661046	LOG	PUSH_DATA: Protocol version = 02, Token = 00a3, Identifier = 00, JSON = {'rxpk': [{'tmst': 2968457031, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -45, 'size': 34, 'data': 'QCAgICCAKQDgH+Jv8f+3zLXs5UX9j0YO2U09pf03txLe5w=='}]}
0:00:41.663045	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0029, FOpts:), FPort: e0, FRMPayload: 08212121212121212121212121212121212121212121, MIC: b712dee7)
0:00:41.664046	LOG	Server <---------- DUT
0:00:41.666043	LOG	Answer in payload: 21212121212121212121212121212121212121212121
0:00:41.671040	LOG	Frame Command Payload in the Answer: 08212121212121212121212121212121212121212121
0:00:41.677037	LOG	Checking if the payload of the EchoPayloadAns is correct
0:00:41.680035	LOG	Send Test Command EchoPayloadReq process completed
0:00:41.684033	LOG	Send Test Command EchoPayloadReq process starts
0:00:51.328548	LOG	PULL_DATA: 02 629e 02 aa555a0000240409
0:00:51.331547	LOG	PULL_ACK: 02 629e 04
0:00:51.646368	LOG	PUSH_ACK: 02 00a5 01

0:00:51.648367	LOG	PUSH_DATA: Protocol version = 02, Token = 00a5, Identifier = 00, JSON = {'rxpk': [{'tmst': 2978425135, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAKgABXB80Bzwi'}]}
0:00:51.650366	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 002a, FOpts:), FPort: 01, FRMPayload: 0005, MIC: 34073c22)
0:00:51.651368	LOG	Server <---------- DUT
0:00:51.653366	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0013, FOpts:), FPort: e0, FRMPayload: 08010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 8047acb2)
0:00:51.655365	LOG	Frame command sent to the DUT
0:00:51.657363	LOG	PULL_RESP: Protocol version = 02, Token = 92aa, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2980425135, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAEwDgdIeKYSUfr23uAwozcuOfEZJg+/0M68CwOuSbADu+rJW/LJRWmhPCG/AriC3bNtA6dMqQgEessg==''}}
0:00:51.658379	LOG	Server ----------> DUT
0:00:51.662359	LOG	TX_ACK: 02 92aa 05 aa555a0000240409
0:00:56.722481	LOG	PUSH_ACK: 02 00a6 01
0:00:56.725480	LOG	PUSH_DATA: Protocol version = 02, Token = 00a6, Identifier = 00, JSON = {'rxpk': [{'tmst': 2983511258, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -47, 'size': 64, 'data': 'QCAgICCAKwDgxWymhjGUM2kZymCFQzT5tHFGDvoJairQtwBu3lXiFqogWO/XF/mDcq7aXQwQR/AP5hrLRUToYA==''}]}
0:00:56.727479	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 002b, FOpts:), FPort: e0, FRMPayload: 08020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202), MIC: 4544e860)
0:00:56.728478	LOG	Server <---------- DUT
0:00:56.730477	LOG	Answer in payload: 02020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202
0:00:56.732476	LOG	Frame Command Payload in the Answer: 08020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202
0:00:56.774452	LOG	Checking if the payload of the EchoPayloadAns is correct
0:00:56.779450	LOG	Send Test Command EchoPayloadReq process completed
0:00:56.784447	LOG	End Test Step: AES Encryption
0:00:56.790443	LOG	Partial Verdict: PASS
0:00:56.794441	LOG	==========
0:00:56.799438	LOG	==========
0:00:56.801437	LOG	Start Test Step: Message Integrity Code
0:00:56.814429	LOG	Send Test Command EchoPayloadReq (with bad MIC) process starts
0:01:01.528748	LOG	PULL_DATA: 02 69fc 02 aa555a0000240409
0:01:01.532746	LOG	PULL_ACK: 02 69fc 04
0:01:11.618012	LOG	PULL_DATA: 02 7281 02 aa555a0000240409
0:01:11.620011	LOG	PULL_ACK: 02 7281 04
0:01:11.677977	LOG	PUSH_ACK: 02 00a7 01
0:01:11.679977	LOG	PUSH_DATA: Protocol version = 02, Token = 00a7, Identifier = 00, JSON = {'rxpk': [{'tmst': 2998435474, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCALAABGC+sOuQw'}]}
0:01:11.680978	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 002c, FOpts:), FPort: 01, FRMPayload: 0006, MIC: ac3ae430)
0:01:11.682978	LOG	Server <---------- DUT

0:01:11.684974	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0014, FOpts:), FPort: e0, FRMPayload: 0801), MIC: 0c393753)
0:01:11.686975	LOG	Frame command sent to the DUT
0:01:11.688972	LOG	PULL_RESP: Protocol version = 02, Token = 480b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3000435474, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAFADgHiMMOTdT'}}
0:01:11.689971	LOG	Server ----------> DUT
0:01:11.694968	LOG	TX_ACK: 02 480b 05 aa555a0000240409
0:01:16.637575	LOG	PUSH_ACK: 02 00a8 01
0:01:16.639575	LOG	PUSH_DATA: Protocol version = 02, Token = 00a8, Identifier = 00, JSON = {'rxpk': [{'tmst': 3003438052, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCALQABq9fkxioz'}]}
0:01:16.640575	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 002d, FOpts:), FPort: 01, FRMPayload: 0006, MIC: e4c62a33)
0:01:16.641575	LOG	Server <---------- DUT
0:01:16.643572	LOG	Command Sent header: 08
0:01:16.644572	LOG	Payload received from the DUT (bad MIC sent): 0006
0:01:16.645572	LOG	Payload sent by the DUT before send the command: 0006
0:01:16.646572	LOG	Echo with bad mic has been sent. DUT must ignore it
0:01:16.648570	LOG	Frame Command Payload in the Answer: 0006
0:01:16.653566	LOG	Checking if the payload of the EchoPayloadAns is not correct (bad MIC)
0:01:16.657565	LOG	Send Test Command EchoPayloadReq (with bad MIC) process completed
0:01:16.662563	LOG	Send Test Command EchoPayloadReq (with bad MIC) process starts
0:01:21.638732	LOG	PUSH_ACK: 02 00aa 01
0:01:21.640731	LOG	PUSH_DATA: Protocol version = 02, Token = 00aa, Identifier = 00, JSON = {'rxpk': [{'tmst': 3008440628, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICCALgAB+2DaKYfI'}]}
0:01:21.641732	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 002e, FOpts:), FPort: 01, FRMPayload: 0006, MIC: da2987c8)
0:01:21.643729	LOG	Server <---------- DUT
0:01:21.645729	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0015, FOpts:), FPort: e0, FRMPayload: 080f0f0f0f0f0f0f0f0f0f0f0f0f0f), MIC: 452807ed)
0:01:21.647728	LOG	Frame command sent to the DUT
0:01:21.649726	LOG	PULL_RESP: Protocol version = 02, Token = 09f4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3010440628, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 29, 'data': 'YCAgICAAFQDgE6/6ajzRuNs2Y29TArSKFEUoB+0='}}
0:01:21.650726	LOG	Server ----------> DUT
0:01:21.655722	LOG	TX_ACK: 02 09f4 05 aa555a0000240409
0:01:21.657721	LOG	PULL_DATA: 02 cd71 02 aa555a0000240409
0:01:21.659720	LOG	PULL_ACK: 02 cd71 04
0:01:26.671870	LOG	PUSH_ACK: 02 00ab 01
0:01:26.673868	LOG	PUSH_DATA: Protocol version = 02, Token = 00ab, Identifier = 00, JSON = {'rxpk': [{'tmst': 3013443211, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -47, 'size': 15, 'data': 'QCAgICCALwABTsTkuHK8'}]}
0:01:26.674868	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 002f, FOpts:), FPort: 01, FRMPayload: 0006, MIC: e4b872bc)
0:01:26.676867	LOG	Server <---------- DUT
0:01:26.678866	LOG	Command Sent header: 08
0:01:26.679865	LOG	Payload received from the DUT (bad MIC sent): 0006
0:01:26.680865	LOG	Payload sent by the DUT before send the command: 0006

0:01:26.681864	LOG	Echo with bad mic has been sent. DUT must ignore it
0:01:26.683865	LOG	Frame Command Payload in the Answer: 0006
0:01:26.688860	LOG	Checking if the payload of the EchoPayloadAns is not correct (bad MIC)
0:01:26.692858	LOG	Send Test Command EchoPayloadReq (with bad MIC) process completed
0:01:26.695856	LOG	Send Test Command EchoPayloadReq (with bad MIC) process starts
0:01:31.662034	LOG	PUSH_ACK: 02 00ac 01
0:01:31.665031	LOG	PUSH_DATA: Protocol version = 02, Token = 00ac, Identifier = 00, JSON = {'rxpk': [{'tmst': 3018445779, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAMAAB8zTXfpLI'}]}
0:01:31.667030	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0030, FOpts:), FPort: 01, FRMPayload: 0006, MIC: d77e92c8)
0:01:31.668029	LOG	Server <---------- DUT
0:01:31.669030	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0016, FOpts:), FPort: e0, FRMPayload: 08202020202020202020202020202020202020202020), MIC: 945bc3ea)
0:01:31.671027	LOG	Frame command sent to the DUT
0:01:31.673028	LOG	PULL_RESP: Protocol version = 02, Token = d964, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3020445779, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 34, 'data': 'YCAgICAAFgDg7ELr15c+9YY5D57QquesssPZ28fWlFvD6g==''}}
0:01:31.674025	LOG	Server ----------> DUT
0:01:31.677910	LOG	TX_ACK: 02 d964 05 aa555a0000240409
0:01:31.679710	LOG	PULL_DATA: 02 65a6 02 aa555a0000240409
0:01:31.680728	LOG	PULL_ACK: 02 65a6 04
0:01:36.686863	LOG	PUSH_ACK: 02 00ad 01
0:01:36.688861	LOG	PUSH_DATA: Protocol version = 02, Token = 00ad, Identifier = 00, JSON = {'rxpk': [{'tmst': 3023448357, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAMQABC+bTqqFt'}]}
0:01:36.690859	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0031, FOpts:), FPort: 01, FRMPayload: 0006, MIC: d3aaa16d)
0:01:36.691860	LOG	Server <---------- DUT
0:01:36.692860	LOG	Command Sent header: 08
0:01:36.693860	LOG	Payload received from the DUT (bad MIC sent): 0006
0:01:36.695858	LOG	Payload sent by the DUT before send the command: 0006
0:01:36.697856	LOG	Echo with bad mic has been sent. DUT must ignore it
0:01:36.698855	LOG	Frame Command Payload in the Answer: 0006
0:01:36.703852	LOG	Checking if the payload of the EchoPayloadAns is not correct (bad MIC)
0:01:36.707850	LOG	Send Test Command EchoPayloadReq (with bad MIC) process completed
0:01:36.711848	LOG	Send Test Command EchoPayloadReq (with bad MIC) process starts
0:01:41.678192	LOG	PUSH_ACK: 02 00ae 01
0:01:41.682190	LOG	PUSH_DATA: Protocol version = 02, Token = 00ae, Identifier = 00, JSON = {'rxpk': [{'tmst': 3028450925, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -47, 'size': 15, 'data': 'QCAgICCAMgABnCMSGm17'}]}
0:01:41.686188	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0032, FOpts:), FPort: 01, FRMPayload: 0006, MIC: 121a6d7b)
0:01:41.687187	LOG	Server <---------- DUT
0:01:41.689186	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0017, FOpts:), FPort: e0, FRMPayload: 08010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 32dbf614)
0:01:41.691184	LOG	Frame command sent to the DUT

0:01:41.692184	LOG	PULL_RESP: Protocol version = 02, Token = dad2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3030450925, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAFwDgjeltg66dix6tcrwdOaodsQVzHbbgNy3pJW7c680fG6lIuWOn89yFHOslHhR0NqT60F9OMtv2FA=='}}
0:01:41.693184	LOG	Server ----------> DUT
0:01:41.698182	LOG	TX_ACK: 02 dad2 05 aa555a0000240409
0:01:41.703179	LOG	PULL_DATA: 02 3eab 02 aa555a0000240409
0:01:41.704179	LOG	PULL_ACK: 02 3eab 04
0:01:51.700738	LOG	PUSH_ACK: 02 00b0 01
0:01:51.702736	LOG	PUSH_DATA: Protocol version = 02, Token = 00b0, Identifier = 00, JSON = {'rxpk': [{'tmst': 3038456097, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAMwABS6aR3n/r'}]}
0:01:51.703737	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0033, FOpts:), FPort: 01, FRMPayload: 0006, MIC: 91de7feb)
0:01:51.705733	LOG	Server <---------- DUT
0:01:51.706762	LOG	Command Sent header: 08
0:01:51.708735	LOG	Payload received from the DUT (bad MIC sent): 0006
0:01:51.710729	LOG	Payload sent by the DUT before send the command: 0006
0:01:51.711731	LOG	Echo with bad mic has been sent. DUT must ignore it
0:01:51.713729	LOG	Frame Command Payload in the Answer: 0006
0:01:51.718727	LOG	Checking if the payload of the EchoPayloadAns is not correct (bad MIC)
0:01:51.723721	LOG	Send Test Command EchoPayloadReq (with bad MIC) process completed
0:01:51.727736	LOG	End Test Step: Message Integrity Code
0:01:51.732717	LOG	Partial Verdict: PASS
0:01:51.737713	LOG	==========
0:01:51.742713	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_002
0:01:51.743737	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_003	
Verdict	PASS	
Date	2021-10-17 23:57:16	
Comments	Downlink Sequence Number	
Technology Version	LCTT v3.1.0_D1 | GUI v1.10.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.1	
Test Specs Version	USv1.5.1/EUv1.6/KRv1.2.1/ASv1.1.1/INv1.1.1/ALLv1.1	
Project	MLSv2.0.0	
Project Creation Date	2021-10-17 22:25:22	
Sample	DevID:SAMR34-XPRO | AppID:CertApp_EU_ABP | SW:MLSv2.0.0 | HW:SAMR34J18B	
Parameters	Conformance	TRUE

Time Stamp (ms)	Event	Summary
0:00:00.011597	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_003
0:00:00.049574	LOG	==========
0:00:00.051576	LOG	Start Test Step: Device activation
0:00:00.110540	LOG	Activation process has finished successfully
0:00:00.112539	LOG	Data stored in the DUT after Activation:
0:00:00.115537	LOG	DevAddr: 20202020
0:00:00.118535	LOG	AppEUI: abcdabcdabcdabcd
0:00:00.122533	LOG	NwkSKey: abcdabcdabcdabcdabcdabcdabcdabcd
0:00:00.124533	LOG	AppSKey: 12345678123456781234567812345678
0:00:00.127530	LOG	End Test Step: Device activation

0:00:00.130529	LOG	Partial Verdict: PASS
0:00:00.135527	LOG	==========
0:00:00.141523	LOG	==========
0:00:00.144521	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.155514	LOG	DUT Pre-condition activation process starts
0:00:00.158513	LOG	DUT Pre-condition activation completed
0:00:00.161511	LOG	End Test Step: DUT Pre-condition settings
0:00:00.165510	LOG	Partial Verdict: PASS
0:00:00.169506	LOG	==========
0:00:00.176503	LOG	==========
0:00:00.179501	LOG	Start Test Step: Downlink Sequence Number
0:00:00.195492	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:02.126393	LOG	PUSH_DATA received while waiting first PULL_DATA
0:00:07.291510	LOG	PULL_DATA: 02 714b 02 aa555a0000240409
0:00:07.293511	LOG	PULL_ACK: 02 714b 04
0:00:07.294510	LOG	First PULL_DATA received
0:00:12.107773	LOG	PUSH_ACK: 02 00b2 01
0:00:12.110771	LOG	PUSH_DATA: Protocol version = 02, Token = 00b2, Identifier = 00, JSON = {'rxpk': [{'tmst': 3053463809, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCANgABGQzTRZF9'}]}
0:00:12.112769	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0036, FOpts:), FPort: 01, FRMPayload: 0006, MIC: d345917d)
0:00:12.114770	LOG	Server <---------- DUT
0:00:12.115767	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 007c, FOpts:), FPort: e0, FRMPayload: 0700), MIC: db4fc002)
0:00:12.118766	LOG	Frame command sent to the DUT
0:00:12.120768	LOG	PULL_RESP: Protocol version = 02, Token = 3a2e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3055463809, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAfADgad3bT8AC'}}
0:00:12.121764	LOG	Server ----------> DUT
0:00:12.126761	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:12.135758	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:17.098077	LOG	PUSH_ACK: 02 00b3 01
0:00:17.100077	LOG	PUSH_DATA: Protocol version = 02, Token = 00b3, Identifier = 00, JSON = {'rxpk': [{'tmst': 3058466387, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCANwAB6uhTl9ag'}]}
0:00:17.101077	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0037, FOpts:), FPort: 01, FRMPayload: 0007, MIC: 5397d6a0)
0:00:17.103075	LOG	Server <---------- DUT
0:00:17.105074	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 007b, FOpts:), FPort: e0, FRMPayload: 0702), MIC: 7e14748e)
0:00:17.108072	LOG	Frame command sent to the DUT
0:00:17.109073	LOG	PULL_RESP: Protocol version = 02, Token = e326, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3060466387, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAewDgjYB+FHSO'}}
0:00:17.111071	LOG	Server ----------> DUT
0:00:17.114070	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:17.123065	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:17.320951	LOG	PULL_DATA: 02 ce3a 02 aa555a0000240409
0:00:17.322950	LOG	PULL_ACK: 02 ce3a 04
0:00:22.100233	LOG	PUSH_ACK: 02 00b4 01

0:00:22.102232	LOG	PUSH_DATA: Protocol version = 02, Token = 00b4, Identifier = 00, JSON = {'rxpk': [{'tmst': 3063468958, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAOAAB1FuAvexm'}]}
0:00:22.104231	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0038, FOpts:), FPort: 01, FRMPayload: 0007, MIC: 80bdec66)
0:00:22.106230	LOG	Server <---------- DUT
0:00:22.107231	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 007a, FOpts:), FPort: e0, FRMPayload: 0702), MIC: 84907e71)
0:00:22.110229	LOG	Frame command sent to the DUT
0:00:22.111229	LOG	PULL_RESP: Protocol version = 02, Token = 82ee, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3065468958, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAegDglFOEkH5x'}}
0:00:22.112228	LOG	Server ----------> DUT
0:00:22.116226	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:22.126220	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:27.102480	LOG	PUSH_ACK: 02 00b6 01
0:00:27.104479	LOG	PUSH_DATA: Protocol version = 02, Token = 00b6, Identifier = 00, JSON = {'rxpk': [{'tmst': 3068471520, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAOQABwLhFIMU7'}]}
0:00:27.105479	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0039, FOpts:), FPort: 01, FRMPayload: 0007, MIC: 4520c53b)
0:00:27.106479	LOG	Server <---------- DUT
0:00:27.108477	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0079, FOpts:), FPort: e0, FRMPayload: 0702), MIC: 2be9e2d3)
0:00:27.110476	LOG	Frame command sent to the DUT
0:00:27.112475	LOG	PULL_RESP: Protocol version = 02, Token = fc3c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3070471520, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAeQDgdtUr6eLT'}}
0:00:27.113473	LOG	Server ----------> DUT
0:00:27.116471	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:27.126466	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:27.531235	LOG	PULL_DATA: 02 75a7 02 aa555a0000240409
0:00:27.533234	LOG	PULL_ACK: 02 75a7 04
0:00:32.105634	LOG	PUSH_ACK: 02 00b7 01
0:00:32.110633	LOG	PUSH_DATA: Protocol version = 02, Token = 00b7, Identifier = 00, JSON = {'rxpk': [{'tmst': 3073474082, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAOgABk5tU75oT'}]}
0:00:32.112630	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 003a, FOpts:), FPort: 01, FRMPayload: 0007, MIC: 54ef9a13)
0:00:32.114630	LOG	Server <---------- DUT
0:00:32.115628	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0078, FOpts:), FPort: e0, FRMPayload: 0702), MIC: d22126d9)
0:00:32.118628	LOG	Frame command sent to the DUT
0:00:32.120626	LOG	PULL_RESP: Protocol version = 02, Token = b348, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3075474082, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAeADgp7/SISbZ'}}
0:00:32.122626	LOG	Server ----------> DUT
0:00:32.126622	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:32.129621	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:00:37.107790	LOG	PUSH_ACK: 02 00b8 01

0:00:37.109789	LOG	PUSH_DATA: Protocol version = 02, Token = 00b8, Identifier = 00, JSON = {'rxpk': [{'tmst': 3078476645, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAOwABayq3fARX'}]}
0:00:37.110790	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 003b, FOpts:), FPort: 01, FRMPayload: 0007, MIC: b77c0457)
0:00:37.112789	LOG	Server <---------- DUT
0:00:37.114788	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:00:37.126781	LOG	End Test Step: Downlink Sequence Number
0:00:37.129795	LOG	Partial Verdict: PASS
0:00:37.133777	LOG	==========
0:00:37.140771	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_003
0:00:37.142771	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_004	
Verdict	PASS	
Date	2021-10-17 23:57:56	
Comments	Confirmed Frames	
Technology Version	LCTT v3.1.0_D1 | GUI v1.10.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.1	
Test Specs Version	USv1.5.1/EUv1.6/KRv1.2.1/ASv1.1.1/INv1.1.1/ALLv1.1	
Project	MLSv2.0.0	
Project Creation Date	2021-10-17 22:25:22	
Sample	DevID:SAMR34-XPRO | AppID:CertApp_EU_ABP | SW:MLSv2.0.0 | HW:SAMR34J18B	
Parameters	Conformance	TRUE

Time Stamp (ms)	Event	Summary
0:00:00.010637	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_004
0:00:00.046617	LOG	==========
0:00:00.048616	LOG	Start Test Step: Device activation
0:00:00.110600	LOG	Activation process has finished successfully
0:00:00.113579	LOG	Data stored in the DUT after Activation:
0:00:00.115578	LOG	DevAddr: 20202020
0:00:00.117577	LOG	AppEUI: abcdabcdabcdabcd
0:00:00.120577	LOG	NwkSKey: abcdabcdabcdabcdabcdabcdabcdabcd
0:00:00.122576	LOG	AppSKey: 12345678123456781234567812345678
0:00:00.126590	LOG	End Test Step: Device activation
0:00:00.130569	LOG	Partial Verdict: PASS
0:00:00.136566	LOG	==========
0:00:00.142562	LOG	==========
0:00:00.145560	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.157573	LOG	DUT Pre-condition activation process starts
0:00:00.160552	LOG	DUT Pre-condition activation completed
0:00:00.163551	LOG	End Test Step: DUT Pre-condition settings
0:00:00.168548	LOG	Partial Verdict: PASS
0:00:00.171546	LOG	==========
0:00:00.178542	LOG	==========
0:00:00.181541	LOG	Start Test Step: Confirmed Uplinks
0:00:00.193534	LOG	Send Test Command RxAppCntReq process starts
0:00:02.162418	LOG	PUSH_DATA received while waiting first PULL_DATA
0:00:07.153575	LOG	PUSH_DATA received while waiting first PULL_DATA
0:00:07.672281	LOG	PULL_DATA: 02 ea7e 02 aa555a0000240409
0:00:07.673282	LOG	PULL_ACK: 02 ea7e 04

0:00:07.675283	LOG	First PULL_DATA received
0:00:12.155737	LOG	PUSH_ACK: 02 00bb 01
0:00:12.158732	LOG	PUSH_DATA: Protocol version = 02, Token = 00bb, Identifier = 00, JSON = {'rxpk': [{'tmst': 3093484365, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAPgABqa7v/6cU'}]}
0:00:12.159731	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 003e, FOpts:), FPort: 01, FRMPayload: 0007, MIC: efffa714)
0:00:12.161728	LOG	Server <---------- DUT
0:00:12.163728	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 010f, FOpts:), FPort: e0, FRMPayload: 09), MIC: e2404b27)
0:00:12.166725	LOG	Frame command sent to the DUT
0:00:12.168724	LOG	PULL_RESP: Protocol version = 02, Token = 0a90, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3095484365, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAADwHgv+JASyc='}}
0:00:12.169724	LOG	Server ----------> DUT
0:00:12.173721	LOG	TX_ACK: 02 0a90 05 aa555a0000240409
0:00:17.179892	LOG	PUSH_ACK: 02 00bd 01
0:00:17.181874	LOG	PUSH_DATA: Protocol version = 02, Token = 00bd, Identifier = 00, JSON = {'rxpk': [{'tmst': 3098494999, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 16, 'data': 'QCAgICCAPwDgGJ7N9I216A=='}]}
0:00:17.183873	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 003f, FOpts:), FPort: e0, FRMPayload: 090800, MIC: f48db5e8)
0:00:17.185873	LOG	Server <---------- DUT
0:00:17.187871	LOG	Answer in payload: 0800
0:00:17.188871	LOG	Frame Command Payload in the Answer: 090800
0:00:17.193868	LOG	RX Count received by DUT: 8
0:00:17.195868	LOG	Send Test Command RxAppCntReq process completed
0:00:17.200863	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:17.842499	LOG	PULL_DATA: 02 64ff 02 aa555a0000240409
0:00:17.843499	LOG	PULL_ACK: 02 64ff 04
0:00:27.152204	LOG	PUSH_ACK: 02 00be 01
0:00:27.154204	LOG	PUSH_DATA: Protocol version = 02, Token = 00be, Identifier = 00, JSON = {'rxpk': [{'tmst': 3108492079, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -47, 'size': 15, 'data': 'QCAgICCAQAABSytoF4o8'}]}
0:00:27.156202	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0040, FOpts:), FPort: 01, FRMPayload: 0008, MIC: 68178a3c)
0:00:27.158201	LOG	Server <---------- DUT
0:00:27.160200	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0110, FOpts:), FPort: e0, FRMPayload: 0702), MIC: 6a85a6f9)
0:00:27.164198	LOG	Frame command sent to the DUT
0:00:27.166197	LOG	PULL_RESP: Protocol version = 02, Token = a190, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3110492079, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAEAHg3atqhab5'}}
0:00:27.169195	LOG	Server ----------> DUT
0:00:27.187184	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:27.190183	LOG	Wait Until Confirmed Uplink arrives process starts
0:00:28.011716	LOG	PULL_DATA: 02 81eb 02 aa555a0000240409
0:00:28.013714	LOG	PULL_ACK: 02 81eb 04
0:00:32.136370	LOG	PUSH_ACK: 02 00bf 01
0:00:32.140368	LOG	PUSH_DATA: Protocol version = 02, Token = 00bf, Identifier = 00, JSON = {'rxpk': [{'tmst': 3113494471, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'gCAgICCAQQABceJ8lMlv'}]}
0:00:32.141367	LOG	DATA: (MHDR: 80, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0041, FOpts:), FPort: 01, FRMPayload: 0009, MIC: 7c94c96f)
0:00:32.143366	LOG	Server <---------- DUT
0:00:32.145365	LOG	Wait Until Confirmed Uplink arrives tested successfully
0:00:32.150362	LOG	Send ACK to DUT process starts
0:00:32.154360	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 20, FCnt: 0111, FOpts:), FPort: , FRMPayload:), MIC: 813c8c2a)
0:00:32.156360	LOG	PULL_RESP: Protocol version = 02, Token = d7dc, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3115494471, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 12, 'data': 'YCAgICAgEQGBPIwq'}}
0:00:32.158358	LOG	Server ----------> DUT
0:00:32.161356	LOG	Send ACK to DUT tested successfully
0:00:32.166353	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:37.180502	LOG	PUSH_ACK: 02 00c0 01
0:00:37.182501	LOG	PUSH_DATA: Protocol version = 02, Token = 00c0, Identifier = 00, JSON = {'rxpk': [{'tmst': 3118497043, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'gCAgICCAQgABCkwcGIv2'}]}
0:00:37.183500	LOG	DATA: (MHDR: 80, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0042, FOpts:), FPort: 01, FRMPayload: 000a, MIC: 1c188bf6)
0:00:37.185499	LOG	Server <---------- DUT
0:00:37.187499	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 20, FCnt: 0112, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 170a1e58)
0:00:37.189498	LOG	Frame command sent to the DUT
0:00:37.191496	LOG	PULL_RESP: Protocol version = 02, Token = 9a03, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3120497043, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAgEgHgLw8XCh5Y'}}
0:00:37.193495	LOG	Server ----------> DUT
0:00:37.196493	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:37.201490	LOG	Wait Until Confirmed Uplink arrives process starts
0:00:38.032017	LOG	PULL_DATA: 02 61fd 02 aa555a0000240409
0:00:38.034017	LOG	PULL_ACK: 02 61fd 04
0:00:42.140683	LOG	PUSH_ACK: 02 00c1 01
0:00:42.142680	LOG	PUSH_DATA: Protocol version = 02, Token = 00c1, Identifier = 00, JSON = {'rxpk': [{'tmst': 3123499613, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -44, 'size': 15, 'data': 'gCAgICCAQwABPg5QM4fO'}]}
0:00:42.143680	LOG	DATA: (MHDR: 80, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0043, FOpts:), FPort: 01, FRMPayload: 000b, MIC: 503387ce)
0:00:42.144681	LOG	Server <---------- DUT
0:00:42.147678	LOG	Wait Until Confirmed Uplink arrives tested successfully
0:00:42.152675	LOG	Send Test Command RxAppCntReq process starts
0:00:47.141839	LOG	PUSH_ACK: 02 00c3 01
0:00:47.143838	LOG	PUSH_DATA: Protocol version = 02, Token = 00c3, Identifier = 00, JSON = {'rxpk': [{'tmst': 3128502189, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'gCAgICCARAABCEU2n7az'}]}
0:00:47.145836	LOG	DATA: (MHDR: 80, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0044, FOpts:), FPort: 01, FRMPayload: 000b, MIC: 369fb6b3)
0:00:47.146835	LOG	Server <---------- DUT
0:00:47.148835	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 20, FCnt: 0113, FOpts:), FPort: e0, FRMPayload: 09), MIC: 09f1f4ba)

0:00:47.149835	LOG	Frame command sent to the DUT
0:00:47.151833	LOG	PULL_RESP: Protocol version = 02, Token = 592f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3130502189, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAgEwHgVQnx9Lo='}}
0:00:47.152833	LOG	Server ----------> DUT
0:00:47.155831	LOG	TX_ACK: 02 592f 05 aa555a0000240409
0:00:48.201235	LOG	PULL_DATA: 02 fec3 02 aa555a0000240409
0:00:48.203234	LOG	PULL_ACK: 02 fec3 04
0:00:52.197963	LOG	PUSH_ACK: 02 00c4 01
0:00:52.199962	LOG	PUSH_DATA: Protocol version = 02, Token = 00c4, Identifier = 00, JSON = {'rxpk': [{'tmst': 3133512831, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 16, 'data': 'gCAgICCARQDghkkNOQieJQ=='}]}
0:00:52.200963	LOG	DATA: (MHDR: 80, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0045, FOpts:), FPort: e0, FRMPayload: 090c00, MIC: 39089e25)
0:00:52.201962	LOG	Server <---------- DUT
0:00:52.203960	LOG	Answer in payload: 0c00
0:00:52.204961	LOG	Frame Command Payload in the Answer: 090c00
0:00:52.208957	LOG	RX Count received by DUT: 12
0:00:52.210956	LOG	Send Test Command RxAppCntReq process completed
0:00:52.215952	LOG	Wait Until Confirmed Uplink arrives process starts
0:00:58.281504	LOG	PULL_DATA: 02 9b67 02 aa555a0000240409
0:00:58.283503	LOG	PULL_ACK: 02 9b67 04
0:01:02.171292	LOG	PUSH_ACK: 02 00c6 01
0:01:02.175291	LOG	PUSH_DATA: Protocol version = 02, Token = 00c6, Identifier = 00, JSON = {'rxpk': [{'tmst': 3143517999, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 16, 'data': 'gCAgICCARgDgGq3+FEohvQ=='}]}
0:01:02.176290	LOG	DATA: (MHDR: 80, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0046, FOpts:), FPort: e0, FRMPayload: 090c00, MIC: 144a21bd)
0:01:02.178289	LOG	Server <---------- DUT
0:01:02.181286	LOG	Wait Until Confirmed Uplink arrives tested successfully
0:01:02.186283	LOG	End Test Step: Confirmed Uplinks
0:01:02.190281	LOG	Partial Verdict: PASS
0:01:02.194281	LOG	==========
0:01:02.204273	LOG	==========
0:01:02.208272	LOG	Start Test Step: Restore unconfirmed frame in DUT
0:01:02.223263	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:08.361773	LOG	PULL_DATA: 02 bf0d 02 aa555a0000240409
0:01:08.363772	LOG	PULL_ACK: 02 bf0d 04
0:01:12.195592	LOG	PUSH_ACK: 02 00c7 01
0:01:12.197592	LOG	PUSH_DATA: Protocol version = 02, Token = 00c7, Identifier = 00, JSON = {'rxpk': [{'tmst': 3153523143, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 16, 'data': 'gCAgICCARwDgF+rON2w7kw=='}]}
0:01:12.198592	LOG	DATA: (MHDR: 80, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0047, FOpts:), FPort: e0, FRMPayload: 090c00, MIC: 376c3b93)
0:01:12.200591	LOG	Server <---------- DUT
0:01:12.201589	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 20, FCnt: 0114, FOpts:), FPort: e0, FRMPayload: 0701), MIC: 88f1d120)
0:01:12.204587	LOG	Frame command sent to the DUT
0:01:12.206586	LOG	PULL_RESP: Protocol version = 02, Token = bae4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3155523143, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAgFAHgLIaI8dEg'}}

0:01:12.207585	LOG	Server ----------> DUT
0:01:12.210583	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:12.214581	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:01:18.512107	LOG	PULL_DATA: 02 e98c 02 aa555a0000240409
0:01:18.514105	LOG	PULL_ACK: 02 e98c 04
0:01:22.202010	LOG	PUSH_ACK: 02 00c9 01
0:01:22.204007	LOG	PUSH_DATA: Protocol version = 02, Token = 00c9, Identifier = 00, JSON = {'rxpk': [{'tmst': 3163528473, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -45, 'size': 16, 'data': 'QCAgICCASADgiN9gamcArw=='}]}
0:01:22.205007	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0048, FOpts:), FPort: e0, FRMPayload: 000000, MIC: 6a6700af)
0:01:22.207025	LOG	Server <---------- DUT
0:01:22.210004	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:01:22.212004	LOG	End Test Step: Restore unconfirmed frame in DUT
0:01:22.217001	LOG	Partial Verdict: PASS
0:01:22.222997	LOG	==========
0:01:22.229992	LOG	==========
0:01:22.233991	LOG	Start Test Step: Confirmed Downlinks
0:01:22.248982	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:28.591375	LOG	PULL_DATA: 02 7e4e 02 aa555a0000240409
0:01:28.593374	LOG	PULL_ACK: 02 7e4e 04
0:01:32.173338	LOG	PUSH_ACK: 02 00ca 01
0:01:32.175337	LOG	PUSH_DATA: Protocol version = 02, Token = 00ca, Identifier = 00, JSON = {'rxpk': [{'tmst': 3173525545, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCASQABhkuxfENQ'}]}
0:01:32.177336	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0049, FOpts:), FPort: 01, FRMPayload: 000d, MIC: b17c4350)
0:01:32.178336	LOG	Server <---------- DUT
0:01:32.179335	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0115, FOpts:), FPort: e0, FRMPayload: 0702), MIC: a44c5a2c)
0:01:32.185332	LOG	Frame command sent to the DUT
0:01:32.187331	LOG	PULL_RESP: Protocol version = 02, Token = 380a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3175525545, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'oCAgICAAFQHgr/OkTFos'}}
0:01:32.188329	LOG	Server ----------> DUT
0:01:32.191328	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:32.194327	LOG	Check ACK bit in next uplink starts
0:01:37.169499	LOG	PUSH_ACK: 02 00cb 01
0:01:37.171497	LOG	PUSH_DATA: Protocol version = 02, Token = 00cb, Identifier = 00, JSON = {'rxpk': [{'tmst': 3178527945, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -46, 'size': 15, 'data': 'gCAgICCgSgABV154TE7M'}]}
0:01:37.172496	LOG	DATA: (MHDR: 80, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: a0, FCnt: 004a, FOpts:), FPort: 01, FRMPayload: 000e, MIC: 784c4ecc)
0:01:37.173496	LOG	Server <---------- DUT
0:01:37.176493	LOG	Check ACK bit in next uplink tested successfully
0:01:37.179492	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:38.701727	LOG	PULL_DATA: 02 32bd 02 aa555a0000240409
0:01:38.703726	LOG	PULL_ACK: 02 32bd 04
0:01:42.209776	LOG	PUSH_ACK: 02 00cc 01
0:01:42.211776	LOG	PUSH_DATA: Protocol version = 02, Token = 00cc, Identifier = 00, JSON = {'rxpk': [{'tmst': 3183530513, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'gCAgICCASwABnJZfX2ZW'}]}
0:01:42.212774	LOG	DATA: (MHDR: 80, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 004b, FOpts:), FPort: 01, FRMPayload: 000e, MIC: 5f5f6656)
0:01:42.213776	LOG	Server <---------- DUT
0:01:42.215773	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 20, FCnt: 0116, FOpts:), FPort: e0, FRMPayload: 0701), MIC: 61c9be92)
0:01:42.251752	LOG	Frame command sent to the DUT
0:01:42.252752	LOG	PULL_RESP: Protocol version = 02, Token = f5c6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3185530513, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'oCAgICAgFgHgL9Bhyb6S'}}
0:01:42.254751	LOG	Server ----------> DUT
0:01:42.257750	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:42.259749	LOG	Check ACK bit in next uplink starts
0:01:47.175952	LOG	PUSH_ACK: 02 00ce 01
0:01:47.178951	LOG	PUSH_DATA: Protocol version = 02, Token = 00ce, Identifier = 00, JSON = {'rxpk': [{'tmst': 3188533260, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -47, 'size': 15, 'data': 'QCAgICCgTAAB2hBiXGDH'}]}
0:01:47.179950	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: a0, FCnt: 004c, FOpts:), FPort: 01, FRMPayload: 000f, MIC: 625c60c7)
0:01:47.182949	LOG	Server <---------- DUT
0:01:47.186946	LOG	Check ACK bit in next uplink tested successfully
0:01:47.191943	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:48.760918	LOG	PULL_DATA: 02 f97c 02 aa555a0000240409
0:01:48.763916	LOG	PULL_ACK: 02 f97c 04
0:01:52.218953	LOG	PUSH_ACK: 02 00cf 01
0:01:52.220951	LOG	PUSH_DATA: Protocol version = 02, Token = 00cf, Identifier = 00, JSON = {'rxpk': [{'tmst': 3193535828, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCATQAB1lYdVpdn'}]}
0:01:52.221952	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 004d, FOpts:), FPort: 01, FRMPayload: 000f, MIC: 1d569767)
0:01:52.222951	LOG	Server <---------- DUT
0:01:52.224950	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0117, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 3c9c2cb4)
0:01:52.226949	LOG	Frame command sent to the DUT
0:01:52.227949	LOG	PULL_RESP: Protocol version = 02, Token = b2d0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3195535828, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'oCAgICAAFwHgaDo8nCy0'}}
0:01:52.229948	LOG	Server ----------> DUT
0:01:52.232944	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:52.236941	LOG	Check ACK bit in next uplink starts
0:01:57.181131	LOG	PUSH_ACK: 02 00d0 01
0:01:57.183129	LOG	PUSH_DATA: Protocol version = 02, Token = 00d0, Identifier = 00, JSON = {'rxpk': [{'tmst': 3198538398, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCgTgABz0btnPn8'}]}
0:01:57.184130	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: a0, FCnt: 004e, FOpts:), FPort: 01, FRMPayload: 0010, MIC: ed9cf9fc)
0:01:57.185130	LOG	Server <---------- DUT
0:01:57.188126	LOG	Check ACK bit in next uplink tested successfully
0:01:57.195122	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:58.961117	LOG	PULL_DATA: 02 8c6a 02 aa555a0000240409

0:01:58.963117	LOG	PULL_ACK: 02 8c6a 04
0:02:02.222264	LOG	PUSH_ACK: 02 00d1 01
0:02:02.227261	LOG	PUSH_DATA: Protocol version = 02, Token = 00d1, Identifier = 00, JSON = {'rxpk': [{'tmst': 3203540966, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCATwABQk4aY/fi'}]}
0:02:02.228260	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 004f, FOpts:), FPort: 01, FRMPayload: 0010, MIC: 1a63f7e2)
0:02:02.229260	LOG	Server <---------- DUT
0:02:02.231259	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0117, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 3c9c2cb4)
0:02:02.233258	LOG	Frame command sent to the DUT
0:02:02.235257	LOG	PULL_RESP: Protocol version = 02, Token = cd88, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3205540966, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'oCAgICAAFwHgaDo8nCy0'}}
0:02:02.237255	LOG	Server ----------> DUT
0:02:02.241253	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:02.248249	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:07.184543	LOG	PUSH_ACK: 02 00d2 01
0:02:07.186542	LOG	PUSH_DATA: Protocol version = 02, Token = 00d2, Identifier = 00, JSON = {'rxpk': [{'tmst': 3208543536, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -47, 'size': 15, 'data': 'QCAgICCAUAAB9EVCqh1g'}]}
0:02:07.188541	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0050, FOpts:), FPort: 01, FRMPayload: 0011, MIC: 42aa1d60)
0:02:07.189540	LOG	Server <---------- DUT
0:02:07.192538	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0117, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 3c9c2cb4)
0:02:07.194537	LOG	Frame command sent to the DUT
0:02:07.196536	LOG	PULL_RESP: Protocol version = 02, Token = 8c98, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3210543536, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'oCAgICAAFwHgaDo8nCy0'}}
0:02:07.198535	LOG	Server ----------> DUT
0:02:07.206530	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:07.215526	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:09.091458	LOG	PULL_DATA: 02 c75b 02 aa555a0000240409
0:02:09.093458	LOG	PULL_ACK: 02 c75b 04
0:02:12.186698	LOG	PUSH_ACK: 02 00d3 01
0:02:12.188698	LOG	PUSH_DATA: Protocol version = 02, Token = 00d3, Identifier = 00, JSON = {'rxpk': [{'tmst': 3213546121, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -47, 'size': 15, 'data': 'QCAgICCAUQABVQYf43iF'}]}
0:02:12.190696	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0051, FOpts:), FPort: 01, FRMPayload: 0012, MIC: 1fe37885)
0:02:12.191696	LOG	Server <---------- DUT
0:02:12.194694	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0117, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 3c9c2cb4)
0:02:12.196693	LOG	Frame command sent to the DUT
0:02:12.198692	LOG	PULL_RESP: Protocol version = 02, Token = e0f9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3215546121, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'oCAgICAAFwHgaDo8nCy0'}}
0:02:12.200691	LOG	Server ----------> DUT
0:02:12.206687	LOG	Send Test Command TxFramesCtrlReq process completed

0:02:12.226676	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:17.189853	LOG	PUSH_ACK: 02 00d5 01
0:02:17.191853	LOG	PUSH_DATA: Protocol version = 02, Token = 00d5, Identifier = 00, JSON = {'rxpk': [{'tmst': 3218548691, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAUgABljuIY/xE'}]}
0:02:17.192853	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0052, FOpts:), FPort: 01, FRMPayload: 0013, MIC: 8863fc44)
0:02:17.193853	LOG	Server <---------- DUT
0:02:17.195852	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0117, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 3c9c2cb4)
0:02:17.197851	LOG	Frame command sent to the DUT
0:02:17.198850	LOG	PULL_RESP: Protocol version = 02, Token = ecbf, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3220548691, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'oCAgICAAFwHgaDo8nCy0'}}
0:02:17.200848	LOG	Server ----------> DUT
0:02:17.204845	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:17.208843	LOG	Check ACK bit in next uplink starts
0:02:19.301653	LOG	PULL_DATA: 02 a43c 02 aa555a0000240409
0:02:19.303651	LOG	PULL_ACK: 02 a43c 04
0:02:22.192009	LOG	PUSH_ACK: 02 00d6 01
0:02:22.194009	LOG	PUSH_DATA: Protocol version = 02, Token = 00d6, Identifier = 00, JSON = {'rxpk': [{'tmst': 3223551259, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAUwABfaryu+fP'}]}
0:02:22.195008	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0053, FOpts:), FPort: 01, FRMPayload: 0014, MIC: f2bbe7cf)
0:02:22.197007	LOG	Server <---------- DUT
0:02:22.202003	LOG	End Test Step: Confirmed Downlinks
0:02:22.207000	LOG	Partial Verdict: PASS
0:02:22.211999	LOG	==========
0:02:22.216995	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_004
0:02:22.219993	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_005	
Verdict	PASS	
Date	2021-10-18 00:00:21	
Comments	DevStatusReq MAC command	
Technology Version	LCTT v3.1.0_D1 | GUI v1.10.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.1	
Test Specs Version	USv1.5.1/EUv1.6/KRv1.2.1/ASv1.1.1/INv1.1.1/ALLv1.1	
Project	MLSv2.0.0	
Project Creation Date	2021-10-17 22:25:22	
Sample	DevID:SAMR34-XPRO | AppID:CertApp_EU_ABP | SW:MLSv2.0.0 | HW:SAMR34J18B	
Parameters	Conformance	TRUE

Time Stamp (ms)	Event	Summary
0:00:00.015017	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_005
0:00:00.048980	LOG	==========
0:00:00.050978	LOG	Start Test Step: Device activation
0:00:00.109946	LOG	Activation process has finished successfully
0:00:00.111944	LOG	Data stored in the DUT after Activation:
0:00:00.113943	LOG	DevAddr: 20202020

0:00:00.116941	LOG	AppEUI: abcdabcdabcdabcd
0:00:00.118940	LOG	NwkSKey: abcdabcdabcdabcdabcdabcdabcdabcd
0:00:00.121938	LOG	AppSKey: 12345678123456781234567812345678
0:00:00.124937	LOG	End Test Step: Device activation
0:00:00.128935	LOG	Partial Verdict: PASS
0:00:00.133931	LOG	==========
0:00:00.138929	LOG	==========
0:00:00.141927	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.154919	LOG	DUT Pre-condition activation process starts
0:00:00.157918	LOG	DUT Pre-condition activation completed
0:00:00.160916	LOG	End Test Step: DUT Pre-condition settings
0:00:00.164914	LOG	Partial Verdict: PASS
0:00:00.167912	LOG	==========
0:00:00.172909	LOG	==========
0:00:00.174909	LOG	Start Test Step: DevStatusReq MAC command
0:00:00.186901	LOG	Send DevStatusReq process starts
0:00:02.093847	LOG	PUSH_DATA received while waiting first PULL_DATA
0:00:04.238597	LOG	PULL_DATA: 02 02f4 02 aa555a0000240409
0:00:04.240596	LOG	PULL_ACK: 02 02f4 04
0:00:04.242595	LOG	First PULL_DATA received
0:00:07.091976	LOG	PUSH_ACK: 02 00d8 01
0:00:07.097975	LOG	PUSH_DATA: Protocol version = 02, Token = 00d8, Identifier = 00, JSON = {'rxpk': [{'tmst': 3233556395, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAVQAB8JywtgNF'}]}
0:00:07.101970	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0055, FOpts:), FPort: 01, FRMPayload: 0014, MIC: b0b60345)
0:00:07.104969	LOG	Server <---------- DUT
0:00:07.109966	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0118, FOpts:), FPort: 00, FRMPayload: 06), MIC: 1d5bd9a0)
0:00:07.114963	LOG	PULL_RESP: Protocol version = 02, Token = 30dc, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3235556395, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAAGAEAVR1b2aA='}}
0:00:07.116960	LOG	Server ----------> DUT
0:00:07.118959	LOG	TX_ACK: 02 30dc 05 aa555a0000240409
0:00:12.058150	LOG	PUSH_ACK: 02 00d9 01
0:00:12.060149	LOG	PUSH_DATA: Protocol version = 02, Token = 00d9, Identifier = 00, JSON = {'rxpk': [{'tmst': 3238564118, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -44, 'size': 18, 'data': 'QCAgICCDVgAGAAYBy+5BhzwR'}]}
0:00:12.062148	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 83, FCnt: 0056, FOpts: 060006), FPort: 01, FRMPayload: 0014, MIC: 41873c11)
0:00:12.063147	LOG	Server <---------- DUT
0:00:12.065147	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:12.066147	LOG	Command Answer: 060006
0:00:12.070144	LOG	Battery level (byte value) 00
0:00:12.071143	LOG	Radio Status (byte value) 06
0:00:12.074142	LOG	MAC command communication completed
0:00:12.079139	LOG	End Test Step: DevStatusReq MAC command
0:00:12.084136	LOG	Partial Verdict: PASS
0:00:12.089132	LOG	==========
0:00:12.096128	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_005
0:00:12.098128	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_006	
Verdict	PASS	
Date	2021-10-18 00:00:36	
Comments	NewChannelReq MAC command for Dynamic Channel plan devices only	
Technology Version	LCTT v3.1.0_D1 | GUI v1.10.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.1	
Test Specs Version	USv1.5.1/EUv1.6/KRv1.2.1/ASv1.1.1/INv1.1.1/ALLv1.1	
Project	MLSv2.0.0	
Project Creation Date	2021-10-17 22:25:22	
Sample	DevID:SAMR34-XPRO | AppID:CertApp_EU_ABP | SW:MLSv2.0.0 | HW:SAMR34J18B	
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

Time Stamp (ms)	Event	Summary
0:00:00.011850	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_006
0:00:00.052826	LOG	==========
0:00:00.055825	LOG	Start Test Step: Device activation
0:00:00.118789	LOG	Activation process has finished successfully
0:00:00.120806	LOG	Data stored in the DUT after Activation:
0:00:00.124785	LOG	DevAddr: 20202020
0:00:00.127785	LOG	AppEUI: abcdabcdabcdabcd
0:00:00.130784	LOG	NwkSKey: abcdabcdabcdabcdabcdabcdabcdabcd
0:00:00.132782	LOG	AppSKey: 12345678123456781234567812345678
0:00:00.136797	LOG	End Test Step: Device activation
0:00:00.140777	LOG	Partial Verdict: PASS
0:00:00.145775	LOG	==========
0:00:00.150771	LOG	==========
0:00:00.152771	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.165762	LOG	DUT Pre-condition activation process starts
0:00:00.169762	LOG	DUT Pre-condition activation completed
0:00:00.172760	LOG	End Test Step: DUT Pre-condition settings
0:00:00.176756	LOG	Partial Verdict: PASS
0:00:00.181753	LOG	==========
0:00:00.185751	LOG	==========
0:00:00.188749	LOG	Start Test Step: Read-only default channels
0:00:00.198743	LOG	Send MAC command block process starts
0:00:07.223748	LOG	PUSH_DATA received while waiting first PULL_DATA
0:00:09.453480	LOG	PULL_DATA: 02 7216 02 aa555a0000240409
0:00:09.455480	LOG	PULL_ACK: 02 7216 04
0:00:09.457478	LOG	First PULL_DATA received
0:00:12.216908	LOG	PUSH_ACK: 02 00dc 01
0:00:12.218907	LOG	PUSH_DATA: Protocol version = 02, Token = 00dc, Identifier = 00, JSON = {'rxpk': [{'tmst': 3253566726, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAWAAB/2DGWcZ4'}]}
0:00:12.220909	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0058, FOpts:), FPort: 01, FRMPayload: 0014, MIC: c659c678)
0:00:12.221907	LOG	Server <---------- DUT

0:00:12.223905	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0119, FOpts:), FPort: 00, FRMPayload: 0700184f84500701184f84500702184f8450), MIC: 184764f8)
0:00:12.227904	LOG	PULL_RESP: Protocol version = 02, Token = 3d75, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3255566726, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 31, 'data': 'YCAgICAAGQEAJjwCrmWC/WZIXTJGOhxpHKPOGEdk+A=='}}
0:00:12.229902	LOG	Server ----------> DUT
0:00:12.232899	LOG	TX_ACK: 02 3d75 05 aa555a0000240409
0:00:17.213067	LOG	PUSH_ACK: 02 00dd 01
0:00:17.215067	LOG	PUSH_DATA: Protocol version = 02, Token = 00dd, Identifier = 00, JSON = {'rxpk': [{'tmst': 3258579614, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -47, 'size': 21, 'data': 'QCAgICCGWQAHAAcABwABea7+Xu62'}]}
0:00:17.217065	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 86, FCnt: 0059, FOpts: 070007000700), FPort: 01, FRMPayload: 0014, MIC: fe5eeeb6)
0:00:17.218064	LOG	Server <---------- DUT
0:00:17.220063	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:17.222062	LOG	Command Answer: 070007000700
0:00:17.291025	LOG	MAC command communication completed
0:00:17.294023	LOG	End Test Step: Read-only default channels
0:00:17.298019	LOG	Partial Verdict: PASS
0:00:17.302018	LOG	==========
0:00:17.307014	LOG	==========
0:00:17.311011	LOG	Start Test Step: Addition of a single channel
0:00:17.327003	LOG	Send NewChannelReq process starts
0:00:19.582719	LOG	PULL_DATA: 02 ecf3 02 aa555a0000240409
0:00:19.585718	LOG	PULL_ACK: 02 ecf3 04
0:00:27.186395	LOG	PUSH_ACK: 02 00de 01
0:00:27.189395	LOG	PUSH_DATA: Protocol version = 02, Token = 00de, Identifier = 00, JSON = {'rxpk': [{'tmst': 3268574446, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAWgAB3an6ps70'}]}
0:00:27.190393	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 005a, FOpts:), FPort: 01, FRMPayload: 0014, MIC: faa6cef4)
0:00:27.192393	LOG	Server <---------- DUT
0:00:27.194392	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 011a, FOpts:), FPort: 00, FRMPayload: 070f88668450), MIC: 2a878ef2)
0:00:27.197389	LOG	PULL_RESP: Protocol version = 02, Token = c17f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3270574446, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YCAgICAAGgEAUYSxFxLdKoeO8g=='}}
0:00:27.199388	LOG	Server ----------> DUT
0:00:27.203385	LOG	TX_ACK: 02 c17f 05 aa555a0000240409
0:00:29.723067	LOG	PULL_DATA: 02 014d 02 aa555a0000240409
0:00:29.726066	LOG	PULL_ACK: 02 014d 04
0:00:32.200717	LOG	PUSH_ACK: 02 00df 01
0:00:32.203715	LOG	PUSH_DATA: Protocol version = 02, Token = 00df, Identifier = 00, JSON = {'rxpk': [{'tmst': 3273582157, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -47, 'size': 17, 'data': 'QCAgICCCWwAHAwECWLiS9dI='}]}
0:00:32.205715	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 005b, FOpts: 0703), FPort: 01, FRMPayload: 0014, MIC: b892f5d2)
0:00:32.208712	LOG	Server <---------- DUT

0:00:32.210711	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:32.212711	LOG	Command Answer: 0703
0:00:32.219706	LOG	MAC command communication completed
0:00:32.221705	LOG	Receive frame on specific channels process starts
0:00:32.227702	LOG	Attempt 1/20
0:00:39.803393	LOG	PULL_DATA: 02 f000 02 aa555a0000240409
0:00:39.804393	LOG	PULL_ACK: 02 f000 04
0:00:42.190036	LOG	PUSH_ACK: 02 00e1 01
0:00:42.192035	LOG	PUSH_DATA: Protocol version = 02, Token = 00e1, Identifier = 00, JSON = {'rxpk': [{'tmst': 3283582165, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAXAABDmFfsiEK'}]}
0:00:42.193034	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 005c, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 5fb2210a)
0:00:42.195033	LOG	Server <---------- DUT
0:00:42.197032	LOG	Attempt 2/20
0:00:47.231169	LOG	PUSH_ACK: 02 00e2 01
0:00:47.233169	LOG	PUSH_DATA: Protocol version = 02, Token = 00e2, Identifier = 00, JSON = {'rxpk': [{'tmst': 3288584733, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -47, 'size': 15, 'data': 'QCAgICCAXQABMtXkmy/5'}]}
0:00:47.235167	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 005d, FOpts:), FPort: 01, FRMPayload: 0014, MIC: e49b2ff9)
0:00:47.236167	LOG	Server <---------- DUT
0:00:47.238165	LOG	Attempt 3/20
0:00:49.902650	LOG	PULL_DATA: 02 108b 02 aa555a0000240409
0:00:49.904648	LOG	PULL_ACK: 02 108b 04
0:00:52.221331	LOG	PUSH_ACK: 02 00e3 01
0:00:52.223330	LOG	PUSH_DATA: Protocol version = 02, Token = 00e3, Identifier = 00, JSON = {'rxpk': [{'tmst': 3293587293, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAXgABfSU7U2nU'}]}
0:00:52.225329	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 005e, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 3b5369d4)
0:00:52.228327	LOG	Server <---------- DUT
0:00:52.230326	LOG	Attempt 4/20
0:00:57.211493	LOG	PUSH_ACK: 02 00e4 01
0:00:57.213492	LOG	PUSH_DATA: Protocol version = 02, Token = 00e4, Identifier = 00, JSON = {'rxpk': [{'tmst': 3298589862, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAXwABPf5G2+Lt'}]}
0:00:57.214492	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 005f, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 46dbe2ed)
0:00:57.215491	LOG	Server <---------- DUT
0:00:57.218489	LOG	Receive frame on specific channels process tested successfully
0:00:57.221487	LOG	End Test Step: Addition of a single channel
0:00:57.224486	LOG	Partial Verdict: PASS
0:00:57.228483	LOG	==========
0:00:57.233482	LOG	==========
0:00:57.235479	LOG	Start Test Step: Removal of a single channel
0:00:57.250473	LOG	Send NewChannelReq process starts
0:00:59.982917	LOG	PULL_DATA: 02 67cf 02 aa555a0000240409
0:00:59.987914	LOG	PULL_ACK: 02 67cf 04
0:01:02.200656	LOG	PUSH_ACK: 02 00e5 01

0:01:02.202655	LOG	PUSH_DATA: Protocol version = 02, Token = 00e5, Identifier = 00, JSON = {'rxpk': [{'tmst': 3303592430, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAYAABUy8d1f9s'}]}
0:01:02.203654	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0060, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 1dd5ff6c)
0:01:02.205653	LOG	Server <---------- DUT
0:01:02.207652	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 011b, FOpts:), FPort: 00, FRMPayload: 070f00000050), MIC: 4e294d8d)
0:01:02.209652	LOG	PULL_RESP: Protocol version = 02, Token = 3fe6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3305592430, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YCAgICAAGwEAbGnclpo5TilNjQ=='}}
0:01:02.211651	LOG	Server ----------> DUT
0:01:02.216646	LOG	TX_ACK: 02 3fe6 05 aa555a0000240409
0:01:07.218803	LOG	PUSH_ACK: 02 00e7 01
0:01:07.220801	LOG	PUSH_DATA: Protocol version = 02, Token = 00e7, Identifier = 00, JSON = {'rxpk': [{'tmst': 3308600127, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -43, 'size': 17, 'data': 'QCAgICCCYQAHAwFYEpaBA/A='}]}
0:01:07.222800	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0061, FOpts: 0703), FPort: 01, FRMPayload: 0014, MIC: 968103f0)
0:01:07.223800	LOG	Server <---------- DUT
0:01:07.225799	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:07.226800	LOG	Command Answer: 0703
0:01:07.231794	LOG	MAC command communication completed
0:01:07.234793	LOG	Receive frame on specific channels process starts
0:01:07.280767	LOG	Attempt 1/15
0:01:10.193110	LOG	PULL_DATA: 02 9950 02 aa555a0000240409
0:01:10.195110	LOG	PULL_ACK: 02 9950 04
0:01:17.244101	LOG	PUSH_ACK: 02 00e8 01
0:01:17.247102	LOG	PUSH_DATA: Protocol version = 02, Token = 00e8, Identifier = 00, JSON = {'rxpk': [{'tmst': 3318600175, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAYgABJ6VyRg2a'}]}
0:01:17.248102	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0062, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 72460d9a)
0:01:17.250097	LOG	Server <---------- DUT
0:01:17.251096	LOG	Attempt 2/15
0:01:20.272377	LOG	PULL_DATA: 02 5b17 02 aa555a0000240409
0:01:20.274377	LOG	PULL_ACK: 02 5b17 04
0:01:22.233263	LOG	PUSH_ACK: 02 00e9 01
0:01:22.235262	LOG	PUSH_DATA: Protocol version = 02, Token = 00e9, Identifier = 00, JSON = {'rxpk': [{'tmst': 3323602743, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAYwABizRGX0N7'}]}
0:01:22.236261	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0063, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 465f437b)
0:01:22.237260	LOG	Server <---------- DUT
0:01:22.238260	LOG	Attempt 3/15
0:01:27.222425	LOG	PUSH_ACK: 02 00ea 01
0:01:27.224424	LOG	PUSH_DATA: Protocol version = 02, Token = 00ea, Identifier = 00, JSON = {'rxpk': [{'tmst': 3328605407, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAZAABQp+boEMw'}]}

0:01:27.225423	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0064, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 9ba04330)
0:01:27.226423	LOG	Server <---------- DUT
0:01:27.228422	LOG	Attempt 4/15
0:01:30.352645	LOG	PULL_DATA: 02 9f8e 02 aa555a0000240409
0:01:30.357642	LOG	PULL_ACK: 02 9f8e 04
0:01:32.324524	LOG	PUSH_ACK: 02 00ec 01
0:01:32.376494	LOG	PUSH_DATA: Protocol version = 02, Token = 00ec, Identifier = 00, JSON = {'rxpk': [{'tmst': 3333607967, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAZQABzSRIoF7R'}]}
0:01:32.378494	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0065, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 48a05ed1)
0:01:32.379513	LOG	Server <---------- DUT
0:01:32.381493	LOG	Attempt 5/15
0:01:37.262330	LOG	PUSH_ACK: 02 00ed 01
0:01:37.264331	LOG	PUSH_DATA: Protocol version = 02, Token = 00ed, Identifier = 00, JSON = {'rxpk': [{'tmst': 3338610535, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAZgABzTHMVuIw'}]}
0:01:37.266326	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0066, FOpts:), FPort: 01, FRMPayload: 0014, MIC: cc56e230)
0:01:37.267325	LOG	Server <---------- DUT
0:01:37.268324	LOG	Attempt 6/15
0:01:40.432523	LOG	PULL_DATA: 02 d498 02 aa555a0000240409
0:01:40.434523	LOG	PULL_ACK: 02 d498 04
0:01:42.253488	LOG	PUSH_ACK: 02 00ee 01
0:01:42.255487	LOG	PUSH_DATA: Protocol version = 02, Token = 00ee, Identifier = 00, JSON = {'rxpk': [{'tmst': 3343613103, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAZwABrGMYLdDH'}]}
0:01:42.257486	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0067, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 182dd0c7)
0:01:42.258485	LOG	Server <---------- DUT
0:01:42.261484	LOG	Attempt 7/15
0:01:47.243925	LOG	PUSH_ACK: 02 00ef 01
0:01:47.245924	LOG	PUSH_DATA: Protocol version = 02, Token = 00ef, Identifier = 00, JSON = {'rxpk': [{'tmst': 3348615671, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAaAABmtzMdmGv'}]}
0:01:47.246924	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0068, FOpts:), FPort: 01, FRMPayload: 0014, MIC: cc7661af)
0:01:47.248923	LOG	Server <---------- DUT
0:01:47.249923	LOG	Attempt 8/15
0:01:50.512067	LOG	PULL_DATA: 02 0a61 02 aa555a0000240409
0:01:50.514066	LOG	PULL_ACK: 02 0a61 04
0:01:52.234088	LOG	PUSH_ACK: 02 00f0 01
0:01:52.236086	LOG	PUSH_DATA: Protocol version = 02, Token = 00f0, Identifier = 00, JSON = {'rxpk': [{'tmst': 3353618247, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAaQABiBk/n1dA'}]}
0:01:52.237086	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0069, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 3f9f5740)
0:01:52.238085	LOG	Server <---------- DUT
0:01:52.240085	LOG	Attempt 9/15
0:01:57.275221	LOG	PUSH_ACK: 02 00f1 01

0:01:57.277219	LOG	PUSH_DATA: Protocol version = 02, Token = 00f1, Identifier = 00, JSON = {'rxpk': [{'tmst': 3358620823, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAagABBuFAG0Cj'}]}
0:01:57.278219	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 006a, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 401b40a3)
0:01:57.279218	LOG	Server <---------- DUT
0:01:57.280218	LOG	Attempt 10/15
0:02:00.592522	LOG	PULL_DATA: 02 03d1 02 aa555a0000240409
0:02:00.597520	LOG	PULL_ACK: 02 03d1 04
0:02:02.266570	LOG	PUSH_ACK: 02 00f2 01
0:02:02.268570	LOG	PUSH_DATA: Protocol version = 02, Token = 00f2, Identifier = 00, JSON = {'rxpk': [{'tmst': 3363623407, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAawABRO2OZ9nn'}], 'stat': {'time': '2021-05-14 04:00:33 GMT', 'rxnb': 6, 'rxok': 6, 'rxfw': 6, 'ackr': 85.7, 'dwnb': 0, 'txnb': 0}}
0:02:02.269570	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 006b, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 8e67d9e7)
0:02:02.270570	LOG	Server <---------- DUT
0:02:02.271569	LOG	Attempt 11/15
0:02:07.254734	LOG	PUSH_ACK: 02 00f3 01
0:02:07.256733	LOG	PUSH_DATA: Protocol version = 02, Token = 00f3, Identifier = 00, JSON = {'rxpk': [{'tmst': 3368625975, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAbAABz404Ha30'}]}
0:02:07.258731	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 006c, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 381dadf4)
0:02:07.260730	LOG	Server <---------- DUT
0:02:07.262729	LOG	Attempt 12/15
0:02:10.672459	LOG	PULL_DATA: 02 bca7 02 aa555a0000240409
0:02:10.673461	LOG	PULL_ACK: 02 bca7 04
0:02:12.244567	LOG	PUSH_ACK: 02 00f4 01
0:02:12.246566	LOG	PUSH_DATA: Protocol version = 02, Token = 00f4, Identifier = 00, JSON = {'rxpk': [{'tmst': 3373628543, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAbQABvShgwrcw'}]}
0:02:12.247565	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 006d, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 60c2b730)
0:02:12.248565	LOG	Server <---------- DUT
0:02:12.249565	LOG	Attempt 13/15
0:02:17.284528	LOG	PUSH_ACK: 02 00f5 01
0:02:17.286527	LOG	PUSH_DATA: Protocol version = 02, Token = 00f5, Identifier = 00, JSON = {'rxpk': [{'tmst': 3378631095, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAbgABGSetBz9e'}]}
0:02:17.287526	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 006e, FOpts:), FPort: 01, FRMPayload: 0014, MIC: ad073f5e)
0:02:17.289526	LOG	Server <---------- DUT
0:02:17.290525	LOG	Attempt 14/15
0:02:20.752556	LOG	PULL_DATA: 02 0dbe 02 aa555a0000240409
0:02:20.754555	LOG	PULL_ACK: 02 0dbe 04
0:02:22.272692	LOG	PUSH_ACK: 02 00f6 01
0:02:22.275690	LOG	PUSH_DATA: Protocol version = 02, Token = 00f6, Identifier = 00, JSON = {'rxpk': [{'tmst': 3383633671, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAbwAB3xZu86Wr'}]}

0:02:22.276689	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 006f, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 6ef3a5ab)
0:02:22.278689	LOG	Server <---------- DUT
0:02:22.279687	LOG	Attempt 15/15
0:02:27.261937	LOG	PUSH_ACK: 02 00f7 01
0:02:27.263937	LOG	PUSH_DATA: Protocol version = 02, Token = 00f7, Identifier = 00, JSON = {'rxpk': [{'tmst': 3388636231, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAcAAB+h+eP2mv'}]}
0:02:27.265934	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0070, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 9e3f69af)
0:02:27.266933	LOG	Server <---------- DUT
0:02:27.271931	LOG	Receive frame on specific channels process tested successfully
0:02:27.273932	LOG	End Test Step: Removal of a single channel
0:02:27.276930	LOG	Partial Verdict: PASS
0:02:27.281926	LOG	==========
0:02:27.286941	LOG	==========
0:02:27.289923	LOG	Start Test Step: Adding multiple channels 1
0:02:27.304913	LOG	Send MAC command block process starts
0:02:30.831940	LOG	PULL_DATA: 02 9bbf 02 aa555a0000240409
0:02:30.836938	LOG	PULL_ACK: 02 9bbf 04
0:02:32.250103	LOG	PUSH_ACK: 02 00f8 01
0:02:32.255100	LOG	PUSH_DATA: Protocol version = 02, Token = 00f8, Identifier = 00, JSON = {'rxpk': [{'tmst': 3393638799, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAcQABa1zAxNbv'}], 'stat': {'time': '2021-05-14 04:01:04 GMT', 'rxnb': 6, 'rxok': 6, 'rxfw': 6, 'ackr': 100.0, 'dwnb': 0, 'txnb': 0}}
0:02:32.259098	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0071, FOpts:), FPort: 01, FRMPayload: 0014, MIC: c0c4d6ef)
0:02:32.264096	LOG	Server <---------- DUT
0:02:32.269093	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 011c, FOpts:), FPort: 00, FRMPayload: 0703184f84500704e85684500705b85e8450070688668450070758 6e8450), MIC: 41d878d2)
0:02:32.276088	LOG	PULL_RESP: Protocol version = 02, Token = ff64, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3395638799, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 43, 'data': 'YCAgICAAHAEAqi24fpShsPZa985VYA62UP6jF7ZLeMGHXL10F9i8Qdh40g==='}}
0:02:32.278087	LOG	Server ----------> DUT
0:02:32.281084	LOG	TX_ACK: 02 ff64 05 aa555a0000240409
0:02:37.311314	LOG	PUSH_ACK: 02 00f9 01
0:02:37.313314	LOG	PUSH_DATA: Protocol version = 02, Token = 00f9, Identifier = 00, JSON = {'rxpk': [{'tmst': 3398656849, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -43, 'size': 25, 'data': 'QCAgICCKcgAHAwcDBwMHAwcDAVasbG482Q=='}]}
0:02:37.314313	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 8a, FCnt: 0072, FOpts: 07030703070307030703), FPort: 01, FRMPayload: 0014, MIC: 6c6e3cd9)
0:02:37.315313	LOG	Server <---------- DUT
0:02:37.316312	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:37.318311	LOG	Command Answer: 07030703070307030703
0:02:37.428267	LOG	MAC command communication completed
0:02:37.431248	LOG	End Test Step: Adding multiple channels 1

0:02:37.434247	LOG	Partial Verdict: PASS
0:02:37.438244	LOG	==========
0:02:37.443240	LOG	==========
0:02:37.446240	LOG	Start Test Step: Adding multiple channels 2
0:02:37.458250	LOG	Send MAC command block process starts
0:02:40.882406	LOG	PULL_DATA: 02 ab0e 02 aa555a0000240409
0:02:40.883408	LOG	PULL_ACK: 02 ab0e 04
0:02:47.283953	LOG	PUSH_ACK: 02 00fa 01
0:02:47.285952	LOG	PUSH_DATA: Protocol version = 02, Token = 00fa, Identifier = 00, JSON = {'rxpk': [{'tmst': 3408646552, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAcwABMPGFphzR'}]}
0:02:47.286950	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0073, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 85a61cd1)
0:02:47.288949	LOG	Server <---------- DUT
0:02:47.290949	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 011d, FOpts:), FPort: 00, FRMPayload: 0708586e845007098866845007 0ab85e8450070be8568450070c184f8450), MIC: 15fb5f65)
0:02:47.293946	LOG	PULL_RESP: Protocol version = 02, Token = b68d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3410646552, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 43, 'data': 'YCAgICAAHQEAbF7nXcg06iMEU6tD97hDD32mGbQMGFwxRLPSLrS+FftfZQ=='}}
0:02:47.294946	LOG	Server ----------> DUT
0:02:47.299945	LOG	TX_ACK: 02 b68d 05 aa555a0000240409
0:02:51.071798	LOG	PULL_DATA: 02 d598 02 aa555a0000240409
0:02:51.073797	LOG	PULL_ACK: 02 d598 04
0:02:52.322087	LOG	PUSH_ACK: 02 00fb 01
0:02:52.324086	LOG	PUSH_DATA: Protocol version = 02, Token = 00fb, Identifier = 00, JSON = {'rxpk': [{'tmst': 3413664596, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -43, 'size': 25, 'data': 'QCAgICCKdAAHAwcDBwMHAwcDAfPibIVuAg=='}]}
0:02:52.326085	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 8a, FCnt: 0074, FOpts: 07030703070307030703), FPort: 01, FRMPayload: 0014, MIC: 6c856e02)
0:02:52.327084	LOG	Server <---------- DUT
0:02:52.329083	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:52.331082	LOG	Command Answer: 07030703070307030703
0:02:52.438021	LOG	MAC command communication completed
0:02:52.441019	LOG	End Test Step: Adding multiple channels 2
0:02:52.444017	LOG	Partial Verdict: PASS
0:02:52.449015	LOG	==========
0:02:52.454012	LOG	==========
0:02:52.457010	LOG	Start Test Step: Adding multiple channels 3
0:02:52.471002	LOG	Send MAC command block process starts
0:03:01.152159	LOG	PULL_DATA: 02 01d6 02 aa555a0000240409
0:03:01.157157	LOG	PULL_ACK: 02 01d6 04
0:03:02.365469	LOG	PUSH_ACK: 02 00fd 01
0:03:02.367469	LOG	PUSH_DATA: Protocol version = 02, Token = 00fd, Identifier = 00, JSON = {'rxpk': [{'tmst': 3423654300, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAdQABOcB+Dja7'}]}

0:03:02.369469	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0075, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 7e0e36bb)
0:03:02.370469	LOG	Server <---------- DUT
0:03:02.372466	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 011e, FOpts:), FPort: 00, FRMPayload: 070dc8858450070ef87d8450070f28768450), MIC: 1b99ca2b)
0:03:02.374464	LOG	PULL_RESP: Protocol version = 02, Token = 1ad5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3425654300, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 31, 'data': 'YCAgICAAHgEAwbzfVeXlEV2XllaNsn5OGzZKG5nKKw=='}}
0:03:02.375465	LOG	Server ----------> DUT
0:03:02.380461	LOG	TX_ACK: 02 1ad5 05 aa555a0000240409
0:03:07.300663	LOG	PUSH_ACK: 02 00fe 01
0:03:07.305661	LOG	PUSH_DATA: Protocol version = 02, Token = 00fe, Identifier = 00, JSON = {'rxpk': [{'tmst': 3428667190, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -44, 'size': 21, 'data': 'QCAgICCGdgAHAwcDBwMBMNtVAHnc'}]}
0:03:07.308660	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 86, FCnt: 0076, FOpts: 070307030703), FPort: 01, FRMPayload: 0014, MIC: 550079dc)
0:03:07.311657	LOG	Server <---------- DUT
0:03:07.314655	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:03:07.316654	LOG	Command Answer: 070307030703
0:03:07.386633	LOG	MAC command communication completed
0:03:07.389614	LOG	End Test Step: Adding multiple channels 3
0:03:07.392612	LOG	Partial Verdict: PASS
0:03:07.396609	LOG	==========
0:03:07.401624	LOG	==========
0:03:07.403622	LOG	Start Test Step: Checking channel usage 12 to 15
0:03:07.412599	LOG	Send LinkADRReq process starts
0:03:11.202444	LOG	PULL_DATA: 02 e5f2 02 aa555a0000240409
0:03:11.204443	LOG	PULL_ACK: 02 e5f2 04
0:03:12.291824	LOG	PUSH_ACK: 02 00ff 01
0:03:12.293823	LOG	PUSH_DATA: Protocol version = 02, Token = 00ff, Identifier = 00, JSON = {'rxpk': [{'tmst': 3433659455, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAdwABsdexFOh9'}]}
0:03:12.296821	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0077, FOpts:), FPort: 01, FRMPayload: 0014, MIC: b114e87d)
0:03:12.297821	LOG	Server <---------- DUT
0:03:12.299820	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 011f, FOpts:), FPort: 00, FRMPayload: 035000f001), MIC: e2c85b4a)
0:03:12.302818	LOG	PULL_RESP: Protocol version = 02, Token = 9412, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3435659455, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAHwEAmwnagGjiyFtK'}}
0:03:12.304817	LOG	Server ----------> DUT
0:03:12.308816	LOG	TX_ACK: 02 9412 05 aa555a0000240409
0:03:17.283985	LOG	PUSH_ACK: 02 0100 01
0:03:17.285984	LOG	PUSH_DATA: Protocol version = 02, Token = 0100, Identifier = 00, JSON = {'rxpk': [{'tmst': 3438667129, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -44, 'size': 17, 'data': 'QCAgICCCeAADBwGWVb2cYSw='}]}
0:03:17.287985	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0078, FOpts: 0307), FPort: 01, FRMPayload: 0014, MIC: bd9c612c)
0:03:17.288982	LOG	Server <---------- DUT

0:03:17.289982	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:03:17.290983	LOG	Command Answer: 0307
0:03:17.296978	LOG	MAC command communication completed
0:03:17.300977	LOG	Receive frame on specific channels process starts
0:03:17.315967	LOG	Attempt 1/20
0:03:21.331788	LOG	PULL_DATA: 02 d6f6 02 aa555a0000240409
0:03:21.333757	LOG	PULL_ACK: 02 d6f6 04
0:03:22.273222	LOG	PUSH_ACK: 02 0101 01
0:03:22.275221	LOG	PUSH_DATA: Protocol version = 02, Token = 0101, Identifier = 00, JSON = {'rxpk': [{'tmst': 3443664593, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAeQAB+3h42qE0'}]}
0:03:22.276222	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0079, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 78daa134)
0:03:22.278221	LOG	Server <---------- DUT
0:03:22.279219	LOG	Attempt 2/20
0:03:27.315358	LOG	PUSH_ACK: 02 0103 01
0:03:27.317355	LOG	PUSH_DATA: Protocol version = 02, Token = 0103, Identifier = 00, JSON = {'rxpk': [{'tmst': 3448667153, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAegABuRxztg/m'}]}
0:03:27.321353	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 007a, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 73b60fe6)
0:03:27.325351	LOG	Server <---------- DUT
0:03:27.329356	LOG	Attempt 3/20
0:03:31.412024	LOG	PULL_DATA: 02 7d3e 02 aa555a0000240409
0:03:31.417022	LOG	PULL_ACK: 02 7d3e 04
0:03:32.363484	LOG	PUSH_ACK: 02 0105 01
0:03:32.365482	LOG	PUSH_DATA: Protocol version = 02, Token = 0105, Identifier = 00, JSON = {'rxpk': [{'tmst': 3453669737, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAewABsnhbjxVZ'}]}
0:03:32.367481	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 007b, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 5b8f1559)
0:03:32.368483	LOG	Server <---------- DUT
0:03:32.369482	LOG	Attempt 4/20
0:03:37.300883	LOG	PUSH_ACK: 02 0106 01
0:03:37.303881	LOG	PUSH_DATA: Protocol version = 02, Token = 0106, Identifier = 00, JSON = {'rxpk': [{'tmst': 3458672289, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAfAABR7hxAWNG'}]}
0:03:37.305881	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 007c, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 71016346)
0:03:37.306879	LOG	Server <---------- DUT
0:03:37.307879	LOG	Attempt 5/20
0:03:41.491650	LOG	PULL_DATA: 02 c516 02 aa555a0000240409
0:03:41.493650	LOG	PULL_ACK: 02 c516 04
0:03:42.293213	LOG	PUSH_ACK: 02 0107 01
0:03:42.298193	LOG	PUSH_DATA: Protocol version = 02, Token = 0107, Identifier = 00, JSON = {'rxpk': [{'tmst': 3463674857, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAfQABhIVAeD7n'}]}
0:03:42.300197	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 007d, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 40783ee7)
0:03:42.301196	LOG	Server <---------- DUT

0:03:42.302196	LOG	Attempt 6/20
0:03:47.286362	LOG	PUSH_ACK: 02 0108 01
0:03:47.290357	LOG	PUSH_DATA: Protocol version = 02, Token = 0108, Identifier = 00, JSON = {'rxpk': [{'tmst': 3468677433, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAfgAB36i3MaYj'}]}
0:03:47.294352	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 007e, FOpts:), FPort: 01, FRMPayload: 0014, MIC: b731a623)
0:03:47.297351	LOG	Server <---------- DUT
0:03:47.301350	LOG	Attempt 7/20
0:03:51.572032	LOG	PULL_DATA: 02 8e21 02 aa555a0000240409
0:03:51.574031	LOG	PULL_ACK: 02 8e21 04
0:03:52.329603	LOG	PUSH_ACK: 02 0109 01
0:03:52.331602	LOG	PUSH_DATA: Protocol version = 02, Token = 0109, Identifier = 00, JSON = {'rxpk': [{'tmst': 3473679985, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAfwAB2BYCJX/p'}]}
0:03:52.332600	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 007f, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 02257fe9)
0:03:52.333601	LOG	Server <---------- DUT
0:03:52.334600	LOG	Attempt 8/20
0:03:57.319346	LOG	PUSH_ACK: 02 010a 01
0:03:57.321345	LOG	PUSH_DATA: Protocol version = 02, Token = 010a, Identifier = 00, JSON = {'rxpk': [{'tmst': 3478682561, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAgAABn7WtXjgh'}]}
0:03:57.322344	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0080, FOpts:), FPort: 01, FRMPayload: 0014, MIC: ad5e3821)
0:03:57.323343	LOG	Server <---------- DUT
0:03:57.325342	LOG	Attempt 9/20
0:04:01.651252	LOG	PULL_DATA: 02 2e2d 02 aa555a0000240409
0:04:01.656249	LOG	PULL_ACK: 02 2e2d 04
0:04:02.374845	LOG	PUSH_ACK: 02 010c 01
0:04:02.376841	LOG	PUSH_DATA: Protocol version = 02, Token = 010c, Identifier = 00, JSON = {'rxpk': [{'tmst': 3483685129, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -47, 'size': 15, 'data': 'QCAgICCAgQABXNEjDRkc'}]}
0:04:02.377840	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0081, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 230d191c)
0:04:02.378839	LOG	Server <---------- DUT
0:04:02.380839	LOG	Attempt 10/20
0:04:07.313940	LOG	PUSH_ACK: 02 010d 01
0:04:07.315940	LOG	PUSH_DATA: Protocol version = 02, Token = 010d, Identifier = 00, JSON = {'rxpk': [{'tmst': 3488687689, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAggABG7xoZ2bu'}]}
0:04:07.316938	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0082, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 686766ee)
0:04:07.317939	LOG	Server <---------- DUT
0:04:07.319938	LOG	Attempt 11/20
0:04:11.731427	LOG	PULL_DATA: 02 af02 02 aa555a0000240409
0:04:11.733427	LOG	PULL_ACK: 02 af02 04
0:04:12.304103	LOG	PUSH_ACK: 02 010e 01
0:04:12.305103	LOG	PUSH_DATA: Protocol version = 02, Token = 010e, Identifier = 00, JSON = {'rxpk': [{'tmst': 3493690257, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAgwABVCtFz900'}]}
0:04:12.307101	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0083, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 45cfdd34)
0:04:12.308100	LOG	Server <---------- DUT
0:04:12.309099	LOG	Attempt 12/20
0:04:17.344916	LOG	PUSH_ACK: 02 010f 01
0:04:17.347915	LOG	PUSH_DATA: Protocol version = 02, Token = 010f, Identifier = 00, JSON = {'rxpk': [{'tmst': 3498692825, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAhAABrdpgxjia'}]}
0:04:17.348916	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0084, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 60c6389a)
0:04:17.350914	LOG	Server <---------- DUT
0:04:17.351912	LOG	Attempt 13/20
0:04:21.811547	LOG	PULL_DATA: 02 c6b9 02 aa555a0000240409
0:04:21.813547	LOG	PULL_ACK: 02 c6b9 04
0:04:22.336249	LOG	PUSH_ACK: 02 0110 01
0:04:22.338248	LOG	PUSH_DATA: Protocol version = 02, Token = 0110, Identifier = 00, JSON = {'rxpk': [{'tmst': 3503695393, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAhQABG3Q9sOqD'}]}
0:04:22.340247	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0085, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 3db0ea83)
0:04:22.342246	LOG	Server <---------- DUT
0:04:22.343245	LOG	Attempt 14/20
0:04:27.327411	LOG	PUSH_ACK: 02 0111 01
0:04:27.329409	LOG	PUSH_DATA: Protocol version = 02, Token = 0111, Identifier = 00, JSON = {'rxpk': [{'tmst': 3508697961, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAhgABpkUnMvRF'}]}
0:04:27.330410	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0086, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 2732f445)
0:04:27.332408	LOG	Server <---------- DUT
0:04:27.334408	LOG	Attempt 15/20
0:04:31.891815	LOG	PULL_DATA: 02 63c9 02 aa555a0000240409
0:04:31.894815	LOG	PULL_ACK: 02 63c9 04
0:04:32.384536	LOG	PUSH_ACK: 02 0113 01
0:04:32.386533	LOG	PUSH_DATA: Protocol version = 02, Token = 0113, Identifier = 00, JSON = {'rxpk': [{'tmst': 3513700521, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAhwABNwatA6jX'}]}
0:04:32.387535	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0087, FOpts:), FPort: 01, FRMPayload: 0014, MIC: ad03a8d7)
0:04:32.388534	LOG	Server <---------- DUT
0:04:32.390532	LOG	Attempt 16/20
0:04:37.322775	LOG	PUSH_ACK: 02 0114 01
0:04:37.324774	LOG	PUSH_DATA: Protocol version = 02, Token = 0114, Identifier = 00, JSON = {'rxpk': [{'tmst': 3518703105, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -47, 'size': 15, 'data': 'QCAgICCAiAAB2yCw/BdY'}]}
0:04:37.326775	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0088, FOpts:), FPort: 01, FRMPayload: 0014, MIC: b0fc1758)
0:04:37.327774	LOG	Server <---------- DUT
0:04:37.328772	LOG	Attempt 17/20
0:04:41.971353	LOG	PULL_DATA: 02 8a1f 02 aa555a0000240409

0:04:41.973352	LOG	PULL_ACK: 02 8a1f 04
0:04:42.313158	LOG	PUSH_ACK: 02 0115 01
0:04:42.315158	LOG	PUSH_DATA: Protocol version = 02, Token = 0115, Identifier = 00, JSON = {'rxpk': [{'tmst': 3523705665, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAiQAB4Yvym6i4'}]}
0:04:42.317158	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0089, FOpts:), FPort: 01, FRMPayload: 0014, MIC: f29ba8b8)
0:04:42.318158	LOG	Server <---------- DUT
0:04:42.320156	LOG	Attempt 18/20
0:04:47.354291	LOG	PUSH_ACK: 02 0116 01
0:04:47.357289	LOG	PUSH_DATA: Protocol version = 02, Token = 0116, Identifier = 00, JSON = {'rxpk': [{'tmst': 3528708225, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAigABEXScNaA+'}]}
0:04:47.358288	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 008a, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 9c35a03e)
0:04:47.360287	LOG	Server <---------- DUT
0:04:47.361287	LOG	Attempt 19/20
0:04:52.051218	LOG	PULL_DATA: 02 7097 02 aa555a0000240409
0:04:52.056216	LOG	PULL_ACK: 02 7097 04
0:04:52.346051	LOG	PUSH_ACK: 02 0117 01
0:04:52.350049	LOG	PUSH_DATA: Protocol version = 02, Token = 0117, Identifier = 00, JSON = {'rxpk': [{'tmst': 3533710793, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAiwAB/ZhOAxjc'}]}
0:04:52.351048	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 008b, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 4e0318dc)
0:04:52.353047	LOG	Server <---------- DUT
0:04:52.354047	LOG	Attempt 20/20
0:04:57.337212	LOG	PUSH_ACK: 02 0118 01
0:04:57.339211	LOG	PUSH_DATA: Protocol version = 02, Token = 0118, Identifier = 00, JSON = {'rxpk': [{'tmst': 3538713353, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAjAABe8AnDXCQ'}]}
0:04:57.341210	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 008c, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 270d7090)
0:04:57.342211	LOG	Server <---------- DUT
0:04:57.348207	LOG	Receive frame on specific channels process tested successfully
0:04:57.352204	LOG	End Test Step: Checking channel usage 12 to 15
0:04:57.355221	LOG	Partial Verdict: PASS
0:04:57.359218	LOG	==========
0:04:57.363215	LOG	==========
0:04:57.364199	LOG	Start Test Step: Checking channel usage 8 to 11
0:04:57.376190	LOG	Send LinkADRReq process starts
0:05:02.141648	LOG	PULL_DATA: 02 de0c 02 aa555a0000240409
0:05:02.146645	LOG	PULL_ACK: 02 de0c 04
0:05:02.394523	LOG	PUSH_ACK: 02 011a 01
0:05:02.399519	LOG	PUSH_DATA: Protocol version = 02, Token = 011a, Identifier = 00, JSON = {'rxpk': [{'tmst': 3543715929, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAjQABREM1zNTM'}]}
0:05:02.401501	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 008d, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 35ccd4cc)
0:05:02.402499	LOG	Server <---------- DUT

0:05:02.404498	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0120, FOpts:), FPort: 00, FRMPayload: 0350000f01), MIC: f1a0f8d5)
0:05:02.406497	LOG	PULL_RESP: Protocol version = 02, Token = bdc5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3545715929, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAIAEArLT6ypPxoPjV'}}
0:05:02.407497	LOG	Server ----------> DUT
0:05:02.410495	LOG	TX_ACK: 02 bdc5 05 aa555a0000240409
0:05:07.340690	LOG	PUSH_ACK: 02 011b 01
0:05:07.343689	LOG	PUSH_DATA: Protocol version = 02, Token = 011b, Identifier = 00, JSON = {'rxpk': [{'tmst': 3548723635, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCjgADBwEhsM7e6BY='}]}
0:05:07.344688	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 008e, FOpts: 0307), FPort: 01, FRMPayload: 0014, MIC: cedee816)
0:05:07.346687	LOG	Server <---------- DUT
0:05:07.348686	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:05:07.350686	LOG	Command Answer: 0307
0:05:07.357681	LOG	MAC command communication completed
0:05:07.361678	LOG	Receive frame on specific channels process starts
0:05:07.373672	LOG	Attempt 1/20
0:05:12.271886	LOG	PULL_DATA: 02 5689 02 aa555a0000240409
0:05:12.274884	LOG	PULL_ACK: 02 5689 04
0:05:17.366987	LOG	PUSH_ACK: 02 011c 01
0:05:17.368986	LOG	PUSH_DATA: Protocol version = 02, Token = 011c, Identifier = 00, JSON = {'rxpk': [{'tmst': 3558723651, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 6.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAjwABLpXvri1W'}]}
0:05:17.369986	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 008f, FOpts:), FPort: 01, FRMPayload: 0014, MIC: efae2d56)
0:05:17.370987	LOG	Server <---------- DUT
0:05:17.372984	LOG	Attempt 2/20
0:05:22.351505	LOG	PULL_DATA: 02 1a2b 02 aa555a0000240409
0:05:22.352507	LOG	PULL_ACK: 02 1a2b 04
0:05:22.358501	LOG	PUSH_ACK: 02 011d 01
0:05:22.360502	LOG	PUSH_DATA: Protocol version = 02, Token = 011d, Identifier = 00, JSON = {'rxpk': [{'tmst': 3563726219, 'chan': 7, 'rfch': 0, 'freq': 867.9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAkAABh+1Xxjsa'}]}
0:05:22.362499	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0090, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 57c63b1a)
0:05:22.363518	LOG	Server <---------- DUT
0:05:22.365499	LOG	Attempt 3/20
0:05:27.349314	LOG	PUSH_ACK: 02 011e 01
0:05:27.351313	LOG	PUSH_DATA: Protocol version = 02, Token = 011e, Identifier = 00, JSON = {'rxpk': [{'tmst': 3568728779, 'chan': 7, 'rfch': 0, 'freq': 867.9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAkQABMUF7tUXS'}]}
0:05:27.353312	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0091, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 7bb545d2)
0:05:27.356310	LOG	Server <---------- DUT
0:05:27.359308	LOG	Attempt 4/20
0:05:32.402630	LOG	PUSH_ACK: 02 0120 01
0:05:32.407627	LOG	PUSH_DATA: Protocol version = 02, Token = 0120, Identifier = 00, JSON = {'rxpk': [{'tmst': 3573731355, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 7.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAkgABtiopSEYr'}]}
0:05:32.409627	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0092, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 2948462b)
0:05:32.410627	LOG	Server <---------- DUT
0:05:32.412625	LOG	Attempt 5/20
0:05:32.431614	LOG	PULL_DATA: 02 211b 02 aa555a0000240409
0:05:32.433613	LOG	PULL_ACK: 02 211b 04
0:05:37.342820	LOG	PUSH_ACK: 02 0121 01
0:05:37.345818	LOG	PUSH_DATA: Protocol version = 02, Token = 0121, Identifier = 00, JSON = {'rxpk': [{'tmst': 3578733923, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAkwABp4GZfqLQ'}]}
0:05:37.347817	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0093, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 997ea2d0)
0:05:37.348817	LOG	Server <---------- DUT
0:05:37.350816	LOG	Attempt 6/20
0:05:42.382953	LOG	PUSH_ACK: 02 0122 01
0:05:42.384952	LOG	PUSH_DATA: Protocol version = 02, Token = 0122, Identifier = 00, JSON = {'rxpk': [{'tmst': 3583736490, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAlAABVL8UmLuw'}]}
0:05:42.386951	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0094, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 1498bbb0)
0:05:42.388950	LOG	Server <---------- DUT
0:05:42.389949	LOG	Attempt 7/20
0:05:42.511033	LOG	PULL_DATA: 02 0107 02 aa555a0000240409
0:05:42.513030	LOG	PULL_ACK: 02 0107 04
0:05:47.371736	LOG	PUSH_ACK: 02 0123 01
0:05:47.373735	LOG	PUSH_DATA: Protocol version = 02, Token = 0123, Identifier = 00, JSON = {'rxpk': [{'tmst': 3588739051, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 6.5, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAlQABHPSYIlUr'}]}
0:05:47.374733	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0095, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 9822552b)
0:05:47.375734	LOG	Server <---------- DUT
0:05:47.376734	LOG	Attempt 8/20
0:05:52.359897	LOG	PUSH_ACK: 02 0124 01
0:05:52.361896	LOG	PUSH_DATA: Protocol version = 02, Token = 0124, Identifier = 00, JSON = {'rxpk': [{'tmst': 3593741618, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAlgABr/Mtduo5'}]}
0:05:52.362896	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0096, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 2d76ea39)
0:05:52.364894	LOG	Server <---------- DUT
0:05:52.365894	LOG	Attempt 9/20
0:05:52.590784	LOG	PULL_DATA: 02 0dd8 02 aa555a0000240409
0:05:52.592765	LOG	PULL_ACK: 02 0dd8 04
0:05:57.400030	LOG	PUSH_ACK: 02 0125 01
0:05:57.402030	LOG	PUSH_DATA: Protocol version = 02, Token = 0125, Identifier = 00, JSON = {'rxpk': [{'tmst': 3598744194, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -43, 'size': 15, 'data': 'QCAgICCAlwAB+Tn0ucjf'}]}
0:05:57.403032	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0097, FOpts:), FPort: 01, FRMPayload: 0014, MIC: f4b9c8df)
0:05:57.405028	LOG	Server <---------- DUT

0:05:57.406027	LOG	Attempt 10/20
0:06:02.405183	LOG	PUSH_ACK: 02 0127 01
0:06:02.406182	LOG	PUSH_DATA: Protocol version = 02, Token = 0127, Identifier = 00, JSON = {'rxpk': [{'tmst': 3603746763, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 6.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAmAABcNPxM0Zu'}]}
0:06:02.408182	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0098, FOpts:), FPort: 01, FRMPayload: 0014, MIC: f133466e)
0:06:02.409183	LOG	Server <---------- DUT
0:06:02.410182	LOG	Attempt 11/20
0:06:02.670883	LOG	PULL_DATA: 02 fd8b 02 aa555a0000240409
0:06:02.674880	LOG	PULL_ACK: 02 fd8b 04
0:06:07.393196	LOG	PUSH_ACK: 02 0128 01
0:06:07.396195	LOG	PUSH_DATA: Protocol version = 02, Token = 0128, Identifier = 00, JSON = {'rxpk': [{'tmst': 3608749330, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAmQAB9oaKP9EW'}]}
0:06:07.397194	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0099, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 8a3fd116)
0:06:07.399193	LOG	Server <---------- DUT
0:06:07.400192	LOG	Attempt 12/20
0:06:12.381471	LOG	PUSH_ACK: 02 0129 01
0:06:12.383471	LOG	PUSH_DATA: Protocol version = 02, Token = 0129, Identifier = 00, JSON = {'rxpk': [{'tmst': 3613751891, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -43, 'size': 15, 'data': 'QCAgICCAmgABrMqJE61e'}]}
0:06:12.385471	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 009a, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 8913ad5e)
0:06:12.386470	LOG	Server <---------- DUT
0:06:12.387468	LOG	Attempt 13/20
0:06:12.751261	LOG	PULL_DATA: 02 16c2 02 aa555a0000240409
0:06:12.753260	LOG	PULL_ACK: 02 16c2 04
0:06:17.370634	LOG	PUSH_ACK: 02 012a 01
0:06:17.373632	LOG	PUSH_DATA: Protocol version = 02, Token = 012a, Identifier = 00, JSON = {'rxpk': [{'tmst': 3618754467, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAmwABEXHGS0xl'}]}
0:06:17.374631	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 009b, FOpts:), FPort: 01, FRMPayload: 0014, MIC: c64b4c65)
0:06:17.376630	LOG	Server <---------- DUT
0:06:17.377629	LOG	Attempt 14/20
0:06:22.410846	LOG	PUSH_ACK: 02 012b 01
0:06:22.412844	LOG	PUSH_DATA: Protocol version = 02, Token = 012b, Identifier = 00, JSON = {'rxpk': [{'tmst': 3623757035, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAnAABZXi73jjt'}]}
0:06:22.413843	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 009c, FOpts:), FPort: 01, FRMPayload: 0014, MIC: bbde38ed)
0:06:22.414845	LOG	Server <---------- DUT
0:06:22.415844	LOG	Attempt 15/20
0:06:22.831082	LOG	PULL_DATA: 02 a1a4 02 aa555a0000240409
0:06:22.833080	LOG	PULL_ACK: 02 a1a4 04
0:06:27.398635	LOG	PUSH_ACK: 02 012c 01
0:06:27.400634	LOG	PUSH_DATA: Protocol version = 02, Token = 012c, Identifier = 00, JSON = {'rxpk': [{'tmst': 3628759611, 'chan': 7, 'rfch': 0, 'freq': 867.9, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAnQABZkHpuuJv'}]}
0:06:27.402633	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 009d, FOpts:), FPort: 01, FRMPayload: 0014, MIC: e9bae26f)
0:06:27.403632	LOG	Server <---------- DUT
0:06:27.404632	LOG	Attempt 16/20
0:06:32.404794	LOG	PUSH_ACK: 02 012e 01
0:06:32.407791	LOG	PUSH_DATA: Protocol version = 02, Token = 012e, Identifier = 00, JSON = {'rxpk': [{'tmst': 3633762194, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAngABrU67YwyA'}]}
0:06:32.409786	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 009e, FOpts:), FPort: 01, FRMPayload: 0014, MIC: bb630c80)
0:06:32.410786	LOG	Server <---------- DUT
0:06:32.411785	LOG	Attempt 17/20
0:06:32.910499	LOG	PULL_DATA: 02 e3cf 02 aa555a0000240409
0:06:32.915497	LOG	PULL_ACK: 02 e3cf 04
0:06:37.395949	LOG	PUSH_ACK: 02 012f 01
0:06:37.397967	LOG	PUSH_DATA: Protocol version = 02, Token = 012f, Identifier = 00, JSON = {'rxpk': [{'tmst': 3638764755, 'chan': 7, 'rfch': 0, 'freq': 867.9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -47, 'size': 15, 'data': 'QCAgICCAnwABfKXMh++/'}]}
0:06:37.399948	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 009f, FOpts:), FPort: 01, FRMPayload: 0014, MIC: cc87efbf)
0:06:37.400967	LOG	Server <---------- DUT
0:06:37.402947	LOG	Attempt 18/20
0:06:42.385111	LOG	PUSH_ACK: 02 0130 01
0:06:42.387109	LOG	PUSH_DATA: Protocol version = 02, Token = 0130, Identifier = 00, JSON = {'rxpk': [{'tmst': 3643767315, 'chan': 7, 'rfch': 0, 'freq': 867.9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAoAABcXqSOINX'}]}
0:06:42.388108	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00a0, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 92388357)
0:06:42.389108	LOG	Server <---------- DUT
0:06:42.391107	LOG	Attempt 19/20
0:06:42.990767	LOG	PULL_DATA: 02 d292 02 aa555a0000240409
0:06:42.992774	LOG	PULL_ACK: 02 d292 04
0:06:47.424807	LOG	PUSH_ACK: 02 0131 01
0:06:47.426806	LOG	PUSH_DATA: Protocol version = 02, Token = 0131, Identifier = 00, JSON = {'rxpk': [{'tmst': 3648769891, 'chan': 7, 'rfch': 0, 'freq': 867.9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAoQABDxxwNzCZ'}]}
0:06:47.428806	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00a1, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 70373099)
0:06:47.429804	LOG	Server <---------- DUT
0:06:47.430804	LOG	Attempt 20/20
0:06:52.412969	LOG	PUSH_ACK: 02 0132 01
0:06:52.414969	LOG	PUSH_DATA: Protocol version = 02, Token = 0132, Identifier = 00, JSON = {'rxpk': [{'tmst': 3653772451, 'chan': 7, 'rfch': 0, 'freq': 867.9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAogABYCH0nKyy'}]}
0:06:52.416968	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00a2, FOpts:), FPort: 01, FRMPayload: 0014, MIC: f49cacb2)
0:06:52.417967	LOG	Server <---------- DUT
0:06:52.425993	LOG	Receive frame on specific channels process tested successfully
0:06:52.428962	LOG	End Test Step: Checking channel usage 8 to 11

0:06:52.432960	LOG	Partial Verdict: PASS
0:06:52.437956	LOG	==========
0:06:52.443952	LOG	==========
0:06:52.446951	LOG	Start Test Step: Checking channel usage 4 to 7
0:06:52.459945	LOG	Send LinkADRReq process starts
0:06:53.070595	LOG	PULL_DATA: 02 d298 02 aa555a0000240409
0:06:53.072595	LOG	PULL_ACK: 02 d298 04
0:06:57.402132	LOG	PUSH_ACK: 02 0133 01
0:06:57.405130	LOG	PUSH_DATA: Protocol version = 02, Token = 0133, Identifier = 00, JSON = {'rxpk': [{'tmst': 3658775019, 'chan': 7, 'rfch': 0, 'freq': 867.9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAowABaAoj3xqc'}]}
0:06:57.408128	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00a3, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 23df1a9c)
0:06:57.412126	LOG	Server <---------- DUT
0:06:57.417123	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0121, FOpts:), FPort: 00, FRMPayload: 0350f00001), MIC: f7a29925)
0:06:57.422121	LOG	PULL_RESP: Protocol version = 02, Token = 1bd3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3660775019, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAIQEAgadQ3zf3opkl'}}
0:06:57.423121	LOG	Server ----------> DUT
0:06:57.428117	LOG	TX_ACK: 02 1bd3 05 aa555a0000240409
0:07:02.412406	LOG	PUSH_ACK: 02 0135 01
0:07:02.415405	LOG	PUSH_DATA: Protocol version = 02, Token = 0135, Identifier = 00, JSON = {'rxpk': [{'tmst': 3663782717, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -43, 'size': 17, 'data': 'QCAgICCCpAADBwHw9fz2AtA='}]}
0:07:02.416404	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 00a4, FOpts: 0307), FPort: 01, FRMPayload: 0014, MIC: fcf602d0)
0:07:02.418403	LOG	Server <---------- DUT
0:07:02.420403	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:07:02.422401	LOG	Command Answer: 0307
0:07:02.431396	LOG	MAC command communication completed
0:07:02.441390	LOG	Receive frame on specific channels process starts
0:07:02.459381	LOG	Attempt 1/20
0:07:03.090022	LOG	PULL_DATA: 02 4b35 02 aa555a0000240409
0:07:03.094019	LOG	PULL_ACK: 02 4b35 04
0:07:12.436832	LOG	PUSH_ACK: 02 0136 01
0:07:12.438832	LOG	PUSH_DATA: Protocol version = 02, Token = 0136, Identifier = 00, JSON = {'rxpk': [{'tmst': 3673782749, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 7.2, 'rssi': -43, 'size': 15, 'data': 'QCAgICCApQABtWCUgHSl'}]}
0:07:12.439832	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00a5, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 948074a5)
0:07:12.440831	LOG	Server <---------- DUT
0:07:12.441831	LOG	Attempt 2/20
0:07:13.171149	LOG	PULL_DATA: 02 61d5 02 aa555a0000240409
0:07:13.174147	LOG	PULL_ACK: 02 61d5 04
0:07:17.424762	LOG	PUSH_ACK: 02 0137 01
0:07:17.426760	LOG	PUSH_DATA: Protocol version = 02, Token = 0137, Identifier = 00, JSON = {'rxpk': [{'tmst': 3678785325, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCApgABxxE/CXkI'}]}

0:07:17.428759	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00a6, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 3f097908)
0:07:17.429761	LOG	Server <---------- DUT
0:07:17.430760	LOG	Attempt 3/20
0:07:22.413034	LOG	PUSH_ACK: 02 0138 01
0:07:22.415034	LOG	PUSH_DATA: Protocol version = 02, Token = 0138, Identifier = 00, JSON = {'rxpk': [{'tmst': 3683787893, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCApwABRSxz0oeF'}]}
0:07:22.416033	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00a7, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 73d28785)
0:07:22.417034	LOG	Server <---------- DUT
0:07:22.418033	LOG	Attempt 4/20
0:07:23.250068	LOG	PULL_DATA: 02 55d1 02 aa555a0000240409
0:07:23.252067	LOG	PULL_ACK: 02 55d1 04
0:07:27.400854	LOG	PUSH_ACK: 02 0139 01
0:07:27.402845	LOG	PUSH_DATA: Protocol version = 02, Token = 0139, Identifier = 00, JSON = {'rxpk': [{'tmst': 3688790469, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAqAABvHr7dxfW'}]}
0:07:27.403848	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00a8, FOpts:), FPort: 01, FRMPayload: 0014, MIC: fb7717d6)
0:07:27.405846	LOG	Server <---------- DUT
0:07:27.406842	LOG	Attempt 5/20
0:07:32.402302	LOG	PUSH_ACK: 02 013b 01
0:07:32.404299	LOG	PUSH_DATA: Protocol version = 02, Token = 013b, Identifier = 00, JSON = {'rxpk': [{'tmst': 3693793045, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 6.5, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAqQAB7yZyCmiW'}]}
0:07:32.405299	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00a9, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 720a6896)
0:07:32.406317	LOG	Server <---------- DUT
0:07:32.408299	LOG	Attempt 6/20
0:07:33.330773	LOG	PULL_DATA: 02 6c33 02 aa555a0000240409
0:07:33.335770	LOG	PULL_ACK: 02 6c33 04
0:07:37.441434	LOG	PUSH_ACK: 02 013c 01
0:07:37.443435	LOG	PUSH_DATA: Protocol version = 02, Token = 013c, Identifier = 00, JSON = {'rxpk': [{'tmst': 3698795605, 'chan': 7, 'rfch': 0, 'freq': 867.9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAqgABq22iuQGF'}]}
0:07:37.445433	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00aa, FOpts:), FPort: 01, FRMPayload: 0014, MIC: a2b90185)
0:07:37.447434	LOG	Server <---------- DUT
0:07:37.448431	LOG	Attempt 7/20
0:07:42.429597	LOG	PUSH_ACK: 02 013d 01
0:07:42.431596	LOG	PUSH_DATA: Protocol version = 02, Token = 013d, Identifier = 00, JSON = {'rxpk': [{'tmst': 3703798181, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 7.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAqwABHksSO3pB'}]}
0:07:42.433595	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00ab, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 123b7a41)
0:07:42.434594	LOG	Server <---------- DUT
0:07:42.436595	LOG	Attempt 8/20
0:07:43.410810	LOG	PULL_DATA: 02 ddc2 02 aa555a0000240409
0:07:43.411809	LOG	PULL_ACK: 02 ddc2 04
0:07:47.419560	LOG	PUSH_ACK: 02 013e 01

0:07:47.422559	LOG	PUSH_DATA: Protocol version = 02, Token = 013e, Identifier = 00, JSON = {'rxpk': [{'tmst': 3708800749, 'chan': 7, 'rfch': 0, 'freq': 867.9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCArAABHZgf+Kde'}]}
0:07:47.423558	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00ac, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 1ff8a75e)
0:07:47.425556	LOG	Server <---------- DUT
0:07:47.427554	LOG	Attempt 9/20
0:07:52.408732	LOG	PUSH_ACK: 02 013f 01
0:07:52.410731	LOG	PUSH_DATA: Protocol version = 02, Token = 013f, Identifier = 00, JSON = {'rxpk': [{'tmst': 3713803317, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 7.0, 'rssi': -42, 'size': 15, 'data': 'QCAgICCArQAB5scYb7jR'}]}
0:07:52.412730	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00ad, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 186fb8d1)
0:07:52.413729	LOG	Server <---------- DUT
0:07:52.414729	LOG	Attempt 10/20
0:07:53.500112	LOG	PULL_DATA: 02 bcf7 02 aa555a0000240409
0:07:53.502110	LOG	PULL_ACK: 02 bcf7 04
0:07:57.448867	LOG	PUSH_ACK: 02 0140 01
0:07:57.450864	LOG	PUSH_DATA: Protocol version = 02, Token = 0140, Identifier = 00, JSON = {'rxpk': [{'tmst': 3718805885, 'chan': 7, 'rfch': 0, 'freq': 867.9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -47, 'size': 15, 'data': 'QCAgICCArgAB3eXprDPz'}]}
0:07:57.451866	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00ae, FOpts:), FPort: 01, FRMPayload: 0014, MIC: e9ac33f3)
0:07:57.452865	LOG	Server <---------- DUT
0:07:57.454863	LOG	Attempt 11/20
0:08:02.453019	LOG	PUSH_ACK: 02 0142 01
0:08:02.456017	LOG	PUSH_DATA: Protocol version = 02, Token = 0142, Identifier = 00, JSON = {'rxpk': [{'tmst': 3723808453, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICCArwABkRcz81bC'}]}
0:08:02.457019	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00af, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 33f356c2)
0:08:02.458018	LOG	Server <---------- DUT
0:08:02.460015	LOG	Attempt 12/20
0:08:03.600424	LOG	PULL_DATA: 02 edde 02 aa555a0000240409
0:08:03.605421	LOG	PULL_ACK: 02 edde 04
0:08:07.442239	LOG	PUSH_ACK: 02 0143 01
0:08:07.444238	LOG	PUSH_DATA: Protocol version = 02, Token = 0143, Identifier = 00, JSON = {'rxpk': [{'tmst': 3728811021, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -43, 'size': 15, 'data': 'QCAgICCAsAABTcfhzkqk'}]}
0:08:07.445237	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00b0, FOpts:), FPort: 01, FRMPayload: 0014, MIC: e1ce4aa4)
0:08:07.447236	LOG	Server <---------- DUT
0:08:07.449235	LOG	Attempt 13/20
0:08:12.430401	LOG	PUSH_ACK: 02 0144 01
0:08:12.433400	LOG	PUSH_DATA: Protocol version = 02, Token = 0144, Identifier = 00, JSON = {'rxpk': [{'tmst': 3733813581, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 7.8, 'rssi': -43, 'size': 15, 'data': 'QCAgICCAsQABAyQfjspu'}]}
0:08:12.434399	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00b1, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 1f8eca6e)
0:08:12.436399	LOG	Server <---------- DUT

0:08:12.437397	LOG	Attempt 14/20
0:08:13.679691	LOG	PULL_DATA: 02 13ef 02 aa555a0000240409
0:08:13.681689	LOG	PULL_ACK: 02 13ef 04
0:08:17.470534	LOG	PUSH_ACK: 02 0145 01
0:08:17.472533	LOG	PUSH_DATA: Protocol version = 02, Token = 0145, Identifier = 00, JSON = {'rxpk': [{'tmst': 3738816149, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAsgAB7UE7gIcm'}]}
0:08:17.473534	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00b2, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 3b808726)
0:08:17.474534	LOG	Server <---------- DUT
0:08:17.476531	LOG	Attempt 15/20
0:08:22.457698	LOG	PUSH_ACK: 02 0146 01
0:08:22.459697	LOG	PUSH_DATA: Protocol version = 02, Token = 0146, Identifier = 00, JSON = {'rxpk': [{'tmst': 3743818725, 'chan': 7, 'rfch': 0, 'freq': 867.9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAswABpAsbXEIf'}]}
0:08:22.460696	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00b3, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 1b5c421f)
0:08:22.461696	LOG	Server <---------- DUT
0:08:22.463694	LOG	Attempt 16/20
0:08:23.759957	LOG	PULL_DATA: 02 e520 02 aa555a0000240409
0:08:23.760957	LOG	PULL_ACK: 02 e520 04
0:08:27.445471	LOG	PUSH_ACK: 02 0147 01
0:08:27.447470	LOG	PUSH_DATA: Protocol version = 02, Token = 0147, Identifier = 00, JSON = {'rxpk': [{'tmst': 3748821301, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAtAABnlqegIje'}]}
0:08:27.449469	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00b4, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 9e8088de)
0:08:27.451467	LOG	Server <---------- DUT
0:08:27.452467	LOG	Attempt 17/20
0:08:32.442628	LOG	PUSH_ACK: 02 0149 01
0:08:32.444627	LOG	PUSH_DATA: Protocol version = 02, Token = 0149, Identifier = 00, JSON = {'rxpk': [{'tmst': 3753823861, 'chan': 7, 'rfch': 0, 'freq': 867.9, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAtQABGYxcA2Sw'}]}
0:08:32.446626	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00b5, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 5c0364b0)
0:08:32.448625	LOG	Server <---------- DUT
0:08:32.449624	LOG	Attempt 18/20
0:08:33.839833	LOG	PULL_DATA: 02 c7e2 02 aa555a0000240409
0:08:33.844832	LOG	PULL_ACK: 02 c7e2 04
0:08:37.431792	LOG	PUSH_ACK: 02 014a 01
0:08:37.432792	LOG	PUSH_DATA: Protocol version = 02, Token = 014a, Identifier = 00, JSON = {'rxpk': [{'tmst': 3758826437, 'chan': 4, 'rfch': 0, 'freq': 867.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAtgABfU0raMaE'}]}
0:08:37.433791	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00b6, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 2b68c684)
0:08:37.435790	LOG	Server <---------- DUT
0:08:37.436788	LOG	Attempt 19/20
0:08:42.471018	LOG	PUSH_ACK: 02 014b 01
0:08:42.473017	LOG	PUSH_DATA: Protocol version = 02, Token = 014b, Identifier = 00, JSON = {'rxpk': [{'tmst': 3763828989, 'chan': 7, 'rfch': 0, 'freq': 867.9, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAtwABqAihFWgL'}]}
0:08:42.475016	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00b7, FOpts:), FPort: 01, FRMPayload: 0014, MIC: a115680b)
0:08:42.476015	LOG	Server <---------- DUT
0:08:42.477015	LOG	Attempt 20/20
0:08:43.920193	LOG	PULL_DATA: 02 abdd 02 aa555a0000240409
0:08:43.922192	LOG	PULL_ACK: 02 abdd 04
0:08:47.460241	LOG	PUSH_ACK: 02 014c 01
0:08:47.462240	LOG	PUSH_DATA: Protocol version = 02, Token = 014c, Identifier = 00, JSON = {'rxpk': [{'tmst': 3768831557, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.0, 'rssi': -43, 'size': 15, 'data': 'QCAgICCAuAABpBWy4WTH'}]}
0:08:47.464238	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00b8, FOpts:), FPort: 01, FRMPayload: 0014, MIC: b2e164c7)
0:08:47.465238	LOG	Server <---------- DUT
0:08:47.475232	LOG	Receive frame on specific channels process tested successfully
0:08:47.479230	LOG	End Test Step: Checking channel usage 4 to 7
0:08:47.484228	LOG	Partial Verdict: PASS
0:08:47.488227	LOG	==========
0:08:47.493224	LOG	==========
0:08:47.497221	LOG	Start Test Step: Checking channel usage 0 to 3
0:08:47.508213	LOG	Send LinkADRReq process starts
0:08:52.448405	LOG	PUSH_ACK: 02 014d 01
0:08:52.450403	LOG	PUSH_DATA: Protocol version = 02, Token = 014d, Identifier = 00, JSON = {'rxpk': [{'tmst': 3773834125, 'chan': 5, 'rfch': 0, 'freq': 867.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 7.2, 'rssi': -42, 'size': 15, 'data': 'QCAgICCAuQABv/t4SOD7'}]}
0:08:52.451402	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00b9, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 7848e0fb)
0:08:52.452401	LOG	Server <---------- DUT
0:08:52.454400	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0122, FOpts:), FPort: 00, FRMPayload: 03500f0001), MIC: de154636)
0:08:52.456399	LOG	PULL_RESP: Protocol version = 02, Token = 40c3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3775834125, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAIgEA73JCdD7eFUY2'}}
0:08:52.457398	LOG	Server ----------> DUT
0:08:52.461396	LOG	TX_ACK: 02 40c3 05 aa555a0000240409
0:08:53.929997	LOG	PULL_DATA: 02 a44d 02 aa555a0000240409
0:08:53.930995	LOG	PULL_ACK: 02 a44d 04
0:08:57.456990	LOG	PUSH_ACK: 02 014e 01
0:08:57.458989	LOG	PUSH_DATA: Protocol version = 02, Token = 014e, Identifier = 00, JSON = {'rxpk': [{'tmst': 3778841841, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCugADBwG99reE/4A='}]}
0:08:57.460987	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 00ba, FOpts: 0307), FPort: 01, FRMPayload: 0014, MIC: b784ff80)
0:08:57.462986	LOG	Server <---------- DUT
0:08:57.463986	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:08:57.465985	LOG	Command Answer: 0307
0:08:57.471981	LOG	MAC command communication completed
0:08:57.476978	LOG	Receive frame on specific channels process starts
0:08:57.488971	LOG	Attempt 1/20
0:09:04.009756	LOG	PULL_DATA: 02 8188 02 aa555a0000240409

0:09:04.012737	LOG	PULL_ACK: 02 8188 04
0:09:07.446783	LOG	PUSH_ACK: 02 0150 01
0:09:07.448782	LOG	PUSH_DATA: Protocol version = 02, Token = 0150, Identifier = 00, JSON = {'rxpk': [{'tmst': 3788841865, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAuwABxnyMQopM'}]}
0:09:07.450781	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00bb, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 8c428a4c)
0:09:07.451780	LOG	Server <---------- DUT
0:09:07.453779	LOG	Attempt 2/20
0:09:12.486083	LOG	PUSH_ACK: 02 0151 01
0:09:12.488082	LOG	PUSH_DATA: Protocol version = 02, Token = 0151, Identifier = 00, JSON = {'rxpk': [{'tmst': 3793844433, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAvAABPy13HH9m'}]}
0:09:12.489081	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00bc, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 771c7f66)
0:09:12.491080	LOG	Server <---------- DUT
0:09:12.492081	LOG	Attempt 3/20
0:09:14.110159	LOG	PULL_DATA: 02 1c53 02 aa555a0000240409
0:09:14.111158	LOG	PULL_ACK: 02 1c53 04
0:09:17.474245	LOG	PUSH_ACK: 02 0152 01
0:09:17.476244	LOG	PUSH_DATA: Protocol version = 02, Token = 0152, Identifier = 00, JSON = {'rxpk': [{'tmst': 3798847009, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAvQABb7ts2lur'}]}
0:09:17.478243	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00bd, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 6cda5bab)
0:09:17.479243	LOG	Server <---------- DUT
0:09:17.480242	LOG	Attempt 4/20
0:09:22.463408	LOG	PUSH_ACK: 02 0153 01
0:09:22.465406	LOG	PUSH_DATA: Protocol version = 02, Token = 0153, Identifier = 00, JSON = {'rxpk': [{'tmst': 3803849569, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAvgABxUFCod0o'}]}
0:09:22.466405	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00be, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 42a1dd28)
0:09:22.467407	LOG	Server <---------- DUT
0:09:22.468406	LOG	Attempt 5/20
0:09:24.189455	LOG	PULL_DATA: 02 1aee 02 aa555a0000240409
0:09:24.191425	LOG	PULL_ACK: 02 1aee 04
0:09:27.504546	LOG	PUSH_ACK: 02 0154 01
0:09:29.196577	LOG	PUSH_DATA: Protocol version = 02, Token = 0154, Identifier = 00, JSON = {'rxpk': [{'tmst': 3808852145, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAvwABtpTIMYf2'}]}
0:09:29.198576	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00bf, FOpts:), FPort: 01, FRMPayload: 0014, MIC: c83187f6)
0:09:29.200575	LOG	Server <---------- DUT
0:09:29.202574	LOG	Attempt 6/20
0:09:32.504695	LOG	PUSH_ACK: 02 0156 01
0:09:32.506695	LOG	PUSH_DATA: Protocol version = 02, Token = 0156, Identifier = 00, JSON = {'rxpk': [{'tmst': 3813854705, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAwAABFtJln3/l'}]}

0:09:32.508694	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00c0, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 659f7fe5)
0:09:32.509693	LOG	Server <---------- DUT
0:09:32.510692	LOG	Attempt 7/20
0:09:34.269692	LOG	PULL_DATA: 02 eb66 02 aa555a0000240409
0:09:34.274689	LOG	PULL_ACK: 02 eb66 04
0:09:37.493057	LOG	PUSH_ACK: 02 0157 01
0:09:37.495056	LOG	PUSH_DATA: Protocol version = 02, Token = 0157, Identifier = 00, JSON = {'rxpk': [{'tmst': 3818857289, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAwQABISUps+Ce'}]}
0:09:37.496053	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00c1, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 29b3e09e)
0:09:37.497055	LOG	Server <---------- DUT
0:09:37.498054	LOG	Attempt 8/20
0:09:42.481217	LOG	PUSH_ACK: 02 0158 01
0:09:49.795056	LOG	PUSH_DATA: Protocol version = 02, Token = 0158, Identifier = 00, JSON = {'rxpk': [{'tmst': 3823859849, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAwgABVfooG5bS'}]}
0:09:49.797055	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00c2, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 281b96d2)
0:09:49.798055	LOG	Server <---------- DUT
0:09:49.800054	LOG	Attempt 9/20
0:09:52.483610	LOG	PUSH_ACK: 02 015b 01
0:09:52.485608	LOG	PUSH_DATA: Protocol version = 02, Token = 015b, Identifier = 00, JSON = {'rxpk': [{'tmst': 3833864993, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAxAABK9RaB8fL'}]}
0:09:52.486609	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00c4, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 5a07c7cb)
0:09:52.487609	LOG	Server <---------- DUT
0:09:52.489606	LOG	Attempt 10/20
0:09:54.429502	LOG	PULL_DATA: 02 3b79 02 aa555a0000240409
0:09:54.431501	LOG	PULL_ACK: 02 3b79 04
0:09:57.471771	LOG	PUSH_ACK: 02 015c 01
0:09:57.473771	LOG	PUSH_DATA: Protocol version = 02, Token = 015c, Identifier = 00, JSON = {'rxpk': [{'tmst': 3838867577, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAxQABy9AyNhC8'}]}
0:09:57.475772	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00c5, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 323610bc)
0:09:57.476769	LOG	Server <---------- DUT
0:09:57.477771	LOG	Attempt 11/20
0:10:02.524627	LOG	PUSH_ACK: 02 015e 01
0:10:02.526626	LOG	PUSH_DATA: Protocol version = 02, Token = 015e, Identifier = 00, JSON = {'rxpk': [{'tmst': 3843870137, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAxgABJzGRdpWY'}]}
0:10:02.528625	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00c6, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 91769598)
0:10:02.530623	LOG	Server <---------- DUT
0:10:02.531623	LOG	Attempt 12/20
0:10:04.509262	LOG	PULL_DATA: 02 1ea8 02 aa555a0000240409
0:10:04.518240	LOG	PULL_ACK: 02 1ea8 04
0:10:07.512569	LOG	PUSH_ACK: 02 015f 01

0:10:07.514570	LOG	PUSH_DATA: Protocol version = 02, Token = 015f, Identifier = 00, JSON = {'rxpk': [{'tmst': 3848872713, 'chan': 3, 'rfch': 0, 'freq': 867.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAxwABgkAOmuJK'}]}
0:10:07.516568	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00c7, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 0e9ae24a)
0:10:07.518567	LOG	Server <---------- DUT
0:10:07.519566	LOG	Attempt 13/20
0:10:12.501921	LOG	PUSH_ACK: 02 0160 01
0:10:12.504919	LOG	PUSH_DATA: Protocol version = 02, Token = 0160, Identifier = 00, JSON = {'rxpk': [{'tmst': 3853875281, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAyAABi47GTWuE'}]}
0:10:12.506918	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00c8, FOpts:), FPort: 01, FRMPayload: 0014, MIC: c64d6b84)
0:10:12.507918	LOG	Server <---------- DUT
0:10:12.509917	LOG	Attempt 14/20
0:10:14.599727	LOG	PULL_DATA: 02 acfb 02 aa555a0000240409
0:10:22.636240	LOG	PULL_ACK: 02 acfb 04
0:10:22.639267	LOG	PUSH_ACK: 02 0161 01
0:10:22.642237	LOG	PUSH_DATA: Protocol version = 02, Token = 0161, Identifier = 00, JSON = {'rxpk': [{'tmst': 3858877849, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAyQAB1j4msNZz'}]}
0:10:22.647262	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00c9, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 26b0d673)
0:10:22.651228	LOG	Server <---------- DUT
0:10:22.653227	LOG	Attempt 15/20
0:10:24.739072	LOG	PULL_DATA: 02 6a68 02 aa555a0000240409
0:10:24.741070	LOG	PULL_ACK: 02 6a68 04
0:10:27.492477	LOG	PUSH_ACK: 02 0163 01
0:10:27.494504	LOG	PUSH_DATA: Protocol version = 02, Token = 0163, Identifier = 00, JSON = {'rxpk': [{'tmst': 3868882985, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAywABiwR7QO6A'}]}
0:10:27.498474	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00cb, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 7b40ee80)
0:10:27.501499	LOG	Server <---------- DUT
0:10:27.506469	LOG	Attempt 16/20
0:10:32.493009	LOG	PUSH_ACK: 02 0165 01
0:10:32.495008	LOG	PUSH_DATA: Protocol version = 02, Token = 0165, Identifier = 00, JSON = {'rxpk': [{'tmst': 3873885561, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAzAABKFUX7zs7'}]}
0:10:32.497007	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00cc, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 17ef3b3b)
0:10:32.498006	LOG	Server <---------- DUT
0:10:32.500006	LOG	Attempt 17/20
0:10:34.819686	LOG	PULL_DATA: 02 f358 02 aa555a0000240409
0:10:34.824683	LOG	PULL_ACK: 02 f358 04
0:10:37.533143	LOG	PUSH_ACK: 02 0166 01
0:10:40.529438	LOG	PUSH_DATA: Protocol version = 02, Token = 0166, Identifier = 00, JSON = {'rxpk': [{'tmst': 3878888121, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -43, 'size': 15, 'data': 'QCAgICCAzQABLr2HArxI'}]}

0:10:40.532436	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00cd, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 8702bc48)
0:10:40.534435	LOG	Server <---------- DUT
0:10:40.536433	LOG	Attempt 18/20
0:10:42.531299	LOG	PUSH_ACK: 02 0167 01
0:10:42.533297	LOG	PUSH_DATA: Protocol version = 02, Token = 0167, Identifier = 00, JSON = {'rxpk': [{'tmst': 3883890689, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAzgABG87qAXAr'}]}
0:10:42.535296	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00ce, FOpts:), FPort: 01, FRMPayload: 0014, MIC: ea01702b)
0:10:42.537295	LOG	Server <---------- DUT
0:10:42.538294	LOG	Attempt 19/20
0:10:44.898952	LOG	PULL_DATA: 02 4606 02 aa555a0000240409
0:10:44.900951	LOG	PULL_ACK: 02 4606 04
0:10:47.520460	LOG	PUSH_ACK: 02 0168 01
0:10:47.522459	LOG	PUSH_DATA: Protocol version = 02, Token = 0168, Identifier = 00, JSON = {'rxpk': [{'tmst': 3888893273, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -47, 'size': 15, 'data': 'QCAgICCAzwABzrhgeK2A'}]}
0:10:47.523458	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00cf, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 6078ad80)
0:10:47.524458	LOG	Server <---------- DUT
0:10:47.526457	LOG	Attempt 20/20
0:10:52.508622	LOG	PUSH_ACK: 02 0169 01
0:10:52.510622	LOG	PUSH_DATA: Protocol version = 02, Token = 0169, Identifier = 00, JSON = {'rxpk': [{'tmst': 3893895833, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCA0AABKe2GLaPA'}]}
0:10:52.512620	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00d0, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 862da3c0)
0:10:52.513619	LOG	Server <---------- DUT
0:10:52.521615	LOG	Receive frame on specific channels process tested successfully
0:10:52.525613	LOG	End Test Step: Checking channel usage 0 to 3
0:10:52.530610	LOG	Partial Verdict: PASS
0:10:52.536607	LOG	==========
0:10:52.541621	LOG	==========
0:10:52.543603	LOG	Start Test Step: Removing multiple channels 1
0:10:52.552597	LOG	Send MAC command block process starts
0:10:54.979216	LOG	PULL_DATA: 02 472b 02 aa555a0000240409
0:10:54.981216	LOG	PULL_ACK: 02 472b 04
0:10:57.548755	LOG	PUSH_ACK: 02 016a 01
0:10:57.550754	LOG	PUSH_DATA: Protocol version = 02, Token = 016a, Identifier = 00, JSON = {'rxpk': [{'tmst': 3898898401, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA0QABK9o1Sygg'}]}
0:10:57.551753	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00d1, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 354b2820)
0:10:57.552752	LOG	Server <---------- DUT
0:10:57.553752	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0123, FOpts:), FPort: 00, FRMPayload: 07030000005007040000005007050000005007060000005007070000005 0), MIC: cff67c71)
0:10:57.556750	LOG	PULL_RESP: Protocol version = 02, Token = e42a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3900898401, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True,

		'size': 43, 'data': 'YCAgICAAIwEAK+z/Bek1a57laWGpn65N8eOZ9ElHnt98BaEuDaETz/Z8cQ==' }}
0:10:57.557750	LOG	Server ----------> DUT
0:10:57.561748	LOG	TX_ACK: 02 e42a 05 aa555a0000240409
0:11:02.532918	LOG	PUSH_ACK: 02 016c 01
0:11:02.534918	LOG	PUSH_DATA: Protocol version = 02, Token = 016c, Identifier = 00, JSON = {'rxpk': [{'tmst': 3903916434, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 25, 'data': 'QCAgICCK0gAHAwcDBwMHAwcDAQzi8CZc+w=='}]}
0:11:02.535917	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 8a, FCnt: 00d2, FOpts: 07030703070307030703), FPort: 01, FRMPayload: 0014, MIC: f0265cfb)
0:11:02.537918	LOG	Server <---------- DUT
0:11:02.538916	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:11:02.539917	LOG	Command Answer: 07030703070307030703
0:11:02.655850	LOG	MAC command communication completed
0:11:02.658867	LOG	End Test Step: Removing multiple channels 1
0:11:02.663863	LOG	Partial Verdict: PASS
0:11:02.667842	LOG	==========
0:11:02.672839	LOG	==========
0:11:02.673857	LOG	Start Test Step: Removing multiple channels 2
0:11:02.683851	LOG	Send MAC command block process starts
0:11:05.119447	LOG	PULL_DATA: 02 260e 02 aa555a0000240409
0:11:05.123445	LOG	PULL_ACK: 02 260e 04
0:11:12.556217	LOG	PUSH_ACK: 02 016d 01
0:11:12.557216	LOG	PUSH_DATA: Protocol version = 02, Token = 016d, Identifier = 00, JSON = {'rxpk': [{'tmst': 3913906146, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA0wABdrFr4/Du'}]}
0:11:12.559215	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00d3, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 6be3f0ee)
0:11:12.560215	LOG	Server <---------- DUT
0:11:12.562213	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0124, FOpts:), FPort: 00, FRMPayload: 07080000005007090000050070a00000050070b00000050070c00000050), MIC: c7677c81)
0:11:12.565212	LOG	PULL_RESP: Protocol version = 02, Token = 063f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3915906146, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 43, 'data': 'YCAgICAAJAEAycBtsr/m5qwrnnYZIouC/DXUYrKsfyyAZNbf/L8lx2d8gQ=='}}
0:11:12.567211	LOG	Server ----------> DUT
0:11:12.570208	LOG	TX_ACK: 02 063f 05 aa555a0000240409
0:11:15.298687	LOG	PULL_DATA: 02 0dd2 02 aa555a0000240409
0:11:15.300685	LOG	PULL_ACK: 02 0dd2 04
0:11:17.576391	LOG	PUSH_ACK: 02 016e 01
0:11:17.578389	LOG	PUSH_DATA: Protocol version = 02, Token = 016e, Identifier = 00, JSON = {'rxpk': [{'tmst': 3918924166, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 25, 'data': 'QCAgICCK1AAHAwcDBwMHAwcDAYBESixL/A=='}]}
0:11:17.579389	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 8a, FCnt: 00d4, FOpts: 07030703070307030703), FPort: 01, FRMPayload: 0014, MIC: 4a2c4bfc)
0:11:17.580388	LOG	Server <---------- DUT

0:11:17.582387	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:11:17.583386	LOG	Command Answer: 07030703070307030703
0:11:17.695323	LOG	MAC command communication completed
0:11:17.698321	LOG	End Test Step: Removing multiple channels 2
0:11:17.702319	LOG	Partial Verdict: PASS
0:11:17.707338	LOG	==========
0:11:17.713312	LOG	==========
0:11:17.716312	LOG	Start Test Step: Removing multiple channels 3
0:11:17.726307	LOG	Send MAC command block process starts
0:11:25.378951	LOG	PULL_DATA: 02 ebb2 02 aa555a0000240409
0:11:25.380952	LOG	PULL_ACK: 02 ebb2 04
0:11:27.547718	LOG	PUSH_ACK: 02 016f 01
0:11:27.549716	LOG	PUSH_DATA: Protocol version = 02, Token = 016f, Identifier = 00, JSON = {'rxpk': [{'tmst': 3928913862, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA1QABnvDN+f+i'}]}
0:11:27.551715	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00d5, FOpts:), FPort: 01, FRMPayload: 0014, MIC: cdf9ffa2)
0:11:27.553715	LOG	Server <---------- DUT
0:11:27.555714	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0125, FOpts:), FPort: 00, FRMPayload: 070d00000050070e00000050070f00000050), MIC: a9e3279c)
0:11:27.558713	LOG	PULL_RESP: Protocol version = 02, Token = 5cf0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3930913862, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 31, 'data': 'YCAgICAAJQEAwsXj0X22OnoFcgu+rt2B+yMSqeMnnA=='}}
0:11:27.560710	LOG	Server ----------> DUT
0:11:27.564707	LOG	TX_ACK: 02 5cf0 05 aa555a0000240409
0:11:32.564878	LOG	PUSH_ACK: 02 0171 01
0:11:32.566877	LOG	PUSH_DATA: Protocol version = 02, Token = 0171, Identifier = 00, JSON = {'rxpk': [{'tmst': 3933926733, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -47, 'size': 21, 'data': 'QCAgICCG1gAHAwcDBwMB8XKHg3v8'}]}
0:11:32.567877	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 86, FCnt: 00d6, FOpts: 070307030703), FPort: 01, FRMPayload: 0014, MIC: 87837bfc)
0:11:32.568876	LOG	Server <---------- DUT
0:11:32.570875	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:11:32.571874	LOG	Command Answer: 070307030703
0:11:32.636837	LOG	MAC command communication completed
0:11:32.639835	LOG	End Test Step: Removing multiple channels 3
0:11:32.645833	LOG	Partial Verdict: PASS
0:11:32.649830	LOG	==========
0:11:32.653828	LOG	==========
0:11:32.656826	LOG	Start Test Step: Receive in default frequencies after remove
0:11:32.669818	LOG	Receive frame on specific channels process starts
0:11:32.677814	LOG	Attempt 1/15
0:11:35.539186	LOG	PULL_DATA: 02 1f6c 02 aa555a0000240409
0:11:35.542184	LOG	PULL_ACK: 02 1f6c 04
0:11:42.535225	LOG	PUSH_ACK: 02 0172 01
0:11:43.630635	LOG	PUSH_DATA: Protocol version = 02, Token = 0172, Identifier = 00, JSON = {'rxpk': [{'tmst': 3943921589, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICCA1wAB5osc0OCd'}]}

0:11:43.632634	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00d7, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 1cd0e09d)
0:11:43.633634	LOG	Server <---------- DUT
0:11:43.635632	LOG	Attempt 2/15
0:11:45.618504	LOG	PULL_DATA: 02 3a3b 02 aa555a0000240409
0:11:45.620503	LOG	PULL_ACK: 02 3a3b 04
0:11:47.531416	LOG	PUSH_ACK: 02 0173 01
0:11:47.533414	LOG	PUSH_DATA: Protocol version = 02, Token = 0173, Identifier = 00, JSON = {'rxpk': [{'tmst': 3948924157, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA2AABsqF/iz6c'}]}
0:11:47.535414	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00d8, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 7f8b3e9c)
0:11:47.536413	LOG	Server <---------- DUT
0:11:47.565397	LOG	Attempt 3/15
0:11:52.572552	LOG	PUSH_ACK: 02 0174 01
0:11:52.577546	LOG	PUSH_DATA: Protocol version = 02, Token = 0174, Identifier = 00, JSON = {'rxpk': [{'tmst': 3953926709, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICCA2QABL6FJQerL'}]}
0:11:52.581544	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00d9, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 4941eacb)
0:11:52.585542	LOG	Server <---------- DUT
0:11:52.588540	LOG	Attempt 4/15
0:11:55.698769	LOG	PULL_DATA: 02 c054 02 aa555a0000240409
0:11:55.700768	LOG	PULL_ACK: 02 c054 04
0:11:57.562709	LOG	PUSH_ACK: 02 0175 01
0:11:57.564708	LOG	PUSH_DATA: Protocol version = 02, Token = 0175, Identifier = 00, JSON = {'rxpk': [{'tmst': 3958929269, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.0, 'rssi': -43, 'size': 15, 'data': 'QCAgICCA2gABSlVnxm0u'}]}
0:11:57.565707	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00da, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 67c66d2e)
0:11:57.567706	LOG	Server <---------- DUT
0:11:57.592692	LOG	Attempt 5/15
0:12:02.564863	LOG	PUSH_ACK: 02 0177 01
0:12:02.566862	LOG	PUSH_DATA: Protocol version = 02, Token = 0177, Identifier = 00, JSON = {'rxpk': [{'tmst': 3963931837, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -47, 'size': 15, 'data': 'QCAgICCA2wABoov5xxjG'}]}
0:12:02.568861	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00db, FOpts:), FPort: 01, FRMPayload: 0014, MIC: f9c718c6)
0:12:02.569860	LOG	Server <---------- DUT
0:12:02.606989	LOG	Attempt 6/15
0:12:05.778184	LOG	PULL_DATA: 02 2aab 02 aa555a0000240409
0:12:05.782182	LOG	PULL_ACK: 02 2aab 04
0:12:07.552175	LOG	PUSH_ACK: 02 0178 01
0:12:07.555173	LOG	PUSH_DATA: Protocol version = 02, Token = 0178, Identifier = 00, JSON = {'rxpk': [{'tmst': 3968934405, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -43, 'size': 15, 'data': 'QCAgICCA3AABYGZ7X5EK'}]}
0:12:07.556172	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00dc, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 7b5f910a)
0:12:07.558171	LOG	Server <---------- DUT
0:12:07.559171	LOG	Attempt 7/15
0:12:12.541336	LOG	PUSH_ACK: 02 0179 01

0:12:12.543335	LOG	PUSH_DATA: Protocol version = 02, Token = 0179, Identifier = 00, JSON = {'rxpk': [{'tmst': 3973936981, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICCA3QABm7ACicw1'}]}
0:12:12.544335	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00dd, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 0289cc35)
0:12:12.545334	LOG	Server <---------- DUT
0:12:12.547333	LOG	Attempt 8/15
0:12:15.858449	LOG	PULL_DATA: 02 ba4e 02 aa555a0000240409
0:12:15.860448	LOG	PULL_ACK: 02 ba4e 04
0:12:17.581469	LOG	PUSH_ACK: 02 017a 01
0:12:17.583468	LOG	PUSH_DATA: Protocol version = 02, Token = 017a, Identifier = 00, JSON = {'rxpk': [{'tmst': 3978939549, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA3gABRRZuRsux'}]}
0:12:17.584467	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00de, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 6e46cbb1)
0:12:17.586466	LOG	Server <---------- DUT
0:12:17.587466	LOG	Attempt 9/15
0:12:22.569631	LOG	PUSH_ACK: 02 017b 01
0:12:22.572629	LOG	PUSH_DATA: Protocol version = 02, Token = 017b, Identifier = 00, JSON = {'rxpk': [{'tmst': 3983942109, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICCA3wABarm5EPW+'}]}
0:12:22.573629	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00df, FOpts:), FPort: 01, FRMPayload: 0014, MIC: b910f5be)
0:12:22.575628	LOG	Server <---------- DUT
0:12:22.578626	LOG	Attempt 10/15
0:12:25.938353	LOG	PULL_DATA: 02 f8f6 02 aa555a0000240409
0:12:25.940372	LOG	PULL_ACK: 02 f8f6 04
0:12:27.557889	LOG	PUSH_ACK: 02 017c 01
0:12:27.560888	LOG	PUSH_DATA: Protocol version = 02, Token = 017c, Identifier = 00, JSON = {'rxpk': [{'tmst': 3988944669, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA4AABy/tHh8q9'}]}
0:12:27.561887	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00e0, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 4787cabd)
0:12:27.563886	LOG	Server <---------- DUT
0:12:27.565885	LOG	Attempt 11/15
0:12:32.563995	LOG	PUSH_ACK: 02 017e 01
0:12:32.565992	LOG	PUSH_DATA: Protocol version = 02, Token = 017e, Identifier = 00, JSON = {'rxpk': [{'tmst': 3993947245, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA4QABBcJiqzYh'}]}
0:12:32.566965	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00e1, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 62ab3621)
0:12:32.568991	LOG	Server <---------- DUT
0:12:32.570989	LOG	Attempt 12/15
0:12:36.018088	LOG	PULL_DATA: 02 c716 02 aa555a0000240409
0:12:36.022086	LOG	PULL_ACK: 02 c716 04
0:12:37.603189	LOG	PUSH_ACK: 02 017f 01
0:12:37.605186	LOG	PUSH_DATA: Protocol version = 02, Token = 017f, Identifier = 00, JSON = {'rxpk': [{'tmst': 3998949805, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA4gABYOibjXV+'}]}

0:12:37.606185	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00e2, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 9b8d757e)
0:12:37.608184	LOG	Server <---------- DUT
0:12:37.609183	LOG	Attempt 13/15
0:12:42.592348	LOG	PUSH_ACK: 02 0180 01
0:12:42.596346	LOG	PUSH_DATA: Protocol version = 02, Token = 0180, Identifier = 00, JSON = {'rxpk': [{'tmst': 4003952373, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA4wABniQsMdaN'}]}
0:12:42.598345	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00e3, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 2c31d68d)
0:12:42.599345	LOG	Server <---------- DUT
0:12:42.601343	LOG	Attempt 14/15
0:12:46.098584	LOG	PULL_DATA: 02 9e73 02 aa555a0000240409
0:12:46.099583	LOG	PULL_ACK: 02 9e73 04
0:12:47.582740	LOG	PUSH_ACK: 02 0181 01
0:12:47.584739	LOG	PUSH_DATA: Protocol version = 02, Token = 0181, Identifier = 00, JSON = {'rxpk': [{'tmst': 4008954941, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA5AAB57cTY52Q'}]}
0:12:47.586738	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00e4, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 13639d90)
0:12:47.588737	LOG	Server <---------- DUT
0:12:47.589736	LOG	Attempt 15/15
0:12:52.570904	LOG	PUSH_ACK: 02 0182 01
0:12:52.572901	LOG	PUSH_DATA: Protocol version = 02, Token = 0182, Identifier = 00, JSON = {'rxpk': [{'tmst': 4013957517, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -47, 'size': 15, 'data': 'QCAgICCA5QABFkisfmN/'}]}
0:12:52.574900	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00e5, FOpts:), FPort: 01, FRMPayload: 0014, MIC: ac7e637f)
0:12:52.575899	LOG	Server <---------- DUT
0:12:52.584894	LOG	Receive frame on specific channels process tested successfully
0:12:52.587893	LOG	End Test Step: Receive in default frequencies after remove
0:12:52.591890	LOG	Partial Verdict: PASS
0:12:52.594888	LOG	==========
0:12:52.602884	LOG	==========
0:12:52.605882	LOG	Start Test Step: Invalid command processing - Frequency
0:12:52.615876	LOG	Send NewChannelReq process starts
0:12:56.178849	LOG	PULL_DATA: 02 1108 02 aa555a0000240409
0:12:56.179851	LOG	PULL_ACK: 02 1108 04
0:12:57.610036	LOG	PUSH_ACK: 02 0183 01
0:12:57.613038	LOG	PUSH_DATA: Protocol version = 02, Token = 0183, Identifier = 00, JSON = {'rxpk': [{'tmst': 4018960093, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA5gAB75UqXzOB'}]}
0:12:57.614034	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00e6, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 2a5f3381)
0:12:57.615062	LOG	Server <---------- DUT
0:12:57.617037	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0126, FOpts:), FPort: 00, FRMPayload: 070398e68a50), MIC: 6249afc0)
0:12:57.620036	LOG	PULL_RESP: Protocol version = 02, Token = aff7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4020960093, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YCAgICAAJgEAb3LnohmpYkmvwA=='}}
0:12:57.622032	LOG	Server ----------> DUT

0:12:57.625028	LOG	TX_ACK: 02 aff7 05 aa555a0000240409
0:13:02.594199	LOG	PUSH_ACK: 02 0185 01
0:13:02.596198	LOG	PUSH_DATA: Protocol version = 02, Token = 0185, Identifier = 00, JSON = {'rxpk': [{'tmst': 4023967806, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 17, 'data': 'QCAgICCC5wAHAgG6mAjbPm0='}]}
0:13:02.598197	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 00e7, FOpts: 0702), FPort: 01, FRMPayload: 0014, MIC: 08db3e6d)
0:13:02.599197	LOG	Server <---------- DUT
0:13:02.601195	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:13:02.603194	LOG	Command Answer: 0702
0:13:02.611190	LOG	End Test Step: Invalid command processing - Frequency
0:13:02.616187	LOG	Partial Verdict: PASS
0:13:02.621184	LOG	==========
0:13:02.626181	LOG	==========
0:13:02.628180	LOG	Start Test Step: Invalid command processing - Data Rate
0:13:02.640173	LOG	Send NewChannelReq process starts
0:13:06.228132	LOG	PULL_DATA: 02 db04 02 aa555a0000240409
0:13:06.233129	LOG	PULL_ACK: 02 db04 04
0:13:12.619496	LOG	PUSH_ACK: 02 0187 01
0:13:12.622495	LOG	PUSH_DATA: Protocol version = 02, Token = 0187, Identifier = 00, JSON = {'rxpk': [{'tmst': 4033967838, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICCA6AABuGs3HZuL'}]}
0:13:12.623494	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00e8, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 371d9b8b)
0:13:12.625493	LOG	Server <---------- DUT
0:13:12.627491	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0127, FOpts:), FPort: 00, FRMPayload: 070328768498), MIC: c0764bb7)
0:13:12.630490	LOG	PULL_RESP: Protocol version = 02, Token = 6f75, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4035967838, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YCAgICAAJwEA8/d3yVOEwHZLtw=='}}
0:13:12.631489	LOG	Server ----------> DUT
0:13:12.635487	LOG	TX_ACK: 02 6f75 05 aa555a0000240409
0:13:16.408340	LOG	PULL_DATA: 02 6022 02 aa555a0000240409
0:13:16.409339	LOG	PULL_ACK: 02 6022 04
0:13:17.589165	LOG	PUSH_ACK: 02 0188 01
0:13:17.591163	LOG	PUSH_DATA: Protocol version = 02, Token = 0188, Identifier = 00, JSON = {'rxpk': [{'tmst': 4038975538, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -44, 'size': 17, 'data': 'QCAgICCC6QAHAQF0QOjqWJU='}]}
0:13:17.593163	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 00e9, FOpts: 0701), FPort: 01, FRMPayload: 0014, MIC: e8ea5895)
0:13:17.594162	LOG	Server <---------- DUT
0:13:17.596161	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:13:17.598160	LOG	Command Answer: 0701
0:13:17.605155	LOG	End Test Step: Invalid command processing - Data Rate
0:13:17.608153	LOG	Partial Verdict: PASS
0:13:17.612151	LOG	==========
0:13:17.618148	LOG	==========
0:13:17.621146	LOG	Start Test Step: Removal of default channels - not allowed
0:13:17.632141	LOG	Send MAC command block process starts
0:13:26.488134	LOG	PULL_DATA: 02 0aa7 02 aa555a0000240409

0:13:26.518117	LOG	PULL_ACK: 02 0aa7 04
0:13:27.612495	LOG	PUSH_ACK: 02 0189 01
0:13:27.614494	LOG	PUSH_DATA: Protocol version = 02, Token = 0189, Identifier = 00, JSON = {'rxpk': [{'tmst': 4048975586, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA6gABGfflmp8t'}]}
0:13:27.615493	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00ea, FOpts:), FPort: 01, FRMPayload: 0014, MIC: e59a9f2d)
0:13:27.617492	LOG	Server <---------- DUT
0:13:27.619491	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0128, FOpts:), FPort: 00, FRMPayload: 07000000005007010000005007020000005 0), MIC: 4d426c86)
0:13:27.622490	LOG	PULL_RESP: Protocol version = 02, Token = 4ec8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4050975586, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 31, 'data': 'YCAgICAAKAEAFCHV10sphkebre1UriEGP6UaTUJshg=='}}
0:13:27.623489	LOG	Server ----------> DUT
0:13:27.627486	LOG	TX_ACK: 02 4ec8 05 aa555a0000240409
0:13:32.625643	LOG	PUSH_ACK: 02 018b 01
0:13:32.627642	LOG	PUSH_DATA: Protocol version = 02, Token = 018b, Identifier = 00, JSON = {'rxpk': [{'tmst': 4053988459, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 21, 'data': 'QCAgICCG6wAHAAcABwABUDRdGwLp'}]}
0:13:32.629641	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 86, FCnt: 00eb, FOpts: 070007000700), FPort: 01, FRMPayload: 0014, MIC: 5d1b02e9)
0:13:32.630640	LOG	Server <---------- DUT
0:13:32.632639	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:13:32.633638	LOG	Command Answer: 070007000700
0:13:32.702599	LOG	MAC command communication completed
0:13:32.706598	LOG	Receive frame on specific channels process starts
0:13:32.715592	LOG	Attempt 1/15
0:13:36.648689	LOG	PULL_DATA: 02 4d31 02 aa555a0000240409
0:13:36.652673	LOG	PULL_ACK: 02 4d31 04
0:13:42.598309	LOG	PUSH_ACK: 02 018c 01
0:13:42.599309	LOG	PUSH_DATA: Protocol version = 02, Token = 018c, Identifier = 00, JSON = {'rxpk': [{'tmst': 4063983315, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA7AAB8vqX6+A3'}]}
0:13:42.601308	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00ec, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 97ebe037)
0:13:42.603307	LOG	Server <---------- DUT
0:13:42.604306	LOG	Attempt 2/15
0:13:46.727959	LOG	PULL_DATA: 02 b55b 02 aa555a0000240409
0:13:46.729959	LOG	PULL_ACK: 02 b55b 04
0:13:47.637442	LOG	PUSH_ACK: 02 018d 01
0:13:47.640441	LOG	PUSH_DATA: Protocol version = 02, Token = 018d, Identifier = 00, JSON = {'rxpk': [{'tmst': 4068985883, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA7QABGMMv4VVU'}]}
0:13:47.641440	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00ed, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 2fe15554)
0:13:47.643439	LOG	Server <---------- DUT
0:13:47.645438	LOG	Attempt 3/15
0:13:52.626604	LOG	PUSH_ACK: 02 018e 01

0:13:52.628603	LOG	PUSH_DATA: Protocol version = 02, Token = 018e, Identifier = 00, JSON = {'rxpk': [{'tmst': 4073988451, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA7gAB+Pif6a0N'}]}
0:13:52.630602	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00ee, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 9fe9ad0d)
0:13:52.632601	LOG	Server <---------- DUT
0:13:52.634600	LOG	Attempt 4/15
0:13:56.808225	LOG	PULL_DATA: 02 03a0 02 aa555a0000240409
0:13:56.809226	LOG	PULL_ACK: 02 03a0 04
0:13:57.614766	LOG	PUSH_ACK: 02 018f 01
0:13:57.616765	LOG	PUSH_DATA: Protocol version = 02, Token = 018f, Identifier = 00, JSON = {'rxpk': [{'tmst': 4078991019, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA7wABzBAUrION'}]}
0:13:57.617764	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00ef, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 14ac838d)
0:13:57.619763	LOG	Server <---------- DUT
0:13:57.620763	LOG	Attempt 5/15
0:14:02.615921	LOG	PUSH_ACK: 02 0191 01
0:14:02.617920	LOG	PUSH_DATA: Protocol version = 02, Token = 0191, Identifier = 00, JSON = {'rxpk': [{'tmst': 4083993579, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -47, 'size': 15, 'data': 'QCAgICCA8AABsLcxAREG'}]}
0:14:02.618919	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00f0, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 31011106)
0:14:02.620918	LOG	Server <---------- DUT
0:14:02.622919	LOG	Attempt 6/15
0:14:06.887491	LOG	PULL_DATA: 02 0d22 02 aa555a0000240409
0:14:06.891489	LOG	PULL_ACK: 02 0d22 04
0:14:07.603084	LOG	PUSH_ACK: 02 0192 01
0:14:07.605083	LOG	PUSH_DATA: Protocol version = 02, Token = 0192, Identifier = 00, JSON = {'rxpk': [{'tmst': 4088996147, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICCA8QABj3gn2ojL'}]}
0:14:07.607081	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00f1, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 27da88cb)
0:14:07.608081	LOG	Server <---------- DUT
0:14:07.610080	LOG	Attempt 7/15
0:14:12.643217	LOG	PUSH_ACK: 02 0193 01
0:14:12.645215	LOG	PUSH_DATA: Protocol version = 02, Token = 0193, Identifier = 00, JSON = {'rxpk': [{'tmst': 4093998715, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -47, 'size': 15, 'data': 'QCAgICCA8gABaX6ZkncB'}]}
0:14:12.646214	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00f2, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 99927701)
0:14:12.648213	LOG	Server <---------- DUT
0:14:12.650213	LOG	Attempt 8/15
0:14:16.967775	LOG	PULL_DATA: 02 0d47 02 aa555a0000240409
0:14:16.969755	LOG	PULL_ACK: 02 0d47 04
0:14:17.631378	LOG	PUSH_ACK: 02 0194 01
0:14:17.633377	LOG	PUSH_DATA: Protocol version = 02, Token = 0194, Identifier = 00, JSON = {'rxpk': [{'tmst': 4099001275, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICCA8wABYaxmHPd+'}]}

0:14:17.635376	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00f3, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 661cf77e)
0:14:17.636375	LOG	Server <---------- DUT
0:14:17.638374	LOG	Attempt 9/15
0:14:22.620540	LOG	PUSH_ACK: 02 0195 01
0:14:22.622539	LOG	PUSH_DATA: Protocol version = 02, Token = 0195, Identifier = 00, JSON = {'rxpk': [{'tmst': 4104003859, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA9AABNHUC0UtT'}]}
0:14:22.623538	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00f4, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 02d14b53)
0:14:22.625537	LOG	Server <---------- DUT
0:14:22.626537	LOG	Attempt 10/15
0:14:27.048022	LOG	PULL_DATA: 02 5dcd 02 aa555a0000240409
0:14:27.050020	LOG	PULL_ACK: 02 5dcd 04
0:14:27.608702	LOG	PUSH_ACK: 02 0196 01
0:14:27.610701	LOG	PUSH_DATA: Protocol version = 02, Token = 0196, Identifier = 00, JSON = {'rxpk': [{'tmst': 4109006419, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA9QABNqn4E3fU'}]}
0:14:27.612702	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00f5, FOpts:), FPort: 01, FRMPayload: 0014, MIC: f81377d4)
0:14:27.613700	LOG	Server <---------- DUT
0:14:27.615699	LOG	Attempt 11/15
0:14:32.613855	LOG	PUSH_ACK: 02 0198 01
0:14:32.615853	LOG	PUSH_DATA: Protocol version = 02, Token = 0198, Identifier = 00, JSON = {'rxpk': [{'tmst': 4114008979, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCA9gABbhLYKJG/'}]}
0:14:32.617854	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00f6, FOpts:), FPort: 01, FRMPayload: 0014, MIC: d82891bf)
0:14:32.618853	LOG	Server <---------- DUT
0:14:32.620852	LOG	Attempt 12/15
0:14:37.127286	LOG	PULL_DATA: 02 9b87 02 aa555a0000240409
0:14:37.131285	LOG	PULL_ACK: 02 9b87 04
0:14:37.653023	LOG	PUSH_ACK: 02 0199 01
0:14:37.654022	LOG	PUSH_DATA: Protocol version = 02, Token = 0199, Identifier = 00, JSON = {'rxpk': [{'tmst': 4119011555, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICCA9wABEYXbOedp'}]}
0:14:37.656022	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00f7, FOpts:), FPort: 01, FRMPayload: 0014, MIC: db39e769)
0:14:37.657021	LOG	Server <---------- DUT
0:14:37.658021	LOG	Attempt 13/15
0:14:42.640236	LOG	PUSH_ACK: 02 019a 01
0:14:42.642234	LOG	PUSH_DATA: Protocol version = 02, Token = 019a, Identifier = 00, JSON = {'rxpk': [{'tmst': 4124014123, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA+AABHZiVEvTj'}]}
0:14:42.644235	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00f8, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 9512f4e3)
0:14:42.645232	LOG	Server <---------- DUT
0:14:42.647231	LOG	Attempt 14/15
0:14:47.207637	LOG	PULL_DATA: 02 7856 02 aa555a0000240409
0:14:47.208636	LOG	PULL_ACK: 02 7856 04
0:14:47.628398	LOG	PUSH_ACK: 02 019b 01

0:14:47.630397	LOG	PUSH_DATA: Protocol version = 02, Token = 019b, Identifier = 00, JSON = {'rxpk': [{'tmst': 4129016691, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -47, 'size': 15, 'data': 'QCAgICCA+QAB49MJkG+8'}]}
0:14:47.632395	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00f9, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 09906fbc)
0:14:47.633394	LOG	Server <---------- DUT
0:14:47.635393	LOG	Attempt 15/15
0:14:52.667495	LOG	PUSH_ACK: 02 019c 01
0:14:52.670493	LOG	PUSH_DATA: Protocol version = 02, Token = 019c, Identifier = 00, JSON = {'rxpk': [{'tmst': 4134019251, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA+gABt+ZlEst2'}]}
0:14:52.671493	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00fa, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 6512cb76)
0:14:52.673492	LOG	Server <---------- DUT
0:14:52.682487	LOG	Receive frame on specific channels process tested successfully
0:14:52.687484	LOG	End Test Step: Removal of default channels - not allowed
0:14:52.692481	LOG	Partial Verdict: PASS
0:14:52.698478	LOG	==========
0:14:52.708472	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_006
0:14:52.710471	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_007	
Verdict	PASS	
Date	2021-10-18 00:15:36	
Comments	DlChannelReq for Dynamic Channel plan devices only	
Technology Version	LCTT v3.1.0_D1 | GUI v1.10.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.1	
Test Specs Version	USv1.5.1/EUv1.6/KRv1.2.1/ASv1.1.1/INv1.1.1/ALLv1.1	
Project	MLSv2.0.0	
Project Creation Date	2021-10-17 22:25:22	
Sample	DevID:SAMR34-XPRO | AppID:CertApp_EU_ABP | SW:MLSv2.0.0 | HW:SAMR34J18B	
Parameters	Conformance	TRUE

Time Stamp (ms)	Event	Summary
0:00:00.009964	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_007
0:00:00.041946	LOG	==========
0:00:00.043945	LOG	Start Test Step: Device activation
0:00:00.101932	LOG	Activation process has finished successfully
0:00:00.104912	LOG	Data stored in the DUT after Activation:
0:00:00.106912	LOG	DevAddr: 20202020
0:00:00.108909	LOG	AppEUI: abcdabcdabcdabcd
0:00:00.111907	LOG	NwkSKey: abcdabcdabcdabcdabcdabcdabcdabcd
0:00:00.113679	LOG	AppSKey: 12345678123456781234567812345678
0:00:00.115699	LOG	End Test Step: Device activation
0:00:00.118697	LOG	Partial Verdict: PASS
0:00:00.122677	LOG	==========
0:00:00.129672	LOG	==========
0:00:00.132670	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.143664	LOG	DUT Pre-condition activation process starts
0:00:00.146663	LOG	DUT Pre-condition activation completed
0:00:00.149661	LOG	End Test Step: DUT Pre-condition settings
0:00:00.152659	LOG	Partial Verdict: PASS

0:00:00.155657	LOG	==========
0:00:00.159655	LOG	==========
0:00:00.161654	LOG	Start Test Step: DlChannel Request
0:00:00.173647	LOG	Send DlChannelReq process starts
0:00:02.439409	LOG	PUSH_DATA received while waiting first PULL_DATA
0:00:07.234680	LOG	PULL_DATA: 02 86ea 02 aa555a0000240409
0:00:07.235681	LOG	PULL_ACK: 02 86ea 04
0:00:07.237679	LOG	First PULL_DATA received
0:00:07.436566	LOG	PUSH_ACK: 02 01a2 01
0:00:07.439564	LOG	PUSH_DATA: Protocol version = 02, Token = 01a2, Identifier = 00, JSON = {'rxpk': [{'tmst': 4159032107, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA/wAB0n0xyFUm'}]}
0:00:07.441563	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00ff, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 31c85526)
0:00:07.442562	LOG	Server <---------- DUT
0:00:07.444562	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0129, FOpts:), FPort: 00, FRMPayload: 0a00f87d84), MIC: 42a8e4f4)
0:00:07.446560	LOG	PULL_RESP: Protocol version = 02, Token = a8ff, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4160032107, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAKQEAQ0cAZ7tCqOT0'}}
0:00:07.448560	LOG	Server ----------> DUT
0:00:07.451558	LOG	TX_ACK: 02 a8ff 05 aa555a0000240409
0:00:12.431724	LOG	PUSH_ACK: 02 01a3 01
0:00:12.433723	LOG	PUSH_DATA: Protocol version = 02, Token = 01a3, Identifier = 00, JSON = {'rxpk': [{'tmst': 4164039790, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCAAEKAwFSdbGh21E='}]}
0:00:12.434722	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0100, FOpts: 0a03), FPort: 01, FRMPayload: 0014, MIC: b1a1db51)
0:00:12.435721	LOG	Server <---------- DUT
0:00:12.437721	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:12.438720	LOG	Command Answer: 0a03
0:00:12.444493	LOG	MAC command communication completed
0:00:12.451489	LOG	End Test Step: DlChannel Request
0:00:12.454487	LOG	Partial Verdict: PASS
0:00:12.458487	LOG	==========
0:00:12.463482	LOG	==========
0:00:12.466480	LOG	Start Test Step: Test reply retransmission
0:00:12.479473	LOG	Expect a MAC answer retransmission
0:00:17.314772	LOG	PULL_DATA: 02 0f98 02 aa555a0000240409
0:00:17.315773	LOG	PULL_ACK: 02 0f98 04
0:00:22.472854	LOG	PUSH_ACK: 02 01a5 01
0:00:22.475837	LOG	PUSH_DATA: Protocol version = 02, Token = 01a5, Identifier = 00, JSON = {'rxpk': [{'tmst': 4174044958, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCAQEKAwGH5jQhn6k='}]}
0:00:22.476836	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0101, FOpts: 0a03), FPort: 01, FRMPayload: 0014, MIC: 34219fa9)
0:00:22.477836	LOG	Server <---------- DUT
0:00:22.479833	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:22.483831	LOG	MAC answer retransmission completed
0:00:22.487830	LOG	Expect a MAC answer retransmission

0:00:27.394036	LOG	PULL_DATA: 02 f2eb 02 aa555a0000240409
0:00:27.396035	LOG	PULL_ACK: 02 f2eb 04
0:00:32.445164	LOG	PUSH_ACK: 02 01a6 01
0:00:32.449161	LOG	PUSH_DATA: Protocol version = 02, Token = 01a6, Identifier = 00, JSON = {'rxpk': [{'tmst': 4184050102, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCAgEKAwH7YMvfRyw='}]}
0:00:32.451159	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0102, FOpts: 0a03), FPort: 01, FRMPayload: 0014, MIC: cbdf472c)
0:00:32.452159	LOG	Server <---------- DUT
0:00:32.453158	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:32.457156	LOG	MAC answer retransmission completed
0:00:32.461154	LOG	Expect a MAC answer retransmission
0:00:37.474300	LOG	PULL_DATA: 02 9c53 02 aa555a0000240409
0:00:37.476300	LOG	PULL_ACK: 02 9c53 04
0:00:42.470458	LOG	PUSH_ACK: 02 01a7 01
0:00:42.472457	LOG	PUSH_DATA: Protocol version = 02, Token = 01a7, Identifier = 00, JSON = {'rxpk': [{'tmst': 4194055254, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCAwEKAwHaIMObmo8='}]}
0:00:42.474456	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0103, FOpts: 0a03), FPort: 01, FRMPayload: 0014, MIC: c39b9a8f)
0:00:42.476455	LOG	Server <---------- DUT
0:00:42.478453	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:42.484450	LOG	MAC answer retransmission completed
0:00:42.492446	LOG	Test EchoPayloadReq in default channels process starts
0:00:47.554685	LOG	PULL_DATA: 02 0da7 02 aa555a0000240409
0:00:49.068824	LOG	PULL_ACK: 02 0da7 04
0:00:52.451898	LOG	PUSH_ACK: 02 01a9 01
0:00:52.453897	LOG	PUSH_DATA: Protocol version = 02, Token = 01a9, Identifier = 00, JSON = {'rxpk': [{'tmst': 4204060414, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCBAEKAwF7J0JXBbU='}]}
0:00:52.455896	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0104, FOpts: 0a03), FPort: 01, FRMPayload: 0014, MIC: 425705b5)
0:00:52.456895	LOG	Server <---------- DUT
0:00:52.458895	LOG	Attempt 0/15
0:00:52.459896	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 012a, FOpts:), FPort: e0, FRMPayload: 080a0b0c), MIC: c8e05a49)
0:00:52.463893	LOG	PULL_RESP: Protocol version = 02, Token = eb84, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4205060414, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YCAgICAAKgHgeFLjp8jgWkk='}}
0:00:52.464893	LOG	Server ----------> DUT
0:00:52.466890	LOG	Echo sent to the DUT
0:00:57.714550	LOG	PULL_DATA: 02 fa5a 02 aa555a0000240409
0:00:57.716549	LOG	PULL_ACK: 02 fa5a 04
0:01:02.492208	LOG	PUSH_ACK: 02 01ab 01
0:01:02.501200	LOG	PUSH_DATA: Protocol version = 02, Token = 01ab, Identifier = 00, JSON = {'rxpk': [{'tmst': 4214068664, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -45, 'size': 17, 'data': 'QCAgICCABQHgDB6ExTQ8fi4='}]}
0:01:02.504200	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0105, FOpts:), FPort: e0, FRMPayload: 080b0c0d, MIC: 343c7e2e)

0:01:02.507197	LOG	Server <---------- DUT
0:01:02.509192	LOG	Echo Ans is correct: 0b0c0d
0:01:02.510209	LOG	Frequencies received: [868.5]
0:01:07.794256	LOG	PULL_DATA: 02 d8b0 02 aa555a0000240409
0:01:07.795255	LOG	PULL_ACK: 02 d8b0 04
0:01:12.470596	LOG	PUSH_ACK: 02 01ac 01
0:01:12.472613	LOG	PUSH_DATA: Protocol version = 02, Token = 01ac, Identifier = 00, JSON = {'rxpk': [{'tmst': 4224065568, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCABgEBz3brN1Be'}]}
0:01:12.474596	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0106, FOpts:), FPort: 01, FRMPayload: 0015, MIC: eb37505e)
0:01:12.475595	LOG	Server <---------- DUT
0:01:12.477594	LOG	Attempt 1/15
0:01:12.478594	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 012b, FOpts:), FPort: e0, FRMPayload: 080a0b0c), MIC: 55545c31)
0:01:12.481593	LOG	PULL_RESP: Protocol version = 02, Token = 5dd0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4225065568, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YCAgICAAKwHgWJDcxlVUXDE='}}
0:01:12.482589	LOG	Server ----------> DUT
0:01:12.484591	LOG	Echo sent to the DUT
0:01:17.511885	LOG	PUSH_ACK: 02 01ad 01
0:01:17.513882	LOG	PUSH_DATA: Protocol version = 02, Token = 01ad, Identifier = 00, JSON = {'rxpk': [{'tmst': 4229076394, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 17, 'data': 'QCAgICCABwHgPYg6ROPV9w4='}]}
0:01:17.514881	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0107, FOpts:), FPort: e0, FRMPayload: 080b0c0d, MIC: e3d5f70e)
0:01:17.516880	LOG	Server <---------- DUT
0:01:17.517879	LOG	Echo Ans is correct: 0b0c0d
0:01:17.518884	LOG	Frequencies received: [868.5, 868.3]
0:01:17.943635	LOG	PULL_DATA: 02 b5db 02 aa555a0000240409
0:01:17.945635	LOG	PULL_ACK: 02 b5db 04
0:01:27.497246	LOG	PUSH_ACK: 02 01af 01
0:01:27.499245	LOG	PUSH_DATA: Protocol version = 02, Token = 01af, Identifier = 00, JSON = {'rxpk': [{'tmst': 4239073306, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICCACAEBXHU4ov5T'}]}
0:01:27.500244	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0108, FOpts:), FPort: 01, FRMPayload: 0016, MIC: 38a2fe53)
0:01:27.562040	LOG	Server <---------- DUT
0:01:27.566071	LOG	Attempt 2/15
0:01:27.569075	LOG	Uplink frequency currently checked. All received: [868.5, 868.3] Expected: [868.1, 868.3, 868.5]
0:01:28.024237	LOG	PULL_DATA: 02 50c2 02 aa555a0000240409
0:01:28.026236	LOG	PULL_ACK: 02 50c2 04
0:01:32.484729	LOG	PUSH_ACK: 02 01b0 01
0:01:32.486728	LOG	PUSH_DATA: Protocol version = 02, Token = 01b0, Identifier = 00, JSON = {'rxpk': [{'tmst': 4244075858, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCACQEB5xw5NGfV'}]}
0:01:32.487727	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0109, FOpts:), FPort: 01, FRMPayload: 0016, MIC: 393467d5)
0:01:32.488727	LOG	Server <---------- DUT
0:01:32.490726	LOG	Attempt 3/15

0:01:32.491725	LOG	Uplink frequency currently checked. All received: [868.5, 868.3] Expected: [868.1, 868.3, 868.5]
0:01:37.473002	LOG	PUSH_ACK: 02 01b1 01
0:01:37.482025	LOG	PUSH_DATA: Protocol version = 02, Token = 01b1, Identifier = 00, JSON = {'rxpk': [{'tmst': 4249078426, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCACgEBB1OLF8F/'}]}
0:01:37.485023	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 010a, FOpts:), FPort: 01, FRMPayload: 0016, MIC: 8b17c17f)
0:01:37.488021	LOG	Server <---------- DUT
0:01:37.489020	LOG	Attempt 4/15
0:01:37.490021	LOG	Uplink frequency currently checked. All received: [868.5, 868.3] Expected: [868.1, 868.3, 868.5]
0:01:38.103737	LOG	PULL_DATA: 02 fd5d 02 aa555a0000240409
0:01:38.105704	LOG	PULL_ACK: 02 fd5d 04
0:01:42.520251	LOG	PUSH_ACK: 02 01b2 01
0:01:42.522251	LOG	PUSH_DATA: Protocol version = 02, Token = 01b2, Identifier = 00, JSON = {'rxpk': [{'tmst': 4254080994, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCACwEBxpxzz8Dl'}]}
0:01:42.523248	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 010b, FOpts:), FPort: 01, FRMPayload: 0016, MIC: 73cfc0e5)
0:01:42.525248	LOG	Server <---------- DUT
0:01:42.526246	LOG	Attempt 5/15
0:01:42.527246	LOG	Uplink frequency currently checked. All received: [868.5, 868.3] Expected: [868.1, 868.3, 868.5]
0:01:47.508461	LOG	PUSH_ACK: 02 01b3 01
0:01:47.511460	LOG	PUSH_DATA: Protocol version = 02, Token = 01b3, Identifier = 00, JSON = {'rxpk': [{'tmst': 4259083554, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCADAEB7lRRh2xf'}]}
0:01:47.512459	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 010c, FOpts:), FPort: 01, FRMPayload: 0016, MIC: 51876c5f)
0:01:47.514458	LOG	Server <---------- DUT
0:01:47.516457	LOG	Attempt 6/15
0:01:47.517456	LOG	Uplink frequency currently checked. All received: [868.5, 868.3] Expected: [868.1, 868.3, 868.5]
0:01:48.184077	LOG	PULL_DATA: 02 095a 02 aa555a0000240409
0:01:48.186076	LOG	PULL_ACK: 02 095a 04
0:01:52.511614	LOG	PUSH_ACK: 02 01b5 01
0:01:52.513613	LOG	PUSH_DATA: Protocol version = 02, Token = 01b5, Identifier = 00, JSON = {'rxpk': [{'tmst': 4264086130, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICCADQEBwgP1MLlP'}]}
0:01:52.515612	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 010d, FOpts:), FPort: 01, FRMPayload: 0016, MIC: f530b94f)
0:01:52.517611	LOG	Server <---------- DUT
0:01:52.519610	LOG	Attempt 7/15
0:01:52.520609	LOG	Uplink frequency currently checked. All received: [868.5, 868.3] Expected: [868.1, 868.3, 868.5]
0:01:57.500776	LOG	PUSH_ACK: 02 01b6 01
0:01:57.502775	LOG	PUSH_DATA: Protocol version = 02, Token = 01b6, Identifier = 00, JSON = {'rxpk': [{'tmst': 4269088698, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCADgEBYkfh81yg'}]}

0:01:57.504773	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 010e, FOpts:), FPort: 01, FRMPayload: 0016, MIC: e1f35ca0)
0:01:57.505773	LOG	Server <---------- DUT
0:01:57.506773	LOG	Attempt 8/15
0:01:57.508772	LOG	Uplink frequency currently checked. All received: [868.5, 868.3] Expected: [868.1, 868.3, 868.5]
0:01:58.264341	LOG	PULL_DATA: 02 2aa5 02 aa555a0000240409
0:01:58.265341	LOG	PULL_ACK: 02 2aa5 04
0:02:02.489034	LOG	PUSH_ACK: 02 01b7 01
0:02:02.491033	LOG	PUSH_DATA: Protocol version = 02, Token = 01b7, Identifier = 00, JSON = {'rxpk': [{'tmst': 4274091258, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICCADwEBXfHbjgqL'}]}
0:02:02.493032	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 010f, FOpts:), FPort: 01, FRMPayload: 0016, MIC: db8e0a8b)
0:02:02.494031	LOG	Server <---------- DUT
0:02:02.496030	LOG	Attempt 9/15
0:02:02.497029	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 012c, FOpts:), FPort: e0, FRMPayload: 080a0b0c), MIC: df78fe2b)
0:02:02.500028	LOG	PULL_RESP: Protocol version = 02, Token = feb2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4275091258, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YCAgICAALAHgLjGNRd94/is='}}
0:02:02.501027	LOG	Server ----------> DUT
0:02:02.502026	LOG	Echo sent to the DUT
0:02:02.504027	LOG	TX_ACK: 02 feb2 05 aa555a0000240409
0:02:07.537162	LOG	PUSH_ACK: 02 01b8 01
0:02:07.541159	LOG	PUSH_DATA: Protocol version = 02, Token = 01b8, Identifier = 00, JSON = {'rxpk': [{'tmst': 4279102077, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 17, 'data': 'QCAgICCAEAHgxiXEuHF8yw0='}]}
0:02:07.542159	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0110, FOpts:), FPort: e0, FRMPayload: 080b0c0d, MIC: 717ccb0d)
0:02:07.543159	LOG	Server <---------- DUT
0:02:07.545157	LOG	Echo Ans is correct: 0b0c0d
0:02:07.546156	LOG	Frequencies received: [868.5, 868.3, 868.1]
0:02:07.551154	LOG	Test EchoPayloadReq in default channels process complete
0:02:07.556150	LOG	End Test Step: Test reply retransmission
0:02:07.559149	LOG	Partial Verdict: PASS
0:02:07.563165	LOG	==========
0:02:07.568146	LOG	==========
0:02:07.570143	LOG	Start Test Step: Restore default downlink parameters
0:02:07.583135	LOG	Send DlChannelReq process starts
0:02:08.383748	LOG	PULL_DATA: 02 e2a3 02 aa555a0000240409
0:02:08.385748	LOG	PULL_ACK: 02 e2a3 04
0:02:17.510710	LOG	PUSH_ACK: 02 01b9 01
0:02:17.512691	LOG	PUSH_DATA: Protocol version = 02, Token = 01b9, Identifier = 00, JSON = {'rxpk': [{'tmst': 4289098973, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAEQEBXTmBeJFQ'}]}
0:02:17.514692	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0111, FOpts:), FPort: 01, FRMPayload: 0017, MIC: 81789150)
0:02:17.516688	LOG	Server <---------- DUT
0:02:17.518686	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 012d, FOpts:), FPort: 00, FRMPayload: 0a00287684), MIC: 95ba6ce8)

0:02:17.520685	LOG	PULL_RESP: Protocol version = 02, Token = 1036, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4291098973, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAALQEA57ZdQfOVumzo'}}
0:02:17.522684	LOG	Server ----------> DUT
0:02:17.525682	LOG	TX_ACK: 02 1036 05 aa555a0000240409
0:02:18.574138	LOG	PULL_DATA: 02 fbb7 02 aa555a0000240409
0:02:18.575137	LOG	PULL_ACK: 02 fbb7 04
0:02:22.512937	LOG	PUSH_ACK: 02 01bb 01
0:02:22.514937	LOG	PUSH_DATA: Protocol version = 02, Token = 01bb, Identifier = 00, JSON = {'rxpk': [{'tmst': 4294106670, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCEgEKAwGzep0xzBI='}]}
0:02:22.516937	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0112, FOpts: 0a03), FPort: 01, FRMPayload: 0017, MIC: 9d31cc12)
0:02:22.517934	LOG	Server <---------- DUT
0:02:22.518936	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:22.519935	LOG	Command Answer: 0a03
0:02:22.526929	LOG	MAC command communication completed
0:02:22.532946	LOG	End Test Step: Restore default downlink parameters
0:02:22.535943	LOG	Partial Verdict: PASS
0:02:22.538941	LOG	==========
0:02:22.542920	LOG	==========
0:02:22.544920	LOG	Start Test Step: Test reply retransmission default
0:02:22.557912	LOG	Expect a MAC answer retransmission
0:02:28.653601	LOG	PULL_DATA: 02 1347 02 aa555a0000240409
0:02:28.655599	LOG	PULL_ACK: 02 1347 04
0:02:32.538360	LOG	PUSH_ACK: 02 01bd 01
0:02:32.540359	LOG	PUSH_DATA: Protocol version = 02, Token = 01bd, Identifier = 00, JSON = {'rxpk': [{'tmst': 9144526, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCEwEKAwHtEO4GhVk='}]}
0:02:32.541361	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0113, FOpts: 0a03), FPort: 01, FRMPayload: 0017, MIC: ee068559)
0:02:32.543358	LOG	Server <---------- DUT
0:02:32.544357	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:32.548357	LOG	MAC answer retransmission completed
0:02:32.550354	LOG	Expect a MAC answer retransmission
0:02:38.733937	LOG	PULL_DATA: 02 549a 02 aa555a0000240409
0:02:38.738933	LOG	PULL_ACK: 02 549a 04
0:02:42.510789	LOG	PUSH_ACK: 02 01be 01
0:02:42.515786	LOG	PUSH_DATA: Protocol version = 02, Token = 01be, Identifier = 00, JSON = {'rxpk': [{'tmst': 19149678, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -44, 'size': 17, 'data': 'QCAgICCCFAEKAwEllK7GneI='}]}
0:02:42.549765	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0114, FOpts: 0a03), FPort: 01, FRMPayload: 0017, MIC: aec69de2)
0:02:42.551765	LOG	Server <---------- DUT
0:02:42.552763	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:42.556761	LOG	MAC answer retransmission completed
0:02:42.560759	LOG	Expect a MAC answer retransmission
0:02:48.813201	LOG	PULL_DATA: 02 3163 02 aa555a0000240409
0:02:48.816199	LOG	PULL_ACK: 02 3163 04

0:02:52.554072	LOG	PUSH_ACK: 02 01c0 01
0:02:52.556071	LOG	PUSH_DATA: Protocol version = 02, Token = 01c0, Identifier = 00, JSON = {'rxpk': [{'tmst': 29154838, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCFQEKAwG3yS5kt/g='}]}
0:02:52.558069	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0115, FOpts: 0a03), FPort: 01, FRMPayload: 0017, MIC: 2e64b7f8)
0:02:52.560069	LOG	Server <---------- DUT
0:02:52.561068	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:52.567065	LOG	MAC answer retransmission completed
0:02:52.573061	LOG	Test EchoPayloadReq in default channels process starts
0:02:58.903461	LOG	PULL_DATA: 02 3223 02 aa555a0000240409
0:02:58.905458	LOG	PULL_ACK: 02 3223 04
0:03:02.527397	LOG	PUSH_ACK: 02 01c2 01
0:03:02.529396	LOG	PUSH_DATA: Protocol version = 02, Token = 01c2, Identifier = 00, JSON = {'rxpk': [{'tmst': 39159990, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCFgEKAwHpCDEv8jc='}]}
0:03:02.531395	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0116, FOpts: 0a03), FPort: 01, FRMPayload: 0017, MIC: 312ff237)
0:03:02.532394	LOG	Server <---------- DUT
0:03:02.534393	LOG	Attempt 0/15
0:03:02.536392	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 012e, FOpts:), FPort: e0, FRMPayload: 080a0b0c), MIC: cc378c7c)
0:03:02.539390	LOG	PULL_RESP: Protocol version = 02, Token = a707, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 40159990, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YCAgICAALgHgUq5R98w3jHw='}}
0:03:02.540389	LOG	Server ----------> DUT
0:03:02.541389	LOG	Echo sent to the DUT
0:03:09.053745	LOG	PULL_DATA: 02 4ece 02 aa555a0000240409
0:03:09.056743	LOG	PULL_ACK: 02 4ece 04
0:03:12.555754	LOG	PUSH_ACK: 02 01c3 01
0:03:12.557751	LOG	PUSH_DATA: Protocol version = 02, Token = 01c3, Identifier = 00, JSON = {'rxpk': [{'tmst': 49168254, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -47, 'size': 17, 'data': 'QCAgICCAFwHgcshjVcbEGlc='}]}
0:03:12.559750	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0117, FOpts:), FPort: e0, FRMPayload: 080b0c0d, MIC: c6c41a57)
0:03:12.560749	LOG	Server <---------- DUT
0:03:12.562749	LOG	Echo Ans is correct: 0b0c0d
0:03:12.564750	LOG	Frequencies received: [868.1]
0:03:19.133117	LOG	PULL_DATA: 02 765b 02 aa555a0000240409
0:03:19.135116	LOG	PULL_ACK: 02 765b 04
0:03:22.543176	LOG	PUSH_ACK: 02 01c5 01
0:03:22.545176	LOG	PUSH_DATA: Protocol version = 02, Token = 01c5, Identifier = 00, JSON = {'rxpk': [{'tmst': 59165158, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAGAEBISvF4TYH'}]}
0:03:22.547175	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0118, FOpts:), FPort: 01, FRMPayload: 0018, MIC: c5e13607)
0:03:22.548173	LOG	Server <---------- DUT
0:03:22.550173	LOG	Attempt 1/15
0:03:22.552171	LOG	Uplink frequency currently checked. All received: [868.1] Expected: [868.1, 868.3, 868.5]

0:03:27.531338	LOG	PUSH_ACK: 02 01c6 01
0:03:27.533337	LOG	PUSH_DATA: Protocol version = 02, Token = 01c6, Identifier = 00, JSON = {'rxpk': [{'tmst': 64167734, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAGQEB1B0q+guj'}]}
0:03:27.535336	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0119, FOpts:), FPort: 01, FRMPayload: 0018, MIC: 2afa0ba3)
0:03:27.536353	LOG	Server <---------- DUT
0:03:27.538335	LOG	Attempt 2/15
0:03:27.540334	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 012f, FOpts:), FPort: e0, FRMPayload: 080a0b0c), MIC: 245df6f4)
0:03:27.543331	LOG	PULL_RESP: Protocol version = 02, Token = 782d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 65167734, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YCAgICAALwHgzMEgDSRd9vQ='}}
0:03:27.544333	LOG	Server ----------> DUT
0:03:27.546331	LOG	Echo sent to the DUT
0:03:29.223252	LOG	PULL_DATA: 02 7571 02 aa555a0000240409
0:03:29.227247	LOG	PULL_ACK: 02 7571 04
0:03:32.581337	LOG	PUSH_ACK: 02 01c7 01
0:03:32.583336	LOG	PUSH_DATA: Protocol version = 02, Token = 01c7, Identifier = 00, JSON = {'rxpk': [{'tmst': 69178560, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -46, 'size': 17, 'data': 'QCAgICCAGgHgP3leBnSbKOI='}]}
0:03:32.584335	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 011a, FOpts:), FPort: e0, FRMPayload: 080b0c0d, MIC: 749b28e2)
0:03:32.586334	LOG	Server <---------- DUT
0:03:32.587333	LOG	Echo Ans is correct: 0b0c0d
0:03:32.588333	LOG	Frequencies received: [868.1, 868.3]
0:03:39.303016	LOG	PULL_DATA: 02 b64d 02 aa555a0000240409
0:03:39.307995	LOG	PULL_ACK: 02 b64d 04
0:03:42.552370	LOG	PUSH_ACK: 02 01c8 01
0:03:42.554371	LOG	PUSH_DATA: Protocol version = 02, Token = 01c8, Identifier = 00, JSON = {'rxpk': [{'tmst': 79175456, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAGwEB1guryGmn'}]}
0:03:42.555368	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 011b, FOpts:), FPort: 01, FRMPayload: 0019, MIC: abc869a7)
0:03:42.556369	LOG	Server <---------- DUT
0:03:42.557369	LOG	Attempt 3/15
0:03:42.559366	LOG	Uplink frequency currently checked. All received: [868.1, 868.3] Expected: [868.1, 868.3, 868.5]
0:03:47.540601	LOG	PUSH_ACK: 02 01c9 01
0:03:47.542600	LOG	PUSH_DATA: Protocol version = 02, Token = 01c9, Identifier = 00, JSON = {'rxpk': [{'tmst': 84178016, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAHAEBbzKl3fFz'}]}
0:03:47.543599	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 011c, FOpts:), FPort: 01, FRMPayload: 0019, MIC: a5ddf173)
0:03:47.545599	LOG	Server <---------- DUT
0:03:47.547598	LOG	Attempt 4/15
0:03:47.549597	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0130, FOpts:), FPort: e0, FRMPayload: 080a0b0c), MIC: 6152bf47)
0:03:47.551595	LOG	PULL_RESP: Protocol version = 02, Token = 8632, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 85178016, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YCAgICAAMAHguLIyhGFSv0c='}}
0:03:47.553594	LOG	Server ----------> DUT
0:03:47.554593	LOG	Echo sent to the DUT
0:03:49.443185	LOG	PULL_DATA: 02 216b 02 aa555a0000240409
0:03:49.445184	LOG	PULL_ACK: 02 216b 04
0:03:52.553386	LOG	PUSH_ACK: 02 01cb 01
0:03:52.558412	LOG	PUSH_DATA: Protocol version = 02, Token = 01cb, Identifier = 00, JSON = {'rxpk': [{'tmst': 89188844, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 17, 'data': 'QCAgICCAHQHgGViTreyC/uY='}]}
0:03:52.562381	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 011d, FOpts:), FPort: e0, FRMPayload: 080b0c0d, MIC: ec82fee6)
0:03:52.565407	LOG	Server <---------- DUT
0:03:52.568406	LOG	Echo Ans is correct: 0b0c0d
0:03:52.571403	LOG	Frequencies received: [868.1, 868.3, 868.5]
0:03:52.579399	LOG	Test EchoPayloadReq in default channels process complete
0:03:52.583396	LOG	End Test Step: Test reply retransmission default
0:03:52.587395	LOG	Partial Verdict: PASS
0:03:52.591392	LOG	==========
0:03:52.596390	LOG	==========
0:03:52.598384	LOG	Start Test Step: DlChannel Request with invalid parameters
0:03:52.609383	LOG	Send DlChannelReq process starts
0:03:59.523493	LOG	PULL_DATA: 02 2871 02 aa555a0000240409
0:03:59.525492	LOG	PULL_ACK: 02 2871 04
0:04:02.578755	LOG	PUSH_ACK: 02 01cc 01
0:04:02.580754	LOG	PUSH_DATA: Protocol version = 02, Token = 01cc, Identifier = 00, JSON = {'rxpk': [{'tmst': 99185756, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAHgEBVQQdBZhv'}]}
0:04:02.581753	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 011e, FOpts:), FPort: 01, FRMPayload: 001a, MIC: 1d05986f)
0:04:02.582754	LOG	Server <---------- DUT
0:04:02.584751	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0131, FOpts:), FPort: 00, FRMPayload: 0a0098e68a), MIC: 7993b84f)
0:04:02.587750	LOG	PULL_RESP: Protocol version = 02, Token = b2ed, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 101185756, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAMQEAGUUtNwd5k7hP'}}
0:04:02.588751	LOG	Server ----------> DUT
0:04:02.591748	LOG	TX_ACK: 02 b2ed 05 aa555a0000240409
0:04:07.558922	LOG	PUSH_ACK: 02 01cd 01
0:04:07.560921	LOG	PUSH_DATA: Protocol version = 02, Token = 01cd, Identifier = 00, JSON = {'rxpk': [{'tmst': 104193464, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -47, 'size': 17, 'data': 'QCAgICCCHwEKAgGMNfcxHmk='}]}
0:04:07.561921	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 011f, FOpts: 0a02), FPort: 01, FRMPayload: 001a, MIC: f7311e69)
0:04:07.562920	LOG	Server <---------- DUT
0:04:07.564919	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:04:07.565919	LOG	Command Answer: 0a02
0:04:07.568916	LOG	MAC command communication completed
0:04:07.572915	LOG	Expect a MAC answer retransmission
0:04:09.722776	LOG	PULL_DATA: 02 2e25 02 aa555a0000240409
0:04:09.726774	LOG	PULL_ACK: 02 2e25 04

0:04:17.582303	LOG	PUSH_ACK: 02 01ce 01
0:04:17.584304	LOG	PUSH_DATA: Protocol version = 02, Token = 01ce, Identifier = 00, JSON = {'rxpk': [{'tmst': 114198600, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCIAEKAgFvmWVzcTI='}]}
0:04:17.586303	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0120, FOpts: 0a02), FPort: 01, FRMPayload: 001a, MIC: 65737132)
0:04:17.588300	LOG	Server <---------- DUT
0:04:17.589301	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:04:17.594296	LOG	MAC answer retransmission completed
0:04:17.597294	LOG	Expect a MAC answer retransmission
0:04:19.803033	LOG	PULL_DATA: 02 cf37 02 aa555a0000240409
0:04:19.805033	LOG	PULL_ACK: 02 cf37 04
0:04:27.567680	LOG	PUSH_ACK: 02 01d0 01
0:04:27.570678	LOG	PUSH_DATA: Protocol version = 02, Token = 01d0, Identifier = 00, JSON = {'rxpk': [{'tmst': 124203752, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCIQEKAgEXrTYRAgM='}]}
0:04:27.572677	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0121, FOpts: 0a02), FPort: 01, FRMPayload: 001a, MIC: 36110203)
0:04:27.573676	LOG	Server <---------- DUT
0:04:27.575676	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:04:27.585670	LOG	MAC answer retransmission completed
0:04:27.652633	LOG	Expect a MAC answer retransmission
0:04:29.883362	LOG	PULL_DATA: 02 80f9 02 aa555a0000240409
0:04:29.887359	LOG	PULL_ACK: 02 80f9 04
0:04:37.593333	LOG	PUSH_ACK: 02 01d2 01
0:04:37.595332	LOG	PUSH_DATA: Protocol version = 02, Token = 01d2, Identifier = 00, JSON = {'rxpk': [{'tmst': 134208920, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCIgEKAgGJSt9ODmM='}]}
0:04:37.597331	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0122, FOpts: 0a02), FPort: 01, FRMPayload: 001a, MIC: df4e0e63)
0:04:37.599330	LOG	Server <---------- DUT
0:04:37.601329	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:04:37.606326	LOG	MAC answer retransmission completed
0:04:37.611323	LOG	Send DlChannelReq process starts
0:04:39.962984	LOG	PULL_DATA: 02 dc62 02 aa555a0000240409
0:04:39.967000	LOG	PULL_ACK: 02 dc62 04
0:04:47.617647	LOG	PUSH_ACK: 02 01d3 01
0:04:47.622626	LOG	PUSH_DATA: Protocol version = 02, Token = 01d3, Identifier = 00, JSON = {'rxpk': [{'tmst': 144214088, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCIwEKAgGOAvcLS1Y='}]}
0:04:47.626624	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0123, FOpts: 0a02), FPort: 01, FRMPayload: 001a, MIC: f70b4b56)
0:04:47.629622	LOG	Server <---------- DUT
0:04:47.631620	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0132, FOpts:), FPort: 00, FRMPayload: 0a04f87d84), MIC: e9708eb6)
0:04:47.633620	LOG	PULL_RESP: Protocol version = 02, Token = 7ee1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 146214088, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAMgEAAEwB6oTpcI62'}}

0:04:47.634621	LOG	Server ----------> DUT
0:04:47.638617	LOG	TX_ACK: 02 7ee1 05 aa555a0000240409
0:04:50.153191	LOG	PULL_DATA: 02 9cd7 02 aa555a0000240409
0:04:50.156185	LOG	PULL_ACK: 02 9cd7 04
0:04:57.587954	LOG	PUSH_ACK: 02 01d5 01
0:04:57.588953	LOG	PUSH_DATA: Protocol version = 02, Token = 01d5, Identifier = 00, JSON = {'rxpk': [{'tmst': 154219236, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCJAEKAQG+4lS/t78='}]}
0:04:57.590956	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0124, FOpts: 0a01), FPort: 01, FRMPayload: 001a, MIC: 54bfb7bf)
0:04:57.591969	LOG	Server <---------- DUT
0:04:57.593951	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:04:57.594950	LOG	Command Answer: 0a01
0:04:57.598948	LOG	MAC command communication completed
0:04:57.602947	LOG	Expect a MAC answer retransmission
0:05:00.233002	LOG	PULL_DATA: 02 19b0 02 aa555a0000240409
0:05:00.234002	LOG	PULL_ACK: 02 19b0 04
0:05:07.609880	LOG	PUSH_ACK: 02 01d6 01
0:05:07.611879	LOG	PUSH_DATA: Protocol version = 02, Token = 01d6, Identifier = 00, JSON = {'rxpk': [{'tmst': 164224412, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 17, 'data': 'QCAgICCCJQEKAQFwzcfkxO0='}]}
0:05:07.612878	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0125, FOpts: 0a01), FPort: 01, FRMPayload: 001a, MIC: c7e4c4ed)
0:05:07.614877	LOG	Server <---------- DUT
0:05:07.616876	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:05:07.621873	LOG	MAC answer retransmission completed
0:05:07.625871	LOG	Expect a MAC answer retransmission
0:05:10.312342	LOG	PULL_DATA: 02 1e6d 02 aa555a0000240409
0:05:10.316340	LOG	PULL_ACK: 02 1e6d 04
0:05:17.633175	LOG	PUSH_ACK: 02 01d7 01
0:05:17.635175	LOG	PUSH_DATA: Protocol version = 02, Token = 01d7, Identifier = 00, JSON = {'rxpk': [{'tmst': 174229572, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCJgEKAQGp43twr1g='}]}
0:05:17.637174	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0126, FOpts: 0a01), FPort: 01, FRMPayload: 001a, MIC: 7b70af58)
0:05:17.638175	LOG	Server <---------- DUT
0:05:17.639174	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:05:17.643172	LOG	MAC answer retransmission completed
0:05:17.646170	LOG	Expect a MAC answer retransmission
0:05:20.392672	LOG	PULL_DATA: 02 4a4f 02 aa555a0000240409
0:05:20.393672	LOG	PULL_ACK: 02 4a4f 04
0:05:27.618609	LOG	PUSH_ACK: 02 01d9 01
0:05:27.622614	LOG	PUSH_DATA: Protocol version = 02, Token = 01d9, Identifier = 00, JSON = {'rxpk': [{'tmst': 184234732, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCJwEKAQGZqON4l1g='}]}
0:05:27.625608	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0127, FOpts: 0a01), FPort: 01, FRMPayload: 001a, MIC: e3789758)
0:05:27.628605	LOG	Server <---------- DUT

0:05:27.631606	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:05:27.640598	LOG	MAC answer retransmission completed
0:05:27.643606	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:30.472546	LOG	PULL_DATA: 02 d17c 02 aa555a0000240409
0:05:30.474546	LOG	PULL_ACK: 02 d17c 04
0:05:37.643541	LOG	PUSH_ACK: 02 01da 01
0:05:37.644540	LOG	PUSH_DATA: Protocol version = 02, Token = 01da, Identifier = 00, JSON = {'rxpk': [{'tmst': 194239868, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCKAEKAQF33vPmKAk='}]}
0:05:37.646539	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0128, FOpts: 0a01), FPort: 01, FRMPayload: 001a, MIC: f3e62809)
0:05:37.647538	LOG	Server <---------- DUT
0:05:37.650536	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0133, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 1b45d9c0)
0:05:37.653535	LOG	Frame command sent to the DUT
0:05:37.655534	LOG	PULL_RESP: Protocol version = 02, Token = da8a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 196239868, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAMwHg3SYbRdnA'}}
0:05:37.656533	LOG	Server ----------> DUT
0:05:37.659531	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:37.661532	LOG	End Test Step: DlChannel Request with invalid parameters
0:05:37.664530	LOG	Partial Verdict: PASS
0:05:37.668526	LOG	==========
0:05:37.676522	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_007
0:05:37.678521	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_008	
Verdict	PASS	
Date	2021-10-18 00:21:27	
Comments	RXParameterSetupReq MAC command	
Technology Version	LCTT v3.1.0_D1 | GUI v1.10.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.1	
Test Specs Version	USv1.5.1/EUv1.6/KRv1.2.1/ASv1.1.1/INv1.1.1/ALLv1.1	
Project	MLSv2.0.0	
Project Creation Date	2021-10-17 22:25:22	
Sample	DevID:SAMR34-XPRO | AppID:CertApp_EU_ABP | SW:MLSv2.0.0 | HW:SAMR34J18B	
Parameters	RX2 Receive window frequency	868.525
	Conformance	TRUE

Time Stamp (ms)	Event	Summary
0:00:00.028882	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_008
0:00:00.060864	LOG	==========
0:00:00.062863	LOG	Start Test Step: Device activation
0:00:00.123847	LOG	Activation process has finished successfully
0:00:00.126826	LOG	Data stored in the DUT after Activation:
0:00:00.130824	LOG	DevAddr: 20202020
0:00:00.133823	LOG	AppEUI: abcdabcdabcdabcd
0:00:00.162805	LOG	NwkSKey: abcdabcdabcdabcdabcdabcdabcdabcd
0:00:00.165804	LOG	AppSKey: 12345678123456781234567812345678
0:00:00.168802	LOG	End Test Step: Device activation
0:00:00.172799	LOG	Partial Verdict: PASS

0:00:00.175797	LOG	==========
0:00:00.181795	LOG	==========
0:00:00.184793	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.195804	LOG	DUT Pre-condition activation process starts
0:00:00.200783	LOG	DUT Pre-condition activation completed
0:00:00.205780	LOG	End Test Step: DUT Pre-condition settings
0:00:00.210777	LOG	Partial Verdict: PASS
0:00:00.214778	LOG	==========
0:00:00.219774	LOG	==========
0:00:00.221773	LOG	Start Test Step: Modify RX1 and RX2 downlink parameters
0:00:00.230767	LOG	Send LinkADRReq process starts
0:00:06.421332	LOG	PUSH_DATA received while waiting first PULL_DATA
0:00:09.463575	LOG	PULL_DATA: 02 4ae9 02 aa555a0000240409
0:00:09.465571	LOG	PULL_ACK: 02 4ae9 04
0:00:09.466574	LOG	First PULL_DATA received
0:00:11.425550	LOG	PUSH_ACK: 02 01dd 01
0:00:11.428550	LOG	PUSH_DATA: Protocol version = 02, Token = 01dd, Identifier = 00, JSON = {'rxpk': [{'tmst': 209242454, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAKgEB3qrfv49A'}]}
0:00:11.430548	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 012a, FOpts:), FPort: 01, FRMPayload: 001b, MIC: dfbf8f40)
0:00:11.431548	LOG	Server <---------- DUT
0:00:11.434546	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0134, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: fc37df7e)
0:00:11.437545	LOG	PULL_RESP: Protocol version = 02, Token = 4532, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 211242454, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAANAEAhGrz8Z/8N99+'}}
0:00:11.438545	LOG	Server ----------> DUT
0:00:11.441542	LOG	TX_ACK: 02 4532 05 aa555a0000240409
0:00:16.395722	LOG	PUSH_ACK: 02 01de 01
0:00:16.397721	LOG	PUSH_DATA: Protocol version = 02, Token = 01de, Identifier = 00, JSON = {'rxpk': [{'tmst': 214250176, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 17, 'data': 'QCAgICCCKwEDBwHt4z9EdsA='}]}
0:00:16.399720	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 012b, FOpts: 0307), FPort: 01, FRMPayload: 001b, MIC: 3f4476c0)
0:00:16.401719	LOG	Server <---------- DUT
0:00:16.402718	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:16.403718	LOG	Command Answer: 0307
0:00:16.409714	LOG	MAC command communication completed
0:00:16.412712	LOG	Check previous uplink data rate process starts
0:00:16.415711	LOG	Uplink received with expected Data Rate
0:00:16.419708	LOG	Send RXParamSetupReq process starts
0:00:19.623884	LOG	PULL_DATA: 02 7bc0 02 aa555a0000240409
0:00:19.626883	LOG	PULL_ACK: 02 7bc0 04
0:00:26.421132	LOG	PUSH_ACK: 02 01e0 01
0:00:26.423131	LOG	PUSH_DATA: Protocol version = 02, Token = 01e0, Identifier = 00, JSON = {'rxpk': [{'tmst': 224250200, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCALAEB4KH8V4rc'}]}
0:00:26.424129	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 012c, FOpts:), FPort: 01, FRMPayload: 001b, MIC: fc578adc)
0:00:26.425130	LOG	Server <---------- DUT

0:00:26.427127	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0135, FOpts:), FPort: 00, FRMPayload: 0522c28684), MIC: b6fdd3fd)
0:00:26.444118	LOG	PULL_RESP: Protocol version = 02, Token = 410a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 226250200, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAANQEAESkOwIe2/dP9'}}
0:00:26.445118	LOG	Server ----------> DUT
0:00:26.449115	LOG	TX_ACK: 02 410a 05 aa555a0000240409
0:00:29.803206	LOG	PULL_DATA: 02 5a31 02 aa555a0000240409
0:00:29.806204	LOG	PULL_ACK: 02 5a31 04
0:00:31.403294	LOG	PUSH_ACK: 02 01e1 01
0:00:31.405294	LOG	PUSH_DATA: Protocol version = 02, Token = 01e1, Identifier = 00, JSON = {'rxpk': [{'tmst': 229257907, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCLQEFBwE402dSFus='}]}
0:00:31.407293	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 012d, FOpts: 0507), FPort: 01, FRMPayload: 001b, MIC: 675216eb)
0:00:31.408292	LOG	Server <---------- DUT
0:00:31.409293	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:31.411290	LOG	Command Answer: 0507
0:00:31.426282	LOG	MAC command communication completed
0:00:31.429280	LOG	Expect a MAC answer retransmission
0:00:39.883469	LOG	PULL_DATA: 02 0d7b 02 aa555a0000240409
0:00:39.885470	LOG	PULL_ACK: 02 0d7b 04
0:00:41.435585	LOG	PUSH_ACK: 02 01e3 01
0:00:41.437584	LOG	PUSH_DATA: Protocol version = 02, Token = 01e3, Identifier = 00, JSON = {'rxpk': [{'tmst': 239263059, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCLgEFBwGFASv7A3s='}]}
0:00:41.439585	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 012e, FOpts: 0507), FPort: 01, FRMPayload: 001b, MIC: 2bfb037b)
0:00:41.440585	LOG	Server <---------- DUT
0:00:41.442583	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:41.446581	LOG	MAC answer retransmission completed
0:00:41.450577	LOG	Expect a MAC answer retransmission
0:00:49.964737	LOG	PULL_DATA: 02 9c36 02 aa555a0000240409
0:00:49.968735	LOG	PULL_ACK: 02 9c36 04
0:00:51.407910	LOG	PUSH_ACK: 02 01e4 01
0:00:51.409909	LOG	PUSH_DATA: Protocol version = 02, Token = 01e4, Identifier = 00, JSON = {'rxpk': [{'tmst': 249268211, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCLwEFBwEoxoa+FsU='}]}
0:00:51.410908	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 012f, FOpts: 0507), FPort: 01, FRMPayload: 001b, MIC: 86be16c5)
0:00:51.412907	LOG	Server <---------- DUT
0:00:51.414906	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:51.418904	LOG	MAC answer retransmission completed
0:00:51.421902	LOG	Expect a MAC answer retransmission
0:01:00.042995	LOG	PULL_DATA: 02 edca 02 aa555a0000240409
0:01:00.047993	LOG	PULL_ACK: 02 edca 04
0:01:01.431206	LOG	PUSH_ACK: 02 01e5 01
0:01:01.433205	LOG	PUSH_DATA: Protocol version = 02, Token = 01e5, Identifier = 00, JSON = {'rxpk': [{'tmst': 259273363, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCMAEFBwFko205veM='}]}
0:01:01.434203	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0130, FOpts: 0507), FPort: 01, FRMPayload: 001b, MIC: 6d39bde3)
0:01:01.435203	LOG	Server <---------- DUT
0:01:01.436202	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:01.440202	LOG	MAC answer retransmission completed
0:01:01.445198	LOG	Send Test Command EchoPayloadReq process starts
0:01:10.123259	LOG	PULL_DATA: 02 5bbc 02 aa555a0000240409
0:01:10.125258	LOG	PULL_ACK: 02 5bbc 04
0:01:11.415523	LOG	PUSH_ACK: 02 01e7 01
0:01:11.418522	LOG	PUSH_DATA: Protocol version = 02, Token = 01e7, Identifier = 00, JSON = {'rxpk': [{'tmst': 269278539, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCMQEFBwGnx1rkY0Y='}]}
0:01:11.419521	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0131, FOpts: 0507), FPort: 01, FRMPayload: 001b, MIC: 5ae46346)
0:01:11.421520	LOG	Server <---------- DUT
0:01:11.423519	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0136, FOpts:), FPort: e0, FRMPayload: 08010203), MIC: 2247b0b7)
0:01:11.425518	LOG	Frame command sent to the DUT
0:01:11.426517	LOG	PULL_RESP: Protocol version = 02, Token = 8974, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 270278539, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YCAgICAANgHg8LaYEiJHsLc='}}
0:01:11.428516	LOG	Server ----------> DUT
0:01:11.432514	LOG	TX_ACK: 02 8974 05 aa555a0000240409
0:01:20.242500	LOG	PULL_DATA: 02 02db 02 aa555a0000240409
0:01:20.244499	LOG	PULL_ACK: 02 02db 04
0:01:21.469801	LOG	PUSH_ACK: 02 01e8 01
0:01:21.471800	LOG	PUSH_DATA: Protocol version = 02, Token = 01e8, Identifier = 00, JSON = {'rxpk': [{'tmst': 279286787, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -45, 'size': 17, 'data': 'QCAgICCAMgHg2yq06fuJycI='}]}
0:01:21.473799	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0132, FOpts:), FPort: e0, FRMPayload: 08020304, MIC: fb89c9c2)
0:01:21.475798	LOG	Server <---------- DUT
0:01:21.476797	LOG	Answer in payload: 020304
0:01:21.478796	LOG	Frame Command Payload in the Answer: 08020304
0:01:21.483794	LOG	Checking if the payload of the EchoPayloadAns is correct
0:01:21.488791	LOG	Send Test Command EchoPayloadReq process completed
0:01:21.495786	LOG	Send Test Command EchoPayloadReq process starts
0:01:30.322762	LOG	PULL_DATA: 02 b5de 02 aa555a0000240409
0:01:30.326761	LOG	PULL_ACK: 02 b5de 04
0:01:31.442127	LOG	PUSH_ACK: 02 01e9 01
0:01:31.444126	LOG	PUSH_DATA: Protocol version = 02, Token = 01e9, Identifier = 00, JSON = {'rxpk': [{'tmst': 289283715, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAMwEB8TzlQbRg'}]}
0:01:31.445124	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0133, FOpts:), FPort: 01, FRMPayload: 001c, MIC: e541b460)
0:01:31.446125	LOG	Server <---------- DUT
0:01:31.448122	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0137, FOpts:), FPort: e0, FRMPayload: 08121314), MIC: 1fefd6e0)
0:01:31.450121	LOG	Frame command sent to the DUT

0:01:31.452121	LOG	PULL_RESP: Protocol version = 02, Token = 74bd, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 291283715, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YCAgICAANwHg3aOJLh/v1uA='}}
0:01:31.454122	LOG	Server ----------> DUT
0:01:31.458117	LOG	TX_ACK: 02 74bd 05 aa555a0000240409
0:01:36.475261	LOG	PUSH_ACK: 02 01ea 01
0:01:36.478260	LOG	PUSH_DATA: Protocol version = 02, Token = 01ea, Identifier = 00, JSON = {'rxpk': [{'tmst': 294294543, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.2, 'rssi': -46, 'size': 17, 'data': 'QCAgICCANAHgEnyUkHonM84='}]}
0:01:36.479259	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0134, FOpts:), FPort: e0, FRMPayload: 08131415, MIC: 7a2733ce)
0:01:36.481258	LOG	Server <---------- DUT
0:01:36.483257	LOG	Answer in payload: 131415
0:01:36.485256	LOG	Frame Command Payload in the Answer: 08131415
0:01:36.490253	LOG	Checking if the payload of the EchoPayloadAns is correct
0:01:36.494251	LOG	Send Test Command EchoPayloadReq process completed
0:01:36.498248	LOG	End Test Step: Modify RX1 and RX2 downlink parameters
0:01:36.503245	LOG	Partial Verdict: PASS
0:01:36.507243	LOG	==========
0:01:36.512240	LOG	==========
0:01:36.514239	LOG	Start Test Step: Restore default downlink parameters
0:01:36.528231	LOG	Send RXParamSetupReq process starts
0:01:40.492975	LOG	PULL_DATA: 02 3d52 02 aa555a0000240409
0:01:40.493976	LOG	PULL_ACK: 02 3d52 04
0:01:46.460578	LOG	PUSH_ACK: 02 01ec 01
0:01:46.462577	LOG	PUSH_DATA: Protocol version = 02, Token = 01ec, Identifier = 00, JSON = {'rxpk': [{'tmst': 304291463, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICCANQEBzPzk0klo'}]}
0:01:46.464576	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0135, FOpts:), FPort: 01, FRMPayload: 001d, MIC: e4d24968)
0:01:46.465576	LOG	Server <---------- DUT
0:01:46.467575	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0138, FOpts:), FPort: 00, FRMPayload: 0500d2ad84), MIC: faf5a72b)
0:01:46.470573	LOG	PULL_RESP: Protocol version = 02, Token = 6006, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 306291463, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAOAEABbLcbbH69acr'}}
0:01:46.471574	LOG	Server ----------> DUT
0:01:46.474572	LOG	TX_ACK: 02 6006 05 aa555a0000240409
0:01:50.682178	LOG	PULL_DATA: 02 b657 02 aa555a0000240409
0:01:50.684175	LOG	PULL_ACK: 02 b657 04
0:01:51.482720	LOG	PUSH_ACK: 02 01ed 01
0:01:51.484719	LOG	PUSH_DATA: Protocol version = 02, Token = 01ed, Identifier = 00, JSON = {'rxpk': [{'tmst': 309299169, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCNgEFBwErOBlG61g='}]}
0:01:51.486718	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0136, FOpts: 0507), FPort: 01, FRMPayload: 001d, MIC: 1946eb58)
0:01:51.487719	LOG	Server <---------- DUT
0:01:51.489717	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:51.491717	LOG	Command Answer: 0507
0:01:51.504708	LOG	MAC command communication completed

0:01:51.510704	LOG	Send Test Command EchoPayloadReq process starts
0:02:00.762440	LOG	PULL_DATA: 02 02d4 02 aa555a0000240409
0:02:00.766438	LOG	PULL_ACK: 02 02d4 04
0:02:01.455045	LOG	PUSH_ACK: 02 01ee 01
0:02:01.456044	LOG	PUSH_DATA: Protocol version = 02, Token = 01ee, Identifier = 00, JSON = {'rxpk': [{'tmst': 319304321, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCNwEFBwFib5ASxVM='}]}
0:02:01.458043	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0137, FOpts: 0507), FPort: 01, FRMPayload: 001d, MIC: 9012c553)
0:02:01.460042	LOG	Server <---------- DUT
0:02:01.462041	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0139, FOpts:), FPort: e0, FRMPayload: 08010203), MIC: 3e07471f)
0:02:01.465040	LOG	Frame command sent to the DUT
0:02:01.467039	LOG	PULL_RESP: Protocol version = 02, Token = ee7d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 320304321, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YCAgICAAOQHgZKTifT4HRx8='}}
0:02:01.468038	LOG	Server ----------> DUT
0:02:01.472035	LOG	TX_ACK: 02 ee7d 05 aa555a0000240409
0:02:10.912662	LOG	PULL_DATA: 02 c44c 02 aa555a0000240409
0:02:10.914661	LOG	PULL_ACK: 02 c44c 04
0:02:11.497330	LOG	PUSH_ACK: 02 01f0 01
0:02:11.499329	LOG	PUSH_DATA: Protocol version = 02, Token = 01f0, Identifier = 00, JSON = {'rxpk': [{'tmst': 329312570, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 17, 'data': 'QCAgICCAOAHgmHW5s4JFaw4='}]}
0:02:11.501327	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0138, FOpts:), FPort: e0, FRMPayload: 08020304, MIC: 82456b0e)
0:02:11.502329	LOG	Server <---------- DUT
0:02:11.504326	LOG	Answer in payload: 020304
0:02:11.506325	LOG	Frame Command Payload in the Answer: 08020304
0:02:11.511322	LOG	Checking if the payload of the EchoPayloadAns is correct
0:02:11.514321	LOG	Send Test Command EchoPayloadReq process completed
0:02:11.521316	LOG	Send Test Command EchoPayloadReq process starts
0:02:20.992927	LOG	PULL_DATA: 02 2495 02 aa555a0000240409
0:02:20.993927	LOG	PULL_ACK: 02 2495 04
0:02:21.468655	LOG	PUSH_ACK: 02 01f1 01
0:02:21.470654	LOG	PUSH_DATA: Protocol version = 02, Token = 01f1, Identifier = 00, JSON = {'rxpk': [{'tmst': 339309490, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAOQEBS9Z6eMRq'}]}
0:02:21.471653	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0139, FOpts:), FPort: 01, FRMPayload: 001e, MIC: 7a78c46a)
0:02:21.473652	LOG	Server <---------- DUT
0:02:21.474651	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 013a, FOpts:), FPort: e0, FRMPayload: 08121314), MIC: e4fe9066)
0:02:21.476651	LOG	Frame command sent to the DUT
0:02:21.478649	LOG	PULL_RESP: Protocol version = 02, Token = 51ca, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 341309490, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YCAgICAAOgHgu78hCuT+kGY='}}
0:02:21.479649	LOG	Server ----------> DUT
0:02:21.482647	LOG	TX_ACK: 02 51ca 05 aa555a0000240409
0:02:26.504602	LOG	PUSH_ACK: 02 01f2 01

0:02:26.506601	LOG	PUSH_DATA: Protocol version = 02, Token = 01f2, Identifier = 00, JSON = {'rxpk': [{'tmst': 344320316, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 17, 'data': 'QCAgICCAOgHggAvrbdYdcc8='}]}
0:02:26.507602	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 013a, FOpts:), FPort: e0, FRMPayload: 08131415, MIC: d61d71cf)
0:02:26.509601	LOG	Server <---------- DUT
0:02:26.510601	LOG	Answer in payload: 131415
0:02:26.512598	LOG	Frame Command Payload in the Answer: 08131415
0:02:26.516596	LOG	Checking if the payload of the EchoPayloadAns is correct
0:02:26.520594	LOG	Send Test Command EchoPayloadReq process completed
0:02:26.523592	LOG	End Test Step: Restore default downlink parameters
0:02:26.527590	LOG	Partial Verdict: PASS
0:02:26.530588	LOG	==========
0:02:26.536584	LOG	==========
0:02:26.538583	LOG	Start Test Step: Verify that the DUT ignores wrong parameters
0:02:26.547578	LOG	Send RXParamSetupReq process starts
0:02:31.142086	LOG	PULL_DATA: 02 c897 02 aa555a0000240409
0:02:31.147054	LOG	PULL_ACK: 02 c897 04
0:02:36.476052	LOG	PUSH_ACK: 02 01f3 01
0:02:36.481049	LOG	PUSH_DATA: Protocol version = 02, Token = 01f3, Identifier = 00, JSON = {'rxpk': [{'tmst': 354317236, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAOwEBsugzIMRW'}]}
0:02:36.484048	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 013b, FOpts:), FPort: 01, FRMPayload: 001f, MIC: 3320c456)
0:02:36.489046	LOG	Server <---------- DUT
0:02:36.495044	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 013b, FOpts:), FPort: 00, FRMPayload: 0560c28684), MIC: c1373215)
0:02:36.500038	LOG	PULL_RESP: Protocol version = 02, Token = fbc3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 356317236, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAOwEAiliOEGzBNzIV'}}
0:02:36.501037	LOG	Server ----------> DUT
0:02:36.505035	LOG	TX_ACK: 02 fbc3 05 aa555a0000240409
0:02:41.332393	LOG	PULL_DATA: 02 b512 02 aa555a0000240409
0:02:41.336391	LOG	PULL_ACK: 02 b512 04
0:02:41.486304	LOG	PUSH_ACK: 02 01f5 01
0:02:41.488303	LOG	PUSH_DATA: Protocol version = 02, Token = 01f5, Identifier = 00, JSON = {'rxpk': [{'tmst': 359324959, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCPAEFAwGSHgfSoQ8='}]}
0:02:41.489302	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 013c, FOpts: 0503), FPort: 01, FRMPayload: 001f, MIC: 07d2a10f)
0:02:41.490302	LOG	Server <---------- DUT
0:02:41.491301	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:41.493302	LOG	Command Answer: 0503
0:02:41.498299	LOG	MAC command communication completed
0:02:41.502295	LOG	Send RXParamSetupReq process starts
0:02:51.412718	LOG	PULL_DATA: 02 8030 02 aa555a0000240409
0:02:51.413718	LOG	PULL_ACK: 02 8030 04
0:02:51.509664	LOG	PUSH_ACK: 02 01f6 01
0:02:51.513662	LOG	PUSH_DATA: Protocol version = 02, Token = 01f6, Identifier = 00, JSON = {'rxpk': [{'tmst': 369330119, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCPQEFAwETLU5HEuQ='}]}
0:02:51.517660	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 013d, FOpts: 0503), FPort: 01, FRMPayload: 001f, MIC: 4e4712e4)
0:02:51.521658	LOG	Server <---------- DUT
0:02:51.527655	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 013c, FOpts:), FPort: 00, FRMPayload: 0509c28684), MIC: f528fe09)
0:02:51.531650	LOG	PULL_RESP: Protocol version = 02, Token = cfe5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 371330119, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAPAEAU4Srknj1KP4J'}}
0:02:51.532649	LOG	Server ----------> DUT
0:02:51.535648	LOG	TX_ACK: 02 cfe5 05 aa555a0000240409
0:03:01.517967	LOG	PUSH_ACK: 02 01f7 01
0:03:01.520965	LOG	PUSH_DATA: Protocol version = 02, Token = 01f7, Identifier = 00, JSON = {'rxpk': [{'tmst': 379335295, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCPgEFBQHRBJ2XTZ8='}]}
0:03:01.522965	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 013e, FOpts: 0505), FPort: 01, FRMPayload: 001f, MIC: 9d974d9f)
0:03:01.523965	LOG	Server <---------- DUT
0:03:01.524963	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:03:01.525964	LOG	Command Answer: 0505
0:03:01.530961	LOG	MAC command communication completed
0:03:01.534959	LOG	Send RXParamSetupReq process starts
0:03:01.611913	LOG	PULL_DATA: 02 d2db 02 aa555a0000240409
0:03:01.613914	LOG	PULL_ACK: 02 d2db 04
0:03:11.505386	LOG	PUSH_ACK: 02 01f9 01
0:03:11.507384	LOG	PUSH_DATA: Protocol version = 02, Token = 01f9, Identifier = 00, JSON = {'rxpk': [{'tmst': 389340439, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -44, 'size': 17, 'data': 'QCAgICCCPwEFBQGTP5R9eYI='}]}
0:03:11.509383	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 013f, FOpts: 0505), FPort: 01, FRMPayload: 001f, MIC: 947d7982)
0:03:11.510383	LOG	Server <---------- DUT
0:03:11.512381	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 013d, FOpts:), FPort: 00, FRMPayload: 0500f0018b), MIC: 2aa9ded2)
0:03:11.514380	LOG	PULL_RESP: Protocol version = 02, Token = 33ad, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 391340439, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAPQEAH/5cxbkqqd7S'}}
0:03:11.515380	LOG	Server ----------> DUT
0:03:11.518377	LOG	TX_ACK: 02 33ad 05 aa555a0000240409
0:03:11.722263	LOG	PULL_DATA: 02 61e0 02 aa555a0000240409
0:03:11.724262	LOG	PULL_ACK: 02 61e0 04
0:03:21.527809	LOG	PUSH_ACK: 02 01fa 01
0:03:21.529807	LOG	PUSH_DATA: Protocol version = 02, Token = 01fa, Identifier = 00, JSON = {'rxpk': [{'tmst': 399345625, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCQAEFBgGI0sYyBAU='}]}
0:03:21.530808	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0140, FOpts: 0506), FPort: 01, FRMPayload: 001f, MIC: c6320405)
0:03:21.532806	LOG	Server <---------- DUT
0:03:21.533805	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field

0:03:21.534805	LOG	Command Answer: 0506
0:03:21.541820	LOG	MAC command communication completed
0:03:21.547798	LOG	Send Test Command EchoPayloadReq process starts
0:03:21.801653	LOG	PULL_DATA: 02 56fd 02 aa555a0000240409
0:03:21.803653	LOG	PULL_ACK: 02 56fd 04
0:03:31.498238	LOG	PUSH_ACK: 02 01fb 01
0:03:31.500237	LOG	PUSH_DATA: Protocol version = 02, Token = 01fb, Identifier = 00, JSON = {'rxpk': [{'tmst': 409350801, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -47, 'size': 17, 'data': 'QCAgICCCQQEFBgHJ4RNHPbU='}]}
0:03:31.501236	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0141, FOpts: 0506), FPort: 01, FRMPayload: 001f, MIC: 13473db5)
0:03:31.503235	LOG	Server <---------- DUT
0:03:31.505234	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 013e, FOpts:), FPort: e0, FRMPayload: 08010203), MIC: 2bcdbc92)
0:03:31.508232	LOG	Frame command sent to the DUT
0:03:31.509231	LOG	PULL_RESP: Protocol version = 02, Token = 2b67, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 410350801, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YCAgICAAPgHg+/AEjSvNvJI='}}
0:03:31.510231	LOG	Server ----------> DUT
0:03:31.514229	LOG	TX_ACK: 02 2b67 05 aa555a0000240409
0:03:31.932095	LOG	PULL_DATA: 02 1643 02 aa555a0000240409
0:03:31.936092	LOG	PULL_ACK: 02 1643 04
0:03:41.537735	LOG	PUSH_ACK: 02 01fd 01
0:03:41.539735	LOG	PUSH_DATA: Protocol version = 02, Token = 01fd, Identifier = 00, JSON = {'rxpk': [{'tmst': 419359058, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -45, 'size': 17, 'data': 'QCAgICCAQgHgZYG74A8JT9A='}]}
0:03:41.540736	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0142, FOpts:), FPort: e0, FRMPayload: 08020304, MIC: 0f094fd0)
0:03:41.543731	LOG	Server <---------- DUT
0:03:41.546729	LOG	Answer in payload: 020304
0:03:41.550727	LOG	Frame Command Payload in the Answer: 08020304
0:03:41.557724	LOG	Checking if the payload of the EchoPayloadAns is correct
0:03:41.560722	LOG	Send Test Command EchoPayloadReq process completed
0:03:41.566718	LOG	Send Test Command EchoPayloadReq process starts
0:03:42.011485	LOG	PULL_DATA: 02 c871 02 aa555a0000240409
0:03:42.013465	LOG	PULL_ACK: 02 c871 04
0:03:51.509098	LOG	PUSH_ACK: 02 01fe 01
0:03:51.511098	LOG	PUSH_DATA: Protocol version = 02, Token = 01fe, Identifier = 00, JSON = {'rxpk': [{'tmst': 429355962, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAQwEBu9OA/4b3'}]}
0:03:51.513097	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0143, FOpts:), FPort: 01, FRMPayload: 0020, MIC: 80ff86f7)
0:03:51.514098	LOG	Server <---------- DUT
0:03:51.516097	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 013f, FOpts:), FPort: e0, FRMPayload: 08121314), MIC: 8b74ff36)
0:03:51.519093	LOG	Frame command sent to the DUT
0:03:51.521092	LOG	PULL_RESP: Protocol version = 02, Token = 8983, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 431355962, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YCAgICAAPwHgL0WFXot0/zY='}}
0:03:51.522092	LOG	Server ----------> DUT
0:03:51.527090	LOG	TX_ACK: 02 8983 05 aa555a0000240409

0:03:52.151319	LOG	PULL_DATA: 02 ffca 02 aa555a0000240409
0:03:52.153317	LOG	PULL_ACK: 02 ffca 04
0:03:56.549816	LOG	PUSH_ACK: 02 01ff 01
0:03:56.551815	LOG	PUSH_DATA: Protocol version = 02, Token = 01ff, Identifier = 00, JSON = {'rxpk': [{'tmst': 434366788, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -45, 'size': 17, 'data': 'QCAgICCARAHg/PrMe1t2jdM='}]}
0:03:56.552814	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0144, FOpts:), FPort: e0, FRMPayload: 08131415, MIC: 5b768dd3)
0:03:56.554813	LOG	Server <---------- DUT
0:03:56.555812	LOG	Answer in payload: 131415
0:03:56.557811	LOG	Frame Command Payload in the Answer: 08131415
0:03:56.562808	LOG	Checking if the payload of the EchoPayloadAns is correct
0:03:56.565806	LOG	Send Test Command EchoPayloadReq process completed
0:03:56.567807	LOG	End Test Step: Verify that the DUT ignores wrong parameters
0:03:56.571803	LOG	Partial Verdict: PASS
0:03:56.575800	LOG	==========
0:03:56.579799	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_008
0:03:56.581797	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_009	
Verdict	PASS	
Date	2021-10-18 00:25:27	
Comments	RXTimingSetupReq MAC command	
Technology Version	LCTT v3.1.0_D1 | GUI v1.10.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.1	
Test Specs Version	USv1.5.1/EUv1.6/KRv1.2.1/ASv1.1.1/INv1.1.1/ALLv1.1	
Project	MLSv2.0.0	
Project Creation Date	2021-10-17 22:25:22	
Sample	DevID:SAMR34-XPRO | AppID:CertApp_EU_ABP | SW:MLSv2.0.0 | HW:SAMR34J18B	
Parameters	Conformance	TRUE

Time Stamp (ms)	Event	Summary
0:00:00.012197	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_009
0:00:00.051175	LOG	==========
0:00:00.054175	LOG	Start Test Step: Device activation
0:00:00.113159	LOG	Activation process has finished successfully
0:00:00.115139	LOG	Data stored in the DUT after Activation:
0:00:00.118139	LOG	DevAddr: 20202020
0:00:00.120138	LOG	AppEUI: abcdabcdabcdabcd
0:00:00.123136	LOG	NwkSKey: abcdabcdabcdabcdabcdabcdabcdabcd
0:00:00.125135	LOG	AppSKey: 12345678123456781234567812345678
0:00:00.128149	LOG	End Test Step: Device activation
0:00:00.131130	LOG	Partial Verdict: PASS
0:00:00.135128	LOG	==========
0:00:00.139127	LOG	==========
0:00:00.142125	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.154118	LOG	DUT Pre-condition activation process starts
0:00:00.156134	LOG	DUT Pre-condition activation completed
0:00:00.159116	LOG	End Test Step: DUT Pre-condition settings
0:00:00.163113	LOG	Partial Verdict: PASS
0:00:00.166110	LOG	==========
0:00:00.171124	LOG	==========

0:00:00.173125	LOG	Start Test Step: Modify RX1 and RX2 timing to X second delay
0:00:00.185098	LOG	Send RXTimingSetupReq process starts
0:00:02.268008	LOG	PULL_DATA: 02 4db5 02 aa555a0000240409
0:00:02.270005	LOG	PULL_ACK: 02 4db5 04
0:00:02.272006	LOG	First PULL_DATA received
0:00:06.560566	LOG	PUSH_ACK: 02 0200 01
0:00:06.563550	LOG	PUSH_DATA: Protocol version = 02, Token = 0200, Identifier = 00, JSON = {'rxpk': [{'tmst': 444363708, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCARQEB06vITOba'}]}
0:00:06.564562	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0145, FOpts:), FPort: 01, FRMPayload: 0021, MIC: c84ce6da)
0:00:06.566550	LOG	Server <---------- DUT
0:00:06.568559	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0140, FOpts:), FPort: 00, FRMPayload: 0803), MIC: 04a47de4)
0:00:06.570558	LOG	PULL_RESP: Protocol version = 02, Token = 9014, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 446363708, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAQAEAqhkEpH3k'}}
0:00:06.572557	LOG	Server ----------> DUT
0:00:06.575527	LOG	TX_ACK: 02 9014 05 aa555a0000240409
0:00:11.553734	LOG	PUSH_ACK: 02 0202 01
0:00:11.555733	LOG	PUSH_DATA: Protocol version = 02, Token = 0202, Identifier = 00, JSON = {'rxpk': [{'tmst': 449371405, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 16, 'data': 'QCAgICCBRgEIAXKB8yEfdg=='}]}
0:00:11.557732	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 81, FCnt: 0146, FOpts: 08), FPort: 01, FRMPayload: 0021, MIC: f3211f76)
0:00:11.558731	LOG	Server <---------- DUT
0:00:11.560730	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:11.561729	LOG	Command Answer: 08
0:00:11.572723	LOG	MAC command communication completed
0:00:11.577720	LOG	Expect a MAC answer retransmission
0:00:12.448226	LOG	PULL_DATA: 02 a88a 02 aa555a0000240409
0:00:12.449243	LOG	PULL_ACK: 02 a88a 04
0:00:21.579202	LOG	PUSH_ACK: 02 0204 01
0:00:21.581201	LOG	PUSH_DATA: Protocol version = 02, Token = 0204, Identifier = 00, JSON = {'rxpk': [{'tmst': 459376557, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 16, 'data': 'QCAgICCBRwEIAcS2Z4lqyA=='}]}
0:00:21.582200	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 81, FCnt: 0147, FOpts: 08), FPort: 01, FRMPayload: 0021, MIC: 67896ac8)
0:00:21.584200	LOG	Server <---------- DUT
0:00:21.585199	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:21.589196	LOG	MAC answer retransmission completed
0:00:21.592194	LOG	Expect a MAC answer retransmission
0:00:22.527661	LOG	PULL_DATA: 02 075e 02 aa555a0000240409
0:00:22.529660	LOG	PULL_ACK: 02 075e 04
0:00:31.551524	LOG	PUSH_ACK: 02 0205 01
0:00:31.556521	LOG	PUSH_DATA: Protocol version = 02, Token = 0205, Identifier = 00, JSON = {'rxpk': [{'tmst': 469381701, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -47, 'size': 16, 'data': 'QCAgICCBSAEIAU8F4jYk7Q=='}]}

0:00:31.558521	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 81, FCnt: 0148, FOpts: 08), FPort: 01, FRMPayload: 0021, MIC: e23624ed)
0:00:31.559522	LOG	Server <---------- DUT
0:00:31.561519	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:31.565518	LOG	MAC answer retransmission completed
0:00:31.568516	LOG	Expect a MAC answer retransmission
0:00:32.607923	LOG	PULL_DATA: 02 e109 02 aa555a0000240409
0:00:32.609922	LOG	PULL_ACK: 02 e109 04
0:00:41.593812	LOG	PUSH_ACK: 02 0207 01
0:00:41.595813	LOG	PUSH_DATA: Protocol version = 02, Token = 0207, Identifier = 00, JSON = {'rxpk': [{'tmst': 479386853, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -45, 'size': 16, 'data': 'QCAgICCBSQEIAQ8o0360yg=='}]}
0:00:41.597807	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 81, FCnt: 0149, FOpts: 08), FPort: 01, FRMPayload: 0021, MIC: d37eb4ca)
0:00:41.599807	LOG	Server <---------- DUT
0:00:41.601805	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:41.605806	LOG	MAC answer retransmission completed
0:00:41.611798	LOG	Send Test Command EchoPayloadReq process starts
0:00:42.687384	LOG	PULL_DATA: 02 33a6 02 aa555a0000240409
0:00:42.689383	LOG	PULL_ACK: 02 33a6 04
0:00:51.568343	LOG	PUSH_ACK: 02 0209 01
0:00:51.571358	LOG	PUSH_DATA: Protocol version = 02, Token = 0209, Identifier = 00, JSON = {'rxpk': [{'tmst': 489392005, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -47, 'size': 16, 'data': 'QCAgICCBSgEIAckMkEJUEg=='}]}
0:00:51.572342	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 81, FCnt: 014a, FOpts: 08), FPort: 01, FRMPayload: 0021, MIC: 90425412)
0:00:51.574340	LOG	Server <---------- DUT
0:00:51.576340	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0141, FOpts:), FPort: e0, FRMPayload: 08010203), MIC: a4634826)
0:00:51.580337	LOG	Frame command sent to the DUT
0:00:51.582336	LOG	PULL_RESP: Protocol version = 02, Token = 0984, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 492392005, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YCAgICAAQQHgER7IUqRjSCY='}}
0:00:51.583336	LOG	Server ----------> DUT
0:00:51.586333	LOG	TX_ACK: 02 0984 05 aa555a0000240409
0:00:52.837620	LOG	PULL_DATA: 02 5557 02 aa555a0000240409
0:00:52.838619	LOG	PULL_ACK: 02 5557 04
0:01:01.601954	LOG	PUSH_ACK: 02 020a 01
0:01:01.610950	LOG	PUSH_DATA: Protocol version = 02, Token = 020a, Identifier = 00, JSON = {'rxpk': [{'tmst': 499400254, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -44, 'size': 17, 'data': 'QCAgICCASwHgKX/sBTusTcU='}]}
0:01:01.614946	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 014b, FOpts:), FPort: e0, FRMPayload: 08020304, MIC: 3bac4dc5)
0:01:01.617944	LOG	Server <---------- DUT
0:01:01.618944	LOG	Answer in payload: 020304
0:01:01.619943	LOG	Frame Command Payload in the Answer: 08020304
0:01:01.623941	LOG	Checking if the payload of the EchoPayloadAns is correct
0:01:01.628938	LOG	Send Test Command EchoPayloadReq process completed
0:01:01.635934	LOG	Send Test Command EchoPayloadReq process starts
0:01:02.937193	LOG	PULL_DATA: 02 3b1d 02 aa555a0000240409

0:01:02.939192	LOG	PULL_ACK: 02 3b1d 04
0:01:11.593266	LOG	PUSH_ACK: 02 020c 01
0:01:11.595265	LOG	PUSH_DATA: Protocol version = 02, Token = 020c, Identifier = 00, JSON = {'rxpk': [{'tmst': 509397166, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICCATAEBettuCChG'}]}
0:01:11.597264	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 014c, FOpts:), FPort: 01, FRMPayload: 0022, MIC: 6e082846)
0:01:11.598263	LOG	Server <---------- DUT
0:01:11.600263	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0142, FOpts:), FPort: e0, FRMPayload: 08121314), MIC: 233349f2)
0:01:11.603261	LOG	Frame command sent to the DUT
0:01:11.604260	LOG	PULL_RESP: Protocol version = 02, Token = 1a90, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 513397166, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YCAgICAAQgHg/3rfGCMzSfI='}}
0:01:11.606259	LOG	Server ----------> DUT
0:01:11.609257	LOG	TX_ACK: 02 1a90 05 aa555a0000240409
0:01:13.077422	LOG	PULL_DATA: 02 eef0 02 aa555a0000240409
0:01:13.078421	LOG	PULL_ACK: 02 eef0 04
0:01:21.608566	LOG	PUSH_ACK: 02 020d 01
0:01:21.610564	LOG	PUSH_DATA: Protocol version = 02, Token = 020d, Identifier = 00, JSON = {'rxpk': [{'tmst': 519410585, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 17, 'data': 'QCAgICCATQHg9Fc6WlQXDXs='}]}
0:01:21.611564	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 014d, FOpts:), FPort: e0, FRMPayload: 08131415, MIC: 54170d7b)
0:01:21.612563	LOG	Server <---------- DUT
0:01:21.614562	LOG	Answer in payload: 131415
0:01:21.615562	LOG	Frame Command Payload in the Answer: 08131415
0:01:21.618560	LOG	Checking if the payload of the EchoPayloadAns is correct
0:01:21.622558	LOG	Send Test Command EchoPayloadReq process completed
0:01:21.625556	LOG	End Test Step: Modify RX1 and RX2 timing to X second delay
0:01:21.628556	LOG	Partial Verdict: PASS
0:01:21.631553	LOG	==========
0:01:21.636550	LOG	==========
0:01:21.639548	LOG	Start Test Step: Modify RX1 and RX2 timing to 2 second delay
0:01:21.652541	LOG	Send RXTimingSetupReq process starts
0:01:23.157684	LOG	PULL_DATA: 02 2f6e 02 aa555a0000240409
0:01:23.158683	LOG	PULL_ACK: 02 2f6e 04
0:01:31.581384	LOG	PUSH_ACK: 02 020e 01
0:01:31.583384	LOG	PUSH_DATA: Protocol version = 02, Token = 020e, Identifier = 00, JSON = {'rxpk': [{'tmst': 529407505, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -43, 'size': 15, 'data': 'QCAgICCATgEBnovU0VLB'}]}
0:01:31.584382	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 014e, FOpts:), FPort: 01, FRMPayload: 0023, MIC: d4d152c1)
0:01:31.586382	LOG	Server <---------- DUT
0:01:31.587380	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0143, FOpts:), FPort: 00, FRMPayload: 0802), MIC: 139480b4)
0:01:31.590379	LOG	PULL_RESP: Protocol version = 02, Token = 661e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 533407505, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAQwEA7VUTlIC0'}}
0:01:31.591378	LOG	Server ----------> DUT
0:01:31.595375	LOG	TX_ACK: 02 661e 05 aa555a0000240409

0:01:33.266517	LOG	PULL_DATA: 02 2002 02 aa555a0000240409
0:01:33.270515	LOG	PULL_ACK: 02 2002 04
0:01:41.634805	LOG	PUSH_ACK: 02 0210 01
0:01:41.637804	LOG	PUSH_DATA: Protocol version = 02, Token = 0210, Identifier = 00, JSON = {'rxpk': [{'tmst': 539417827, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -44, 'size': 16, 'data': 'QCAgICCBTwEIAVgpTs5Vzg=='}]}
0:01:41.640801	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 81, FCnt: 014f, FOpts: 08), FPort: 01, FRMPayload: 0023, MIC: 4ece55ce)
0:01:41.644800	LOG	Server <---------- DUT
0:01:41.646797	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:41.648796	LOG	Command Answer: 08
0:01:41.663787	LOG	MAC command communication completed
0:01:41.667787	LOG	Expect a MAC answer retransmission
0:01:43.347831	LOG	PULL_DATA: 02 4981 02 aa555a0000240409
0:01:43.351828	LOG	PULL_ACK: 02 4981 04
0:01:51.606128	LOG	PUSH_ACK: 02 0211 01
0:01:51.608129	LOG	PUSH_DATA: Protocol version = 02, Token = 0211, Identifier = 00, JSON = {'rxpk': [{'tmst': 549422995, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -45, 'size': 16, 'data': 'QCAgICCBUAEIAeQ5rafTSw=='}]}
0:01:51.609128	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 81, FCnt: 0150, FOpts: 08), FPort: 01, FRMPayload: 0023, MIC: ada7d34b)
0:01:51.611126	LOG	Server <---------- DUT
0:01:51.612127	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:51.616140	LOG	MAC answer retransmission completed
0:01:51.619123	LOG	Expect a MAC answer retransmission
0:01:53.437086	LOG	PULL_DATA: 02 e2a0 02 aa555a0000240409
0:01:53.439088	LOG	PULL_ACK: 02 e2a0 04
0:02:01.629423	LOG	PUSH_ACK: 02 0212 01
0:02:01.632421	LOG	PUSH_DATA: Protocol version = 02, Token = 0212, Identifier = 00, JSON = {'rxpk': [{'tmst': 559428171, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 16, 'data': 'QCAgICCBUQEIAfboigR7Ag=='}]}
0:02:01.633421	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 81, FCnt: 0151, FOpts: 08), FPort: 01, FRMPayload: 0023, MIC: 8a047b02)
0:02:01.635419	LOG	Server <---------- DUT
0:02:01.637419	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:01.643415	LOG	MAC answer retransmission completed
0:02:01.648412	LOG	Expect a MAC answer retransmission
0:02:03.517348	LOG	PULL_DATA: 02 7ff8 02 aa555a0000240409
0:02:03.521346	LOG	PULL_ACK: 02 7ff8 04
0:02:11.613739	LOG	PUSH_ACK: 02 0214 01
0:02:11.615739	LOG	PUSH_DATA: Protocol version = 02, Token = 0214, Identifier = 00, JSON = {'rxpk': [{'tmst': 569433339, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 16, 'data': 'QCAgICCBUgEIAWEG6E0URw=='}]}
0:02:11.617739	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 81, FCnt: 0152, FOpts: 08), FPort: 01, FRMPayload: 0023, MIC: e84d1447)
0:02:11.618737	LOG	Server <---------- DUT
0:02:11.619738	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:11.623734	LOG	MAC answer retransmission completed

0:02:11.631730	LOG	Send Test Command EchoPayloadReq process starts
0:02:13.596611	LOG	PULL_DATA: 02 e347 02 aa555a0000240409
0:02:13.598610	LOG	PULL_ACK: 02 e347 04
0:02:21.641034	LOG	PUSH_ACK: 02 0216 01
0:02:21.643031	LOG	PUSH_DATA: Protocol version = 02, Token = 0216, Identifier = 00, JSON = {'rxpk': [{'tmst': 579438515, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -46, 'size': 16, 'data': 'QCAgICCBUwEIASc2MHiAJg=='}]}
0:02:21.645030	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 81, FCnt: 0153, FOpts: 08), FPort: 01, FRMPayload: 0023, MIC: 30788026)
0:02:21.646030	LOG	Server <---------- DUT
0:02:21.648028	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0144, FOpts:), FPort: e0, FRMPayload: 08010203), MIC: 70d91ce2)
0:02:21.651028	LOG	Frame command sent to the DUT
0:02:21.652027	LOG	PULL_RESP: Protocol version = 02, Token = 9f3a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 581438515, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YCAgICAARAHgfbRJU3DZHOI='}}
0:02:21.653027	LOG	Server ----------> DUT
0:02:21.658023	LOG	TX_ACK: 02 9f3a 05 aa555a0000240409
0:02:23.756827	LOG	PULL_DATA: 02 69e3 02 aa555a0000240409
0:02:23.759826	LOG	PULL_ACK: 02 69e3 04
0:02:31.623350	LOG	PUSH_ACK: 02 0217 01
0:02:31.625349	LOG	PUSH_DATA: Protocol version = 02, Token = 0217, Identifier = 00, JSON = {'rxpk': [{'tmst': 589446771, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -45, 'size': 17, 'data': 'QCAgICCAVAHg6nzDstqFWHE='}]}
0:02:31.627348	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0154, FOpts:), FPort: e0, FRMPayload: 08020304, MIC: da855871)
0:02:31.629347	LOG	Server <---------- DUT
0:02:31.631346	LOG	Answer in payload: 020304
0:02:31.632345	LOG	Frame Command Payload in the Answer: 08020304
0:02:31.639341	LOG	Checking if the payload of the EchoPayloadAns is correct
0:02:31.642339	LOG	Send Test Command EchoPayloadReq process completed
0:02:31.648336	LOG	Send Test Command EchoPayloadReq process starts
0:02:33.837090	LOG	PULL_DATA: 02 11b6 02 aa555a0000240409
0:02:33.842087	LOG	PULL_ACK: 02 11b6 04
0:02:41.613864	LOG	PUSH_ACK: 02 0219 01
0:02:41.615863	LOG	PUSH_DATA: Protocol version = 02, Token = 0219, Identifier = 00, JSON = {'rxpk': [{'tmst': 599443667, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAVQEBkMIOp9hm'}]}
0:02:41.616862	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0155, FOpts:), FPort: 01, FRMPayload: 0024, MIC: 0ea7d866)
0:02:41.617862	LOG	Server <---------- DUT
0:02:41.619860	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0145, FOpts:), FPort: e0, FRMPayload: 08121314), MIC: 31233fab)
0:02:41.621860	LOG	Frame command sent to the DUT
0:02:41.623859	LOG	PULL_RESP: Protocol version = 02, Token = 8664, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 602443667, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YCAgICAARQHgKGtFFjEjP6s='}}
0:02:41.624859	LOG	Server ----------> DUT
0:02:41.627856	LOG	TX_ACK: 02 8664 05 aa555a0000240409
0:02:43.936662	LOG	PULL_DATA: 02 98b9 02 aa555a0000240409
0:02:43.938662	LOG	PULL_ACK: 02 98b9 04

0:02:46.644120	LOG	PUSH_ACK: 02 021a 01
0:02:46.646120	LOG	PUSH_DATA: Protocol version = 02, Token = 021a, Identifier = 00, JSON = {'rxpk': [{'tmst': 604454483, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 17, 'data': 'QCAgICCAVgHg1JFDJxaVzB8='}]}
0:02:46.647119	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0156, FOpts:), FPort: e0, FRMPayload: 08131415, MIC: 1695cc1f)
0:02:46.649118	LOG	Server <---------- DUT
0:02:46.650117	LOG	Answer in payload: 131415
0:02:46.652118	LOG	Frame Command Payload in the Answer: 08131415
0:02:46.656114	LOG	Checking if the payload of the EchoPayloadAns is correct
0:02:46.660114	LOG	Send Test Command EchoPayloadReq process completed
0:02:46.665109	LOG	End Test Step: Modify RX1 and RX2 timing to 2 second delay
0:02:46.670107	LOG	Partial Verdict: PASS
0:02:46.674103	LOG	==========
0:02:46.679101	LOG	==========
0:02:46.681100	LOG	Start Test Step: Modify RX1 and RX2 timing to 15 second delay
0:02:46.690097	LOG	Send RXTimingSetupReq process starts
0:02:54.016924	LOG	PULL_DATA: 02 419f 02 aa555a0000240409
0:02:54.018923	LOG	PULL_ACK: 02 419f 04
0:02:56.666416	LOG	PUSH_ACK: 02 021b 01
0:02:56.669414	LOG	PUSH_DATA: Protocol version = 02, Token = 021b, Identifier = 00, JSON = {'rxpk': [{'tmst': 614451379, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAVwEBMkl5vu7E'}]}
0:02:56.670413	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0157, FOpts:), FPort: 01, FRMPayload: 0025, MIC: 79beeec4)
0:02:56.704395	LOG	Server <---------- DUT
0:02:56.705396	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0146, FOpts:), FPort: 00, FRMPayload: 080f), MIC: e1b0590e)
0:02:56.708394	LOG	PULL_RESP: Protocol version = 02, Token = 5344, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 617451379, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAARgEAGC7hsFkO'}}
0:02:56.709392	LOG	Server ----------> DUT
0:02:56.714390	LOG	TX_ACK: 02 5344 05 aa555a0000240409
0:03:01.654576	LOG	PUSH_ACK: 02 021c 01
0:03:01.656576	LOG	PUSH_DATA: Protocol version = 02, Token = 021c, Identifier = 00, JSON = {'rxpk': [{'tmst': 619459095, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 16, 'data': 'QCAgICCBWAEIAYyPASU+bA=='}]}
0:03:01.658574	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 81, FCnt: 0158, FOpts: 08), FPort: 01, FRMPayload: 0025, MIC: 01253e6c)
0:03:01.659574	LOG	Server <---------- DUT
0:03:01.661573	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:03:01.663572	LOG	Command Answer: 08
0:03:01.674567	LOG	MAC command communication completed
0:03:01.677564	LOG	Expect a MAC answer retransmission
0:03:04.057000	LOG	PULL_DATA: 02 1822 02 aa555a0000240409
0:03:04.060998	LOG	PULL_ACK: 02 1822 04
0:03:14.136263	LOG	PULL_DATA: 02 a84b 02 aa555a0000240409
0:03:14.138262	LOG	PULL_ACK: 02 a84b 04
0:03:21.660980	LOG	PUSH_ACK: 02 021e 01
0:03:21.663978	LOG	PUSH_DATA: Protocol version = 02, Token = 021e, Identifier = 00, JSON = {'rxpk': [{'tmst': 639469440, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.2, 'rssi': -43, 'size': 16, 'data': 'QCAgICCBWQEIAb56SWcEsg=='}]}
0:03:21.664978	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 81, FCnt: 0159, FOpts: 08), FPort: 01, FRMPayload: 0025, MIC: 496704b2)
0:03:21.666976	LOG	Server <---------- DUT
0:03:21.668976	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:03:21.674972	LOG	MAC answer retransmission completed
0:03:21.678970	LOG	Expect a MAC answer retransmission
0:03:24.216525	LOG	PULL_DATA: 02 c8fd 02 aa555a0000240409
0:03:24.218524	LOG	PULL_ACK: 02 c8fd 04
0:03:34.296788	LOG	PULL_DATA: 02 a204 02 aa555a0000240409
0:03:34.304784	LOG	PULL_ACK: 02 a204 04
0:03:41.664492	LOG	PUSH_ACK: 02 0220 01
0:03:41.667491	LOG	PUSH_DATA: Protocol version = 02, Token = 0220, Identifier = 00, JSON = {'rxpk': [{'tmst': 659479775, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -47, 'size': 16, 'data': 'QCAgICCBWgEIAbUPX7YZTA=='}]}
0:03:41.668490	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 81, FCnt: 015a, FOpts: 08), FPort: 01, FRMPayload: 0025, MIC: 5fb6194c)
0:03:41.670489	LOG	Server <---------- DUT
0:03:41.672488	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:03:41.678484	LOG	MAC answer retransmission completed
0:03:41.685480	LOG	Expect a MAC answer retransmission
0:03:44.386943	LOG	PULL_DATA: 02 1a90 02 aa555a0000240409
0:03:44.387942	LOG	PULL_ACK: 02 1a90 04
0:03:54.466206	LOG	PULL_DATA: 02 f449 02 aa555a0000240409
0:03:54.468205	LOG	PULL_ACK: 02 f449 04
0:04:01.706084	LOG	PUSH_ACK: 02 0221 01
0:04:01.709083	LOG	PUSH_DATA: Protocol version = 02, Token = 0221, Identifier = 00, JSON = {'rxpk': [{'tmst': 679490127, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -45, 'size': 16, 'data': 'QCAgICCBWwEIAX+TqRYZEw=='}]}
0:04:01.711082	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 81, FCnt: 015b, FOpts: 08), FPort: 01, FRMPayload: 0025, MIC: a9161913)
0:04:01.712081	LOG	Server <---------- DUT
0:04:01.715079	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:04:01.722075	LOG	MAC answer retransmission completed
0:04:01.728072	LOG	Send Test Command EchoPayloadReq process starts
0:04:04.546471	LOG	PULL_DATA: 02 fe15 02 aa555a0000240409
0:04:04.550465	LOG	PULL_ACK: 02 fe15 04
0:04:14.625730	LOG	PULL_DATA: 02 4b48 02 aa555a0000240409
0:04:14.627729	LOG	PULL_ACK: 02 4b48 04
0:04:21.712697	LOG	PUSH_ACK: 02 0223 01
0:04:21.714696	LOG	PUSH_DATA: Protocol version = 02, Token = 0223, Identifier = 00, JSON = {'rxpk': [{'tmst': 699500463, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 16, 'data': 'QCAgICCBXAEIAatrxwgXCw=='}]}
0:04:21.715698	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 81, FCnt: 015c, FOpts: 08), FPort: 01, FRMPayload: 0025, MIC: c708170b)
0:04:21.716725	LOG	Server <---------- DUT
0:04:21.718696	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0147, FOpts:), FPort: e0, FRMPayload: 08010203), MIC: 8ce606ac)
0:04:21.721692	LOG	Frame command sent to the DUT

0:04:21.722710	LOG	PULL_RESP: Protocol version = 02, Token = 1f55, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 714500463, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YCAgICAARwHgujLeD4zmBqw='}}
0:04:21.723708	LOG	Server ----------> DUT
0:04:21.728169	LOG	TX_ACK: 02 1f55 05 aa555a0000240409
0:04:24.666018	LOG	PULL_DATA: 02 962d 02 aa555a0000240409
0:04:24.668017	LOG	PULL_ACK: 02 962d 04
0:04:34.746280	LOG	PULL_DATA: 02 e815 02 aa555a0000240409
0:04:34.750278	LOG	PULL_ACK: 02 e815 04
0:04:41.714315	LOG	PUSH_ACK: 02 0225 01
0:04:41.716313	LOG	PUSH_DATA: Protocol version = 02, Token = 0225, Identifier = 00, JSON = {'rxpk': [{'tmst': 719513912, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -46, 'size': 17, 'data': 'QCAgICCAXQHguVKzFdTX/+w='}]}
0:04:41.718314	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 015d, FOpts:), FPort: e0, FRMPayload: 08020304, MIC: d4d7ffec)
0:04:41.719312	LOG	Server <---------- DUT
0:04:41.720313	LOG	Answer in payload: 020304
0:04:41.722311	LOG	Frame Command Payload in the Answer: 08020304
0:04:41.727308	LOG	Checking if the payload of the EchoPayloadAns is correct
0:04:41.730307	LOG	Send Test Command EchoPayloadReq process completed
0:04:41.737302	LOG	Send Test Command EchoPayloadReq process starts
0:04:44.825706	LOG	PULL_DATA: 02 25cb 02 aa555a0000240409
0:04:44.827706	LOG	PULL_ACK: 02 25cb 04
0:04:54.905968	LOG	PULL_DATA: 02 5c8f 02 aa555a0000240409
0:04:54.907967	LOG	PULL_ACK: 02 5c8f 04
0:05:01.704100	LOG	PUSH_ACK: 02 0226 01
0:05:01.705097	LOG	PUSH_DATA: Protocol version = 02, Token = 0226, Identifier = 00, JSON = {'rxpk': [{'tmst': 739515992, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.2, 'rssi': -43, 'size': 15, 'data': 'QCAgICCAXgEB09TirFZl'}]}
0:05:01.707097	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 015e, FOpts:), FPort: 01, FRMPayload: 0026, MIC: e2ac5665)
0:05:01.708096	LOG	Server <---------- DUT
0:05:01.709097	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0148, FOpts:), FPort: e0, FRMPayload: 08121314), MIC: d7fd45b0)
0:05:01.712097	LOG	Frame command sent to the DUT
0:05:01.713094	LOG	PULL_RESP: Protocol version = 02, Token = e88a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 755515992, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YCAgICAASAHgflIrj9f9RbA='}}
0:05:01.714094	LOG	Server ----------> DUT
0:05:01.718090	LOG	TX_ACK: 02 e88a 05 aa555a0000240409
0:05:05.075811	LOG	PULL_DATA: 02 ae6d 02 aa555a0000240409
0:05:05.080808	LOG	PULL_ACK: 02 ae6d 04
0:05:15.156072	LOG	PULL_DATA: 02 4546 02 aa555a0000240409
0:05:15.158071	LOG	PULL_ACK: 02 4546 04
0:05:21.720335	LOG	PUSH_ACK: 02 0228 01
0:05:21.722334	LOG	PUSH_DATA: Protocol version = 02, Token = 0228, Identifier = 00, JSON = {'rxpk': [{'tmst': 759534610, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -46, 'size': 17, 'data': 'QCAgICCAXwHgegf7zQt5zXE='}]}
0:05:21.724333	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 015f, FOpts:), FPort: e0, FRMPayload: 08131415, MIC: 0b79cd71)
0:05:21.725333	LOG	Server <---------- DUT

0:05:21.727331	LOG	Answer in payload: 131415
0:05:21.729330	LOG	Frame Command Payload in the Answer: 08131415
0:05:21.739324	LOG	Checking if the payload of the EchoPayloadAns is correct
0:05:21.744321	LOG	Send Test Command EchoPayloadReq process completed
0:05:21.748320	LOG	End Test Step: Modify RX1 and RX2 timing to 15 second delay
0:05:21.760312	LOG	Partial Verdict: PASS
0:05:21.765310	LOG	==========
0:05:21.772306	LOG	==========
0:05:21.774305	LOG	Start Test Step: Restore default settings
0:05:21.783299	LOG	Send RXTimingSetupReq process starts
0:05:25.245887	LOG	PULL_DATA: 02 2786 02 aa555a0000240409
0:05:25.247886	LOG	PULL_ACK: 02 2786 04
0:05:35.325149	LOG	PULL_DATA: 02 e53f 02 aa555a0000240409
0:05:35.330146	LOG	PULL_ACK: 02 e53f 04
0:05:41.724917	LOG	PUSH_ACK: 02 022b 01
0:05:41.726916	LOG	PUSH_DATA: Protocol version = 02, Token = 022b, Identifier = 00, JSON = {'rxpk': [{'tmst': 779536674, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAYAEBfO0BdDy3'}]}
0:05:41.728916	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0160, FOpts:), FPort: 01, FRMPayload: 0027, MIC: 01743cb7)
0:05:41.729916	LOG	Server <---------- DUT
0:05:41.731914	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0149, FOpts:), FPort: 00, FRMPayload: 0800), MIC: f561af40)
0:05:41.733913	LOG	PULL_RESP: Protocol version = 02, Token = 4d0e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 795536674, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAASQEAh9X1Ya9A'}}
0:05:41.766893	LOG	Server ----------> DUT
0:05:41.771891	LOG	TX_ACK: 02 4d0e 05 aa555a0000240409
0:05:45.335004	LOG	PULL_DATA: 02 a98d 02 aa555a0000240409
0:05:45.337003	LOG	PULL_ACK: 02 a98d 04
0:05:55.415264	LOG	PULL_DATA: 02 8a71 02 aa555a0000240409
0:05:55.417264	LOG	PULL_ACK: 02 8a71 04
0:06:01.742663	LOG	PUSH_ACK: 02 022d 01
0:06:01.744662	LOG	PUSH_DATA: Protocol version = 02, Token = 022d, Identifier = 00, JSON = {'rxpk': [{'tmst': 799552141, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 16, 'data': 'QCAgICCBYQEIAaErSoqFBg=='}]}
0:06:01.746660	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 81, FCnt: 0161, FOpts: 08), FPort: 01, FRMPayload: 0027, MIC: 4a8a8506)
0:06:01.750658	LOG	Server <---------- DUT
0:06:01.754656	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:06:01.757654	LOG	Command Answer: 08
0:06:01.774663	LOG	MAC command communication completed
0:06:01.779661	LOG	Send Test Command EchoPayloadReq process starts
0:06:05.495525	LOG	PULL_DATA: 02 8a2c 02 aa555a0000240409
0:06:05.498526	LOG	PULL_ACK: 02 8a2c 04
0:06:11.725064	LOG	PUSH_ACK: 02 022f 01
0:06:11.727063	LOG	PUSH_DATA: Protocol version = 02, Token = 022f, Identifier = 00, JSON = {'rxpk': [{'tmst': 809557301, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 16, 'data': 'QCAgICCBYgEIAemxy1z/KA=='}]}
0:06:11.728060	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 81, FCnt: 0162, FOpts: 08), FPort: 01, FRMPayload: 0027, MIC: cb5cff28)

0:06:11.730059	LOG	Server <---------- DUT
0:06:11.732058	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 014a, FOpts:), FPort: e0, FRMPayload: 08010203), MIC: 0f0ba9ab)
0:06:11.734057	LOG	Frame command sent to the DUT
0:06:11.736056	LOG	PULL_RESP: Protocol version = 02, Token = 162d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 810557301, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YCAgICAASgHgd766vw8Lqas='}}
0:06:11.738055	LOG	Server ----------> DUT
0:06:11.741053	LOG	TX_ACK: 02 162d 05 aa555a0000240409
0:06:15.514945	LOG	PULL_DATA: 02 75a4 02 aa555a0000240409
0:06:15.516944	LOG	PULL_ACK: 02 75a4 04
0:06:21.766386	LOG	PUSH_ACK: 02 0230 01
0:06:21.768385	LOG	PUSH_DATA: Protocol version = 02, Token = 0230, Identifier = 00, JSON = {'rxpk': [{'tmst': 819565560, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 17, 'data': 'QCAgICCAYwHgaNhUKqpbqXs='}]}
0:06:21.770384	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0163, FOpts:), FPort: e0, FRMPayload: 08020304, MIC: aa5ba97b)
0:06:21.772383	LOG	Server <---------- DUT
0:06:21.773382	LOG	Answer in payload: 020304
0:06:21.775381	LOG	Frame Command Payload in the Answer: 08020304
0:06:21.780378	LOG	Checking if the payload of the EchoPayloadAns is correct
0:06:21.783377	LOG	Send Test Command EchoPayloadReq process completed
0:06:21.789373	LOG	Send Test Command EchoPayloadReq process starts
0:06:25.595214	LOG	PULL_DATA: 02 bc6a 02 aa555a0000240409
0:06:25.597232	LOG	PULL_ACK: 02 bc6a 04
0:06:31.738717	LOG	PUSH_ACK: 02 0231 01
0:06:31.740716	LOG	PUSH_DATA: Protocol version = 02, Token = 0231, Identifier = 00, JSON = {'rxpk': [{'tmst': 829562472, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAZAEBtmc84oCp'}]}
0:06:31.741715	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0164, FOpts:), FPort: 01, FRMPayload: 0028, MIC: 3ce280a9)
0:06:31.743714	LOG	Server <---------- DUT
0:06:31.745713	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 014b, FOpts:), FPort: e0, FRMPayload: 08121314), MIC: 1c9df627)
0:06:31.747712	LOG	Frame command sent to the DUT
0:06:31.749711	LOG	PULL_RESP: Protocol version = 02, Token = 3f1b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 831562472, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YCAgICAASwHgvDHD3Ryd9ic='}}
0:06:31.750710	LOG	Server ----------> DUT
0:06:31.753709	LOG	TX_ACK: 02 3f1b 05 aa555a0000240409
0:06:35.734853	LOG	PULL_DATA: 02 eeba 02 aa555a0000240409
0:06:35.739850	LOG	PULL_ACK: 02 eeba 04
0:06:36.789252	LOG	PUSH_ACK: 02 0232 01
0:06:36.792251	LOG	PUSH_DATA: Protocol version = 02, Token = 0232, Identifier = 00, JSON = {'rxpk': [{'tmst': 834573298, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 17, 'data': 'QCAgICCAZQHgtSeKnckLFdY='}]}
0:06:36.794249	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0165, FOpts:), FPort: e0, FRMPayload: 08131415, MIC: c90b15d6)
0:06:36.795249	LOG	Server <---------- DUT
0:06:36.797248	LOG	Answer in payload: 131415
0:06:36.799247	LOG	Frame Command Payload in the Answer: 08131415

0:06:36.808243	LOG	Checking if the payload of the EchoPayloadAns is correct
0:06:36.811242	LOG	Send Test Command EchoPayloadReq process completed
0:06:36.818236	LOG	End Test Step: Restore default settings
0:06:36.827231	LOG	Partial Verdict: PASS
0:06:36.832228	LOG	==========
0:06:36.838225	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_009
0:06:36.840225	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_010	
Verdict	PASS	
Date	2021-10-18 00:32:07	
Comments	TxParamSetupReq MAC Command	
Technology Version	LCTT v3.1.0_D1 | GUI v1.10.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.1	
Test Specs Version	USv1.5.1/EUv1.6/KRv1.2.1/ASv1.1.1/INv1.1.1/ALLv1.1	
Project	MLSv2.0.0	
Project Creation Date	2021-10-17 22:25:22	
Sample	DevID:SAMR34-XPRO | AppID:CertApp_EU_ABP | SW:MLSv2.0.0 | HW:SAMR34J18B	
Parameters	Conformance	TRUE

Time Stamp (ms)	Event	Summary
0:00:00.012257	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_010
0:00:00.049237	LOG	==========
0:00:00.051236	LOG	Start Test Step: Device activation
0:00:00.108203	LOG	Activation process has finished successfully
0:00:00.110202	LOG	Data stored in the DUT after Activation:
0:00:00.114199	LOG	DevAddr: 20202020
0:00:00.116199	LOG	AppEUI: abcdabcdabcdabcd
0:00:00.122195	LOG	NwkSKey: abcdabcdabcdabcdabcdabcdabcdabcd
0:00:00.124194	LOG	AppSKey: 12345678123456781234567812345678
0:00:00.128192	LOG	End Test Step: Device activation
0:00:00.132192	LOG	Partial Verdict: PASS
0:00:00.135190	LOG	==========
0:00:00.141185	LOG	==========
0:00:00.143185	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.153179	LOG	DUT Pre-condition activation process starts
0:00:00.156176	LOG	DUT Pre-condition activation completed
0:00:00.159174	LOG	End Test Step: DUT Pre-condition settings
0:00:00.163174	LOG	Partial Verdict: PASS
0:00:00.167169	LOG	==========
0:00:00.172169	LOG	==========
0:00:00.175165	LOG	Start Test Step: TxParamSetupReq Mac command
0:00:00.188158	LOG	Send TxParamSetupReq process starts
0:00:05.888961	LOG	PULL_DATA: 02 7f39 02 aa555a0000240409
0:00:05.890961	LOG	PULL_ACK: 02 7f39 04
0:00:05.891960	LOG	First PULL_DATA received
0:00:06.857410	LOG	PUSH_ACK: 02 0234 01
0:00:06.860409	LOG	PUSH_DATA: Protocol version = 02, Token = 0234, Identifier = 00, JSON = {'rxpk': [{'tmst': 844570210, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAZgEBsHbKVWI9'}]}
0:00:06.861408	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0166, FOpts:), FPort: 01, FRMPayload: 0029, MIC: ca55623d)

0:00:06.863407	LOG	Server <---------- DUT
0:00:06.865406	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 014c, FOpts:), FPort: 00, FRMPayload: 0905), MIC: 291a0209)
0:00:06.868404	LOG	PULL_RESP: Protocol version = 02, Token = db88, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 846570210, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAATAEA5+wpGgIJ'}}
0:00:06.870404	LOG	Server ----------> DUT
0:00:06.873402	LOG	TX_ACK: 02 db88 05 aa555a0000240409
0:00:11.820585	LOG	PUSH_ACK: 02 0235 01
0:00:11.822584	LOG	PUSH_DATA: Protocol version = 02, Token = 0235, Identifier = 00, JSON = {'rxpk': [{'tmst': 849572778, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAZwEBa5/Y31gj'}]}
0:00:11.824583	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0167, FOpts:), FPort: 01, FRMPayload: 0029, MIC: d8df5823)
0:00:11.826582	LOG	Server <---------- DUT
0:00:11.829580	LOG	MAC command not received because FPort field is not set to 0 and FOpts field is empty
0:00:11.856564	LOG	End Test Step: TxParamSetupReq Mac command
0:00:11.860562	LOG	Partial Verdict: PASS
0:00:11.864560	LOG	==========
0:00:11.869557	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_010
0:00:11.871556	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_011	
Verdict	PASS	
Date	2021-10-18 00:32:22	
Comments	LinkCheckReq MAC Command	
Technology Version	LCTT v3.1.0_D1 | GUI v1.10.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.1	
Test Specs Version	USv1.5.1/EUv1.6/KRv1.2.1/ASv1.1.1/INv1.1.1/ALLv1.1	
Project	MLSv2.0.0	
Project Creation Date	2021-10-17 22:25:22	
Sample	DevID:SAMR34-XPRO | AppID:CertApp_EU_ABP | SW:MLSv2.0.0 | HW:SAMR34J18B	
Parameters	Conformance	TRUE

Time Stamp (ms)	Event	Summary
0:00:00.012405	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_011
0:00:00.048385	LOG	==========
0:00:00.050383	LOG	Start Test Step: Device activation
0:00:00.110348	LOG	Activation process has finished successfully
0:00:00.112347	LOG	Data stored in the DUT after Activation:
0:00:00.116345	LOG	DevAddr: 20202020
0:00:00.119343	LOG	AppEUI: abcdabcdabcdabcd
0:00:00.122341	LOG	NwkSKey: abcdabcdabcdabcdabcdabcdabcdabcd
0:00:00.124340	LOG	AppSKey: 12345678123456781234567812345678
0:00:00.127338	LOG	End Test Step: Device activation
0:00:00.130339	LOG	Partial Verdict: PASS
0:00:00.135335	LOG	==========
0:00:00.140333	LOG	==========
0:00:00.143329	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.152325	LOG	DUT Pre-condition activation process starts
0:00:00.156322	LOG	DUT Pre-condition activation completed

0:00:00.160320	LOG	End Test Step: DUT Pre-condition settings
0:00:00.163318	LOG	Partial Verdict: PASS
0:00:00.167315	LOG	==========
0:00:00.174312	LOG	==========
0:00:00.176311	LOG	Start Test Step: LinkCheckReq MAC command
0:00:00.187304	LOG	Send Test Command LinkCheckReq process starts
0:00:01.039819	LOG	PULL_DATA: 02 0215 02 aa555a0000240409
0:00:01.040820	LOG	PULL_ACK: 02 0215 04
0:00:01.043818	LOG	First PULL_DATA received
0:00:02.003271	LOG	PUSH_ACK: 02 0236 01
0:00:02.005269	LOG	PUSH_DATA: Protocol version = 02, Token = 0236, Identifier = 00, JSON = {'rxpk': [{'tmst': 854575330, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAaAEBTQnMP8fv'}]}
0:00:02.006269	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0168, FOpts:), FPort: 01, FRMPayload: 0029, MIC: cc3fc7ef)
0:00:02.008268	LOG	Server <---------- DUT
0:00:02.009268	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 014d, FOpts:), FPort: e0, FRMPayload: 20), MIC: 5cb69e34)
0:00:02.011266	LOG	Frame command sent to the DUT
0:00:02.013265	LOG	PULL_RESP: Protocol version = 02, Token = 51e7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 856575330, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAATQHgBFy2njQ='}}
0:00:02.014264	LOG	Server ----------> DUT
0:00:02.018262	LOG	Send Test Command LinkCheckReq process completed
0:00:02.021260	LOG	Wait a MAC command from the DUT process starts
0:00:06.965446	LOG	PUSH_ACK: 02 0237 01
0:00:06.967444	LOG	PUSH_DATA: Protocol version = 02, Token = 0237, Identifier = 00, JSON = {'rxpk': [{'tmst': 859583053, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 16, 'data': 'QCAgICCBaQECAT3rA/frYg=='}]}
0:00:06.969443	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 81, FCnt: 0169, FOpts: 02), FPort: 01, FRMPayload: 002a, MIC: 03f7eb62)
0:00:06.970443	LOG	Server <---------- DUT
0:00:06.971444	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:06.973443	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 014e, FOpts:), FPort: 00, FRMPayload: 022e01), MIC: 7f1acfef)
0:00:06.976441	LOG	PULL_RESP: Protocol version = 02, Token = b6b8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 861583053, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 16, 'data': 'YCAgICAATgEASqNUfxrP7w=='}}
0:00:06.977440	LOG	Server ----------> DUT
0:00:06.981438	LOG	Wait a MAC command from the DUT process completed
0:00:07.012419	LOG	Send Test Command EchoPayloadReq process starts
0:00:11.179046	LOG	PULL_DATA: 02 67ea 02 aa555a0000240409
0:00:11.181047	LOG	PULL_ACK: 02 67ea 04
0:00:16.970779	LOG	PUSH_ACK: 02 0239 01
0:00:16.973748	LOG	PUSH_DATA: Protocol version = 02, Token = 0239, Identifier = 00, JSON = {'rxpk': [{'tmst': 869583075, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAagEBl+yu8Ja+'}]}
0:00:16.977745	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 016a, FOpts:), FPort: 01, FRMPayload: 002a, MIC: aef096be)
0:00:16.980747	LOG	Server <---------- DUT

0:00:16.984743	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 014f, FOpts:), FPort: e0, FRMPayload: 08010203), MIC: 7c8576b2)
0:00:16.989757	LOG	Frame command sent to the DUT
0:00:16.993738	LOG	PULL_RESP: Protocol version = 02, Token = d454, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 871583075, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YCAgICAATwHgRPHygnyFdrI='}}
0:00:16.996738	LOG	Server ----------> DUT
0:00:17.001732	LOG	TX_ACK: 02 d454 05 aa555a0000240409
0:00:21.198342	LOG	PULL_DATA: 02 2b8c 02 aa555a0000240409
0:00:21.200341	LOG	PULL_ACK: 02 2b8c 04
0:00:22.024871	LOG	PUSH_ACK: 02 023a 01
0:00:22.027870	LOG	PUSH_DATA: Protocol version = 02, Token = 023a, Identifier = 00, JSON = {'rxpk': [{'tmst': 874593899, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 17, 'data': 'QCAgICCAawHg019DJtbUrq4='}]}
0:00:22.029869	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 016b, FOpts:), FPort: e0, FRMPayload: 08020304, MIC: d6d4aeae)
0:00:22.030868	LOG	Server <---------- DUT
0:00:22.032867	LOG	Answer in payload: 020304
0:00:22.038864	LOG	Frame Command Payload in the Answer: 08020304
0:00:22.043861	LOG	Checking if the payload of the EchoPayloadAns is correct
0:00:22.047859	LOG	Send Test Command EchoPayloadReq process completed
0:00:22.049858	LOG	End Test Step: LinkCheckReq MAC command
0:00:22.055854	LOG	Partial Verdict: PASS
0:00:22.059851	LOG	==========
0:00:22.063849	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_011
0:00:22.064848	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_012_A	
Verdict	PASS	
Date	2021-10-18 00:32:47	
Comments	LinkADRReq MAC command (Part 1)	
Technology Version	LCTT v3.1.0_D1 | GUI v1.10.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.1	
Test Specs Version	USv1.5.1/EUv1.6/KRv1.2.1/ASv1.1.1/INv1.1.1/ALLv1.1	
Project	MLSv2.0.0	
Project Creation Date	2021-10-17 22:25:22	
Sample	DevID:SAMR34-XPRO | AppID:CertApp_EU_ABP | SW:MLSv2.0.0 | HW:SAMR34J18B	
Parameters	Addition of a single channel frequency	867.700
	Conformance	TRUE

Time Stamp (ms)	Event	Summary
0:00:00.011403	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_012_A
0:00:00.043365	LOG	==========
0:00:00.045364	LOG	Start Test Step: Device activation
0:00:00.103350	LOG	Activation process has finished successfully
0:00:00.106330	LOG	Data stored in the DUT after Activation:
0:00:00.108328	LOG	DevAddr: 20202020
0:00:00.111327	LOG	AppEUI: abcdabcdabcdabcd
0:00:00.113326	LOG	NwkSKey: abcdabcdabcdabcdabcdabcdabcdabcd
0:00:00.116324	LOG	AppSKey: 12345678123456781234567812345678
0:00:00.118323	LOG	End Test Step: Device activation

0:00:00.121321	LOG	Partial Verdict: PASS
0:00:00.125321	LOG	==========
0:00:00.130319	LOG	==========
0:00:00.132317	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.141309	LOG	DUT Pre-condition activation process starts
0:00:00.144308	LOG	DUT Pre-condition activation completed
0:00:00.147306	LOG	End Test Step: DUT Pre-condition settings
0:00:00.150304	LOG	Partial Verdict: PASS
0:00:00.154302	LOG	==========
0:00:00.159300	LOG	==========
0:00:00.161299	LOG	Start Test Step: Test TXPower
0:00:00.170293	LOG	Send LinkADRReq process starts
0:00:06.165880	LOG	PULL_DATA: 02 b687 02 aa555a0000240409
0:00:06.167879	LOG	PULL_ACK: 02 b687 04
0:00:06.169878	LOG	First PULL_DATA received
0:00:06.886470	LOG	PUSH_ACK: 02 023b 01
0:00:06.889468	LOG	PUSH_DATA: Protocol version = 02, Token = 023b, Identifier = 00, JSON = {'rxpk': [{'tmst': 884590795, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAbAEBx2200MEM'}]}
0:00:06.890467	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 016c, FOpts:), FPort: 01, FRMPayload: 002b, MIC: b4d0c10c)
0:00:06.891467	LOG	Server <---------- DUT
0:00:06.893466	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0150, FOpts:), FPort: 00, FRMPayload: 0357070001), MIC: c0a76a08)
0:00:06.895465	LOG	PULL_RESP: Protocol version = 02, Token = 1f98, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 886590795, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAUAEAKqwdO5TAp2oI'}}
0:00:06.896464	LOG	Server ----------> DUT
0:00:06.899463	LOG	TX_ACK: 02 1f98 05 aa555a0000240409
0:00:11.877628	LOG	PUSH_ACK: 02 023c 01
0:00:11.880626	LOG	PUSH_DATA: Protocol version = 02, Token = 023c, Identifier = 00, JSON = {'rxpk': [{'tmst': 889598503, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -61, 'size': 17, 'data': 'QCAgICCCbQEDBwEkZotd0cc='}]}
0:00:11.881626	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 016d, FOpts: 0307), FPort: 01, FRMPayload: 002b, MIC: 8b5dd1c7)
0:00:11.883625	LOG	Server <---------- DUT
0:00:11.885624	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:11.887622	LOG	Command Answer: 0307
0:00:11.893619	LOG	MAC command communication completed
0:00:11.900615	LOG	DUT set the minimum TXPower
0:00:11.904613	LOG	Calculate RSSI average process starts
0:00:16.345085	LOG	PULL_DATA: 02 1b64 02 aa555a0000240409
0:00:16.346086	LOG	PULL_ACK: 02 1b64 04
0:00:21.916914	LOG	PUSH_ACK: 02 023e 01
0:00:21.918911	LOG	PUSH_DATA: Protocol version = 02, Token = 023e, Identifier = 00, JSON = {'rxpk': [{'tmst': 899598511, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -59, 'size': 15, 'data': 'QCAgICCAbgEBDdL+LuFn'}]}
0:00:21.920910	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 016e, FOpts:), FPort: 01, FRMPayload: 002b, MIC: fe2ee167)
0:00:21.922909	LOG	Server <---------- DUT
0:00:26.425346	LOG	PULL_DATA: 02 f561 02 aa555a0000240409

0:00:26.427345	LOG	PULL_ACK: 02 f561 04
0:00:26.905076	LOG	PUSH_ACK: 02 023f 01
0:00:26.907082	LOG	PUSH_DATA: Protocol version = 02, Token = 023f, Identifier = 00, JSON = {'rxpk': [{'tmst': 904601079, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -61, 'size': 15, 'data': 'QCAgICCAbwEB6Ep4ERFi'}]}
0:00:26.909080	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 016f, FOpts:), FPort: 01, FRMPayload: 002b, MIC: 78111162)
0:00:26.910075	LOG	Server <---------- DUT
0:00:31.894232	LOG	PUSH_ACK: 02 0240 01
0:00:31.903229	LOG	PUSH_DATA: Protocol version = 02, Token = 0240, Identifier = 00, JSON = {'rxpk': [{'tmst': 909603647, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -61, 'size': 15, 'data': 'QCAgICCAcAEBrKtAYx9w'}]}
0:00:31.907226	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0170, FOpts:), FPort: 01, FRMPayload: 002b, MIC: 40631f70)
0:00:31.908226	LOG	Server <---------- DUT
0:00:31.933211	LOG	Calculate RSSI average process completed
0:00:31.936210	LOG	Send LinkADRReq process starts
0:00:36.504607	LOG	PULL_DATA: 02 ab1c 02 aa555a0000240409
0:00:36.506606	LOG	PULL_ACK: 02 ab1c 04
0:00:36.889390	LOG	PUSH_ACK: 02 0241 01
0:00:36.891388	LOG	PUSH_DATA: Protocol version = 02, Token = 0241, Identifier = 00, JSON = {'rxpk': [{'tmst': 914606215, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -63, 'size': 15, 'data': 'QCAgICCAcQEBlKM+EaXM'}]}
0:00:36.893386	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0171, FOpts:), FPort: 01, FRMPayload: 002b, MIC: 3e11a5cc)
0:00:36.894405	LOG	Server <---------- DUT
0:00:36.896386	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0151, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: e92fbfcd)
0:00:36.920371	LOG	PULL_RESP: Protocol version = 02, Token = 183d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 916606215, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAUQEADdkWXVPpL7/N'}}
0:00:36.921370	LOG	Server ----------> DUT
0:00:36.925368	LOG	TX_ACK: 02 183d 05 aa555a0000240409
0:00:41.891541	LOG	PUSH_ACK: 02 0242 01
0:00:41.893542	LOG	PUSH_DATA: Protocol version = 02, Token = 0242, Identifier = 00, JSON = {'rxpk': [{'tmst': 919613919, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCcgEDBwFFOr511MQ='}]}
0:00:41.894541	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0172, FOpts: 0307), FPort: 01, FRMPayload: 002b, MIC: be75d4c4)
0:00:41.896538	LOG	Server <---------- DUT
0:00:41.898537	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:41.899536	LOG	Command Answer: 0307
0:00:41.907533	LOG	MAC command communication completed
0:00:41.911529	LOG	Calculate RSSI average process starts
0:00:46.594863	LOG	PULL_DATA: 02 e790 02 aa555a0000240409
0:00:46.595864	LOG	PULL_ACK: 02 e790 04
0:00:51.925830	LOG	PUSH_ACK: 02 0244 01
0:00:51.927828	LOG	PUSH_DATA: Protocol version = 02, Token = 0244, Identifier = 00, JSON = {'rxpk': [{'tmst': 929613943, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAcwEBK/I3rS/h'}]}
0:00:51.928828	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0173, FOpts:), FPort: 01, FRMPayload: 002b, MIC: 37ad2fe1)
0:00:51.929828	LOG	Server <---------- DUT
0:00:56.675124	LOG	PULL_DATA: 02 5b90 02 aa555a0000240409
0:00:56.677123	LOG	PULL_ACK: 02 5b90 04
0:00:56.912988	LOG	PUSH_ACK: 02 0245 01
0:00:56.914989	LOG	PUSH_DATA: Protocol version = 02, Token = 0245, Identifier = 00, JSON = {'rxpk': [{'tmst': 934616511, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAdAEBTHdcOMpV'}]}
0:00:56.915988	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0174, FOpts:), FPort: 01, FRMPayload: 002b, MIC: 5c38ca55)
0:00:56.916988	LOG	Server <---------- DUT
0:01:01.901280	LOG	PUSH_ACK: 02 0246 01
0:01:01.905277	LOG	PUSH_DATA: Protocol version = 02, Token = 0246, Identifier = 00, JSON = {'rxpk': [{'tmst': 939619087, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAdQEBH+/wUtua'}]}
0:01:01.908284	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0175, FOpts:), FPort: 01, FRMPayload: 002b, MIC: f052db9a)
0:01:01.909281	LOG	Server <---------- DUT
0:01:01.914276	LOG	Calculate RSSI average process completed
0:01:01.917300	LOG	Send LinkADRReq process starts
0:01:06.754629	LOG	PULL_DATA: 02 1ee5 02 aa555a0000240409
0:01:06.756626	LOG	PULL_ACK: 02 1ee5 04
0:01:06.890550	LOG	PUSH_ACK: 02 0247 01
0:01:06.892548	LOG	PUSH_DATA: Protocol version = 02, Token = 0247, Identifier = 00, JSON = {'rxpk': [{'tmst': 944621655, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -47, 'size': 15, 'data': 'QCAgICCAdgEBpI4QsubL'}]}
0:01:06.893548	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0176, FOpts:), FPort: 01, FRMPayload: 002b, MIC: 10b2e6cb)
0:01:06.894548	LOG	Server <---------- DUT
0:01:06.896547	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0152, FOpts:), FPort: 00, FRMPayload: 0358070001), MIC: e0b76688)
0:01:06.898546	LOG	PULL_RESP: Protocol version = 02, Token = dabc, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 946621655, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAUgEAEHh9Iqfgt2aI'}}
0:01:06.899545	LOG	Server ----------> DUT
0:01:06.902544	LOG	TX_ACK: 02 dabc 05 aa555a0000240409
0:01:11.905694	LOG	PUSH_ACK: 02 0248 01
0:01:11.907694	LOG	PUSH_DATA: Protocol version = 02, Token = 0248, Identifier = 00, JSON = {'rxpk': [{'tmst': 949629370, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCdwEDAwHxBfHXtn0='}]}
0:01:11.909693	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0177, FOpts: 0303), FPort: 01, FRMPayload: 002b, MIC: f1d7b67d)
0:01:11.910692	LOG	Server <---------- DUT
0:01:11.911692	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:11.912692	LOG	Command Answer: 0303
0:01:11.916689	LOG	MAC command communication completed
0:01:11.920686	LOG	RFU tested. Answer: 03

0:01:11.924684	LOG	Send LinkADRReq process starts
0:01:16.764928	LOG	PULL_DATA: 02 02a8 02 aa555a0000240409
0:01:16.765928	LOG	PULL_ACK: 02 02a8 04
0:01:21.946978	LOG	PUSH_ACK: 02 024a 01
0:01:21.948977	LOG	PUSH_DATA: Protocol version = 02, Token = 024a, Identifier = 00, JSON = {'rxpk': [{'tmst': 959629386, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAeAEB3Thz09+t'}]}
0:01:21.950976	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0178, FOpts:), FPort: 01, FRMPayload: 002b, MIC: 73d3dfad)
0:01:21.951975	LOG	Server <---------- DUT
0:01:21.953974	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0153, FOpts:), FPort: 00, FRMPayload: 035f070001), MIC: b92d5f5e)
0:01:21.955973	LOG	PULL_RESP: Protocol version = 02, Token = e63e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 961629386, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAUwEAbwjdnN+5LV9e'}}
0:01:21.957972	LOG	Server ----------> DUT
0:01:21.960970	LOG	TX_ACK: 02 e63e 05 aa555a0000240409
0:01:26.784224	LOG	PULL_DATA: 02 1177 02 aa555a0000240409
0:01:26.786224	LOG	PULL_ACK: 02 1177 04
0:01:26.916154	LOG	PUSH_ACK: 02 024b 01
0:01:26.919148	LOG	PUSH_DATA: Protocol version = 02, Token = 024b, Identifier = 00, JSON = {'rxpk': [{'tmst': 964637091, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCeQEDBwHKRu8eX0Q='}]}
0:01:26.920148	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0179, FOpts: 0307), FPort: 01, FRMPayload: 002b, MIC: ef1e5f44)
0:01:26.921176	LOG	Server <---------- DUT
0:01:26.923176	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:26.925145	LOG	Command Answer: 0307
0:01:26.933139	LOG	MAC command communication completed
0:01:26.937137	LOG	Calculate RSSI average process starts
0:01:36.864484	LOG	PULL_DATA: 02 4dcd 02 aa555a0000240409
0:01:36.867484	LOG	PULL_ACK: 02 4dcd 04
0:01:36.943440	LOG	PUSH_ACK: 02 024c 01
0:01:36.945440	LOG	PUSH_DATA: Protocol version = 02, Token = 024c, Identifier = 00, JSON = {'rxpk': [{'tmst': 974637115, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAegEBHVHpxm7l'}]}
0:01:36.946438	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 017a, FOpts:), FPort: 01, FRMPayload: 002b, MIC: e9c66ee5)
0:01:36.947440	LOG	Server <---------- DUT
0:01:41.933601	LOG	PUSH_ACK: 02 024d 01
0:01:41.935600	LOG	PUSH_DATA: Protocol version = 02, Token = 024d, Identifier = 00, JSON = {'rxpk': [{'tmst': 979639675, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAewEBun/L1KNY'}]}
0:01:41.937598	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 017b, FOpts:), FPort: 01, FRMPayload: 002b, MIC: cbd4a358)
0:01:41.938602	LOG	Server <---------- DUT
0:01:46.924759	LOG	PUSH_ACK: 02 024e 01
0:01:46.926757	LOG	PUSH_DATA: Protocol version = 02, Token = 024e, Identifier = 00, JSON = {'rxpk': [{'tmst': 984642251, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAfAEBKxY/VJoH'}]}
0:01:46.927757	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 017c, FOpts:), FPort: 01, FRMPayload: 002b, MIC: 3f549a07)
0:01:46.928757	LOG	Server <---------- DUT
0:01:46.931755	LOG	Calculate RSSI average process completed
0:01:46.939749	LOG	Send LinkADRReq process starts
0:01:46.943749	LOG	PULL_DATA: 02 e13b 02 aa555a0000240409
0:01:46.945746	LOG	PULL_ACK: 02 e13b 04
0:01:51.924911	LOG	PUSH_ACK: 02 0250 01
0:01:51.926910	LOG	PUSH_DATA: Protocol version = 02, Token = 0250, Identifier = 00, JSON = {'rxpk': [{'tmst': 989644819, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAfQEBi6pGjatw'}]}
0:01:51.927910	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 017d, FOpts:), FPort: 01, FRMPayload: 002b, MIC: 468dab70)
0:01:51.954894	LOG	Server <---------- DUT
0:01:51.956893	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0154, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: 07874dc9)
0:01:51.959891	LOG	PULL_RESP: Protocol version = 02, Token = 260c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 991644819, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAVAEAVGVUk60Hh03J'}}
0:01:51.960891	LOG	Server ----------> DUT
0:01:51.966888	LOG	TX_ACK: 02 260c 05 aa555a0000240409
0:01:56.930063	LOG	PUSH_ACK: 02 0251 01
0:01:56.935063	LOG	PUSH_DATA: Protocol version = 02, Token = 0251, Identifier = 00, JSON = {'rxpk': [{'tmst': 994652526, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCfgEDBwGAJGRLLvw='}]}
0:01:56.939061	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 017e, FOpts: 0307), FPort: 01, FRMPayload: 002b, MIC: 644b2efc)
0:01:56.943057	LOG	Server <---------- DUT
0:01:56.947054	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:56.952051	LOG	Command Answer: 0307
0:01:56.963044	LOG	MAC command communication completed
0:01:56.967040	LOG	End Test Step: Test TXPower
0:01:56.970058	LOG	Partial Verdict: PASS
0:01:56.974056	LOG	==========
0:01:56.979053	LOG	==========
0:01:56.981052	LOG	Start Test Step: Check unsupported data rates
0:01:56.991027	LOG	Send LinkADRReq process starts
0:01:57.004038	LOG	PULL_DATA: 02 8760 02 aa555a0000240409
0:01:57.006019	LOG	PULL_ACK: 02 8760 04
0:02:06.954758	LOG	PUSH_ACK: 02 0252 01
0:02:06.958756	LOG	PUSH_DATA: Protocol version = 02, Token = 0252, Identifier = 00, JSON = {'rxpk': [{'tmst': 1004652558, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAfwEBJUwn1ZCK'}]}
0:02:06.960757	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 017f, FOpts:), FPort: 01, FRMPayload: 002b, MIC: 27d5908a)
0:02:06.961785	LOG	Server <---------- DUT
0:02:06.963756	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0155, FOpts:), FPort: 00, FRMPayload: 0380070001), MIC: cdb85613)

0:02:06.966757	LOG	PULL_RESP: Protocol version = 02, Token = 8d44, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1006652558, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAVQEAyBXg5f3NuFYT'}}
0:02:06.968754	LOG	Server ----------> DUT
0:02:06.971779	LOG	TX_ACK: 02 8d44 05 aa555a0000240409
0:02:07.173750	LOG	PULL_DATA: 02 748a 02 aa555a0000240409
0:02:07.177729	LOG	PULL_ACK: 02 748a 04
0:02:11.938285	LOG	PUSH_ACK: 02 0253 01
0:02:11.940284	LOG	PUSH_DATA: Protocol version = 02, Token = 0253, Identifier = 00, JSON = {'rxpk': [{'tmst': 1009660254, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCgAEDBQE5G8vNB6A='}]}
0:02:11.941283	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0180, FOpts: 0305), FPort: 01, FRMPayload: 002b, MIC: cbcd07a0)
0:02:11.943312	LOG	Server <---------- DUT
0:02:11.945281	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:11.946280	LOG	Command Answer: 0305
0:02:11.954279	LOG	MAC command communication completed
0:02:11.960271	LOG	Invalid DR tested. Answer: 05
0:02:11.963270	LOG	Send LinkADRReq process starts
0:02:17.253756	LOG	PULL_DATA: 02 76db 02 aa555a0000240409
0:02:17.255754	LOG	PULL_ACK: 02 76db 04
0:02:21.976067	LOG	PUSH_ACK: 02 0255 01
0:02:21.978066	LOG	PUSH_DATA: Protocol version = 02, Token = 0255, Identifier = 00, JSON = {'rxpk': [{'tmst': 1019660286, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAgQEBJ2L5pNgK'}]}
0:02:21.979065	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0181, FOpts:), FPort: 01, FRMPayload: 002b, MIC: f9a4d80a)
0:02:21.981064	LOG	Server <---------- DUT
0:02:21.982063	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0156, FOpts:), FPort: 00, FRMPayload: 0360070001), MIC: c1162915)
0:02:21.985062	LOG	PULL_RESP: Protocol version = 02, Token = 5d49, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1021660286, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAVgEAcHzo/93BFikV'}}
0:02:21.986061	LOG	Server ----------> DUT
0:02:21.989060	LOG	TX_ACK: 02 5d49 05 aa555a0000240409
0:02:26.946370	LOG	PUSH_ACK: 02 0256 01
0:02:26.947369	LOG	PUSH_DATA: Protocol version = 02, Token = 0256, Identifier = 00, JSON = {'rxpk': [{'tmst': 1024667983, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCggEDBQGtQoAG1FI='}]}
0:02:26.949372	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0182, FOpts: 0305), FPort: 01, FRMPayload: 002b, MIC: 8006d452)
0:02:26.950388	LOG	Server <---------- DUT
0:02:26.952369	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:26.954367	LOG	Command Answer: 0305
0:02:26.958380	LOG	MAC command communication completed
0:02:26.961361	LOG	Optional SF7BW250 DR tested. Answer: 05
0:02:26.964379	LOG	Send LinkADRReq process starts
0:02:27.444239	LOG	PULL_DATA: 02 74a1 02 aa555a0000240409
0:02:27.446239	LOG	PULL_ACK: 02 74a1 04

0:02:36.968817	LOG	PUSH_ACK: 02 0257 01
0:02:36.969816	LOG	PUSH_DATA: Protocol version = 02, Token = 0257, Identifier = 00, JSON = {'rxpk': [{'tmst': 1034668007, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAgwEBXK+bsppK'}]}
0:02:36.971817	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0183, FOpts:), FPort: 01, FRMPayload: 002b, MIC: 9bb29a4a)
0:02:36.976815	LOG	Server <---------- DUT
0:02:36.978812	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0157, FOpts:), FPort: 00, FRMPayload: 0370070001), MIC: c2d47bd8)
0:02:36.980810	LOG	PULL_RESP: Protocol version = 02, Token = 9c7c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1036668007, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAVwEAbA0O3fTC1HvY'}}
0:02:36.982809	LOG	Server ----------> DUT
0:02:36.985807	LOG	TX_ACK: 02 9c7c 05 aa555a0000240409
0:02:37.613540	LOG	PULL_DATA: 02 682a 02 aa555a0000240409
0:02:37.615539	LOG	PULL_ACK: 02 682a 04
0:02:41.953072	LOG	PUSH_ACK: 02 0258 01
0:02:41.955070	LOG	PUSH_DATA: Protocol version = 02, Token = 0258, Identifier = 00, JSON = {'rxpk': [{'tmst': 1039675698, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -46, 'size': 17, 'data': 'QCAgICCChAEDBQFw9Vj3mpQ='}]}
0:02:41.956070	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0184, FOpts: 0305), FPort: 01, FRMPayload: 002b, MIC: 58f79a94)
0:02:41.957070	LOG	Server <---------- DUT
0:02:41.959066	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:41.961066	LOG	Command Answer: 0305
0:02:41.965065	LOG	MAC command communication completed
0:02:41.968080	LOG	Optional FSK DR tested. Answer: 05
0:02:41.972078	LOG	Send LinkADRReq process starts
0:02:47.693934	LOG	PULL_DATA: 02 2883 02 aa555a0000240409
0:02:47.695934	LOG	PULL_ACK: 02 2883 04
0:02:51.985491	LOG	PUSH_ACK: 02 025a 01
0:02:51.988490	LOG	PUSH_DATA: Protocol version = 02, Token = 025a, Identifier = 00, JSON = {'rxpk': [{'tmst': 1049675730, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAhQEBh/5paCEw'}]}
0:02:51.989490	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0185, FOpts:), FPort: 01, FRMPayload: 002b, MIC: 69682130)
0:02:51.991488	LOG	Server <---------- DUT
0:02:51.993488	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0158, FOpts:), FPort: 00, FRMPayload: 03f0070001), MIC: b81f4ad8)
0:02:51.995486	LOG	PULL_RESP: Protocol version = 02, Token = b548, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1051675730, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAWAEAMcZCjfy4H0rY'}}
0:02:51.997502	LOG	Server ----------> DUT
0:02:52.000485	LOG	TX_ACK: 02 b548 05 aa555a0000240409
0:02:56.960652	LOG	PUSH_ACK: 02 025b 01
0:02:56.963650	LOG	PUSH_DATA: Protocol version = 02, Token = 025b, Identifier = 00, JSON = {'rxpk': [{'tmst': 1054683436, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 17, 'data': 'QCAgICCChgEDBwETw+3f/fQ='}]}

0:02:56.964649	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0186, FOpts: 0307), FPort: 01, FRMPayload: 002b, MIC: eddffdf4)
0:02:56.966648	LOG	Server <---------- DUT
0:02:56.968648	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:56.969647	LOG	Command Answer: 0307
0:02:56.979641	LOG	MAC command communication completed
0:02:56.982639	LOG	Check previous uplink data rate process starts
0:02:56.987637	LOG	Uplink received with expected Data Rate
0:02:56.990635	LOG	Send LinkADRReq process starts
0:02:57.874132	LOG	PULL_DATA: 02 8f1d 02 aa555a0000240409
0:02:57.876132	LOG	PULL_ACK: 02 8f1d 04
0:03:06.984945	LOG	PUSH_ACK: 02 025c 01
0:03:06.987943	LOG	PUSH_DATA: Protocol version = 02, Token = 025c, Identifier = 00, JSON = {'rxpk': [{'tmst': 1064683452, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAhwEBnXqex6iS'}]}
0:03:06.991941	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0187, FOpts:), FPort: 01, FRMPayload: 002b, MIC: 9ec7a892)
0:03:06.993940	LOG	Server <---------- DUT
0:03:06.995939	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0159, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: 00c3a2b3)
0:03:06.998937	LOG	PULL_RESP: Protocol version = 02, Token = 8b44, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1066683452, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAWQEAZNfiPpUAw6Kz'}}
0:03:07.000936	LOG	Server ----------> DUT
0:03:07.005933	LOG	TX_ACK: 02 8b44 05 aa555a0000240409
0:03:08.063348	LOG	PULL_DATA: 02 e43a 02 aa555a0000240409
0:03:08.065330	LOG	PULL_ACK: 02 e43a 04
0:03:11.969108	LOG	PUSH_ACK: 02 025d 01
0:03:11.971106	LOG	PUSH_DATA: Protocol version = 02, Token = 025d, Identifier = 00, JSON = {'rxpk': [{'tmst': 1069691158, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -43, 'size': 17, 'data': 'QCAgICCCiAEDBwEAMiqJmv0='}]}
0:03:11.973105	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0188, FOpts: 0307), FPort: 01, FRMPayload: 002b, MIC: 2a899afd)
0:03:11.974105	LOG	Server <---------- DUT
0:03:11.975106	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:03:11.976105	LOG	Command Answer: 0307
0:03:11.985098	LOG	MAC command communication completed
0:03:11.987099	LOG	End Test Step: Check unsupported data rates
0:03:11.991095	LOG	Partial Verdict: PASS
0:03:11.994094	LOG	==========
0:03:12.000091	LOG	==========
0:03:12.002089	LOG	Start Test Step: Test Channel mask functionality and disable all channels
0:03:12.011084	LOG	Send MAC command block process starts
0:03:18.143617	LOG	PULL_DATA: 02 39cc 02 aa555a0000240409
0:03:18.145617	LOG	PULL_ACK: 02 39cc 04
0:03:22.007418	LOG	PUSH_ACK: 02 025f 01
0:03:22.011416	LOG	PUSH_DATA: Protocol version = 02, Token = 025f, Identifier = 00, JSON = {'rxpk': [{'tmst': 1079691166, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAiQEBiaKb9S6z'}]}

0:03:22.015414	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0189, FOpts:), FPort: 01, FRMPayload: 002b, MIC: 9bf52eb3)
0:03:22.019412	LOG	Server <---------- DUT
0:03:22.024408	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 015a, FOpts:), FPort: 00, FRMPayload: 0703886684500350070001), MIC: 3c07ae9e)
0:03:22.030404	LOG	PULL_RESP: Protocol version = 02, Token = 1bd4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1081691166, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 24, 'data': 'YCAgICAAWgEAEjMQYPW55nK1OQE8B66e'}}
0:03:22.033403	LOG	Server ----------> DUT
0:03:22.039399	LOG	TX_ACK: 02 1bd4 05 aa555a0000240409
0:03:26.986661	LOG	PUSH_ACK: 02 0260 01
0:03:26.989659	LOG	PUSH_DATA: Protocol version = 02, Token = 0260, Identifier = 00, JSON = {'rxpk': [{'tmst': 1084698888, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -46, 'size': 19, 'data': 'QCAgICCEigEHAwMHAR2+c1dhGQ=='}]}
0:03:26.990659	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 84, FCnt: 018a, FOpts: 07030307), FPort: 01, FRMPayload: 002b, MIC: 73576119)
0:03:26.992658	LOG	Server <---------- DUT
0:03:26.994657	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:03:26.996656	LOG	Command Answer: 07030307
0:03:27.062617	LOG	MAC command communication completed
0:03:27.065617	LOG	Check previous uplink data rate process starts
0:03:27.069614	LOG	Uplink received with expected Data Rate
0:03:27.072613	LOG	Receive frame on specific channels process starts
0:03:27.077610	LOG	Attempt 1/20
0:03:28.343888	LOG	PULL_DATA: 02 ca94 02 aa555a0000240409
0:03:28.345888	LOG	PULL_ACK: 02 ca94 04
0:03:37.011954	LOG	PUSH_ACK: 02 0261 01
0:03:37.015953	LOG	PUSH_DATA: Protocol version = 02, Token = 0261, Identifier = 00, JSON = {'rxpk': [{'tmst': 1094698920, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAiwEBYFVnzcH8'}]}
0:03:37.016951	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 018b, FOpts:), FPort: 01, FRMPayload: 002b, MIC: 67cdc1fc)
0:03:37.018951	LOG	Server <---------- DUT
0:03:37.019951	LOG	Attempt 2/20
0:03:38.423151	LOG	PULL_DATA: 02 5ce8 02 aa555a0000240409
0:03:38.425149	LOG	PULL_ACK: 02 5ce8 04
0:03:42.004113	LOG	PUSH_ACK: 02 0262 01
0:03:42.006128	LOG	PUSH_DATA: Protocol version = 02, Token = 0262, Identifier = 00, JSON = {'rxpk': [{'tmst': 1099701480, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -43, 'size': 15, 'data': 'QCAgICCAjAEBEXnBwO30'}]}
0:03:42.008109	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 018c, FOpts:), FPort: 01, FRMPayload: 002b, MIC: c1c0edf4)
0:03:42.009128	LOG	Server <---------- DUT
0:03:42.011108	LOG	Attempt 3/20
0:03:46.996287	LOG	PUSH_ACK: 02 0263 01
0:03:46.998268	LOG	PUSH_DATA: Protocol version = 02, Token = 0263, Identifier = 00, JSON = {'rxpk': [{'tmst': 1104704080, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAjQEBw0C83EeW'}]}

0:03:46.999269	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 018d, FOpts:), FPort: 01, FRMPayload: 002b, MIC: bcdc4796)
0:03:47.000267	LOG	Server <---------- DUT
0:03:47.002266	LOG	Attempt 4/20
0:03:48.513407	LOG	PULL_DATA: 02 795e 02 aa555a0000240409
0:03:48.515405	LOG	PULL_ACK: 02 795e 04
0:03:51.995424	LOG	PUSH_ACK: 02 0265 01
0:03:51.998423	LOG	PUSH_DATA: Protocol version = 02, Token = 0265, Identifier = 00, JSON = {'rxpk': [{'tmst': 1109706648, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -43, 'size': 15, 'data': 'QCAgICCAjgEBMMrTS8wG'}]}
0:03:52.000420	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 018e, FOpts:), FPort: 01, FRMPayload: 002b, MIC: d34bcc06)
0:03:52.001420	LOG	Server <---------- DUT
0:03:52.003418	LOG	Attempt 5/20
0:03:56.986583	LOG	PUSH_ACK: 02 0266 01
0:03:56.988582	LOG	PUSH_DATA: Protocol version = 02, Token = 0266, Identifier = 00, JSON = {'rxpk': [{'tmst': 1114709208, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAjwEBUfawEoSg'}]}
0:03:56.989580	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 018f, FOpts:), FPort: 01, FRMPayload: 002b, MIC: b01284a0)
0:03:56.990581	LOG	Server <---------- DUT
0:03:56.991581	LOG	Attempt 6/20
0:03:58.593667	LOG	PULL_DATA: 02 918a 02 aa555a0000240409
0:03:58.595666	LOG	PULL_ACK: 02 918a 04
0:04:02.027713	LOG	PUSH_ACK: 02 0267 01
0:04:02.029712	LOG	PUSH_DATA: Protocol version = 02, Token = 0267, Identifier = 00, JSON = {'rxpk': [{'tmst': 1119711768, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAkAEBRlg4w09B'}]}
0:04:02.030710	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0190, FOpts:), FPort: 01, FRMPayload: 002b, MIC: 38c34f41)
0:04:02.034710	LOG	Server <---------- DUT
0:04:02.037706	LOG	Attempt 7/20
0:04:07.017757	LOG	PUSH_ACK: 02 0268 01
0:04:07.018754	LOG	PUSH_DATA: Protocol version = 02, Token = 0268, Identifier = 00, JSON = {'rxpk': [{'tmst': 1124714352, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAkQEBvHL/mv2X'}]}
0:04:07.022752	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0191, FOpts:), FPort: 01, FRMPayload: 002b, MIC: ff9afd97)
0:04:07.023754	LOG	Server <---------- DUT
0:04:07.025751	LOG	Attempt 8/20
0:04:08.683267	LOG	PULL_DATA: 02 d6de 02 aa555a0000240409
0:04:08.685266	LOG	PULL_ACK: 02 d6de 04
0:04:12.007385	LOG	PUSH_ACK: 02 0269 01
0:04:12.009383	LOG	PUSH_DATA: Protocol version = 02, Token = 0269, Identifier = 00, JSON = {'rxpk': [{'tmst': 1129716904, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAkgEBtJKKnIcd'}]}
0:04:12.010383	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0192, FOpts:), FPort: 01, FRMPayload: 002b, MIC: 8a9c871d)
0:04:12.011382	LOG	Server <---------- DUT
0:04:12.013382	LOG	Attempt 9/20
0:04:16.996807	LOG	PUSH_ACK: 02 026a 01

0:04:16.998805	LOG	PUSH_DATA: Protocol version = 02, Token = 026a, Identifier = 00, JSON = {'rxpk': [{'tmst': 1134719472, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAkwEBfdd3IaR2'}]}
0:04:16.999804	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0193, FOpts:), FPort: 01, FRMPayload: 002b, MIC: 7721a476)
0:04:17.000804	LOG	Server <---------- DUT
0:04:17.002803	LOG	Attempt 10/20
0:04:18.763250	LOG	PULL_DATA: 02 57b7 02 aa555a0000240409
0:04:18.765250	LOG	PULL_ACK: 02 57b7 04
0:04:21.996412	LOG	PUSH_ACK: 02 026c 01
0:04:21.998411	LOG	PUSH_DATA: Protocol version = 02, Token = 026c, Identifier = 00, JSON = {'rxpk': [{'tmst': 1139722032, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAlAEBeXMdHNgz'}]}
0:04:21.999409	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0194, FOpts:), FPort: 01, FRMPayload: 002b, MIC: 1d1cd833)
0:04:22.000410	LOG	Server <---------- DUT
0:04:22.001410	LOG	Attempt 11/20
0:04:27.038540	LOG	PUSH_ACK: 02 026d 01
0:04:27.040539	LOG	PUSH_DATA: Protocol version = 02, Token = 026d, Identifier = 00, JSON = {'rxpk': [{'tmst': 1144724600, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -47, 'size': 15, 'data': 'QCAgICCAlQEBTWHeSKYW'}]}
0:04:27.042538	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0195, FOpts:), FPort: 01, FRMPayload: 002b, MIC: de48a616)
0:04:27.044536	LOG	Server <---------- DUT
0:04:27.046535	LOG	Attempt 12/20
0:04:28.853612	LOG	PULL_DATA: 02 19df 02 aa555a0000240409
0:04:28.854610	LOG	PULL_ACK: 02 19df 04
0:04:32.028646	LOG	PUSH_ACK: 02 026e 01
0:04:32.031644	LOG	PUSH_DATA: Protocol version = 02, Token = 026e, Identifier = 00, JSON = {'rxpk': [{'tmst': 1149727152, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAlgEBM7PK/zsj'}]}
0:04:32.033643	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0196, FOpts:), FPort: 01, FRMPayload: 002b, MIC: caff3b23)
0:04:32.034642	LOG	Server <---------- DUT
0:04:32.036641	LOG	Attempt 13/20
0:04:37.019804	LOG	PUSH_ACK: 02 026f 01
0:04:37.021804	LOG	PUSH_DATA: Protocol version = 02, Token = 026f, Identifier = 00, JSON = {'rxpk': [{'tmst': 1154729696, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAlwEBymJszN5x'}]}
0:04:37.023802	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0197, FOpts:), FPort: 01, FRMPayload: 002b, MIC: 6cccde71)
0:04:37.027800	LOG	Server <---------- DUT
0:04:37.030799	LOG	Attempt 14/20
0:04:38.933594	LOG	PULL_DATA: 02 188d 02 aa555a0000240409
0:04:38.937592	LOG	PULL_ACK: 02 188d 04
0:04:42.009842	LOG	PUSH_ACK: 02 0270 01
0:04:42.011842	LOG	PUSH_DATA: Protocol version = 02, Token = 0270, Identifier = 00, JSON = {'rxpk': [{'tmst': 1159732280, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAmAEBOmnOBape'}]}

0:04:42.013840	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0198, FOpts:), FPort: 01, FRMPayload: 002b, MIC: ce05aa5e)
0:04:42.015839	LOG	Server <---------- DUT
0:04:42.017838	LOG	Attempt 15/20
0:04:47.052972	LOG	PUSH_ACK: 02 0271 01
0:04:47.053971	LOG	PUSH_DATA: Protocol version = 02, Token = 0271, Identifier = 00, JSON = {'rxpk': [{'tmst': 1164734840, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAmQEBa7Gtpu6H'}]}
0:04:47.055970	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0199, FOpts:), FPort: 01, FRMPayload: 002b, MIC: ada6ee87)
0:04:47.056969	LOG	Server <---------- DUT
0:04:47.057968	LOG	Attempt 16/20
0:04:49.013510	LOG	PULL_DATA: 02 698e 02 aa555a0000240409
0:04:49.015509	LOG	PULL_ACK: 02 698e 04
0:04:52.006806	LOG	PUSH_ACK: 02 0273 01
0:04:52.008806	LOG	PUSH_DATA: Protocol version = 02, Token = 0273, Identifier = 00, JSON = {'rxpk': [{'tmst': 1169737408, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAmgEBRy+XSuQn'}]}
0:04:52.009804	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 019a, FOpts:), FPort: 01, FRMPayload: 002b, MIC: 974ae427)
0:04:52.011803	LOG	Server <---------- DUT
0:04:52.013802	LOG	Attempt 17/20
0:04:57.048885	LOG	PUSH_ACK: 02 0274 01
0:04:57.050883	LOG	PUSH_DATA: Protocol version = 02, Token = 0274, Identifier = 00, JSON = {'rxpk': [{'tmst': 1174739976, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAmwEBoRs3S/gJ'}]}
0:04:57.052883	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 019b, FOpts:), FPort: 01, FRMPayload: 002b, MIC: 374bf809)
0:04:57.053882	LOG	Server <---------- DUT
0:04:57.055881	LOG	Attempt 18/20
0:04:59.102566	LOG	PULL_DATA: 02 69dd 02 aa555a0000240409
0:04:59.105564	LOG	PULL_ACK: 02 69dd 04
0:05:02.039894	LOG	PUSH_ACK: 02 0275 01
0:05:02.041893	LOG	PUSH_DATA: Protocol version = 02, Token = 0275, Identifier = 00, JSON = {'rxpk': [{'tmst': 1179742544, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAnAEBJiUR0QgQ'}]}
0:05:02.043892	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 019c, FOpts:), FPort: 01, FRMPayload: 002b, MIC: 11d10810)
0:05:02.044891	LOG	Server <---------- DUT
0:05:02.046890	LOG	Attempt 19/20
0:05:07.031058	LOG	PUSH_ACK: 02 0276 01
0:05:07.036055	LOG	PUSH_DATA: Protocol version = 02, Token = 0276, Identifier = 00, JSON = {'rxpk': [{'tmst': 1184745112, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAnQEB91k28TGA'}]}
0:05:07.038054	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 019d, FOpts:), FPort: 01, FRMPayload: 002b, MIC: 36f13180)
0:05:07.039050	LOG	Server <---------- DUT
0:05:07.041048	LOG	Attempt 20/20
0:05:09.192897	LOG	PULL_DATA: 02 2fd1 02 aa555a0000240409
0:05:09.197894	LOG	PULL_ACK: 02 2fd1 04
0:05:12.024285	LOG	PUSH_ACK: 02 0277 01

0:05:12.027283	LOG	PUSH_DATA: Protocol version = 02, Token = 0277, Identifier = 00, JSON = {'rxpk': [{'tmst': 1189747672, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAngEBK9aD6la1'}]}
0:05:12.029282	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 019e, FOpts:), FPort: 01, FRMPayload: 002b, MIC: 83ea56b5)
0:05:12.031282	LOG	Server <---------- DUT
0:05:12.043274	LOG	Send LinkADRReq process starts
0:05:17.066414	LOG	PUSH_ACK: 02 0278 01
0:05:17.068413	LOG	PUSH_DATA: Protocol version = 02, Token = 0278, Identifier = 00, JSON = {'rxpk': [{'tmst': 1194750232, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAnwEBX6aeG5r9'}]}
0:05:17.070412	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 019f, FOpts:), FPort: 01, FRMPayload: 002b, MIC: 9e1b9afd)
0:05:17.071412	LOG	Server <---------- DUT
0:05:17.072413	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 015b, FOpts:), FPort: 00, FRMPayload: 03500f0001), MIC: 09893049)
0:05:17.075411	LOG	PULL_RESP: Protocol version = 02, Token = a545, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1196750232, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAWwEAGyk/SEIJiTBJ'}}
0:05:17.076409	LOG	Server ----------> DUT
0:05:17.079408	LOG	TX_ACK: 02 a545 05 aa555a0000240409
0:05:19.382421	LOG	PULL_DATA: 02 0857 02 aa555a0000240409
0:05:19.384420	LOG	PULL_ACK: 02 0857 04
0:05:22.045906	LOG	PUSH_ACK: 02 027a 01
0:05:22.047904	LOG	PUSH_DATA: Protocol version = 02, Token = 027a, Identifier = 00, JSON = {'rxpk': [{'tmst': 1199757939, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -44, 'size': 17, 'data': 'QCAgICCCoAEDBwHenJfP4cQ='}]}
0:05:22.049903	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 01a0, FOpts: 0307), FPort: 01, FRMPayload: 002b, MIC: 97cfe1c4)
0:05:22.050902	LOG	Server <---------- DUT
0:05:22.052901	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:05:22.053901	LOG	Command Answer: 0307
0:05:22.061896	LOG	MAC command communication completed
0:05:22.065894	LOG	Receive frame on specific channels process starts
0:05:22.078887	LOG	Attempt 1/20
0:05:29.462683	LOG	PULL_DATA: 02 5497 02 aa555a0000240409
0:05:29.464682	LOG	PULL_ACK: 02 5497 04
0:05:32.071197	LOG	PUSH_ACK: 02 027b 01
0:05:32.074196	LOG	PUSH_DATA: Protocol version = 02, Token = 027b, Identifier = 00, JSON = {'rxpk': [{'tmst': 1209757955, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAoQEBWiknnA2n'}]}
0:05:32.076195	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01a1, FOpts:), FPort: 01, FRMPayload: 002b, MIC: 279c0da7)
0:05:32.077194	LOG	Server <---------- DUT
0:05:32.079193	LOG	Attempt 2/20
0:05:37.062357	LOG	PUSH_ACK: 02 027c 01
0:05:37.064356	LOG	PUSH_DATA: Protocol version = 02, Token = 027c, Identifier = 00, JSON = {'rxpk': [{'tmst': 1214760531, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAogEBv5Ph37lP'}]}

0:05:37.066354	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01a2, FOpts:), FPort: 01, FRMPayload: 002b, MIC: e1dfb94f)
0:05:37.067353	LOG	Server <---------- DUT
0:05:37.068355	LOG	Attempt 3/20
0:05:39.542946	LOG	PULL_DATA: 02 7539 02 aa555a0000240409
0:05:39.546944	LOG	PULL_ACK: 02 7539 04
0:05:42.053523	LOG	PUSH_ACK: 02 027d 01
0:05:42.057520	LOG	PUSH_DATA: Protocol version = 02, Token = 027d, Identifier = 00, JSON = {'rxpk': [{'tmst': 1219763091, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAowEBvlvsDsnk'}]}
0:05:42.061515	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01a3, FOpts:), FPort: 01, FRMPayload: 002b, MIC: ec0ec9e4)
0:05:42.066512	LOG	Server <---------- DUT
0:05:42.071510	LOG	Attempt 4/20
0:05:47.044626	LOG	PUSH_ACK: 02 027e 01
0:05:47.047625	LOG	PUSH_DATA: Protocol version = 02, Token = 027e, Identifier = 00, JSON = {'rxpk': [{'tmst': 1224765667, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCApAEBfNLnsSrR'}]}
0:05:47.049623	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01a4, FOpts:), FPort: 01, FRMPayload: 002b, MIC: e7b12ad1)
0:05:47.050622	LOG	Server <---------- DUT
0:05:47.052621	LOG	Attempt 5/20
0:05:49.623181	LOG	PULL_DATA: 02 d1ae 02 aa555a0000240409
0:05:49.625180	LOG	PULL_ACK: 02 d1ae 04
0:05:52.046801	LOG	PUSH_ACK: 02 0280 01
0:05:52.048800	LOG	PUSH_DATA: Protocol version = 02, Token = 0280, Identifier = 00, JSON = {'rxpk': [{'tmst': 1229768235, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCApQEB9huXL5am'}]}
0:05:52.050799	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01a5, FOpts:), FPort: 01, FRMPayload: 002b, MIC: 972f96a6)
0:05:52.052798	LOG	Server <---------- DUT
0:05:52.053797	LOG	Attempt 6/20
0:05:57.088931	LOG	PUSH_ACK: 02 0281 01
0:05:57.090930	LOG	PUSH_DATA: Protocol version = 02, Token = 0281, Identifier = 00, JSON = {'rxpk': [{'tmst': 1234770795, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCApgEBNzFUky3x'}]}
0:05:57.092928	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01a6, FOpts:), FPort: 01, FRMPayload: 002b, MIC: 54932df1)
0:05:57.094927	LOG	Server <---------- DUT
0:05:57.096926	LOG	Attempt 7/20
0:05:59.702443	LOG	PULL_DATA: 02 059b 02 aa555a0000240409
0:05:59.704442	LOG	PULL_ACK: 02 059b 04
0:06:02.081089	LOG	PUSH_ACK: 02 0283 01
0:06:02.083087	LOG	PUSH_DATA: Protocol version = 02, Token = 0283, Identifier = 00, JSON = {'rxpk': [{'tmst': 1239773371, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCApwEB5IyV39+E'}]}
0:06:02.085086	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01a7, FOpts:), FPort: 01, FRMPayload: 002b, MIC: 95dfdf84)
0:06:02.087085	LOG	Server <---------- DUT
0:06:02.091085	LOG	Receive frame on specific channels process tested successfully
0:06:02.095081	LOG	Send NewChannelReq process starts

0:06:07.072229	LOG	PUSH_ACK: 02 0284 01
0:06:07.074228	LOG	PUSH_DATA: Protocol version = 02, Token = 0284, Identifier = 00, JSON = {'rxpk': [{'tmst': 1244775939, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAqAEBJGlDX8qu'}]}
0:06:07.076227	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01a8, FOpts:), FPort: 01, FRMPayload: 002b, MIC: 435fcaae)
0:06:07.077227	LOG	Server <---------- DUT
0:06:07.078228	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 015c, FOpts:), FPort: 00, FRMPayload: 070300000050), MIC: 33083e13)
0:06:07.081226	LOG	PULL_RESP: Protocol version = 02, Token = 4bfd, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1246775939, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YCAgICAAXAEAE5NJ6w8tMwg+Ew=='}}
0:06:07.082224	LOG	Server ----------> DUT
0:06:07.087221	LOG	TX_ACK: 02 4bfd 05 aa555a0000240409
0:06:09.812158	LOG	PULL_DATA: 02 4361 02 aa555a0000240409
0:06:09.816137	LOG	PULL_ACK: 02 4361 04
0:06:12.059861	LOG	PUSH_ACK: 02 0285 01
0:06:12.061859	LOG	PUSH_DATA: Protocol version = 02, Token = 0285, Identifier = 00, JSON = {'rxpk': [{'tmst': 1249783637, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCqQEHAwEmmsCN85M='}]}
0:06:12.063859	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 01a9, FOpts: 0703), FPort: 01, FRMPayload: 002b, MIC: c08df393)
0:06:12.064857	LOG	Server <---------- DUT
0:06:12.065857	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:06:12.067857	LOG	Command Answer: 0703
0:06:12.073852	LOG	MAC command communication completed
0:06:12.077852	LOG	Send LinkADRReq process starts
0:06:19.892519	LOG	PULL_DATA: 02 84bc 02 aa555a0000240409
0:06:19.894518	LOG	PULL_ACK: 02 84bc 04
0:06:22.098265	LOG	PUSH_ACK: 02 0287 01
0:06:22.100262	LOG	PUSH_DATA: Protocol version = 02, Token = 0287, Identifier = 00, JSON = {'rxpk': [{'tmst': 1259783661, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAqgEB4vqbvxOP'}]}
0:06:22.102261	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01aa, FOpts:), FPort: 01, FRMPayload: 002b, MIC: 9bbf138f)
0:06:22.103261	LOG	Server <---------- DUT
0:06:22.105259	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 015d, FOpts:), FPort: 00, FRMPayload: 0350000001), MIC: 69b49686)
0:06:22.107258	LOG	PULL_RESP: Protocol version = 02, Token = fefc, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1261783661, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAXQEA2Omh1kBptJaG'}}
0:06:22.109257	LOG	Server ----------> DUT
0:06:22.113627	LOG	TX_ACK: 02 fefc 05 aa555a0000240409
0:06:27.067735	LOG	PUSH_ACK: 02 0288 01
0:06:27.070734	LOG	PUSH_DATA: Protocol version = 02, Token = 0288, Identifier = 00, JSON = {'rxpk': [{'tmst': 1264791359, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCqwEDBAG7n0K/PBw='}]}
0:06:27.071732	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 01ab, FOpts: 0304), FPort: 01, FRMPayload: 002b, MIC: 42bf3c1c)

0:06:27.073731	LOG	Server <---------- DUT
0:06:27.074730	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:06:27.076730	LOG	Command Answer: 0304
0:06:27.080727	LOG	MAC command communication completed
0:06:27.083726	LOG	LinkADRAns received: 04
0:06:27.087723	LOG	Send LinkADRReq process starts
0:06:30.092532	LOG	PULL_DATA: 02 c015 02 aa555a0000240409
0:06:30.094535	LOG	PULL_ACK: 02 c015 04
0:06:37.093547	LOG	PUSH_ACK: 02 0289 01
0:06:37.096545	LOG	PUSH_DATA: Protocol version = 02, Token = 0289, Identifier = 00, JSON = {'rxpk': [{'tmst': 1274791383, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCArAEBTreSKKYh'}]}
0:06:37.097544	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01ac, FOpts:), FPort: 01, FRMPayload: 002b, MIC: 9228a621)
0:06:37.098544	LOG	Server <---------- DUT
0:06:37.100543	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 015e, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: 002a42f9)
0:06:37.103542	LOG	PULL_RESP: Protocol version = 02, Token = 1583, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1276791383, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAXgEAXI/LT/AAKkL5'}}
0:06:37.105541	LOG	Server ----------> DUT
0:06:37.109538	LOG	TX_ACK: 02 1583 05 aa555a0000240409
0:06:40.252451	LOG	PULL_DATA: 02 4796 02 aa555a0000240409
0:06:40.256449	LOG	PULL_ACK: 02 4796 04
0:06:42.075523	LOG	PUSH_ACK: 02 028a 01
0:06:42.077522	LOG	PUSH_DATA: Protocol version = 02, Token = 028a, Identifier = 00, JSON = {'rxpk': [{'tmst': 1279799091, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCrQEDBwE4+zOJ7IY='}]}
0:06:42.078522	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 01ad, FOpts: 0307), FPort: 01, FRMPayload: 002b, MIC: 3389ec86)
0:06:42.079521	LOG	Server <---------- DUT
0:06:42.081521	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:06:42.082522	LOG	Command Answer: 0307
0:06:42.090515	LOG	MAC command communication completed
0:06:42.093513	LOG	End Test Step: Test Channel mask functionality and disable all channels
0:06:42.098512	LOG	Partial Verdict: PASS
0:06:42.104508	LOG	==========
0:06:42.111503	LOG	==========
0:06:42.114501	LOG	Start Test Step: Redundancy
0:06:42.123498	LOG	Send Test Command RxAppCntReq process starts
0:06:50.332196	LOG	PULL_DATA: 02 f39e 02 aa555a0000240409
0:06:50.334195	LOG	PULL_ACK: 02 f39e 04
0:06:52.068207	LOG	PUSH_ACK: 02 028d 01
0:06:52.072205	LOG	PUSH_DATA: Protocol version = 02, Token = 028d, Identifier = 00, JSON = {'rxpk': [{'tmst': 1289799115, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -47, 'size': 15, 'data': 'QCAgICCArgEBD831J6Kq'}]}
0:06:52.076204	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01ae, FOpts:), FPort: 01, FRMPayload: 002b, MIC: f527a2aa)
0:06:52.079201	LOG	Server <---------- DUT

0:06:52.084199	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 015f, FOpts:), FPort: e0, FRMPayload: 09), MIC: 2460e4e8)
0:06:52.091195	LOG	Frame command sent to the DUT
0:06:52.094193	LOG	PULL_RESP: Protocol version = 02, Token = ca1f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1291799115, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAAXwHgyyRg5Og='}}
0:06:52.096192	LOG	Server ----------> DUT
0:06:52.100099	LOG	TX_ACK: 02 ca1f 05 aa555a0000240409
0:06:57.123362	LOG	PUSH_ACK: 02 028e 01
0:06:57.125361	LOG	PUSH_DATA: Protocol version = 02, Token = 028e, Identifier = 00, JSON = {'rxpk': [{'tmst': 1294809748, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -45, 'size': 16, 'data': 'QCAgICCArwHgfk38995Kqg=='}]}
0:06:57.127361	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01af, FOpts:), FPort: e0, FRMPayload: 092c00, MIC: f7de4aaa)
0:06:57.128362	LOG	Server <---------- DUT
0:06:57.129361	LOG	Answer in payload: 2c00
0:06:57.130361	LOG	Frame Command Payload in the Answer: 092c00
0:06:57.134357	LOG	RX Count received by DUT: 44
0:06:57.137355	LOG	Send Test Command RxAppCntReq process completed
0:06:57.141353	LOG	Send LinkADRReq process starts
0:07:00.492328	LOG	PULL_DATA: 02 4d0c 02 aa555a0000240409
0:07:00.494324	LOG	PULL_ACK: 02 4d0c 04
0:07:07.096563	LOG	PUSH_ACK: 02 028f 01
0:07:07.098562	LOG	PUSH_DATA: Protocol version = 02, Token = 028f, Identifier = 00, JSON = {'rxpk': [{'tmst': 1304806844, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAsAEBJfgKuTBK'}]}
0:07:07.100561	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01b0, FOpts:), FPort: 01, FRMPayload: 002c, MIC: 0ab9304a)
0:07:07.101561	LOG	Server <---------- DUT
0:07:07.103560	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0160, FOpts:), FPort: 00, FRMPayload: 0350070002), MIC: 5e684a30)
0:07:07.105559	LOG	PULL_RESP: Protocol version = 02, Token = 04ee, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1306806844, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAYAEA/yzWIUReaEow'}}
0:07:07.106558	LOG	Server ----------> DUT
0:07:07.111555	LOG	TX_ACK: 02 04ee 05 aa555a0000240409
0:07:10.671641	LOG	PULL_DATA: 02 7d65 02 aa555a0000240409
0:07:10.676639	LOG	PULL_ACK: 02 7d65 04
0:07:12.090834	LOG	PUSH_ACK: 02 0290 01
0:07:12.092833	LOG	PUSH_DATA: Protocol version = 02, Token = 0290, Identifier = 00, JSON = {'rxpk': [{'tmst': 1309814549, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCsQEDBwEB4jPx6YI='}]}
0:07:12.093833	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 01b1, FOpts: 0307), FPort: 01, FRMPayload: 002c, MIC: 33f1e982)
0:07:12.095831	LOG	Server <---------- DUT
0:07:12.096832	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:07:12.097831	LOG	Command Answer: 0307
0:07:12.105825	LOG	MAC command communication completed
0:07:12.109823	LOG	Check number of uplinks repetitions process starts
0:07:17.235140	LOG	PUSH_ACK: 02 0291 01

0:07:17.237139	LOG	PUSH_DATA: Protocol version = 02, Token = 0291, Identifier = 00, JSON = {'rxpk': [{'tmst': 1314939581, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCsQEDBwEB4jPx6YI='}]}
0:07:17.239138	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 01b1, FOpts: 0307), FPort: 01, FRMPayload: 002c, MIC: 33f1e982)
0:07:17.241137	LOG	Server <---------- DUT
0:07:17.243136	LOG	FRMPayload is the same between retransmissions
0:07:17.244135	LOG	Original uplink: 002c
0:07:17.246134	LOG	Actual retransmission: 002c
0:07:17.248133	LOG	FOpts is the same between retransmissions
0:07:17.249132	LOG	Original uplink: 0307
0:07:17.251131	LOG	Actual retransmission: 0307
0:07:17.253130	LOG	FPort is the same between retransmissions
0:07:17.254129	LOG	Original uplink: 01
0:07:17.257128	LOG	Actual retransmission: 01
0:07:20.762132	LOG	PULL_DATA: 02 99e6 02 aa555a0000240409
0:07:20.764131	LOG	PULL_ACK: 02 99e6 04
0:07:27.122511	LOG	PUSH_ACK: 02 0294 01
0:07:27.124511	LOG	PUSH_DATA: Protocol version = 02, Token = 0294, Identifier = 00, JSON = {'rxpk': [{'tmst': 1324817157, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAsgEBkKtF1OaF'}]}
0:07:27.125510	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01b2, FOpts:), FPort: 01, FRMPayload: 002c, MIC: 45d4e685)
0:07:27.127509	LOG	Server <---------- DUT
0:07:27.131506	LOG	Expected repetitions of uplink message have been received
0:07:27.135504	LOG	Check number of uplinks repetitions process starts
0:07:30.842193	LOG	PULL_DATA: 02 f302 02 aa555a0000240409
0:07:30.844192	LOG	PULL_ACK: 02 f302 04
0:07:31.750676	LOG	PUSH_ACK: 02 0295 01
0:07:31.752675	LOG	PUSH_DATA: Protocol version = 02, Token = 0295, Identifier = 00, JSON = {'rxpk': [{'tmst': 1329441813, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAsgEBkKtF1OaF'}]}
0:07:31.753674	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01b2, FOpts:), FPort: 01, FRMPayload: 002c, MIC: 45d4e685)
0:07:31.754673	LOG	Server <---------- DUT
0:07:31.755673	LOG	FRMPayload is the same between retransmissions
0:07:31.756673	LOG	Original uplink: 002c
0:07:31.758671	LOG	Actual retransmission: 002c
0:07:31.759671	LOG	FOpts is the same between retransmissions
0:07:31.760670	LOG	Original uplink:
0:07:31.761669	LOG	Actual retransmission:
0:07:31.763668	LOG	FPort is the same between retransmissions
0:07:31.764667	LOG	Original uplink: 01
0:07:31.765667	LOG	Actual retransmission: 01
0:07:37.098518	LOG	PUSH_ACK: 02 0296 01
0:07:37.100516	LOG	PUSH_DATA: Protocol version = 02, Token = 0296, Identifier = 00, JSON = {'rxpk': [{'tmst': 1334822301, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAswEB1KAZr06u'}]}
0:07:37.102514	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01b3, FOpts:), FPort: 01, FRMPayload: 002c, MIC: 19af4eae)
0:07:37.105513	LOG	Server <---------- DUT
0:07:37.114509	LOG	Expected repetitions of uplink message have been received

0:07:37.127500	LOG	Send Test Command RxAppCntReq process starts
0:07:37.130498	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0161, FOpts:), FPort: e0, FRMPayload: 09), MIC: 8d175de1)
0:07:37.132497	LOG	Frame command sent to the DUT
0:07:37.133497	LOG	PULL_RESP: Protocol version = 02, Token = 6a6b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1335822301, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAAYQHgdo0XXeE='}}
0:07:37.134496	LOG	Server ----------> DUT
0:07:37.138498	LOG	TX_ACK: 02 6a6b 05 aa555a0000240409
0:07:40.911563	LOG	PULL_DATA: 02 c422 02 aa555a0000240409
0:07:40.916560	LOG	PULL_ACK: 02 c422 04
0:07:42.139865	LOG	PUSH_ACK: 02 0297 01
0:07:42.141863	LOG	PUSH_DATA: Protocol version = 02, Token = 0297, Identifier = 00, JSON = {'rxpk': [{'tmst': 1339832935, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -44, 'size': 16, 'data': 'QCAgICCAtAHgskaFQyO7tw=='}]}
0:07:42.143861	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01b4, FOpts:), FPort: e0, FRMPayload: 092d00, MIC: 4323bbb7)
0:07:42.144861	LOG	Server <---------- DUT
0:07:42.146860	LOG	Answer in payload: 2d00
0:07:42.147860	LOG	Frame Command Payload in the Answer: 092d00
0:07:42.151858	LOG	RX Count received by DUT: 45
0:07:42.153857	LOG	Send Test Command RxAppCntReq process completed
0:07:42.158855	LOG	Check number of uplinks repetitions process starts
0:07:47.233545	LOG	PUSH_ACK: 02 0298 01
0:07:47.235544	LOG	PUSH_DATA: Protocol version = 02, Token = 0298, Identifier = 00, JSON = {'rxpk': [{'tmst': 1344957967, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 16, 'data': 'QCAgICCAtAHgskaFQyO7tw=='}]}
0:07:47.237543	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01b4, FOpts:), FPort: e0, FRMPayload: 092d00, MIC: 4323bbb7)
0:07:47.239542	LOG	Server <---------- DUT
0:07:47.240541	LOG	FRMPayload is the same between retransmissions
0:07:47.241543	LOG	Original uplink: 092d00
0:07:47.242543	LOG	Actual retransmission: 092d00
0:07:47.243542	LOG	FOpts is the same between retransmissions
0:07:47.244541	LOG	Original uplink:
0:07:47.246538	LOG	Actual retransmission:
0:07:47.247538	LOG	FPort is the same between retransmissions
0:07:47.248539	LOG	Original uplink: e0
0:07:47.250537	LOG	Actual retransmission: e0
0:07:50.991522	LOG	PULL_DATA: 02 d3cc 02 aa555a0000240409
0:07:50.993521	LOG	PULL_ACK: 02 d3cc 04
0:07:57.122033	LOG	PUSH_ACK: 02 029a 01
0:07:57.124031	LOG	PUSH_DATA: Protocol version = 02, Token = 029a, Identifier = 00, JSON = {'rxpk': [{'tmst': 1354832599, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAtQEBNzl7mUTp'}]}
0:07:57.125031	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01b5, FOpts:), FPort: 01, FRMPayload: 002d, MIC: 7b9944e9)
0:07:57.126031	LOG	Server <---------- DUT
0:07:57.129030	LOG	Expected repetitions of uplink message have been received
0:07:57.140022	LOG	Send Test Command RxAppCntReq process starts
0:07:57.143020	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0162, FOpts:), FPort: e0, FRMPayload: 09), MIC: 63819924)

0:07:57.145019	LOG	Frame command sent to the DUT
0:07:57.146018	LOG	PULL_RESP: Protocol version = 02, Token = 1b2b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1356832599, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAAYgHgvWOBmSQ='}}
0:07:57.148017	LOG	Server ----------> DUT
0:07:57.153014	LOG	TX_ACK: 02 1b2b 05 aa555a0000240409
0:08:01.141637	LOG	PULL_DATA: 02 7a28 02 aa555a0000240409
0:08:01.143636	LOG	PULL_ACK: 02 7a28 04
0:08:02.158058	LOG	PUSH_ACK: 02 029b 01
0:08:02.161056	LOG	PUSH_DATA: Protocol version = 02, Token = 029b, Identifier = 00, JSON = {'rxpk': [{'tmst': 1359843240, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 16, 'data': 'QCAgICCAtgHgkeGUrdw9xA=='}]}
0:08:02.163056	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01b6, FOpts:), FPort: e0, FRMPayload: 092e00, MIC: addc3dc4)
0:08:02.164055	LOG	Server <---------- DUT
0:08:02.166054	LOG	Answer in payload: 2e00
0:08:02.167053	LOG	Frame Command Payload in the Answer: 092e00
0:08:02.174049	LOG	RX Count received by DUT: 46
0:08:02.178047	LOG	Send Test Command RxAppCntReq process completed
0:08:02.183044	LOG	Check number of uplinks repetitions process starts
0:08:07.253307	LOG	PUSH_ACK: 02 029c 01
0:08:07.255305	LOG	PUSH_DATA: Protocol version = 02, Token = 029c, Identifier = 00, JSON = {'rxpk': [{'tmst': 1364968280, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -45, 'size': 16, 'data': 'QCAgICCAtgHgkeGUrdw9xA=='}]}
0:08:07.257304	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01b6, FOpts:), FPort: e0, FRMPayload: 092e00, MIC: addc3dc4)
0:08:07.258304	LOG	Server <---------- DUT
0:08:07.260303	LOG	FRMPayload is the same between retransmissions
0:08:07.262301	LOG	Original uplink: 092e00
0:08:07.263301	LOG	Actual retransmission: 092e00
0:08:07.265300	LOG	FOpts is the same between retransmissions
0:08:07.267299	LOG	Original uplink:
0:08:07.268298	LOG	Actual retransmission:
0:08:07.270297	LOG	FPort is the same between retransmissions
0:08:07.272296	LOG	Original uplink: e0
0:08:07.273295	LOG	Actual retransmission: e0
0:08:11.221499	LOG	PULL_DATA: 02 63ef 02 aa555a0000240409
0:08:11.226497	LOG	PULL_ACK: 02 63ef 04
0:08:17.124140	LOG	PUSH_ACK: 02 029d 01
0:08:17.126137	LOG	PUSH_DATA: Protocol version = 02, Token = 029d, Identifier = 00, JSON = {'rxpk': [{'tmst': 1374842912, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAtwEBxAKgOocX'}]}
0:08:17.127139	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01b7, FOpts:), FPort: 01, FRMPayload: 002e, MIC: a03a8717)
0:08:17.128137	LOG	Server <---------- DUT
0:08:17.131137	LOG	Expected repetitions of uplink message have been received
0:08:17.137132	LOG	Send LinkADRReq process starts
0:08:21.301561	LOG	PULL_DATA: 02 6134 02 aa555a0000240409
0:08:21.303560	LOG	PULL_ACK: 02 6134 04
0:08:21.767296	LOG	PUSH_ACK: 02 029f 01
0:08:21.770294	LOG	PUSH_DATA: Protocol version = 02, Token = 029f, Identifier = 00, JSON = {'rxpk': [{'tmst': 1379467592, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAtwEBxAKgOocX'}]}
0:08:21.772294	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01b7, FOpts:), FPort: 01, FRMPayload: 002e, MIC: a03a8717)
0:08:21.773293	LOG	Server <---------- DUT
0:08:21.775292	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0163, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: c74b17b6)
0:08:21.778290	LOG	PULL_RESP: Protocol version = 02, Token = 68d4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1381467592, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAYwEAmsri2OPHSxe2'}}
0:08:21.780289	LOG	Server ----------> DUT
0:08:21.784287	LOG	TX_ACK: 02 68d4 05 aa555a0000240409
0:08:27.161390	LOG	PUSH_ACK: 02 02a0 01
0:08:27.164388	LOG	PUSH_DATA: Protocol version = 02, Token = 02a0, Identifier = 00, JSON = {'rxpk': [{'tmst': 1384853225, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCuAEDBwEhPuh53Eg='}]}
0:08:27.166387	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 01b8, FOpts: 0307), FPort: 01, FRMPayload: 002e, MIC: e879dc48)
0:08:27.168386	LOG	Server <---------- DUT
0:08:27.169385	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:08:27.171384	LOG	Command Answer: 0307
0:08:27.177383	LOG	MAC command communication completed
0:08:27.180380	LOG	Check number of uplinks repetitions process starts
0:08:31.441711	LOG	PULL_DATA: 02 9d66 02 aa555a0000240409
0:08:31.443710	LOG	PULL_ACK: 02 9d66 04
0:08:37.133471	LOG	PUSH_ACK: 02 02a1 01
0:08:37.135470	LOG	PUSH_DATA: Protocol version = 02, Token = 02a1, Identifier = 00, JSON = {'rxpk': [{'tmst': 1394853249, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAuQEByTjbIjlP'}]}
0:08:37.136470	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01b9, FOpts:), FPort: 01, FRMPayload: 002e, MIC: db22394f)
0:08:37.138467	LOG	Server <---------- DUT
0:08:37.141465	LOG	Expected repetitions of uplink message have been received
0:08:37.144466	LOG	Check number of uplinks repetitions process starts
0:08:41.521109	LOG	PULL_DATA: 02 cfe0 02 aa555a0000240409
0:08:41.526105	LOG	PULL_ACK: 02 cfe0 04
0:08:42.121766	LOG	PUSH_ACK: 02 02a2 01
0:08:42.124764	LOG	PUSH_DATA: Protocol version = 02, Token = 02a2, Identifier = 00, JSON = {'rxpk': [{'tmst': 1399855817, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -47, 'size': 15, 'data': 'QCAgICCAugEBM2DS0wAp'}]}
0:08:42.125764	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01ba, FOpts:), FPort: 01, FRMPayload: 002e, MIC: d2d30029)
0:08:42.127764	LOG	Server <---------- DUT
0:08:42.129762	LOG	Expected repetitions of uplink message have been received
0:08:42.132760	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:47.161896	LOG	PUSH_ACK: 02 02a3 01
0:08:47.163897	LOG	PUSH_DATA: Protocol version = 02, Token = 02a3, Identifier = 00, JSON = {'rxpk': [{'tmst': 1404858385, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAuwEBTwc3nsca'}]}

0:08:47.165894	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01bb, FOpts:), FPort: 01, FRMPayload: 002e, MIC: 379ec71a)
0:08:47.166893	LOG	Server <---------- DUT
0:08:47.168892	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0164, FOpts:), FPort: e0, FRMPayload: 0702), MIC: c2f79e24)
0:08:47.170892	LOG	Frame command sent to the DUT
0:08:47.172892	LOG	PULL_RESP: Protocol version = 02, Token = 0a4f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1406858385, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAZAHgQynC954k'}}
0:08:47.173891	LOG	Server ----------> DUT
0:08:47.176887	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:47.179886	LOG	Send LinkADRReq process starts
0:08:51.581379	LOG	PULL_DATA: 02 c753 02 aa555a0000240409
0:08:51.583379	LOG	PULL_ACK: 02 c753 04
0:08:52.147581	LOG	PUSH_ACK: 02 02a5 01
0:08:52.150580	LOG	PUSH_DATA: Protocol version = 02, Token = 02a5, Identifier = 00, JSON = {'rxpk': [{'tmst': 1409860754, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -43, 'size': 15, 'data': 'gCAgICCAvAEBMYdjVqzW'}]}
0:08:52.151579	LOG	DATA: (MHDR: 80, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01bc, FOpts:), FPort: 01, FRMPayload: 002f, MIC: 6356acd6)
0:08:52.153578	LOG	Server <---------- DUT
0:08:52.155577	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 20, FCnt: 0165, FOpts:), FPort: 00, FRMPayload: 0350070003), MIC: f0e88fb8)
0:08:52.158575	LOG	PULL_RESP: Protocol version = 02, Token = e61c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1411860754, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAgZQEAbHIf4TXw6I+4'}}
0:08:52.159575	LOG	Server ----------> DUT
0:08:52.163573	LOG	TX_ACK: 02 e61c 05 aa555a0000240409
0:08:57.142946	LOG	PUSH_ACK: 02 02a6 01
0:08:57.144945	LOG	PUSH_DATA: Protocol version = 02, Token = 02a6, Identifier = 00, JSON = {'rxpk': [{'tmst': 1414868475, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -43, 'size': 17, 'data': 'gCAgICCCvQEDBwH7Y3SFJOg='}]}
0:08:57.146944	LOG	DATA: (MHDR: 80, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 01bd, FOpts: 0307), FPort: 01, FRMPayload: 0030, MIC: 748524e8)
0:08:57.147943	LOG	Server <---------- DUT
0:08:57.149942	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:08:57.151941	LOG	Command Answer: 0307
0:08:57.159937	LOG	MAC command communication completed
0:08:57.164933	LOG	Check number of uplinks repetitions process starts
0:09:01.611051	LOG	PULL_DATA: 02 9d87 02 aa555a0000240409
0:09:01.613051	LOG	PULL_ACK: 02 9d87 04
0:09:02.285668	LOG	PUSH_ACK: 02 02a7 01
0:09:02.287667	LOG	PUSH_DATA: Protocol version = 02, Token = 02a7, Identifier = 00, JSON = {'rxpk': [{'tmst': 1419993579, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -44, 'size': 17, 'data': 'gCAgICCCvQEDBwH7Y3SFJOg='}]}
0:09:02.289666	LOG	DATA: (MHDR: 80, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 01bd, FOpts: 0307), FPort: 01, FRMPayload: 0030, MIC: 748524e8)
0:09:02.291664	LOG	Server <---------- DUT
0:09:02.292664	LOG	FRMPayload is the same between retransmissions
0:09:02.294663	LOG	Original uplink: 0030

0:09:02.295662	LOG	Actual retransmission: 0030
0:09:02.297661	LOG	FOpts is the same between retransmissions
0:09:02.298660	LOG	Original uplink: 0307
0:09:02.300659	LOG	Actual retransmission: 0307
0:09:02.301658	LOG	FPort is the same between retransmissions
0:09:02.303658	LOG	Original uplink: 01
0:09:02.304657	LOG	Actual retransmission: 01
0:09:07.428310	LOG	PUSH_ACK: 02 02a8 01
0:09:07.430309	LOG	PUSH_DATA: Protocol version = 02, Token = 02a8, Identifier = 00, JSON = {'rxpk': [{'tmst': 1425118691, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -46, 'size': 17, 'data': 'gCAgICCCvQEDBwH7Y3SFJOg='}]}
0:09:07.432308	LOG	DATA: (MHDR: 80, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 01bd, FOpts: 0307), FPort: 01, FRMPayload: 0030, MIC: 748524e8)
0:09:07.434307	LOG	Server <---------- DUT
0:09:07.435306	LOG	FRMPayload is the same between retransmissions
0:09:07.437305	LOG	Original uplink: 0030
0:09:07.438305	LOG	Actual retransmission: 0030
0:09:07.440303	LOG	FOpts is the same between retransmissions
0:09:07.441303	LOG	Original uplink: 0307
0:09:07.443301	LOG	Actual retransmission: 0307
0:09:07.444301	LOG	FPort is the same between retransmissions
0:09:07.446300	LOG	Original uplink: 01
0:09:07.448299	LOG	Actual retransmission: 01
0:09:11.691667	LOG	PULL_DATA: 02 68e4 02 aa555a0000240409
0:09:11.695638	LOG	PULL_ACK: 02 68e4 04
0:09:17.144618	LOG	PUSH_ACK: 02 02a9 01
0:09:17.147616	LOG	PUSH_DATA: Protocol version = 02, Token = 02a9, Identifier = 00, JSON = {'rxpk': [{'tmst': 1434873699, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -47, 'size': 15, 'data': 'gCAgICCAvgEBnwJjF4rz'}]}
0:09:17.149615	LOG	DATA: (MHDR: 80, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01be, FOpts:), FPort: 01, FRMPayload: 0030, MIC: 63178af3)
0:09:17.150614	LOG	Server <---------- DUT
0:09:17.155612	LOG	Expected repetitions of uplink message have been received
0:09:17.161608	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:21.782327	LOG	PULL_DATA: 02 1d5b 02 aa555a0000240409
0:09:21.787323	LOG	PULL_ACK: 02 1d5b 04
0:09:21.793320	LOG	PUSH_ACK: 02 02ab 01
0:09:21.797317	LOG	PUSH_DATA: Protocol version = 02, Token = 02ab, Identifier = 00, JSON = {'rxpk': [{'tmst': 1439498411, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -46, 'size': 15, 'data': 'gCAgICCAvgEBnwJjF4rz'}]}
0:09:21.798317	LOG	DATA: (MHDR: 80, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01be, FOpts:), FPort: 01, FRMPayload: 0030, MIC: 63178af3)
0:09:21.799316	LOG	Server <---------- DUT
0:09:21.801315	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 20, FCnt: 0166, FOpts:), FPort: e0, FRMPayload: 0701), MIC: a297f5cc)
0:09:21.804313	LOG	Frame command sent to the DUT
0:09:21.805312	LOG	PULL_RESP: Protocol version = 02, Token = 0510, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1441498411, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAgZgHgRm2il/XM'}}
0:09:21.807311	LOG	Server ----------> DUT
0:09:21.810309	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:21.813310	LOG	Send Test Command RxAppCntReq process starts

0:09:27.182145	LOG	PUSH_ACK: 02 02ac 01
0:09:27.188142	LOG	PUSH_DATA: Protocol version = 02, Token = 02ac, Identifier = 00, JSON = {'rxpk': [{'tmst': 1444879005, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAvwEBRWIMd/DZ'}]}
0:09:27.191122	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01bf, FOpts:), FPort: 01, FRMPayload: 0031, MIC: 0c77f0d9)
0:09:27.195120	LOG	Server <---------- DUT
0:09:27.199118	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0167, FOpts:), FPort: e0, FRMPayload: 09), MIC: dd7e8f0a)
0:09:27.202116	LOG	Frame command sent to the DUT
0:09:27.204116	LOG	PULL_RESP: Protocol version = 02, Token = 1260, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1446879005, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAAZwHgM91+jwo='}}
0:09:27.205116	LOG	Server ----------> DUT
0:09:27.208113	LOG	TX_ACK: 02 1260 05 aa555a0000240409
0:09:31.821367	LOG	PULL_DATA: 02 826b 02 aa555a0000240409
0:09:31.822366	LOG	PULL_ACK: 02 826b 04
0:09:32.202197	LOG	PUSH_ACK: 02 02ad 01
0:09:32.204196	LOG	PUSH_DATA: Protocol version = 02, Token = 02ad, Identifier = 00, JSON = {'rxpk': [{'tmst': 1449889654, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -46, 'size': 16, 'data': 'QCAgICCAwAHgAwDa8sRjgw=='}]}
0:09:32.206196	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01c0, FOpts:), FPort: e0, FRMPayload: 093200, MIC: f2c46383)
0:09:32.207196	LOG	Server <---------- DUT
0:09:32.208194	LOG	Answer in payload: 3200
0:09:32.209194	LOG	Frame Command Payload in the Answer: 093200
0:09:32.213191	LOG	RX Count received by DUT: 50
0:09:32.215190	LOG	Send Test Command RxAppCntReq process completed
0:09:32.218189	LOG	Check number of uplinks repetitions process starts
0:09:37.294484	LOG	PUSH_ACK: 02 02ae 01
0:09:37.296483	LOG	PUSH_DATA: Protocol version = 02, Token = 02ae, Identifier = 00, JSON = {'rxpk': [{'tmst': 1455014718, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 16, 'data': 'QCAgICCAwAHgAwDa8sRjgw=='}]}
0:09:37.298482	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01c0, FOpts:), FPort: e0, FRMPayload: 093200, MIC: f2c46383)
0:09:37.300481	LOG	Server <---------- DUT
0:09:37.301480	LOG	FRMPayload is the same between retransmissions
0:09:37.303479	LOG	Original uplink: 093200
0:09:37.304478	LOG	Actual retransmission: 093200
0:09:37.306477	LOG	FOpts is the same between retransmissions
0:09:37.307477	LOG	Original uplink:
0:09:37.309476	LOG	Actual retransmission:
0:09:37.310475	LOG	FPort is the same between retransmissions
0:09:37.315472	LOG	Original uplink: e0
0:09:37.319470	LOG	Actual retransmission: e0
0:09:41.900813	LOG	PULL_DATA: 02 6700 02 aa555a0000240409
0:09:41.905811	LOG	PULL_ACK: 02 6700 04
0:09:42.436511	LOG	PUSH_ACK: 02 02af 01
0:09:42.438509	LOG	PUSH_DATA: Protocol version = 02, Token = 02af, Identifier = 00, JSON = {'rxpk': [{'tmst': 1460139766, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -39, 'size': 16, 'data': 'QCAgICCAwAHgAwDa8sRjgw=='}]}

0:09:42.440507	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01c0, FOpts:), FPort: e0, FRMPayload: 093200, MIC: f2c46383)
0:09:42.441506	LOG	Server <---------- DUT
0:09:42.442506	LOG	FRMPayload is the same between retransmissions
0:09:42.443505	LOG	Original uplink: 093200
0:09:42.445504	LOG	Actual retransmission: 093200
0:09:42.446504	LOG	FOpts is the same between retransmissions
0:09:42.448503	LOG	Original uplink:
0:09:42.449502	LOG	Actual retransmission:
0:09:42.450501	LOG	FPort is the same between retransmissions
0:09:42.451503	LOG	Original uplink: e0
0:09:42.452502	LOG	Actual retransmission: e0
0:09:51.981274	LOG	PULL_DATA: 02 d001 02 aa555a0000240409
0:09:51.983273	LOG	PULL_ACK: 02 d001 04
0:09:52.168169	LOG	PUSH_ACK: 02 02b1 01
0:09:52.169169	LOG	PUSH_DATA: Protocol version = 02, Token = 02b1, Identifier = 00, JSON = {'rxpk': [{'tmst': 1469891926, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAwQEBKR2h7jEE'}]}
0:09:52.171166	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01c1, FOpts:), FPort: 01, FRMPayload: 0032, MIC: a1ee3104)
0:09:52.172165	LOG	Server <---------- DUT
0:09:52.176163	LOG	Expected repetitions of uplink message have been received
0:09:52.181160	LOG	Send LinkADRReq process starts
0:09:56.795532	LOG	PUSH_ACK: 02 02b2 01
0:09:56.798531	LOG	PUSH_DATA: Protocol version = 02, Token = 02b2, Identifier = 00, JSON = {'rxpk': [{'tmst': 1474516582, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAwQEBKR2h7jEE'}]}
0:09:56.800530	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01c1, FOpts:), FPort: 01, FRMPayload: 0032, MIC: a1ee3104)
0:09:56.801529	LOG	Server <---------- DUT
0:09:56.803528	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0168, FOpts:), FPort: 00, FRMPayload: 0350070000), MIC: 38b4513f)
0:09:56.807526	LOG	PULL_RESP: Protocol version = 02, Token = b3d0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1476516582, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAaAEAdH+/IbA4tFE/'}}
0:09:56.809526	LOG	Server ----------> DUT
0:09:56.812523	LOG	TX_ACK: 02 b3d0 05 aa555a0000240409
0:10:02.061108	LOG	PULL_DATA: 02 e6c4 02 aa555a0000240409
0:10:02.062107	LOG	PULL_ACK: 02 e6c4 04
0:10:02.209026	LOG	PUSH_ACK: 02 02b3 01
0:10:02.213024	LOG	PUSH_DATA: Protocol version = 02, Token = 02b3, Identifier = 00, JSON = {'rxpk': [{'tmst': 1479902240, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCwgEDBwGhGRaSiSE='}]}
0:10:02.217022	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 01c2, FOpts: 0307), FPort: 01, FRMPayload: 0032, MIC: 16928921)
0:10:02.221020	LOG	Server <---------- DUT
0:10:02.225017	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:10:02.230014	LOG	Command Answer: 0307
0:10:02.240008	LOG	MAC command communication completed
0:10:02.243006	LOG	Check number of uplinks repetitions process starts
0:10:12.141408	LOG	PULL_DATA: 02 03aa 02 aa555a0000240409

0:10:12.149405	LOG	PULL_ACK: 02 03aa 04
0:10:12.181385	LOG	PUSH_ACK: 02 02b4 01
0:10:12.183384	LOG	PUSH_DATA: Protocol version = 02, Token = 02b4, Identifier = 00, JSON = {'rxpk': [{'tmst': 1489902248, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAwwEBgZ0oRL0d'}]}
0:10:12.184384	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01c3, FOpts:), FPort: 01, FRMPayload: 0032, MIC: 2844bd1d)
0:10:12.185383	LOG	Server <---------- DUT
0:10:12.187382	LOG	Expected repetitions of uplink message have been received
0:10:12.191381	LOG	Check number of uplinks repetitions process starts
0:10:17.169019	LOG	PUSH_ACK: 02 02b5 01
0:10:17.172017	LOG	PUSH_DATA: Protocol version = 02, Token = 02b5, Identifier = 00, JSON = {'rxpk': [{'tmst': 1494904824, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAxAEBr6w31YSP'}]}
0:10:17.174016	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01c4, FOpts:), FPort: 01, FRMPayload: 0032, MIC: 37d5848f)
0:10:17.175016	LOG	Server <---------- DUT
0:10:17.179013	LOG	Expected repetitions of uplink message have been received
0:10:17.182012	LOG	Send LinkADRReq process starts
0:10:22.219201	LOG	PUSH_ACK: 02 02b7 01
0:10:22.221202	LOG	PUSH_DATA: Protocol version = 02, Token = 02b7, Identifier = 00, JSON = {'rxpk': [{'tmst': 1499907392, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAxQEBK9IawbjF'}]}
0:10:22.222201	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01c5, FOpts:), FPort: 01, FRMPayload: 0032, MIC: 1ac1b8c5)
0:10:22.224201	LOG	Server <---------- DUT
0:10:22.226197	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0169, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: a27ef37a)
0:10:22.229198	LOG	PULL_RESP: Protocol version = 02, Token = a764, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1501907392, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAaQEA1K+pKCKifvN6'}}
0:10:22.231195	LOG	Server ----------> DUT
0:10:22.234195	LOG	TX_ACK: 02 a764 05 aa555a0000240409
0:10:27.188320	LOG	PUSH_ACK: 02 02b8 01
0:10:27.190319	LOG	PUSH_DATA: Protocol version = 02, Token = 02b8, Identifier = 00, JSON = {'rxpk': [{'tmst': 1504915097, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCxgEDBwHAFa6f+mI='}]}
0:10:27.191318	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 01c6, FOpts: 0307), FPort: 01, FRMPayload: 0032, MIC: ae9ffa62)
0:10:27.192320	LOG	Server <---------- DUT
0:10:27.194317	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:10:27.195317	LOG	Command Answer: 0307
0:10:27.200315	LOG	MAC command communication completed
0:10:27.204313	LOG	End Test Step: Redundancy
0:10:27.207311	LOG	Partial Verdict: PASS
0:10:27.211307	LOG	==========
0:10:27.217304	LOG	==========
0:10:27.220302	LOG	Start Test Step: Successful LinkADRReq commands block
0:10:27.231296	LOG	Send MAC command block process starts
0:10:32.310860	LOG	PULL_DATA: 02 7660 02 aa555a0000240409

0:10:32.312861	LOG	PULL_ACK: 02 7660 04
0:10:37.211066	LOG	PUSH_ACK: 02 02b9 01
0:10:37.213064	LOG	PUSH_DATA: Protocol version = 02, Token = 02b9, Identifier = 00, JSON = {'rxpk': [{'tmst': 1514915113, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAxwEBUCiirpI1'}]}
0:10:37.214068	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01c7, FOpts:), FPort: 01, FRMPayload: 0032, MIC: a2ae9235)
0:10:37.216064	LOG	Server <---------- DUT
0:10:37.218066	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 016a, FOpts:), FPort: 00, FRMPayload: 03010000000344010000033100006 1), MIC: bba44115)
0:10:37.221059	LOG	PULL_RESP: Protocol version = 02, Token = 3381, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1516915113, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 28, 'data': 'YCAgICAAagEATdvDnGicJzpJoaRc/+S2u6RBFQ==''}}
0:10:37.222058	LOG	Server ----------> DUT
0:10:37.225057	LOG	TX_ACK: 02 3381 05 aa555a0000240409
0:10:42.370295	LOG	PUSH_ACK: 02 02ba 01
0:10:42.374292	LOG	PUSH_DATA: Protocol version = 02, Token = 02ba, Identifier = 00, JSON = {'rxpk': [{'tmst': 1520056762, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 13.8, 'rssi': -51, 'size': 21, 'data': 'QCAgICCGyAEDBwMHAwcBKNkq+SWZ'}]}
0:10:42.376291	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 86, FCnt: 01c8, FOpts: 030703070307), FPort: 01, FRMPayload: 0032, MIC: 2af92599)
0:10:42.377295	LOG	Server <---------- DUT
0:10:42.378294	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:10:42.380289	LOG	Command Answer: 030703070307
0:10:42.463259	LOG	MAC command communication completed
0:10:42.466238	LOG	Receive frame on specific channels process starts
0:10:42.477232	LOG	Attempt 1/15
0:10:52.550497	LOG	PULL_DATA: 02 4f60 02 aa555a0000240409
0:10:52.552495	LOG	PULL_ACK: 02 4f60 04
0:11:02.329928	LOG	PUSH_ACK: 02 02bc 01
0:11:02.331926	LOG	PUSH_DATA: Protocol version = 02, Token = 02bc, Identifier = 00, JSON = {'rxpk': [{'tmst': 1540046554, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -47, 'size': 15, 'data': 'QCAgICCAyQEB2Esb24uP'}]}
0:11:02.333926	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01c9, FOpts:), FPort: 01, FRMPayload: 0032, MIC: 1bdb8b8f)
0:11:02.334925	LOG	Server <---------- DUT
0:11:02.336924	LOG	Attempt 2/15
0:11:02.630898	LOG	PULL_DATA: 02 0ded 02 aa555a0000240409
0:11:02.632896	LOG	PULL_ACK: 02 0ded 04
0:11:12.710158	LOG	PULL_DATA: 02 c6dd 02 aa555a0000240409
0:11:12.715155	LOG	PULL_ACK: 02 c6dd 04
0:11:22.330680	LOG	PUSH_ACK: 02 02be 01
0:11:22.332679	LOG	PUSH_DATA: Protocol version = 02, Token = 02be, Identifier = 00, JSON = {'rxpk': [{'tmst': 1560056890, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 12.0, 'rssi': -51, 'size': 15, 'data': 'QCAgICCAygEBSv5nC7xG'}]}
0:11:22.333679	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01ca, FOpts:), FPort: 01, FRMPayload: 0032, MIC: 670bbc46)
0:11:22.335679	LOG	Server <---------- DUT
0:11:22.337677	LOG	Attempt 3/15

0:11:22.790812	LOG	PULL_DATA: 02 cd8d 02 aa555a0000240409
0:11:22.792811	LOG	PULL_ACK: 02 cd8d 04
0:11:32.870073	LOG	PULL_DATA: 02 306a 02 aa555a0000240409
0:11:32.872071	LOG	PULL_ACK: 02 306a 04
0:11:42.370662	LOG	PUSH_ACK: 02 02bf 01
0:11:42.372663	LOG	PUSH_DATA: Protocol version = 02, Token = 02bf, Identifier = 00, JSON = {'rxpk': [{'tmst': 1580067266, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAywEBHzLXRn6t'}]}
0:11:42.374661	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01cb, FOpts:), FPort: 01, FRMPayload: 0032, MIC: d7467ead)
0:11:42.376660	LOG	Server <---------- DUT
0:11:42.377658	LOG	Attempt 4/15
0:11:42.949893	LOG	PULL_DATA: 02 1599 02 aa555a0000240409
0:11:42.954891	LOG	PULL_ACK: 02 1599 04
0:11:53.030153	LOG	PULL_DATA: 02 4e32 02 aa555a0000240409
0:11:53.032153	LOG	PULL_ACK: 02 4e32 04
0:12:02.381830	LOG	PUSH_ACK: 02 02c1 01
0:12:02.385827	LOG	PUSH_DATA: Protocol version = 02, Token = 02c1, Identifier = 00, JSON = {'rxpk': [{'tmst': 1600077626, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 13.0, 'rssi': -51, 'size': 15, 'data': 'QCAgICCAzAEBerQlAL6i'}]}
0:12:02.388826	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01cc, FOpts:), FPort: 01, FRMPayload: 0032, MIC: 2500bea2)
0:12:02.389826	LOG	Server <---------- DUT
0:12:02.391824	LOG	Attempt 5/15
0:12:03.120649	LOG	PULL_DATA: 02 f4d1 02 aa555a0000240409
0:12:03.122648	LOG	PULL_ACK: 02 f4d1 04
0:12:13.199911	LOG	PULL_DATA: 02 9d5c 02 aa555a0000240409
0:12:13.204907	LOG	PULL_ACK: 02 9d5c 04
0:12:22.383738	LOG	PUSH_ACK: 02 02c3 01
0:12:22.385737	LOG	PUSH_DATA: Protocol version = 02, Token = 02c3, Identifier = 00, JSON = {'rxpk': [{'tmst': 1620087994, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -49, 'size': 15, 'data': 'QCAgICCAzQEBONk5uXQS'}]}
0:12:22.387736	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01cd, FOpts:), FPort: 01, FRMPayload: 0032, MIC: 39b97412)
0:12:22.389734	LOG	Server <---------- DUT
0:12:22.390733	LOG	Attempt 6/15
0:12:23.280227	LOG	PULL_DATA: 02 d16e 02 aa555a0000240409
0:12:23.282226	LOG	PULL_ACK: 02 d16e 04
0:12:33.360012	LOG	PULL_DATA: 02 5db7 02 aa555a0000240409
0:12:33.362011	LOG	PULL_ACK: 02 5db7 04
0:12:42.374879	LOG	PUSH_ACK: 02 02c5 01
0:12:42.376878	LOG	PUSH_DATA: Protocol version = 02, Token = 02c5, Identifier = 00, JSON = {'rxpk': [{'tmst': 1640098370, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 13.2, 'rssi': -51, 'size': 15, 'data': 'QCAgICCAzgEBODjLDQyu'}]}
0:12:42.378877	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01ce, FOpts:), FPort: 01, FRMPayload: 0032, MIC: cb0d0cae)
0:12:42.379876	LOG	Server <---------- DUT
0:12:42.380875	LOG	Attempt 7/15
0:12:43.440273	LOG	PULL_DATA: 02 3260 02 aa555a0000240409
0:12:43.444270	LOG	PULL_ACK: 02 3260 04
0:12:53.519534	LOG	PULL_DATA: 02 6218 02 aa555a0000240409
0:12:53.521532	LOG	PULL_ACK: 02 6218 04

0:13:02.380691	LOG	PUSH_ACK: 02 02c8 01
0:13:02.385688	LOG	PUSH_DATA: Protocol version = 02, Token = 02c8, Identifier = 00, JSON = {'rxpk': [{'tmst': 1660108746, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 12.5, 'rssi': -49, 'size': 15, 'data': 'QCAgICCAzwEBGBFc5Pua'}]}
0:13:02.388686	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01cf, FOpts:), FPort: 01, FRMPayload: 0032, MIC: 5ce4fb9a)
0:13:02.389685	LOG	Server <---------- DUT
0:13:02.391685	LOG	Attempt 8/15
0:13:03.600059	LOG	PULL_DATA: 02 37d8 02 aa555a0000240409
0:13:03.602058	LOG	PULL_ACK: 02 37d8 04
0:13:13.679371	LOG	PULL_DATA: 02 7936 02 aa555a0000240409
0:13:13.688367	LOG	PULL_ACK: 02 7936 04
0:13:22.432433	LOG	PUSH_ACK: 02 02ca 01
0:13:22.434433	LOG	PUSH_DATA: Protocol version = 02, Token = 02ca, Identifier = 00, JSON = {'rxpk': [{'tmst': 1680119114, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 12.5, 'rssi': -49, 'size': 15, 'data': 'QCAgICCA0AEBnbUyRjci'}]}
0:13:22.435432	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01d0, FOpts:), FPort: 01, FRMPayload: 0032, MIC: 32463722)
0:13:22.437431	LOG	Server <---------- DUT
0:13:22.438431	LOG	Attempt 9/15
0:13:23.769672	LOG	PULL_DATA: 02 b2c8 02 aa555a0000240409
0:13:23.770673	LOG	PULL_ACK: 02 b2c8 04
0:13:33.849304	LOG	PULL_DATA: 02 96bf 02 aa555a0000240409
0:13:33.853303	LOG	PULL_ACK: 02 96bf 04
0:13:42.424826	LOG	PUSH_ACK: 02 02cc 01
0:13:42.426823	LOG	PUSH_DATA: Protocol version = 02, Token = 02cc, Identifier = 00, JSON = {'rxpk': [{'tmst': 1700129466, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCA0QEBkgZo9HOx'}]}
0:13:42.427822	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01d1, FOpts:), FPort: 01, FRMPayload: 0032, MIC: 68f473b1)
0:13:42.428822	LOG	Server <---------- DUT
0:13:42.434820	LOG	Receive frame on specific channels process tested successfully
0:13:42.438817	LOG	Send LinkADRReq process starts
0:13:43.929374	LOG	PULL_DATA: 02 b55c 02 aa555a0000240409
0:13:43.934371	LOG	PULL_ACK: 02 b55c 04
0:13:54.009634	LOG	PULL_DATA: 02 9c83 02 aa555a0000240409
0:13:54.011633	LOG	PULL_ACK: 02 9c83 04
0:14:02.430734	LOG	PUSH_ACK: 02 02ce 01
0:14:02.432734	LOG	PUSH_DATA: Protocol version = 02, Token = 02ce, Identifier = 00, JSON = {'rxpk': [{'tmst': 1720139802, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -47, 'size': 15, 'data': 'QCAgICCA0gEBfdYc0isL'}]}
0:14:02.434732	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01d2, FOpts:), FPort: 01, FRMPayload: 0032, MIC: 1cd22b0b)
0:14:02.435732	LOG	Server <---------- DUT
0:14:02.436731	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 016b, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: c9da03f2)
0:14:02.438730	LOG	PULL_RESP: Protocol version = 02, Token = 4bdc, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1722139802, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAawEAenQah6XJ2gPy'}}
0:14:02.440729	LOG	Server ----------> DUT
0:14:02.444726	LOG	TX_ACK: 02 4bdc 05 aa555a0000240409

0:14:04.119645	LOG	PULL_DATA: 02 eacd 02 aa555a0000240409
0:14:04.121644	LOG	PULL_ACK: 02 eacd 04
0:14:14.199142	LOG	PULL_DATA: 02 edff 02 aa555a0000240409
0:14:14.204139	LOG	PULL_ACK: 02 edff 04
0:14:22.331511	LOG	PUSH_ACK: 02 02d0 01
0:14:22.333510	LOG	PUSH_DATA: Protocol version = 02, Token = 02d0, Identifier = 00, JSON = {'rxpk': [{'tmst': 1740036734, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 17, 'data': 'QCAgICCC0wEDBwFuMC5wdZY='}]}
0:14:22.334511	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 01d3, FOpts: 0307), FPort: 01, FRMPayload: 0032, MIC: 2e707596)
0:14:22.335511	LOG	Server <---------- DUT
0:14:22.336510	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:14:22.338508	LOG	Command Answer: 0307
0:14:22.344504	LOG	MAC command communication completed
0:14:22.348504	LOG	End Test Step: Successful LinkADRReq commands block
0:14:22.351502	LOG	Partial Verdict: PASS
0:14:22.356497	LOG	==========
0:14:22.361496	LOG	==========
0:14:22.364493	LOG	Start Test Step: Unsuccessful LinkADRReq commands block
0:14:22.374487	LOG	Send MAC command block process starts
0:14:24.278732	LOG	PULL_DATA: 02 663c 02 aa555a0000240409
0:14:24.280713	LOG	PULL_ACK: 02 663c 04
0:14:32.304932	LOG	PUSH_ACK: 02 02d1 01
0:14:32.306931	LOG	PUSH_DATA: Protocol version = 02, Token = 02d1, Identifier = 00, JSON = {'rxpk': [{'tmst': 1750036758, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -44, 'size': 15, 'data': 'QCAgICCA1AEBZ9FdIW+X'}]}
0:14:32.307931	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01d4, FOpts:), FPort: 01, FRMPayload: 0032, MIC: 5d216f97)
0:14:32.309929	LOG	Server <---------- DUT
0:14:32.310929	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 016c, FOpts:), FPort: 00, FRMPayload: 034401000003310000610350000001), MIC: e394117c)
0:14:32.312928	LOG	PULL_RESP: Protocol version = 02, Token = 1c71, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1752036758, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 28, 'data': 'YCAgICAAbAEAQe+5lbJOTvTLRqFFwqw745QRfA=='}}
0:14:32.314927	LOG	Server ----------> DUT
0:14:32.319924	LOG	TX_ACK: 02 1c71 05 aa555a0000240409
0:14:34.419015	LOG	PULL_DATA: 02 315a 02 aa555a0000240409
0:14:34.421015	LOG	PULL_ACK: 02 315a 04
0:14:37.337354	LOG	PUSH_ACK: 02 02d2 01
0:14:37.340352	LOG	PUSH_DATA: Protocol version = 02, Token = 02d2, Identifier = 00, JSON = {'rxpk': [{'tmst': 1755049655, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -45, 'size': 21, 'data': 'QCAgICCG1QEDBAMEAwQBPVDgKz50'}]}
0:14:37.341351	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 86, FCnt: 01d5, FOpts: 030403040304), FPort: 01, FRMPayload: 0032, MIC: e02b3e74)
0:14:37.343350	LOG	Server <---------- DUT
0:14:37.345349	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:14:37.346349	LOG	Command Answer: 030403040304
0:14:37.438298	LOG	MAC command communication completed
0:14:37.441295	LOG	End Test Step: Unsuccessful LinkADRReq commands block

0:14:37.444296	LOG	Partial Verdict: PASS
0:14:37.449291	LOG	==========
0:14:37.455304	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_012_A
0:14:37.457286	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_012_B	
Verdict	PASS	
Date	2021-10-18 00:47:28	
Comments	LinkADRReq MAC command (Part 2)	
Technology Version	LCTT v3.1.0_D1 | GUI v1.10.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.1	
Test Specs Version	USv1.5.1/EUv1.6/KRv1.2.1/ASv1.1.1/INv1.1.1/ALLv1.1	
Project	MLSv2.0.0	
Project Creation Date	2021-10-17 22:25:22	
Sample	DevID:SAMR34-XPRO | AppID:CertApp_EU_ABP | SW:MLSv2.0.0 | HW:SAMR34J18B	
Parameters	SF7BW250 Frequency	868.100
	FSK Frequency	868.100
	Addition of a single channel frequency	867.700
	Conformance	TRUE

Time Stamp (ms)	Event	Summary
0:00:00.012380	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_012_B
0:00:00.050358	LOG	==========
0:00:00.052356	LOG	Start Test Step: Device activation
0:00:00.113329	LOG	Activation process has finished successfully
0:00:00.115321	LOG	Data stored in the DUT after Activation:
0:00:00.117321	LOG	DevAddr: 20202020
0:00:00.120317	LOG	AppEUI: abcdabcdabcdabcd
0:00:00.123317	LOG	NwkSKey: abcdabcdabcdabcdabcdabcdabcdabcd
0:00:00.127315	LOG	AppSKey: 12345678123456781234567812345678
0:00:00.130313	LOG	End Test Step: Device activation
0:00:00.134309	LOG	Partial Verdict: PASS
0:00:00.138307	LOG	==========
0:00:00.143305	LOG	==========
0:00:00.144304	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.153300	LOG	DUT Pre-condition activation process starts
0:00:00.157297	LOG	DUT Pre-condition activation completed
0:00:00.161296	LOG	End Test Step: DUT Pre-condition settings
0:00:00.164292	LOG	Partial Verdict: PASS
0:00:00.168290	LOG	==========
0:00:00.173288	LOG	==========
0:00:00.175287	LOG	Start Test Step: Data Rate Decay for all devices
0:00:00.185281	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:00:03.372465	LOG	PULL_DATA: 02 0dcf 02 aa555a0000240409
0:00:03.374464	LOG	PULL_ACK: 02 0dcf 04
0:00:03.376463	LOG	First PULL_DATA received
0:00:06.186865	LOG	PUSH_ACK: 02 02d3 01
0:00:06.189863	LOG	PUSH_DATA: Protocol version = 02, Token = 02d3, Identifier = 00, JSON = {'rxpk': [{'tmst': 1765044495, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -47, 'size': 15, 'data': 'QCAgICCA1gEBIDRHD2xe'}]}
0:00:06.190862	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01d6, FOpts:), FPort: 01, FRMPayload: 0032, MIC: 470f6c5e)

0:00:06.191862	LOG	Server <---------- DUT
0:00:06.193861	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 016d, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 582ab970)
0:00:06.195860	LOG	Frame command sent to the DUT
0:00:06.197859	LOG	PULL_RESP: Protocol version = 02, Token = 41fe, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1767044495, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAbQHgx3FYKrlw'}}
0:00:06.198856	LOG	Server ----------> DUT
0:00:06.201854	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:00:06.206852	LOG	Send NewChannelReq process starts
0:00:11.203006	LOG	PUSH_ACK: 02 02d5 01
0:00:11.205008	LOG	PUSH_DATA: Protocol version = 02, Token = 02d5, Identifier = 00, JSON = {'rxpk': [{'tmst': 1770047046, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICCA1wEBHIh2BgAt'}]}
0:00:11.207005	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01d7, FOpts:), FPort: 01, FRMPayload: 0033, MIC: 7606002d)
0:00:11.208004	LOG	Server <---------- DUT
0:00:11.210002	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 016e, FOpts:), FPort: 00, FRMPayload: 070388668450), MIC: f9e29a2b)
0:00:11.212001	LOG	PULL_RESP: Protocol version = 02, Token = a4b0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1772047046, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YCAgICAAbgEAR+FVzF/B+eKaKw=='}}
0:00:11.213001	LOG	Server ----------> DUT
0:00:11.217999	LOG	TX_ACK: 02 a4b0 05 aa555a0000240409
0:00:13.521686	LOG	PULL_DATA: 02 b6de 02 aa555a0000240409
0:00:13.524684	LOG	PULL_ACK: 02 b6de 04
0:00:16.202166	LOG	PUSH_ACK: 02 02d6 01
0:00:16.207163	LOG	PUSH_DATA: Protocol version = 02, Token = 02d6, Identifier = 00, JSON = {'rxpk': [{'tmst': 1775054776, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 17, 'data': 'QCAgICCC2AEHAwHmkErQpv4='}]}
0:00:16.210157	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 01d8, FOpts: 0703), FPort: 01, FRMPayload: 0033, MIC: 4ad0a6fe)
0:00:16.214155	LOG	Server <---------- DUT
0:00:16.218152	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:16.221151	LOG	Command Answer: 0703
0:00:16.226147	LOG	MAC command communication completed
0:00:16.229145	LOG	Send LinkADRReq process starts
0:00:21.195317	LOG	PUSH_ACK: 02 02d7 01
0:00:21.198315	LOG	PUSH_DATA: Protocol version = 02, Token = 02d7, Identifier = 00, JSON = {'rxpk': [{'tmst': 1780052233, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICCA2QEB0KEDkB0U'}]}
0:00:21.200314	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01d9, FOpts:), FPort: 01, FRMPayload: 0033, MIC: 03901d14)
0:00:21.201313	LOG	Server <---------- DUT
0:00:21.203314	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 016f, FOpts:), FPort: 00, FRMPayload: 0351080002), MIC: 47b8fe11)
0:00:21.206311	LOG	PULL_RESP: Protocol version = 02, Token = b1e9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1782052233, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAbwEAjnZPjKNHuP4R'}}

0:00:21.208310	LOG	Server ----------> DUT
0:00:21.212307	LOG	TX_ACK: 02 b1e9 05 aa555a0000240409
0:00:23.731873	LOG	PULL_DATA: 02 3d13 02 aa555a0000240409
0:00:23.733871	LOG	PULL_ACK: 02 3d13 04
0:00:26.207469	LOG	PUSH_ACK: 02 02d8 01
0:00:26.212466	LOG	PUSH_DATA: Protocol version = 02, Token = 02d8, Identifier = 00, JSON = {'rxpk': [{'tmst': 1785059942, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 17, 'data': 'QCAgICCC2gEDBwG5k7Gv6vI='}]}
0:00:26.213461	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 01da, FOpts: 0307), FPort: 01, FRMPayload: 0033, MIC: b1afeaf2)
0:00:26.214461	LOG	Server <---------- DUT
0:00:26.240444	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:26.243444	LOG	Command Answer: 0307
0:00:26.249439	LOG	MAC command communication completed
0:00:26.252437	LOG	Check number of uplinks repetitions process starts
0:00:28.682057	LOG	PUSH_ACK: 02 02d9 01
0:00:28.685054	LOG	PUSH_DATA: Protocol version = 02, Token = 02d9, Identifier = 00, JSON = {'rxpk': [{'tmst': 1787498542, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -46, 'size': 17, 'data': 'QCAgICCC2gEDBwG5k7Gv6vI='}]}
0:00:28.687052	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 01da, FOpts: 0307), FPort: 01, FRMPayload: 0033, MIC: b1afeaf2)
0:00:28.688051	LOG	Server <---------- DUT
0:00:28.690051	LOG	FRMPayload is the same between retransmissions
0:00:28.691081	LOG	Original uplink: 0033
0:00:28.693049	LOG	Actual retransmission: 0033
0:00:28.694048	LOG	FOpts is the same between retransmissions
0:00:28.695047	LOG	Original uplink: 0307
0:00:28.696049	LOG	Actual retransmission: 0307
0:00:28.698048	LOG	FPort is the same between retransmissions
0:00:28.699046	LOG	Original uplink: 01
0:00:28.700062	LOG	Actual retransmission: 01
0:00:31.207567	LOG	PUSH_ACK: 02 02da 01
0:00:31.212564	LOG	PUSH_DATA: Protocol version = 02, Token = 02da, Identifier = 00, JSON = {'rxpk': [{'tmst': 1790057390, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICCA2wEBIFyIMinK'}]}
0:00:31.213564	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01db, FOpts:), FPort: 01, FRMPayload: 0033, MIC: 883229ca)
0:00:31.214565	LOG	Server <---------- DUT
0:00:31.217563	LOG	Expected repetitions of uplink message have been received
0:00:31.220579	LOG	Check previous uplink data rate process starts
0:00:31.225557	LOG	Uplink received with expected Data Rate
0:00:31.227556	LOG	Sending an EchoPayloadReq CP command to restart the ADRACKCnt in DUT
0:00:31.231553	LOG	Send Test Command EchoPayloadReq process starts
0:00:33.632187	LOG	PUSH_ACK: 02 02db 01
0:00:33.635185	LOG	PUSH_DATA: Protocol version = 02, Token = 02db, Identifier = 00, JSON = {'rxpk': [{'tmst': 1792490854, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA2wEBIFyIMinK'}]}
0:00:33.636184	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01db, FOpts:), FPort: 01, FRMPayload: 0033, MIC: 883229ca)
0:00:33.638183	LOG	Server <---------- DUT

0:00:33.640182	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0170, FOpts:), FPort: e0, FRMPayload: 080a0b0c), MIC: 6457c432)
0:00:33.643180	LOG	Frame command sent to the DUT
0:00:33.645179	LOG	PULL_RESP: Protocol version = 02, Token = f37f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1794490854, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YCAgICAAcAHgPzCKMGRXxDI='}}
0:00:33.647178	LOG	Server ----------> DUT
0:00:33.652175	LOG	TX_ACK: 02 f37f 05 aa555a0000240409
0:00:33.862056	LOG	PULL_DATA: 02 956f 02 aa555a0000240409
0:00:33.863056	LOG	PULL_ACK: 02 956f 04
0:00:41.212871	LOG	PUSH_ACK: 02 02dd 01
0:00:41.213870	LOG	PUSH_DATA: Protocol version = 02, Token = 02dd, Identifier = 00, JSON = {'rxpk': [{'tmst': 1800070816, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 17, 'data': 'QCAgICCA3AHgBQvK6lVgmGg='}]}
0:00:41.215870	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01dc, FOpts:), FPort: e0, FRMPayload: 080b0c0d, MIC: 55609868)
0:00:41.216870	LOG	Server <---------- DUT
0:00:41.217869	LOG	Answer in payload: 0b0c0d
0:00:41.218868	LOG	Frame Command Payload in the Answer: 080b0c0d
0:00:41.222865	LOG	Checking if the payload of the EchoPayloadAns is correct
0:00:41.226863	LOG	Send Test Command EchoPayloadReq process completed
0:00:41.230861	LOG	ADRACKReq bit is disabled
0:00:41.232860	LOG	ADRACKReq bit from DUT tested successfully
0:00:41.234859	LOG	Test adaptive data rate control in frame header process starts
0:00:43.682464	LOG	PUSH_ACK: 02 02de 01
0:00:43.685462	LOG	PUSH_DATA: Protocol version = 02, Token = 02de, Identifier = 00, JSON = {'rxpk': [{'tmst': 1802509424, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -45, 'size': 17, 'data': 'QCAgICCA3AHgBQvK6lVgmGg='}]}
0:00:43.687461	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01dc, FOpts:), FPort: e0, FRMPayload: 080b0c0d, MIC: 55609868)
0:00:43.688460	LOG	Server <---------- DUT
0:00:43.690460	LOG	Repeated frame. It does not count
0:00:43.942317	LOG	PULL_DATA: 02 74f7 02 aa555a0000240409
0:00:43.943345	LOG	PULL_ACK: 02 74f7 04
0:00:46.206027	LOG	PUSH_ACK: 02 02df 01
0:00:46.208026	LOG	PUSH_DATA: Protocol version = 02, Token = 02df, Identifier = 00, JSON = {'rxpk': [{'tmst': 1805065152, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA3QEBAOSmPx7s'}]}
0:00:46.210024	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01dd, FOpts:), FPort: 01, FRMPayload: 0034, MIC: a63f1eec)
0:00:46.211024	LOG	Server <---------- DUT
0:00:46.213023	LOG	Count = 2
0:00:48.676620	LOG	PUSH_ACK: 02 02e0 01
0:00:48.678620	LOG	PUSH_DATA: Protocol version = 02, Token = 02e0, Identifier = 00, JSON = {'rxpk': [{'tmst': 1807498600, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -44, 'size': 15, 'data': 'QCAgICCA3QEBAOSmPx7s'}]}
0:00:48.679619	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01dd, FOpts:), FPort: 01, FRMPayload: 0034, MIC: a63f1eec)
0:00:48.680619	LOG	Server <---------- DUT
0:00:48.682617	LOG	Repeated frame. It does not count
0:00:51.250314	LOG	PUSH_ACK: 02 02e1 01

0:00:51.252313	LOG	PUSH_DATA: Protocol version = 02, Token = 02e1, Identifier = 00, JSON = {'rxpk': [{'tmst': 1810067744, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA3gEB+rXIDNBV'}]}
0:00:51.254313	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01de, FOpts:), FPort: 01, FRMPayload: 0034, MIC: c80cd055)
0:00:51.255313	LOG	Server <---------- DUT
0:00:51.256311	LOG	Count = 3
0:00:53.669937	LOG	PUSH_ACK: 02 02e2 01
0:00:53.671936	LOG	PUSH_DATA: Protocol version = 02, Token = 02e2, Identifier = 00, JSON = {'rxpk': [{'tmst': 1812501224, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICCA3gEB+rXIDNBV'}]}
0:00:53.673935	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01de, FOpts:), FPort: 01, FRMPayload: 0034, MIC: c80cd055)
0:00:53.674951	LOG	Server <---------- DUT
0:00:53.676934	LOG	Repeated frame. It does not count
0:00:54.021923	LOG	PULL_DATA: 02 87ab 02 aa555a0000240409
0:00:54.023922	LOG	PULL_ACK: 02 87ab 04
0:00:56.244659	LOG	PUSH_ACK: 02 02e3 01
0:00:56.249674	LOG	PUSH_DATA: Protocol version = 02, Token = 02e3, Identifier = 00, JSON = {'rxpk': [{'tmst': 1815070336, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICCA3wEBmf0TjkKE'}]}
0:00:56.253653	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01df, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 138e4284)
0:00:56.255651	LOG	Server <---------- DUT
0:00:56.256651	LOG	Count = 4
0:00:58.668282	LOG	PUSH_ACK: 02 02e4 01
0:00:58.670303	LOG	PUSH_DATA: Protocol version = 02, Token = 02e4, Identifier = 00, JSON = {'rxpk': [{'tmst': 1817503808, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICCA3wEBmf0TjkKE'}]}
0:00:58.671280	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01df, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 138e4284)
0:00:58.673278	LOG	Server <---------- DUT
0:00:58.674279	LOG	Repeated frame. It does not count
0:01:01.241851	LOG	PUSH_ACK: 02 02e5 01
0:01:01.246848	LOG	PUSH_DATA: Protocol version = 02, Token = 02e5, Identifier = 00, JSON = {'rxpk': [{'tmst': 1820072928, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA4AEBYQXgsuxG'}]}
0:01:01.248847	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01e0, FOpts:), FPort: 01, FRMPayload: 0034, MIC: e0b2ec46)
0:01:01.250846	LOG	Server <---------- DUT
0:01:01.252845	LOG	Count = 5
0:01:03.664472	LOG	PUSH_ACK: 02 02e6 01
0:01:03.666471	LOG	PUSH_DATA: Protocol version = 02, Token = 02e6, Identifier = 00, JSON = {'rxpk': [{'tmst': 1822506400, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA4AEBYQXgsuxG'}]}
0:01:03.668472	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01e0, FOpts:), FPort: 01, FRMPayload: 0034, MIC: e0b2ec46)
0:01:03.669469	LOG	Server <---------- DUT
0:01:03.671469	LOG	Repeated frame. It does not count
0:01:04.101319	LOG	PULL_DATA: 02 d000 02 aa555a0000240409

0:01:04.103319	LOG	PULL_ACK: 02 d000 04
0:01:06.239103	LOG	PUSH_ACK: 02 02e7 01
0:01:06.241102	LOG	PUSH_DATA: Protocol version = 02, Token = 02e7, Identifier = 00, JSON = {'rxpk': [{'tmst': 1825075520, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA4QEBR1nvZxA7'}]}
0:01:06.243101	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01e1, FOpts:), FPort: 01, FRMPayload: 0034, MIC: ef67103b)
0:01:06.244100	LOG	Server <---------- DUT
0:01:06.245100	LOG	Count = 6
0:01:08.660695	LOG	PUSH_ACK: 02 02e8 01
0:01:08.663694	LOG	PUSH_DATA: Protocol version = 02, Token = 02e8, Identifier = 00, JSON = {'rxpk': [{'tmst': 1827508992, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA4QEBR1nvZxA7'}]}
0:01:08.666693	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01e1, FOpts:), FPort: 01, FRMPayload: 0034, MIC: ef67103b)
0:01:08.669694	LOG	Server <---------- DUT
0:01:08.673688	LOG	Repeated frame. It does not count
0:01:11.253350	LOG	PUSH_ACK: 02 02ea 01
0:01:11.255351	LOG	PUSH_DATA: Protocol version = 02, Token = 02ea, Identifier = 00, JSON = {'rxpk': [{'tmst': 1830078120, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA4gEBdIxQTqGV'}]}
0:01:11.256350	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01e2, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 504ea195)
0:01:11.258348	LOG	Server <---------- DUT
0:01:11.259349	LOG	Count = 7
0:01:13.674972	LOG	PUSH_ACK: 02 02eb 01
0:01:13.676971	LOG	PUSH_DATA: Protocol version = 02, Token = 02eb, Identifier = 00, JSON = {'rxpk': [{'tmst': 1832511624, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA4gEBdIxQTqGV'}]}
0:01:13.678970	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01e2, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 504ea195)
0:01:13.680969	LOG	Server <---------- DUT
0:01:13.682967	LOG	Repeated frame. It does not count
0:01:14.181683	LOG	PULL_DATA: 02 e282 02 aa555a0000240409
0:01:14.183684	LOG	PULL_ACK: 02 e282 04
0:01:16.251504	LOG	PUSH_ACK: 02 02ed 01
0:01:16.253505	LOG	PUSH_DATA: Protocol version = 02, Token = 02ed, Identifier = 00, JSON = {'rxpk': [{'tmst': 1835080712, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICCA4wEBxQXUMlBC'}]}
0:01:16.254504	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01e3, FOpts:), FPort: 01, FRMPayload: 0034, MIC: d4325042)
0:01:16.256503	LOG	Server <---------- DUT
0:01:16.257503	LOG	Count = 8
0:01:18.672132	LOG	PUSH_ACK: 02 02ee 01
0:01:18.676126	LOG	PUSH_DATA: Protocol version = 02, Token = 02ee, Identifier = 00, JSON = {'rxpk': [{'tmst': 1837514192, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA4wEBxQXUMlBC'}]}
0:01:18.681123	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01e3, FOpts:), FPort: 01, FRMPayload: 0034, MIC: d4325042)
0:01:18.683120	LOG	Server <---------- DUT

0:01:18.685119	LOG	Repeated frame. It does not count
0:01:21.247660	LOG	PUSH_ACK: 02 02ef 01
0:01:21.249658	LOG	PUSH_DATA: Protocol version = 02, Token = 02ef, Identifier = 00, JSON = {'rxpk': [{'tmst': 1840083296, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA5AEB91RZUsaR'}]}
0:01:21.251659	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01e4, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 5952c691)
0:01:21.252659	LOG	Server <---------- DUT
0:01:21.253656	LOG	Count = 9
0:01:23.667282	LOG	PUSH_ACK: 02 02f0 01
0:01:23.670281	LOG	PUSH_DATA: Protocol version = 02, Token = 02f0, Identifier = 00, JSON = {'rxpk': [{'tmst': 1842516752, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICCA5AEB91RZUsaR'}]}
0:01:23.672279	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01e4, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 5952c691)
0:01:23.673279	LOG	Server <---------- DUT
0:01:23.675278	LOG	Repeated frame. It does not count
0:01:24.261944	LOG	PULL_DATA: 02 c978 02 aa555a0000240409
0:01:24.263942	LOG	PULL_ACK: 02 c978 04
0:01:26.242817	LOG	PUSH_ACK: 02 02f1 01
0:01:26.244816	LOG	PUSH_DATA: Protocol version = 02, Token = 02f1, Identifier = 00, JSON = {'rxpk': [{'tmst': 1845085872, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICCA5QEBxUkNexir'}]}
0:01:26.245815	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01e5, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 0d7b18ab)
0:01:26.246815	LOG	Server <---------- DUT
0:01:26.248813	LOG	Count = 10
0:01:28.664096	LOG	PUSH_ACK: 02 02f2 01
0:01:28.666094	LOG	PUSH_DATA: Protocol version = 02, Token = 02f2, Identifier = 00, JSON = {'rxpk': [{'tmst': 1847519376, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICCA5QEBxUkNexir'}]}
0:01:28.667096	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01e5, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 0d7b18ab)
0:01:28.669093	LOG	Server <---------- DUT
0:01:28.670092	LOG	Repeated frame. It does not count
0:01:31.239320	LOG	PUSH_ACK: 02 02f3 01
0:01:31.242320	LOG	PUSH_DATA: Protocol version = 02, Token = 02f3, Identifier = 00, JSON = {'rxpk': [{'tmst': 1850088472, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICCA5gEBJs6rDfx2'}]}
0:01:31.243319	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01e6, FOpts:), FPort: 01, FRMPayload: 0034, MIC: ab0dfc76)
0:01:31.245318	LOG	Server <---------- DUT
0:01:31.246316	LOG	Count = 11
0:01:33.661675	LOG	PUSH_ACK: 02 02f4 01
0:01:33.666673	LOG	PUSH_DATA: Protocol version = 02, Token = 02f4, Identifier = 00, JSON = {'rxpk': [{'tmst': 1852521920, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA5gEBJs6rDfx2'}]}
0:01:33.668673	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01e6, FOpts:), FPort: 01, FRMPayload: 0034, MIC: ab0dfc76)
0:01:33.669673	LOG	Server <---------- DUT

0:01:33.670672	LOG	Repeated frame. It does not count
0:01:34.341288	LOG	PULL_DATA: 02 417e 02 aa555a0000240409
0:01:34.343287	LOG	PULL_ACK: 02 417e 04
0:01:36.241207	LOG	PUSH_ACK: 02 02f5 01
0:01:36.243207	LOG	PUSH_DATA: Protocol version = 02, Token = 02f5, Identifier = 00, JSON = {'rxpk': [{'tmst': 1855091056, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA5wEBghjb2iH3'}]}
0:01:36.244207	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01e7, FOpts:), FPort: 01, FRMPayload: 0034, MIC: dbda21f7)
0:01:36.245206	LOG	Server <---------- DUT
0:01:36.247203	LOG	Count = 12
0:01:38.662744	LOG	PUSH_ACK: 02 02f6 01
0:01:38.664742	LOG	PUSH_DATA: Protocol version = 02, Token = 02f6, Identifier = 00, JSON = {'rxpk': [{'tmst': 1857524536, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA5wEBghjb2iH3'}]}
0:01:38.666742	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01e7, FOpts:), FPort: 01, FRMPayload: 0034, MIC: dbda21f7)
0:01:38.667740	LOG	Server <---------- DUT
0:01:38.668740	LOG	Repeated frame. It does not count
0:01:41.253268	LOG	PUSH_ACK: 02 02f8 01
0:01:41.255266	LOG	PUSH_DATA: Protocol version = 02, Token = 02f8, Identifier = 00, JSON = {'rxpk': [{'tmst': 1860093648, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA6AEBRAqJGrsF'}]}
0:01:41.256266	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01e8, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 891abb05)
0:01:41.258265	LOG	Server <---------- DUT
0:01:41.260264	LOG	Count = 13
0:01:43.674889	LOG	PUSH_ACK: 02 02f9 01
0:01:43.676888	LOG	PUSH_DATA: Protocol version = 02, Token = 02f9, Identifier = 00, JSON = {'rxpk': [{'tmst': 1862527120, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICCA6AEBRAqJGrsF'}]}
0:01:43.678886	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01e8, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 891abb05)
0:01:43.679886	LOG	Server <---------- DUT
0:01:43.681885	LOG	Repeated frame. It does not count
0:01:44.421573	LOG	PULL_DATA: 02 d5de 02 aa555a0000240409
0:01:44.423573	LOG	PULL_ACK: 02 d5de 04
0:01:48.665688	LOG	PUSH_ACK: 02 02fb 01
0:01:48.667687	LOG	PUSH_DATA: Protocol version = 02, Token = 02fb, Identifier = 00, JSON = {'rxpk': [{'tmst': 1867529696, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICCA6QEBp5EPybqp'}]}
0:01:48.668688	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01e9, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 0fc9baa9)
0:01:48.669688	LOG	Server <---------- DUT
0:01:48.671686	LOG	Count = 14
0:01:51.239222	LOG	PUSH_ACK: 02 02fc 01
0:01:51.242221	LOG	PUSH_DATA: Protocol version = 02, Token = 02fc, Identifier = 00, JSON = {'rxpk': [{'tmst': 1870098816, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICCA6gEBU2Etq8Hf'}]}

0:01:51.244220	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01ea, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 2dabc1df)
0:01:51.245219	LOG	Server <---------- DUT
0:01:51.247218	LOG	Count = 15
0:01:53.710815	LOG	PUSH_ACK: 02 02fd 01
0:01:53.712814	LOG	PUSH_DATA: Protocol version = 02, Token = 02fd, Identifier = 00, JSON = {'rxpk': [{'tmst': 1872532304, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA6gEBU2Etq8Hf'}]}
0:01:53.714813	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01ea, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 2dabc1df)
0:01:53.716812	LOG	Server <---------- DUT
0:01:53.718810	LOG	Repeated frame. It does not count
0:01:54.501365	LOG	PULL_DATA: 02 01bf 02 aa555a0000240409
0:01:54.503364	LOG	PULL_ACK: 02 01bf 04
0:01:56.285349	LOG	PUSH_ACK: 02 02fe 01
0:01:56.288347	LOG	PUSH_DATA: Protocol version = 02, Token = 02fe, Identifier = 00, JSON = {'rxpk': [{'tmst': 1875101392, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA6wEBDcscNy0T'}]}
0:01:56.290347	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01eb, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 1c372d13)
0:01:56.291346	LOG	Server <---------- DUT
0:01:56.293345	LOG	Count = 16
0:01:58.707457	LOG	PUSH_ACK: 02 02ff 01
0:01:58.710455	LOG	PUSH_DATA: Protocol version = 02, Token = 02ff, Identifier = 00, JSON = {'rxpk': [{'tmst': 1877534872, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA6wEBDcscNy0T'}]}
0:01:58.711454	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01eb, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 1c372d13)
0:01:58.713454	LOG	Server <---------- DUT
0:01:58.714452	LOG	Repeated frame. It does not count
0:02:01.284052	LOG	PUSH_ACK: 02 0300 01
0:02:01.286049	LOG	PUSH_DATA: Protocol version = 02, Token = 0300, Identifier = 00, JSON = {'rxpk': [{'tmst': 1880103976, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA7AEBA/5yDY99'}]}
0:02:01.287050	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01ec, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 720d8f7d)
0:02:01.288050	LOG	Server <---------- DUT
0:02:01.290047	LOG	Count = 17
0:02:03.704672	LOG	PUSH_ACK: 02 0301 01
0:02:03.708670	LOG	PUSH_DATA: Protocol version = 02, Token = 0301, Identifier = 00, JSON = {'rxpk': [{'tmst': 1882537464, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA7AEBA/5yDY99'}]}
0:02:03.710669	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01ec, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 720d8f7d)
0:02:03.711670	LOG	Server <---------- DUT
0:02:03.712670	LOG	Repeated frame. It does not count
0:02:04.581213	LOG	PULL_DATA: 02 abef 02 aa555a0000240409
0:02:04.583211	LOG	PULL_ACK: 02 abef 04
0:02:06.282245	LOG	PUSH_ACK: 02 0302 01
0:02:06.284243	LOG	PUSH_DATA: Protocol version = 02, Token = 0302, Identifier = 00, JSON = {'rxpk': [{'tmst': 1885106560, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA7QEBq71Is6eH'}]}
0:02:06.285243	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01ed, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 48b3a787)
0:02:06.286243	LOG	Server <---------- DUT
0:02:06.288241	LOG	Count = 18
0:02:08.703196	LOG	PUSH_ACK: 02 0303 01
0:02:08.705195	LOG	PUSH_DATA: Protocol version = 02, Token = 0303, Identifier = 00, JSON = {'rxpk': [{'tmst': 1887540024, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA7QEBq71Is6eH'}]}
0:02:08.707196	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01ed, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 48b3a787)
0:02:08.708196	LOG	Server <---------- DUT
0:02:08.710193	LOG	Repeated frame. It does not count
0:02:11.294668	LOG	PUSH_ACK: 02 0305 01
0:02:11.297667	LOG	PUSH_DATA: Protocol version = 02, Token = 0305, Identifier = 00, JSON = {'rxpk': [{'tmst': 1890109136, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICCA7gEB6GNJjvlL'}]}
0:02:11.299666	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01ee, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 498ef94b)
0:02:11.300665	LOG	Server <---------- DUT
0:02:11.302664	LOG	Count = 19
0:02:13.717289	LOG	PUSH_ACK: 02 0306 01
0:02:13.720287	LOG	PUSH_DATA: Protocol version = 02, Token = 0306, Identifier = 00, JSON = {'rxpk': [{'tmst': 1892542608, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -43, 'size': 15, 'data': 'QCAgICCA7gEB6GNJjvlL'}]}
0:02:13.722286	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01ee, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 498ef94b)
0:02:13.723285	LOG	Server <---------- DUT
0:02:13.725285	LOG	Repeated frame. It does not count
0:02:14.660751	LOG	PULL_DATA: 02 be11 02 aa555a0000240409
0:02:14.662751	LOG	PULL_ACK: 02 be11 04
0:02:16.293823	LOG	PUSH_ACK: 02 0307 01
0:02:16.296820	LOG	PUSH_DATA: Protocol version = 02, Token = 0307, Identifier = 00, JSON = {'rxpk': [{'tmst': 1895111728, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA7wEBPO74MB4/'}]}
0:02:16.297820	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01ef, FOpts:), FPort: 01, FRMPayload: 0034, MIC: f8301e3f)
0:02:16.298838	LOG	Server <---------- DUT
0:02:16.300818	LOG	Count = 20
0:02:18.716443	LOG	PUSH_ACK: 02 0308 01
0:02:18.718442	LOG	PUSH_DATA: Protocol version = 02, Token = 0308, Identifier = 00, JSON = {'rxpk': [{'tmst': 1897545216, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA7wEBPO74MB4/'}]}
0:02:18.719442	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01ef, FOpts:), FPort: 01, FRMPayload: 0034, MIC: f8301e3f)
0:02:18.720442	LOG	Server <---------- DUT
0:02:18.722439	LOG	Repeated frame. It does not count
0:02:21.291976	LOG	PUSH_ACK: 02 0309 01
0:02:21.293976	LOG	PUSH_DATA: Protocol version = 02, Token = 0309, Identifier = 00, JSON = {'rxpk': [{'tmst': 1900114312, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA8AEBvEitiMOU'}]}
0:02:21.295980	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01f0, FOpts:), FPort: 01, FRMPayload: 0034, MIC: ad88c394)
0:02:21.297004	LOG	Server <---------- DUT
0:02:21.298974	LOG	Count = 21
0:02:23.713732	LOG	PUSH_ACK: 02 030a 01
0:02:23.715732	LOG	PUSH_DATA: Protocol version = 02, Token = 030a, Identifier = 00, JSON = {'rxpk': [{'tmst': 1902547792, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA8AEBvEitiMOU'}]}
0:02:23.716733	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01f0, FOpts:), FPort: 01, FRMPayload: 0034, MIC: ad88c394)
0:02:23.718732	LOG	Server <---------- DUT
0:02:23.719730	LOG	Repeated frame. It does not count
0:02:24.741147	LOG	PULL_DATA: 02 2bef 02 aa555a0000240409
0:02:24.743147	LOG	PULL_ACK: 02 2bef 04
0:02:26.289266	LOG	PUSH_ACK: 02 030b 01
0:02:26.291265	LOG	PUSH_DATA: Protocol version = 02, Token = 030b, Identifier = 00, JSON = {'rxpk': [{'tmst': 1905116896, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICCA8QEBvTwryUbf'}]}
0:02:26.292264	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01f1, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 2bc946df)
0:02:26.293264	LOG	Server <---------- DUT
0:02:26.294263	LOG	Count = 22
0:02:28.709784	LOG	PUSH_ACK: 02 030c 01
0:02:28.711782	LOG	PUSH_DATA: Protocol version = 02, Token = 030c, Identifier = 00, JSON = {'rxpk': [{'tmst': 1907550368, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -47, 'size': 15, 'data': 'QCAgICCA8QEBvTwryUbf'}]}
0:02:28.712782	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01f1, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 2bc946df)
0:02:28.713782	LOG	Server <---------- DUT
0:02:28.714781	LOG	Repeated frame. It does not count
0:02:31.285374	LOG	PUSH_ACK: 02 030d 01
0:02:31.287374	LOG	PUSH_DATA: Protocol version = 02, Token = 030d, Identifier = 00, JSON = {'rxpk': [{'tmst': 1910119480, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA8gEBPwDV3UZs'}]}
0:02:31.288374	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01f2, FOpts:), FPort: 01, FRMPayload: 0034, MIC: d5dd466c)
0:02:31.290372	LOG	Server <---------- DUT
0:02:31.291370	LOG	Count = 23
0:02:33.706762	LOG	PUSH_ACK: 02 030e 01
0:02:33.709762	LOG	PUSH_DATA: Protocol version = 02, Token = 030e, Identifier = 00, JSON = {'rxpk': [{'tmst': 1912552968, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA8gEBPwDV3UZs'}]}
0:02:33.710761	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01f2, FOpts:), FPort: 01, FRMPayload: 0034, MIC: d5dd466c)
0:02:33.712762	LOG	Server <---------- DUT
0:02:33.713759	LOG	Repeated frame. It does not count
0:02:34.820970	LOG	PULL_DATA: 02 6b38 02 aa555a0000240409
0:02:34.824950	LOG	PULL_ACK: 02 6b38 04
0:02:36.283212	LOG	PUSH_ACK: 02 030f 01

0:02:36.285211	LOG	PUSH_DATA: Protocol version = 02, Token = 030f, Identifier = 00, JSON = {'rxpk': [{'tmst': 1915122080, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -44, 'size': 15, 'data': 'QCAgICCA8wEBMAcO7+AZ'}]}
0:02:36.286211	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01f3, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 0eefe019)
0:02:36.288213	LOG	Server <---------- DUT
0:02:36.289209	LOG	Count = 24
0:02:38.704833	LOG	PUSH_ACK: 02 0310 01
0:02:38.705832	LOG	PUSH_DATA: Protocol version = 02, Token = 0310, Identifier = 00, JSON = {'rxpk': [{'tmst': 1917555560, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICCA8wEBMAcO7+AZ'}]}
0:02:38.707831	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01f3, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 0eefe019)
0:02:38.708831	LOG	Server <---------- DUT
0:02:38.709830	LOG	Repeated frame. It does not count
0:02:41.294358	LOG	PUSH_ACK: 02 0312 01
0:02:41.299355	LOG	PUSH_DATA: Protocol version = 02, Token = 0312, Identifier = 00, JSON = {'rxpk': [{'tmst': 1920124664, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICCA9AEBGJ6hcHAV'}]}
0:02:41.325341	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01f4, FOpts:), FPort: 01, FRMPayload: 0034, MIC: a1707015)
0:02:41.326342	LOG	Server <---------- DUT
0:02:41.328339	LOG	Count = 25
0:02:43.717978	LOG	PUSH_ACK: 02 0313 01
0:02:43.720976	LOG	PUSH_DATA: Protocol version = 02, Token = 0313, Identifier = 00, JSON = {'rxpk': [{'tmst': 1922558144, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA9AEBGJ6hcHAV'}]}
0:02:43.721976	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01f4, FOpts:), FPort: 01, FRMPayload: 0034, MIC: a1707015)
0:02:43.723975	LOG	Server <---------- DUT
0:02:43.725974	LOG	Repeated frame. It does not count
0:02:44.901304	LOG	PULL_DATA: 02 be22 02 aa555a0000240409
0:02:44.903305	LOG	PULL_ACK: 02 be22 04
0:02:46.294511	LOG	PUSH_ACK: 02 0314 01
0:02:46.296509	LOG	PUSH_DATA: Protocol version = 02, Token = 0314, Identifier = 00, JSON = {'rxpk': [{'tmst': 1925127248, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA9QEB2bQjdhGt'}]}
0:02:46.297511	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01f5, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 237611ad)
0:02:46.299510	LOG	Server <---------- DUT
0:02:46.300509	LOG	Count = 26
0:02:48.715484	LOG	PUSH_ACK: 02 0315 01
0:02:48.717483	LOG	PUSH_DATA: Protocol version = 02, Token = 0315, Identifier = 00, JSON = {'rxpk': [{'tmst': 1927560728, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA9QEB2bQjdhGt'}]}
0:02:48.718483	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01f5, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 237611ad)
0:02:48.719484	LOG	Server <---------- DUT
0:02:48.721483	LOG	Repeated frame. It does not count
0:02:51.290713	LOG	PUSH_ACK: 02 0316 01

0:02:51.294711	LOG	PUSH_DATA: Protocol version = 02, Token = 0316, Identifier = 00, JSON = {'rxpk': [{'tmst': 1930129824, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCA9gEBlE7wHdQ+'}]}
0:02:51.297709	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01f6, FOpts:), FPort: 01, FRMPayload: 0034, MIC: f01dd43e)
0:02:51.300707	LOG	Server <---------- DUT
0:02:51.303706	LOG	Count = 27
0:02:53.713079	LOG	PUSH_ACK: 02 0317 01
0:02:53.715074	LOG	PUSH_DATA: Protocol version = 02, Token = 0317, Identifier = 00, JSON = {'rxpk': [{'tmst': 1932563296, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICCA9gEBlE7wHdQ+'}]}
0:02:53.717073	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01f6, FOpts:), FPort: 01, FRMPayload: 0034, MIC: f01dd43e)
0:02:53.718073	LOG	Server <---------- DUT
0:02:53.719072	LOG	Repeated frame. It does not count
0:02:54.981531	LOG	PULL_DATA: 02 16fb 02 aa555a0000240409
0:02:54.982531	LOG	PULL_ACK: 02 16fb 04
0:02:58.706411	LOG	PUSH_ACK: 02 031a 01
0:02:58.708409	LOG	PUSH_DATA: Protocol version = 02, Token = 031a, Identifier = 00, JSON = {'rxpk': [{'tmst': 1937565904, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA9wEBvvLdLjH0'}]}
0:02:58.710413	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01f7, FOpts:), FPort: 01, FRMPayload: 0034, MIC: dd2e31f4)
0:02:58.714407	LOG	Server <---------- DUT
0:02:58.718405	LOG	Count = 28
0:03:01.281432	LOG	PUSH_ACK: 02 031b 01
0:03:01.284435	LOG	PUSH_DATA: Protocol version = 02, Token = 031b, Identifier = 00, JSON = {'rxpk': [{'tmst': 1940135008, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA+AEBBRA6QU/B'}]}
0:03:01.288429	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01f8, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 3a414fc1)
0:03:01.293426	LOG	Server <---------- DUT
0:03:01.297424	LOG	Count = 29
0:03:03.753023	LOG	PUSH_ACK: 02 031c 01
0:03:03.759020	LOG	PUSH_DATA: Protocol version = 02, Token = 031c, Identifier = 00, JSON = {'rxpk': [{'tmst': 1942568488, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA+AEBBRA6QU/B'}]}
0:03:03.763017	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01f8, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 3a414fc1)
0:03:03.765016	LOG	Server <---------- DUT
0:03:03.767016	LOG	Repeated frame. It does not count
0:03:05.061223	LOG	PULL_DATA: 02 35ab 02 aa555a0000240409
0:03:05.065220	LOG	PULL_ACK: 02 35ab 04
0:03:06.279498	LOG	PUSH_ACK: 02 031d 01
0:03:06.281497	LOG	PUSH_DATA: Protocol version = 02, Token = 031d, Identifier = 00, JSON = {'rxpk': [{'tmst': 1945137592, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA+QEBsjKG5XXF'}]}
0:03:06.283495	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01f9, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 86e575c5)
0:03:06.284495	LOG	Server <---------- DUT

0:03:06.285494	LOG	Count = 30
0:03:08.750128	LOG	PUSH_ACK: 02 031e 01
0:03:08.752127	LOG	PUSH_DATA: Protocol version = 02, Token = 031e, Identifier = 00, JSON = {'rxpk': [{'tmst': 1947571048, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA+QEBsjKG5XXF'}]}
0:03:08.754126	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01f9, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 86e575c5)
0:03:08.756125	LOG	Server <---------- DUT
0:03:08.757124	LOG	Repeated frame. It does not count
0:03:11.284037	LOG	PUSH_ACK: 02 0320 01
0:03:11.286035	LOG	PUSH_DATA: Protocol version = 02, Token = 0320, Identifier = 00, JSON = {'rxpk': [{'tmst': 1950140168, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICCA+gEBSMC6R2mz'}]}
0:03:11.288036	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01fa, FOpts:), FPort: 01, FRMPayload: 0034, MIC: ba4769b3)
0:03:11.290033	LOG	Server <---------- DUT
0:03:11.291034	LOG	Count = 31
0:03:13.756647	LOG	PUSH_ACK: 02 0321 01
0:03:13.758646	LOG	PUSH_DATA: Protocol version = 02, Token = 0321, Identifier = 00, JSON = {'rxpk': [{'tmst': 1952573648, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA+gEBSMC6R2mz'}]}
0:03:13.759645	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01fa, FOpts:), FPort: 01, FRMPayload: 0034, MIC: ba4769b3)
0:03:13.761644	LOG	Server <---------- DUT
0:03:13.762644	LOG	Repeated frame. It does not count
0:03:15.141006	LOG	PULL_DATA: 02 6aa9 02 aa555a0000240409
0:03:15.143005	LOG	PULL_ACK: 02 6aa9 04
0:03:16.280425	LOG	PUSH_ACK: 02 0322 01
0:03:16.282422	LOG	PUSH_DATA: Protocol version = 02, Token = 0322, Identifier = 00, JSON = {'rxpk': [{'tmst': 1955142760, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA+wEBvapNNxXU'}]}
0:03:16.283421	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01fb, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 4d3715d4)
0:03:16.284421	LOG	Server <---------- DUT
0:03:16.286420	LOG	Count = 32
0:03:21.323817	LOG	PUSH_ACK: 02 0324 01
0:03:21.325816	LOG	PUSH_DATA: Protocol version = 02, Token = 0324, Identifier = 00, JSON = {'rxpk': [{'tmst': 1960145352, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA/AEBwjAqA/By'}]}
0:03:21.327814	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01fc, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 2a03f072)
0:03:21.328813	LOG	Server <---------- DUT
0:03:21.330812	LOG	Count = 33
0:03:23.745436	LOG	PUSH_ACK: 02 0325 01
0:03:23.747436	LOG	PUSH_DATA: Protocol version = 02, Token = 0325, Identifier = 00, JSON = {'rxpk': [{'tmst': 1962578840, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA/AEBwjAqA/By'}]}
0:03:23.749434	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01fc, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 2a03f072)
0:03:23.750433	LOG	Server <---------- DUT

0:03:23.752432	LOG	Repeated frame. It does not count
0:03:25.220513	LOG	PULL_DATA: 02 a3f2 02 aa555a0000240409
0:03:25.222511	LOG	PULL_ACK: 02 a3f2 04
0:03:26.320886	LOG	PUSH_ACK: 02 0326 01
0:03:26.322886	LOG	PUSH_DATA: Protocol version = 02, Token = 0326, Identifier = 00, JSON = {'rxpk': [{'tmst': 1965147944, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA/QEBHKCZWHby'}]}
0:03:26.323885	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01fd, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 995876f2)
0:03:26.325883	LOG	Server <---------- DUT
0:03:26.327882	LOG	Count = 34
0:03:28.742506	LOG	PUSH_ACK: 02 0327 01
0:03:28.744505	LOG	PUSH_DATA: Protocol version = 02, Token = 0327, Identifier = 00, JSON = {'rxpk': [{'tmst': 1967581448, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -43, 'size': 15, 'data': 'QCAgICCA/QEBHKCZWHby'}]}
0:03:28.746504	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01fd, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 995876f2)
0:03:28.747504	LOG	Server <---------- DUT
0:03:28.748503	LOG	Repeated frame. It does not count
0:03:31.318040	LOG	PUSH_ACK: 02 0328 01
0:03:31.321039	LOG	PUSH_DATA: Protocol version = 02, Token = 0328, Identifier = 00, JSON = {'rxpk': [{'tmst': 1970150536, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA/gEByCmW96c2'}]}
0:03:31.322037	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01fe, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 96f7a736)
0:03:31.323039	LOG	Server <---------- DUT
0:03:31.324038	LOG	Count = 35
0:03:33.742659	LOG	PUSH_ACK: 02 032a 01
0:03:33.744658	LOG	PUSH_DATA: Protocol version = 02, Token = 032a, Identifier = 00, JSON = {'rxpk': [{'tmst': 1972584016, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA/gEByCmW96c2'}]}
0:03:33.745657	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01fe, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 96f7a736)
0:03:33.746658	LOG	Server <---------- DUT
0:03:33.748656	LOG	Repeated frame. It does not count
0:03:35.300771	LOG	PULL_DATA: 02 5573 02 aa555a0000240409
0:03:35.305768	LOG	PULL_ACK: 02 5573 04
0:03:36.318192	LOG	PUSH_ACK: 02 032b 01
0:03:36.320191	LOG	PUSH_DATA: Protocol version = 02, Token = 032b, Identifier = 00, JSON = {'rxpk': [{'tmst': 1975153128, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA/wEBZ7RRjTmj'}]}
0:03:36.322190	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01ff, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 518d39a3)
0:03:36.324188	LOG	Server <---------- DUT
0:03:36.325188	LOG	Count = 36
0:03:38.739919	LOG	PUSH_ACK: 02 032c 01
0:03:38.742917	LOG	PUSH_DATA: Protocol version = 02, Token = 032c, Identifier = 00, JSON = {'rxpk': [{'tmst': 1977586592, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA/wEBZ7RRjTmj'}]}

0:03:38.744916	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01ff, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 518d39a3)
0:03:38.745916	LOG	Server <---------- DUT
0:03:38.747914	LOG	Repeated frame. It does not count
0:03:41.334842	LOG	PUSH_ACK: 02 032e 01
0:03:41.337840	LOG	PUSH_DATA: Protocol version = 02, Token = 032e, Identifier = 00, JSON = {'rxpk': [{'tmst': 1980155720, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAAAIBeQr1SYrH'}]}
0:03:41.339839	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0200, FOpts:), FPort: 01, FRMPayload: 0034, MIC: f5498ac7)
0:03:41.340838	LOG	Server <---------- DUT
0:03:41.342837	LOG	Count = 37
0:03:43.757582	LOG	PUSH_ACK: 02 032f 01
0:03:43.759581	LOG	PUSH_DATA: Protocol version = 02, Token = 032f, Identifier = 00, JSON = {'rxpk': [{'tmst': 1982589200, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAAAIBeQr1SYrH'}]}
0:03:43.760580	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0200, FOpts:), FPort: 01, FRMPayload: 0034, MIC: f5498ac7)
0:03:43.762579	LOG	Server <---------- DUT
0:03:43.763579	LOG	Repeated frame. It does not count
0:03:45.380657	LOG	PULL_DATA: 02 f237 02 aa555a0000240409
0:03:45.382657	LOG	PULL_ACK: 02 f237 04
0:03:46.331116	LOG	PUSH_ACK: 02 0330 01
0:03:46.333115	LOG	PUSH_DATA: Protocol version = 02, Token = 0330, Identifier = 00, JSON = {'rxpk': [{'tmst': 1985158312, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAAQIB/c77znmy'}]}
0:03:46.334115	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0201, FOpts:), FPort: 01, FRMPayload: 0034, MIC: fbce79b2)
0:03:46.336115	LOG	Server <---------- DUT
0:03:46.337113	LOG	Count = 38
0:03:48.750775	LOG	PUSH_ACK: 02 0331 01
0:03:48.753773	LOG	PUSH_DATA: Protocol version = 02, Token = 0331, Identifier = 00, JSON = {'rxpk': [{'tmst': 1987591792, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAAQIB/c77znmy'}]}
0:03:48.755772	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0201, FOpts:), FPort: 01, FRMPayload: 0034, MIC: fbce79b2)
0:03:48.756771	LOG	Server <---------- DUT
0:03:48.758771	LOG	Repeated frame. It does not count
0:03:51.325309	LOG	PUSH_ACK: 02 0332 01
0:03:51.327308	LOG	PUSH_DATA: Protocol version = 02, Token = 0332, Identifier = 00, JSON = {'rxpk': [{'tmst': 1990160896, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAAgIB8lf+4BTP'}]}
0:03:51.328307	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0202, FOpts:), FPort: 01, FRMPayload: 0034, MIC: fee014cf)
0:03:51.329306	LOG	Server <---------- DUT
0:03:51.331305	LOG	Count = 39
0:03:53.747060	LOG	PUSH_ACK: 02 0333 01
0:03:53.749058	LOG	PUSH_DATA: Protocol version = 02, Token = 0333, Identifier = 00, JSON = {'rxpk': [{'tmst': 1992594392, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAAgIB8lf+4BTP'}]}

0:03:53.751058	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0202, FOpts:), FPort: 01, FRMPayload: 0034, MIC: fee014cf)
0:03:53.752057	LOG	Server <---------- DUT
0:03:53.754056	LOG	Repeated frame. It does not count
0:03:55.460083	LOG	PULL_DATA: 02 f5bb 02 aa555a0000240409
0:03:55.463083	LOG	PULL_ACK: 02 f5bb 04
0:03:56.321593	LOG	PUSH_ACK: 02 0334 01
0:03:56.323593	LOG	PUSH_DATA: Protocol version = 02, Token = 0334, Identifier = 00, JSON = {'rxpk': [{'tmst': 1995163480, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAAwIBi9PTDwPv'}]}
0:03:56.325591	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0203, FOpts:), FPort: 01, FRMPayload: 0034, MIC: d30f03ef)
0:03:56.327590	LOG	Server <---------- DUT
0:03:56.329589	LOG	Count = 40
0:03:58.743214	LOG	PUSH_ACK: 02 0335 01
0:03:58.746221	LOG	PUSH_DATA: Protocol version = 02, Token = 0335, Identifier = 00, JSON = {'rxpk': [{'tmst': 1997596936, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAAwIBi9PTDwPv'}]}
0:03:58.747212	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0203, FOpts:), FPort: 01, FRMPayload: 0034, MIC: d30f03ef)
0:03:58.749211	LOG	Server <---------- DUT
0:03:58.751210	LOG	Repeated frame. It does not count
0:04:01.318879	LOG	PUSH_ACK: 02 0336 01
0:04:01.320878	LOG	PUSH_DATA: Protocol version = 02, Token = 0336, Identifier = 00, JSON = {'rxpk': [{'tmst': 2000166072, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCABAIBUtelUgA2'}]}
0:04:01.322878	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0204, FOpts:), FPort: 01, FRMPayload: 0034, MIC: a5520036)
0:04:01.323876	LOG	Server <---------- DUT
0:04:01.324876	LOG	Count = 41
0:04:03.739973	LOG	PUSH_ACK: 02 0337 01
0:04:03.741972	LOG	PUSH_DATA: Protocol version = 02, Token = 0337, Identifier = 00, JSON = {'rxpk': [{'tmst': 2002599560, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCABAIBUtelUgA2'}]}
0:04:03.743971	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0204, FOpts:), FPort: 01, FRMPayload: 0034, MIC: a5520036)
0:04:03.744972	LOG	Server <---------- DUT
0:04:03.746969	LOG	Repeated frame. It does not count
0:04:05.540066	LOG	PULL_DATA: 02 af36 02 aa555a0000240409
0:04:05.544045	LOG	PULL_ACK: 02 af36 04
0:04:06.313642	LOG	PUSH_ACK: 02 0338 01
0:04:06.316641	LOG	PUSH_DATA: Protocol version = 02, Token = 0338, Identifier = 00, JSON = {'rxpk': [{'tmst': 2005168664, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICCABQIB+F/8JEST'}]}
0:04:06.317640	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0205, FOpts:), FPort: 01, FRMPayload: 0034, MIC: fc244493)
0:04:06.319640	LOG	Server <---------- DUT
0:04:06.320638	LOG	Count = 42
0:04:08.787430	LOG	PUSH_ACK: 02 0339 01
0:04:08.789430	LOG	PUSH_DATA: Protocol version = 02, Token = 0339, Identifier = 00, JSON = {'rxpk': [{'tmst': 2007602152, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCABQIB+F/8JEST'}]}
0:04:08.791428	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0205, FOpts:), FPort: 01, FRMPayload: 0034, MIC: fc244493)
0:04:08.793427	LOG	Server <---------- DUT
0:04:08.794427	LOG	Repeated frame. It does not count
0:04:11.326986	LOG	PUSH_ACK: 02 033c 01
0:04:11.328983	LOG	PUSH_DATA: Protocol version = 02, Token = 033c, Identifier = 00, JSON = {'rxpk': [{'tmst': 2010171248, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICCABgIBnPlo0EOl'}]}
0:04:11.329982	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0206, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 68d043a5)
0:04:11.331981	LOG	Server <---------- DUT
0:04:11.332982	LOG	Count = 43
0:04:13.748732	LOG	PUSH_ACK: 02 033d 01
0:04:13.749731	LOG	PUSH_DATA: Protocol version = 02, Token = 033d, Identifier = 00, JSON = {'rxpk': [{'tmst': 2012604736, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICCABgIBnPlo0EOl'}]}
0:04:13.751729	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0206, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 68d043a5)
0:04:13.752731	LOG	Server <---------- DUT
0:04:13.753730	LOG	Repeated frame. It does not count
0:04:15.620593	LOG	PULL_DATA: 02 3a84 02 aa555a0000240409
0:04:15.622592	LOG	PULL_ACK: 02 3a84 04
0:04:16.322194	LOG	PUSH_ACK: 02 033e 01
0:04:16.324193	LOG	PUSH_DATA: Protocol version = 02, Token = 033e, Identifier = 00, JSON = {'rxpk': [{'tmst': 2015173840, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICCABwIBMDQ3CTIh'}]}
0:04:16.325193	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0207, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 37093221)
0:04:16.326210	LOG	Server <---------- DUT
0:04:16.328190	LOG	Count = 44
0:04:18.741126	LOG	PUSH_ACK: 02 033f 01
0:04:18.742125	LOG	PUSH_DATA: Protocol version = 02, Token = 033f, Identifier = 00, JSON = {'rxpk': [{'tmst': 2017607320, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCABwIBMDQ3CTIh'}]}
0:04:18.744125	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0207, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 37093221)
0:04:18.746125	LOG	Server <---------- DUT
0:04:18.747124	LOG	Repeated frame. It does not count
0:04:21.316718	LOG	PUSH_ACK: 02 0340 01
0:04:21.318717	LOG	PUSH_DATA: Protocol version = 02, Token = 0340, Identifier = 00, JSON = {'rxpk': [{'tmst': 2020176432, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCACAIBZ1phBoZB'}]}
0:04:21.319717	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0208, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 61068641)
0:04:21.320715	LOG	Server <---------- DUT
0:04:21.322714	LOG	Count = 45
0:04:23.788783	LOG	PUSH_ACK: 02 0341 01
0:04:23.790782	LOG	PUSH_DATA: Protocol version = 02, Token = 0341, Identifier = 00, JSON = {'rxpk': [{'tmst': 2022609880, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICCACAIBZ1phBoZB'}]}
0:04:23.791783	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0208, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 61068641)
0:04:23.792781	LOG	Server <---------- DUT
0:04:23.794780	LOG	Repeated frame. It does not count
0:04:25.709817	LOG	PULL_DATA: 02 143b 02 aa555a0000240409
0:04:25.712816	LOG	PULL_ACK: 02 143b 04
0:04:26.362448	LOG	PUSH_ACK: 02 0342 01
0:04:26.364445	LOG	PUSH_DATA: Protocol version = 02, Token = 0342, Identifier = 00, JSON = {'rxpk': [{'tmst': 2025179016, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCACQIBXsmeQyij'}]}
0:04:26.366461	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0209, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 9e4328a3)
0:04:26.367464	LOG	Server <---------- DUT
0:04:26.369461	LOG	Count = 46
0:04:31.354608	LOG	PUSH_ACK: 02 0344 01
0:04:31.355607	LOG	PUSH_DATA: Protocol version = 02, Token = 0344, Identifier = 00, JSON = {'rxpk': [{'tmst': 2030181608, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCACgIBvdYoWne1'}]}
0:04:31.357604	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 020a, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 285a77b5)
0:04:31.359603	LOG	Server <---------- DUT
0:04:31.361602	LOG	Count = 47
0:04:33.775227	LOG	PUSH_ACK: 02 0345 01
0:04:33.777227	LOG	PUSH_DATA: Protocol version = 02, Token = 0345, Identifier = 00, JSON = {'rxpk': [{'tmst': 2032615080, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCACgIBvdYoWne1'}]}
0:04:33.778225	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 020a, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 285a77b5)
0:04:33.780225	LOG	Server <---------- DUT
0:04:33.781226	LOG	Repeated frame. It does not count
0:04:35.790079	LOG	PULL_DATA: 02 43bf 02 aa555a0000240409
0:04:35.795077	LOG	PULL_ACK: 02 43bf 04
0:04:36.348762	LOG	PUSH_ACK: 02 0346 01
0:04:36.350791	LOG	PUSH_DATA: Protocol version = 02, Token = 0346, Identifier = 00, JSON = {'rxpk': [{'tmst': 2035184192, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICCACwIBOO8LgNKQ'}]}
0:04:36.352764	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 020b, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 0b80d290)
0:04:36.356759	LOG	Server <---------- DUT
0:04:36.359757	LOG	Count = 48
0:04:38.768767	LOG	PUSH_ACK: 02 0347 01
0:04:38.770765	LOG	PUSH_DATA: Protocol version = 02, Token = 0347, Identifier = 00, JSON = {'rxpk': [{'tmst': 2037617640, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCACwIBOO8LgNKQ'}]}
0:04:38.772764	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 020b, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 0b80d290)
0:04:38.773764	LOG	Server <---------- DUT
0:04:38.775763	LOG	Repeated frame. It does not count
0:04:41.354295	LOG	PUSH_ACK: 02 0349 01

0:04:41.357292	LOG	PUSH_DATA: Protocol version = 02, Token = 0349, Identifier = 00, JSON = {'rxpk': [{'tmst': 2040186784, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICCADAIB3bpKoNTj'}]}
0:04:41.358294	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 020c, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 4aa0d4e3)
0:04:41.359294	LOG	Server <---------- DUT
0:04:41.361291	LOG	Count = 49
0:04:43.775273	LOG	PUSH_ACK: 02 034a 01
0:04:43.777271	LOG	PUSH_DATA: Protocol version = 02, Token = 034a, Identifier = 00, JSON = {'rxpk': [{'tmst': 2042620248, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCADAIB3bpKoNTj'}]}
0:04:43.779270	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 020c, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 4aa0d4e3)
0:04:43.781269	LOG	Server <---------- DUT
0:04:43.783268	LOG	Repeated frame. It does not count
0:04:45.870420	LOG	PULL_DATA: 02 2a01 02 aa555a0000240409
0:04:45.872419	LOG	PULL_ACK: 02 2a01 04
0:04:46.349168	LOG	PUSH_ACK: 02 034b 01
0:04:46.351168	LOG	PUSH_DATA: Protocol version = 02, Token = 034b, Identifier = 00, JSON = {'rxpk': [{'tmst': 2045189376, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCADQIBlyyYkvwf'}]}
0:04:46.353166	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 020d, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 9892fc1f)
0:04:46.354165	LOG	Server <---------- DUT
0:04:46.355165	LOG	Count = 50
0:04:48.769050	LOG	PUSH_ACK: 02 034c 01
0:04:48.771049	LOG	PUSH_DATA: Protocol version = 02, Token = 034c, Identifier = 00, JSON = {'rxpk': [{'tmst': 2047622840, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICCADQIBlyyYkvwf'}]}
0:04:48.772051	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 020d, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 9892fc1f)
0:04:48.774048	LOG	Server <---------- DUT
0:04:48.776047	LOG	Repeated frame. It does not count
0:04:51.342384	LOG	PUSH_ACK: 02 034d 01
0:04:51.344382	LOG	PUSH_DATA: Protocol version = 02, Token = 034d, Identifier = 00, JSON = {'rxpk': [{'tmst': 2050191960, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCADgIBVA7lovji'}]}
0:04:51.345384	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 020e, FOpts:), FPort: 01, FRMPayload: 0034, MIC: e5a2f8e2)
0:04:51.347383	LOG	Server <---------- DUT
0:04:51.348380	LOG	Count = 51
0:04:53.762683	LOG	PUSH_ACK: 02 034e 01
0:04:53.764683	LOG	PUSH_DATA: Protocol version = 02, Token = 034e, Identifier = 00, JSON = {'rxpk': [{'tmst': 2052625440, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCADgIBVA7lovji'}]}
0:04:53.765682	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 020e, FOpts:), FPort: 01, FRMPayload: 0034, MIC: e5a2f8e2)
0:04:53.767681	LOG	Server <---------- DUT
0:04:53.768680	LOG	Repeated frame. It does not count
0:04:55.950487	LOG	PULL_DATA: 02 d055 02 aa555a0000240409

0:04:55.951487	LOG	PULL_ACK: 02 d055 04
0:04:56.337267	LOG	PUSH_ACK: 02 034f 01
0:04:56.339266	LOG	PUSH_DATA: Protocol version = 02, Token = 034f, Identifier = 00, JSON = {'rxpk': [{'tmst': 2055194536, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCADwIBw07WJ5UC'}]}
0:04:56.341265	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 020f, FOpts:), FPort: 01, FRMPayload: 0034, MIC: d6279502)
0:04:56.342264	LOG	Server <---------- DUT
0:04:56.344263	LOG	Count = 52
0:04:58.807860	LOG	PUSH_ACK: 02 0350 01
0:04:58.809859	LOG	PUSH_DATA: Protocol version = 02, Token = 0350, Identifier = 00, JSON = {'rxpk': [{'tmst': 2057628008, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCADwIBw07WJ5UC'}]}
0:04:58.810860	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 020f, FOpts:), FPort: 01, FRMPayload: 0034, MIC: d6279502)
0:04:58.811859	LOG	Server <---------- DUT
0:04:58.812859	LOG	Repeated frame. It does not count
0:05:01.330804	LOG	PUSH_ACK: 02 0351 01
0:05:01.332804	LOG	PUSH_DATA: Protocol version = 02, Token = 0351, Identifier = 00, JSON = {'rxpk': [{'tmst': 2060197120, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAEAIB8diA19vL'}]}
0:05:01.333804	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0210, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 80d7dbcb)
0:05:01.335801	LOG	Server <---------- DUT
0:05:01.337803	LOG	Count = 53
0:05:03.802424	LOG	PUSH_ACK: 02 0352 01
0:05:03.804424	LOG	PUSH_DATA: Protocol version = 02, Token = 0352, Identifier = 00, JSON = {'rxpk': [{'tmst': 2062630568, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAEAIB8diA19vL'}]}
0:05:03.806422	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0210, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 80d7dbcb)
0:05:03.807422	LOG	Server <---------- DUT
0:05:03.809420	LOG	Repeated frame. It does not count
0:05:06.030155	LOG	PULL_DATA: 02 f13c 02 aa555a0000240409
0:05:06.034155	LOG	PULL_ACK: 02 f13c 04
0:05:06.375959	LOG	PUSH_ACK: 02 0353 01
0:05:06.377957	LOG	PUSH_DATA: Protocol version = 02, Token = 0353, Identifier = 00, JSON = {'rxpk': [{'tmst': 2065199704, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAEQIBEWWBNq3z'}]}
0:05:06.378959	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0211, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 8136adf3)
0:05:06.380956	LOG	Server <---------- DUT
0:05:06.382955	LOG	Count = 54
0:05:08.797579	LOG	PUSH_ACK: 02 0355 01
0:05:08.799579	LOG	PUSH_DATA: Protocol version = 02, Token = 0355, Identifier = 00, JSON = {'rxpk': [{'tmst': 2067633176, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAEQIBEWWBNq3z'}]}
0:05:08.801577	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0211, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 8136adf3)
0:05:08.803576	LOG	Server <---------- DUT

0:05:08.804575	LOG	Repeated frame. It does not count
0:05:11.387104	LOG	PUSH_ACK: 02 0357 01
0:05:11.389104	LOG	PUSH_DATA: Protocol version = 02, Token = 0357, Identifier = 00, JSON = {'rxpk': [{'tmst': 2070202288, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAEgIBmRe62zLt'}]}
0:05:11.391102	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0212, FOpts:), FPort: 01, FRMPayload: 0034, MIC: badb32ed)
0:05:11.393101	LOG	Server <---------- DUT
0:05:11.394101	LOG	Count = 55
0:05:13.808872	LOG	PUSH_ACK: 02 0358 01
0:05:13.811869	LOG	PUSH_DATA: Protocol version = 02, Token = 0358, Identifier = 00, JSON = {'rxpk': [{'tmst': 2072635752, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAEgIBmRe62zLt'}]}
0:05:13.812869	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0212, FOpts:), FPort: 01, FRMPayload: 0034, MIC: badb32ed)
0:05:13.814872	LOG	Server <---------- DUT
0:05:13.815868	LOG	Repeated frame. It does not count
0:05:16.110172	LOG	PULL_DATA: 02 8daf 02 aa555a0000240409
0:05:16.112170	LOG	PULL_ACK: 02 8daf 04
0:05:16.384017	LOG	PUSH_ACK: 02 0359 01
0:05:16.389014	LOG	PUSH_DATA: Protocol version = 02, Token = 0359, Identifier = 00, JSON = {'rxpk': [{'tmst': 2075204880, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAEwIBrIml07jP'}]}
0:05:16.393016	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0213, FOpts:), FPort: 01, FRMPayload: 0034, MIC: a5d3b8cf)
0:05:16.396010	LOG	Server <---------- DUT
0:05:16.401008	LOG	Count = 56
0:05:18.808141	LOG	PUSH_ACK: 02 035a 01
0:05:18.811138	LOG	PUSH_DATA: Protocol version = 02, Token = 035a, Identifier = 00, JSON = {'rxpk': [{'tmst': 2077638352, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAEwIBrIml07jP'}]}
0:05:18.812138	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0213, FOpts:), FPort: 01, FRMPayload: 0034, MIC: a5d3b8cf)
0:05:18.813139	LOG	Server <---------- DUT
0:05:18.815136	LOG	Repeated frame. It does not count
0:05:21.384716	LOG	PUSH_ACK: 02 035b 01
0:05:21.387715	LOG	PUSH_DATA: Protocol version = 02, Token = 035b, Identifier = 00, JSON = {'rxpk': [{'tmst': 2080207464, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAFAIBrLDRIo36'}]}
0:05:21.389713	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0214, FOpts:), FPort: 01, FRMPayload: 0034, MIC: d1228dfa)
0:05:21.390713	LOG	Server <---------- DUT
0:05:21.392712	LOG	Count = 57
0:05:23.808419	LOG	PUSH_ACK: 02 035d 01
0:05:23.811416	LOG	PUSH_DATA: Protocol version = 02, Token = 035d, Identifier = 00, JSON = {'rxpk': [{'tmst': 2082640944, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAFAIBrLDRIo36'}]}
0:05:23.812415	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0214, FOpts:), FPort: 01, FRMPayload: 0034, MIC: d1228dfa)
0:05:23.814412	LOG	Server <---------- DUT

0:05:23.815410	LOG	Repeated frame. It does not count
0:05:26.190189	LOG	PULL_DATA: 02 5ea3 02 aa555a0000240409
0:05:26.192188	LOG	PULL_ACK: 02 5ea3 04
0:05:26.384078	LOG	PUSH_ACK: 02 035e 01
0:05:26.386077	LOG	PUSH_DATA: Protocol version = 02, Token = 035e, Identifier = 00, JSON = {'rxpk': [{'tmst': 2085210064, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAFQIBFh/rEKaj'}]}
0:05:26.387078	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0215, FOpts:), FPort: 01, FRMPayload: 0034, MIC: eb10a6a3)
0:05:26.388076	LOG	Server <---------- DUT
0:05:26.389077	LOG	Count = 58
0:05:28.804699	LOG	PUSH_ACK: 02 035f 01
0:05:28.806699	LOG	PUSH_DATA: Protocol version = 02, Token = 035f, Identifier = 00, JSON = {'rxpk': [{'tmst': 2087643528, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAFQIBFh/rEKaj'}]}
0:05:28.808698	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0215, FOpts:), FPort: 01, FRMPayload: 0034, MIC: eb10a6a3)
0:05:28.809697	LOG	Server <---------- DUT
0:05:28.810698	LOG	Repeated frame. It does not count
0:05:31.381232	LOG	PUSH_ACK: 02 0360 01
0:05:31.384230	LOG	PUSH_DATA: Protocol version = 02, Token = 0360, Identifier = 00, JSON = {'rxpk': [{'tmst': 2090212640, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -43, 'size': 15, 'data': 'QCAgICCAFgIBz6+/s9QI'}]}
0:05:31.386229	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0216, FOpts:), FPort: 01, FRMPayload: 0034, MIC: bfb3d408)
0:05:31.387229	LOG	Server <---------- DUT
0:05:31.389228	LOG	Count = 59
0:05:33.804191	LOG	PUSH_ACK: 02 0361 01
0:05:33.805190	LOG	PUSH_DATA: Protocol version = 02, Token = 0361, Identifier = 00, JSON = {'rxpk': [{'tmst': 2092646096, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.2, 'rssi': -43, 'size': 15, 'data': 'QCAgICCAFgIBz6+/s9QI'}]}
0:05:33.807190	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0216, FOpts:), FPort: 01, FRMPayload: 0034, MIC: bfb3d408)
0:05:33.811188	LOG	Server <---------- DUT
0:05:33.815185	LOG	Repeated frame. It does not count
0:05:36.270789	LOG	PULL_DATA: 02 ab93 02 aa555a0000240409
0:05:36.281782	LOG	PULL_ACK: 02 ab93 04
0:05:36.377725	LOG	PUSH_ACK: 02 0362 01
0:05:36.380724	LOG	PUSH_DATA: Protocol version = 02, Token = 0362, Identifier = 00, JSON = {'rxpk': [{'tmst': 2095215216, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAFwIBfujBK9Q5'}]}
0:05:36.382723	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0217, FOpts:), FPort: 01, FRMPayload: 0034, MIC: c12bd439)
0:05:36.383722	LOG	Server <---------- DUT
0:05:36.384721	LOG	Count = 60
0:05:38.799850	LOG	PUSH_ACK: 02 0363 01
0:05:38.801849	LOG	PUSH_DATA: Protocol version = 02, Token = 0363, Identifier = 00, JSON = {'rxpk': [{'tmst': 2097648696, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAFwIBfujBK9Q5'}]}

0:05:38.803848	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0217, FOpts:), FPort: 01, FRMPayload: 0034, MIC: c12bd439)
0:05:38.804848	LOG	Server <---------- DUT
0:05:38.806846	LOG	Repeated frame. It does not count
0:05:41.384881	LOG	PUSH_ACK: 02 0365 01
0:05:41.386880	LOG	PUSH_DATA: Protocol version = 02, Token = 0365, Identifier = 00, JSON = {'rxpk': [{'tmst': 2100217800, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAGAIBdbAr1Wk3'}]}
0:05:41.388877	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0218, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 2bd56937)
0:05:41.389877	LOG	Server <---------- DUT
0:05:41.391875	LOG	Count = 61
0:05:43.806579	LOG	PUSH_ACK: 02 0366 01
0:05:43.808578	LOG	PUSH_DATA: Protocol version = 02, Token = 0366, Identifier = 00, JSON = {'rxpk': [{'tmst': 2102651264, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAGAIBdbAr1Wk3'}]}
0:05:43.809576	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0218, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 2bd56937)
0:05:43.810577	LOG	Server <---------- DUT
0:05:43.812574	LOG	Repeated frame. It does not count
0:05:46.360244	LOG	PULL_DATA: 02 4f15 02 aa555a0000240409
0:05:46.362243	LOG	PULL_ACK: 02 4f15 04
0:05:46.380232	LOG	PUSH_ACK: 02 0367 01
0:05:46.382230	LOG	PUSH_DATA: Protocol version = 02, Token = 0367, Identifier = 00, JSON = {'rxpk': [{'tmst': 2105220384, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -47, 'size': 15, 'data': 'QCAgICCAGQIBpSCeUyKr'}]}
0:05:46.384231	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0219, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 9e5322ab)
0:05:46.385229	LOG	Server <---------- DUT
0:05:46.386229	LOG	Count = 62
0:05:48.799858	LOG	PUSH_ACK: 02 0368 01
0:05:48.801857	LOG	PUSH_DATA: Protocol version = 02, Token = 0368, Identifier = 00, JSON = {'rxpk': [{'tmst': 2107653840, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAGQIBpSCeUyKr'}]}
0:05:48.803856	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0219, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 9e5322ab)
0:05:48.804856	LOG	Server <---------- DUT
0:05:48.805855	LOG	Repeated frame. It does not count
0:05:51.373504	LOG	PUSH_ACK: 02 0369 01
0:05:51.376502	LOG	PUSH_DATA: Protocol version = 02, Token = 0369, Identifier = 00, JSON = {'rxpk': [{'tmst': 2110222952, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAGgIBHgBt8E8I'}]}
0:05:51.378501	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 021a, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 6df04f08)
0:05:51.379500	LOG	Server <---------- DUT
0:05:51.381499	LOG	Count = 63
0:05:53.793697	LOG	PUSH_ACK: 02 036a 01
0:05:53.795696	LOG	PUSH_DATA: Protocol version = 02, Token = 036a, Identifier = 00, JSON = {'rxpk': [{'tmst': 2112656408, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAGgIBHgBt8E8I'}]}

0:05:53.796695	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 021a, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 6df04f08)
0:05:53.797695	LOG	Server <---------- DUT
0:05:53.800693	LOG	Repeated frame. It does not count
0:05:56.368640	LOG	PUSH_ACK: 02 036c 01
0:05:56.370621	LOG	PUSH_DATA: Protocol version = 02, Token = 036c, Identifier = 00, JSON = {'rxpk': [{'tmst': 2115225528, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAGwIB0p3UHo7g'}]}
0:05:56.371620	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 021b, FOpts:), FPort: 01, FRMPayload: 0034, MIC: d41e8ee0)
0:05:56.373637	LOG	Server <---------- DUT
0:05:56.375618	LOG	Count = 64
0:05:56.376637	LOG	Waiting for the retransmissions
0:05:56.439698	LOG	PULL_DATA: 02 3df2 02 aa555a0000240409
0:05:56.441700	LOG	PULL_ACK: 02 3df2 04
0:05:58.839009	LOG	PUSH_ACK: 02 036d 01
0:05:58.842010	LOG	PUSH_DATA: Protocol version = 02, Token = 036d, Identifier = 00, JSON = {'rxpk': [{'tmst': 2117659000, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAGwIB0p3UHo7g'}]}
0:05:58.844008	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 021b, FOpts:), FPort: 01, FRMPayload: 0034, MIC: d41e8ee0)
0:05:58.845007	LOG	Server <---------- DUT
0:05:58.871991	LOG	Expected number of uplink messages have been received
0:05:58.874989	LOG	Test adaptive data rate control in frame header process starts
0:06:01.361574	LOG	PUSH_ACK: 02 036e 01
0:06:01.363572	LOG	PUSH_DATA: Protocol version = 02, Token = 036e, Identifier = 00, JSON = {'rxpk': [{'tmst': 2120228120, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAHAIBJUN+kfa9'}]}
0:06:01.364573	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 021c, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 7e91f6bd)
0:06:01.366570	LOG	Server <---------- DUT
0:06:01.368571	LOG	Count = 2
0:06:03.832130	LOG	PUSH_ACK: 02 036f 01
0:06:03.834130	LOG	PUSH_DATA: Protocol version = 02, Token = 036f, Identifier = 00, JSON = {'rxpk': [{'tmst': 2122661600, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAHAIBJUN+kfa9'}]}
0:06:03.835129	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 021c, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 7e91f6bd)
0:06:03.836129	LOG	Server <---------- DUT
0:06:03.837129	LOG	Repeated frame. It does not count
0:06:06.406663	LOG	PUSH_ACK: 02 0370 01
0:06:06.411662	LOG	PUSH_DATA: Protocol version = 02, Token = 0370, Identifier = 00, JSON = {'rxpk': [{'tmst': 2125230712, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAHQIBGgAkY/EO'}]}
0:06:06.412660	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 021d, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 2463f10e)
0:06:06.413661	LOG	Server <---------- DUT
0:06:06.414661	LOG	Count = 3
0:06:06.519199	LOG	PULL_DATA: 02 0792 02 aa555a0000240409
0:06:06.521198	LOG	PULL_ACK: 02 0792 04
0:06:08.827884	LOG	PUSH_ACK: 02 0371 01

0:06:08.829883	LOG	PUSH_DATA: Protocol version = 02, Token = 0371, Identifier = 00, JSON = {'rxpk': [{'tmst': 2127664184, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAHQIBGgAkY/EO'}]}
0:06:08.831882	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 021d, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 2463f10e)
0:06:08.832881	LOG	Server <---------- DUT
0:06:08.834880	LOG	Repeated frame. It does not count
0:06:11.414411	LOG	PUSH_ACK: 02 0373 01
0:06:11.417410	LOG	PUSH_DATA: Protocol version = 02, Token = 0373, Identifier = 00, JSON = {'rxpk': [{'tmst': 2130233304, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAHgIBMTAk2k7x'}]}
0:06:11.418409	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 021e, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 24da4ef1)
0:06:11.419408	LOG	Server <---------- DUT
0:06:11.421407	LOG	Count = 4
0:06:13.836980	LOG	PUSH_ACK: 02 0374 01
0:06:13.838960	LOG	PUSH_DATA: Protocol version = 02, Token = 0374, Identifier = 00, JSON = {'rxpk': [{'tmst': 2132666792, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAHgIBMTAk2k7x'}]}
0:06:13.839959	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 021e, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 24da4ef1)
0:06:13.841958	LOG	Server <---------- DUT
0:06:13.842977	LOG	Repeated frame. It does not count
0:06:16.412929	LOG	PUSH_ACK: 02 0375 01
0:06:16.414927	LOG	PUSH_DATA: Protocol version = 02, Token = 0375, Identifier = 00, JSON = {'rxpk': [{'tmst': 2135235880, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAHwIB0BB/G0g2'}]}
0:06:16.416927	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 021f, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 7f1b4836)
0:06:16.417927	LOG	Server <---------- DUT
0:06:16.418927	LOG	Count = 5
0:06:16.599191	LOG	PULL_DATA: 02 65fa 02 aa555a0000240409
0:06:16.601190	LOG	PULL_ACK: 02 65fa 04
0:06:18.833919	LOG	PUSH_ACK: 02 0376 01
0:06:18.835918	LOG	PUSH_DATA: Protocol version = 02, Token = 0376, Identifier = 00, JSON = {'rxpk': [{'tmst': 2137669352, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAHwIB0BB/G0g2'}]}
0:06:18.837916	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 021f, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 7f1b4836)
0:06:18.839915	LOG	Server <---------- DUT
0:06:18.840915	LOG	Repeated frame. It does not count
0:06:21.410759	LOG	PUSH_ACK: 02 0377 01
0:06:21.412757	LOG	PUSH_DATA: Protocol version = 02, Token = 0377, Identifier = 00, JSON = {'rxpk': [{'tmst': 2140238464, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAIAIBgypwo/u+'}]}
0:06:21.413756	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0220, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 70a3fbbe)
0:06:21.414755	LOG	Server <---------- DUT
0:06:21.416754	LOG	Count = 6
0:06:23.833378	LOG	PUSH_ACK: 02 0378 01

0:06:23.835377	LOG	PUSH_DATA: Protocol version = 02, Token = 0378, Identifier = 00, JSON = {'rxpk': [{'tmst': 2142671944, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAIAIBgypwo/u+'}]}
0:06:23.837376	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0220, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 70a3fbbe)
0:06:23.838375	LOG	Server <---------- DUT
0:06:23.840374	LOG	Repeated frame. It does not count
0:06:26.408894	LOG	PUSH_ACK: 02 0379 01
0:06:26.410893	LOG	PUSH_DATA: Protocol version = 02, Token = 0379, Identifier = 00, JSON = {'rxpk': [{'tmst': 2145241048, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAIQIBzxqTKx3L'}]}
0:06:26.412891	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0221, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 932b1dcb)
0:06:26.413891	LOG	Server <---------- DUT
0:06:26.415889	LOG	Count = 7
0:06:26.679553	LOG	PULL_DATA: 02 c95a 02 aa555a0000240409
0:06:26.681553	LOG	PULL_ACK: 02 c95a 04
0:06:28.828299	LOG	PUSH_ACK: 02 037a 01
0:06:28.830299	LOG	PUSH_DATA: Protocol version = 02, Token = 037a, Identifier = 00, JSON = {'rxpk': [{'tmst': 2147674512, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAIQIBzxqTKx3L'}]}
0:06:28.832298	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0221, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 932b1dcb)
0:06:28.833299	LOG	Server <---------- DUT
0:06:28.835296	LOG	Repeated frame. It does not count
0:06:31.404936	LOG	PUSH_ACK: 02 037b 01
0:06:31.406916	LOG	PUSH_DATA: Protocol version = 02, Token = 037b, Identifier = 00, JSON = {'rxpk': [{'tmst': 2150243648, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAIgIBKEcZJWa4'}]}
0:06:31.407915	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0222, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 192566b8)
0:06:31.408915	LOG	Server <---------- DUT
0:06:31.409914	LOG	Count = 8
0:06:33.825386	LOG	PUSH_ACK: 02 037c 01
0:06:33.828384	LOG	PUSH_DATA: Protocol version = 02, Token = 037c, Identifier = 00, JSON = {'rxpk': [{'tmst': 2152677112, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAIgIBKEcZJWa4'}]}
0:06:33.830383	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0222, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 192566b8)
0:06:33.831383	LOG	Server <---------- DUT
0:06:33.833381	LOG	Repeated frame. It does not count
0:06:36.401918	LOG	PUSH_ACK: 02 037d 01
0:06:36.403919	LOG	PUSH_DATA: Protocol version = 02, Token = 037d, Identifier = 00, JSON = {'rxpk': [{'tmst': 2155246232, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAIwIBWCOCPlxj'}]}
0:06:36.405916	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0223, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 823e5c63)
0:06:36.406916	LOG	Server <---------- DUT
0:06:36.408915	LOG	Count = 9
0:06:36.759496	LOG	PULL_DATA: 02 b578 02 aa555a0000240409

0:06:36.764493	LOG	PULL_ACK: 02 b578 04
0:06:38.821836	LOG	PUSH_ACK: 02 037e 01
0:06:38.823833	LOG	PUSH_DATA: Protocol version = 02, Token = 037e, Identifier = 00, JSON = {'rxpk': [{'tmst': 2157679704, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAIwIBWCOCPlxj'}]}
0:06:38.825833	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0223, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 823e5c63)
0:06:38.827832	LOG	Server <---------- DUT
0:06:38.828831	LOG	Repeated frame. It does not count
0:06:41.404238	LOG	PUSH_ACK: 02 0380 01
0:06:41.406237	LOG	PUSH_DATA: Protocol version = 02, Token = 0380, Identifier = 00, JSON = {'rxpk': [{'tmst': 2160248800, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAJAIBjgmxDlhO'}]}
0:06:41.408236	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0224, FOpts:), FPort: 01, FRMPayload: 0034, MIC: b10e584e)
0:06:41.410235	LOG	Server <---------- DUT
0:06:41.411234	LOG	Count = 10
0:06:43.825343	LOG	PUSH_ACK: 02 0381 01
0:06:43.828342	LOG	PUSH_DATA: Protocol version = 02, Token = 0381, Identifier = 00, JSON = {'rxpk': [{'tmst': 2162682272, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAJAIBjgmxDlhO'}]}
0:06:43.830341	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0224, FOpts:), FPort: 01, FRMPayload: 0034, MIC: b10e584e)
0:06:43.831340	LOG	Server <---------- DUT
0:06:43.833340	LOG	Repeated frame. It does not count
0:06:46.401890	LOG	PUSH_ACK: 02 0382 01
0:06:46.403890	LOG	PUSH_DATA: Protocol version = 02, Token = 0382, Identifier = 00, JSON = {'rxpk': [{'tmst': 2165251368, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAJQIBNu1mSipI'}]}
0:06:46.404891	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0225, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 664a2a48)
0:06:46.406890	LOG	Server <---------- DUT
0:06:46.407887	LOG	Count = 11
0:06:46.839489	LOG	PULL_DATA: 02 90ef 02 aa555a0000240409
0:06:46.841488	LOG	PULL_ACK: 02 90ef 04
0:06:48.823360	LOG	PUSH_ACK: 02 0383 01
0:06:48.825359	LOG	PUSH_DATA: Protocol version = 02, Token = 0383, Identifier = 00, JSON = {'rxpk': [{'tmst': 2167684824, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAJQIBNu1mSipI'}]}
0:06:48.827357	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0225, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 664a2a48)
0:06:48.829356	LOG	Server <---------- DUT
0:06:48.830355	LOG	Repeated frame. It does not count
0:06:51.399691	LOG	PUSH_ACK: 02 0384 01
0:06:51.402690	LOG	PUSH_DATA: Protocol version = 02, Token = 0384, Identifier = 00, JSON = {'rxpk': [{'tmst': 2170253944, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAJgIBWNx4Pe6c'}]}
0:06:51.403689	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0226, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 783dee9c)
0:06:51.405688	LOG	Server <---------- DUT

0:06:51.407687	LOG	Count = 12
0:06:53.822312	LOG	PUSH_ACK: 02 0385 01
0:06:53.824311	LOG	PUSH_DATA: Protocol version = 02, Token = 0385, Identifier = 00, JSON = {'rxpk': [{'tmst': 2172687424, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAJgIBWNx4Pe6c'}]}
0:06:53.826309	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0226, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 783dee9c)
0:06:53.828308	LOG	Server <---------- DUT
0:06:53.829308	LOG	Repeated frame. It does not count
0:06:56.398478	LOG	PUSH_ACK: 02 0386 01
0:06:56.401476	LOG	PUSH_DATA: Protocol version = 02, Token = 0386, Identifier = 00, JSON = {'rxpk': [{'tmst': 2175256536, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAJwIBaWOF0JZS'}]}
0:06:56.404475	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0227, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 85d09652)
0:06:56.408472	LOG	Server <---------- DUT
0:06:56.412470	LOG	Count = 13
0:06:56.919515	LOG	PULL_DATA: 02 fda5 02 aa555a0000240409
0:06:56.921512	LOG	PULL_ACK: 02 fda5 04
0:06:58.869403	LOG	PUSH_ACK: 02 0387 01
0:06:58.872400	LOG	PUSH_DATA: Protocol version = 02, Token = 0387, Identifier = 00, JSON = {'rxpk': [{'tmst': 2177690008, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAJwIBaWOF0JZS'}]}
0:06:58.873401	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0227, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 85d09652)
0:06:58.875400	LOG	Server <---------- DUT
0:06:58.877397	LOG	Repeated frame. It does not count
0:07:01.392370	LOG	PUSH_ACK: 02 0388 01
0:07:01.393370	LOG	PUSH_DATA: Protocol version = 02, Token = 0388, Identifier = 00, JSON = {'rxpk': [{'tmst': 2180259120, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAKAIBrnFq8HPb'}]}
0:07:01.395369	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0228, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 6af073db)
0:07:01.397370	LOG	Server <---------- DUT
0:07:01.398367	LOG	Count = 14
0:07:03.865111	LOG	PUSH_ACK: 02 0389 01
0:07:03.867110	LOG	PUSH_DATA: Protocol version = 02, Token = 0389, Identifier = 00, JSON = {'rxpk': [{'tmst': 2182692600, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAKAIBrnFq8HPb'}]}
0:07:03.869108	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0228, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 6af073db)
0:07:03.871108	LOG	Server <---------- DUT
0:07:03.872107	LOG	Repeated frame. It does not count
0:07:06.441235	LOG	PUSH_ACK: 02 038a 01
0:07:06.444232	LOG	PUSH_DATA: Protocol version = 02, Token = 038a, Identifier = 00, JSON = {'rxpk': [{'tmst': 2185261712, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAKQIBnOzadjNS'}]}
0:07:06.445232	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0229, FOpts:), FPort: 01, FRMPayload: 0034, MIC: da763352)
0:07:06.446232	LOG	Server <---------- DUT

0:07:06.447232	LOG	Count = 15
0:07:06.999464	LOG	PULL_DATA: 02 2b40 02 aa555a0000240409
0:07:07.004461	LOG	PULL_ACK: 02 2b40 04
0:07:08.863402	LOG	PUSH_ACK: 02 038b 01
0:07:08.865401	LOG	PUSH_DATA: Protocol version = 02, Token = 038b, Identifier = 00, JSON = {'rxpk': [{'tmst': 2187695184, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAKQIBnOzadjNS'}]}
0:07:08.867400	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0229, FOpts:), FPort: 01, FRMPayload: 0034, MIC: da763352)
0:07:08.869399	LOG	Server <---------- DUT
0:07:08.870398	LOG	Repeated frame. It does not count
0:07:11.404324	LOG	PUSH_ACK: 02 038d 01
0:07:11.406323	LOG	PUSH_DATA: Protocol version = 02, Token = 038d, Identifier = 00, JSON = {'rxpk': [{'tmst': 2190264296, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAKgIB+4EA4Wcz'}]}
0:07:11.407322	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 022a, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 00e16733)
0:07:11.409322	LOG	Server <---------- DUT
0:07:11.410321	LOG	Count = 16
0:07:13.878218	LOG	PUSH_ACK: 02 038e 01
0:07:13.880217	LOG	PUSH_DATA: Protocol version = 02, Token = 038e, Identifier = 00, JSON = {'rxpk': [{'tmst': 2192697744, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -43, 'size': 15, 'data': 'QCAgICDAKgIB+4EA4Wcz'}]}
0:07:13.882215	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 022a, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 00e16733)
0:07:13.884214	LOG	Server <---------- DUT
0:07:13.886213	LOG	Repeated frame. It does not count
0:07:16.402436	LOG	PUSH_ACK: 02 038f 01
0:07:16.405436	LOG	PUSH_DATA: Protocol version = 02, Token = 038f, Identifier = 00, JSON = {'rxpk': [{'tmst': 2195266880, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAKwIBNRnURdn4'}]}
0:07:16.406436	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 022b, FOpts:), FPort: 01, FRMPayload: 0034, MIC: d445d9f8)
0:07:16.407436	LOG	Server <---------- DUT
0:07:16.408435	LOG	Count = 17
0:07:17.079607	LOG	PULL_DATA: 02 6455 02 aa555a0000240409
0:07:17.080606	LOG	PULL_ACK: 02 6455 04
0:07:18.876476	LOG	PUSH_ACK: 02 0390 01
0:07:18.878474	LOG	PUSH_DATA: Protocol version = 02, Token = 0390, Identifier = 00, JSON = {'rxpk': [{'tmst': 2197700360, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAKwIBNRnURdn4'}]}
0:07:18.880473	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 022b, FOpts:), FPort: 01, FRMPayload: 0034, MIC: d445d9f8)
0:07:18.882473	LOG	Server <---------- DUT
0:07:18.883472	LOG	Repeated frame. It does not count
0:07:21.453130	LOG	PUSH_ACK: 02 0391 01
0:07:21.455129	LOG	PUSH_DATA: Protocol version = 02, Token = 0391, Identifier = 00, JSON = {'rxpk': [{'tmst': 2200269464, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -47, 'size': 15, 'data': 'QCAgICDALAIB25fm5Mhp'}]}

0:07:21.456127	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 022c, FOpts:), FPort: 01, FRMPayload: 0034, MIC: e6e4c869)
0:07:21.457128	LOG	Server <---------- DUT
0:07:21.458127	LOG	Count = 18
0:07:23.875551	LOG	PUSH_ACK: 02 0392 01
0:07:23.881548	LOG	PUSH_DATA: Protocol version = 02, Token = 0392, Identifier = 00, JSON = {'rxpk': [{'tmst': 2202702912, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICDALAIB25fm5Mhp'}]}
0:07:23.885546	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 022c, FOpts:), FPort: 01, FRMPayload: 0034, MIC: e6e4c869)
0:07:23.889543	LOG	Server <---------- DUT
0:07:23.894540	LOG	Repeated frame. It does not count
0:07:26.455080	LOG	PUSH_ACK: 02 0393 01
0:07:26.460078	LOG	PUSH_DATA: Protocol version = 02, Token = 0393, Identifier = 00, JSON = {'rxpk': [{'tmst': 2205272048, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICDALQIBeed61JW/'}]}
0:07:26.463075	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 022d, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 7ad495bf)
0:07:26.466074	LOG	Server <---------- DUT
0:07:26.470072	LOG	Count = 19
0:07:27.168814	LOG	PULL_DATA: 02 4235 02 aa555a0000240409
0:07:27.170815	LOG	PULL_ACK: 02 4235 04
0:07:28.877573	LOG	PUSH_ACK: 02 0394 01
0:07:28.879573	LOG	PUSH_DATA: Protocol version = 02, Token = 0394, Identifier = 00, JSON = {'rxpk': [{'tmst': 2207705528, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICDALQIBeed61JW/'}]}
0:07:28.881571	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 022d, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 7ad495bf)
0:07:28.882572	LOG	Server <---------- DUT
0:07:28.883571	LOG	Repeated frame. It does not count
0:07:31.452873	LOG	PUSH_ACK: 02 0395 01
0:07:31.454872	LOG	PUSH_DATA: Protocol version = 02, Token = 0395, Identifier = 00, JSON = {'rxpk': [{'tmst': 2210274640, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICDALgIBrVwAhowm'}]}
0:07:31.456871	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 022e, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 00868c26)
0:07:31.457870	LOG	Server <---------- DUT
0:07:31.458870	LOG	Count = 20
0:07:33.874114	LOG	PUSH_ACK: 02 0396 01
0:07:33.876113	LOG	PUSH_DATA: Protocol version = 02, Token = 0396, Identifier = 00, JSON = {'rxpk': [{'tmst': 2212708096, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICDALgIBrVwAhowm'}]}
0:07:33.877114	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 022e, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 00868c26)
0:07:33.879111	LOG	Server <---------- DUT
0:07:33.880111	LOG	Repeated frame. It does not count
0:07:36.450002	LOG	PUSH_ACK: 02 0397 01
0:07:36.451999	LOG	PUSH_DATA: Protocol version = 02, Token = 0397, Identifier = 00, JSON = {'rxpk': [{'tmst': 2215277224, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICDALwIBqO3RnVMy'}]}

0:07:36.453002	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 022f, FOpts:), FPort: 01, FRMPayload: 0034, MIC: d19d5332)
0:07:36.454999	LOG	Server <---------- DUT
0:07:36.455998	LOG	Count = 21
0:07:37.248997	LOG	PULL_DATA: 02 ab33 02 aa555a0000240409
0:07:37.253994	LOG	PULL_ACK: 02 ab33 04
0:07:38.872073	LOG	PUSH_ACK: 02 0398 01
0:07:38.874070	LOG	PUSH_DATA: Protocol version = 02, Token = 0398, Identifier = 00, JSON = {'rxpk': [{'tmst': 2217710688, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICDALwIBqO3RnVMy'}]}
0:07:38.876070	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 022f, FOpts:), FPort: 01, FRMPayload: 0034, MIC: d19d5332)
0:07:38.878068	LOG	Server <---------- DUT
0:07:38.879068	LOG	Repeated frame. It does not count
0:07:41.455603	LOG	PUSH_ACK: 02 039a 01
0:07:41.457602	LOG	PUSH_DATA: Protocol version = 02, Token = 039a, Identifier = 00, JSON = {'rxpk': [{'tmst': 2220279808, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAMAIBjsdAnGOm'}]}
0:07:41.459600	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0230, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 409c63a6)
0:07:41.460600	LOG	Server <---------- DUT
0:07:41.462599	LOG	Count = 22
0:07:43.877064	LOG	PUSH_ACK: 02 039b 01
0:07:43.882066	LOG	PUSH_DATA: Protocol version = 02, Token = 039b, Identifier = 00, JSON = {'rxpk': [{'tmst': 2222713272, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAMAIBjsdAnGOm'}]}
0:07:43.884060	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0230, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 409c63a6)
0:07:43.885058	LOG	Server <---------- DUT
0:07:43.886057	LOG	Repeated frame. It does not count
0:07:46.454112	LOG	PUSH_ACK: 02 039c 01
0:07:46.456109	LOG	PUSH_DATA: Protocol version = 02, Token = 039c, Identifier = 00, JSON = {'rxpk': [{'tmst': 2225282400, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAMQIBIYkT79xe'}]}
0:07:46.458108	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0231, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 13efdc5e)
0:07:46.459108	LOG	Server <---------- DUT
0:07:46.460107	LOG	Count = 23
0:07:47.328921	LOG	PULL_DATA: 02 7138 02 aa555a0000240409
0:07:47.330911	LOG	PULL_ACK: 02 7138 04
0:07:48.874071	LOG	PUSH_ACK: 02 039d 01
0:07:48.876071	LOG	PUSH_DATA: Protocol version = 02, Token = 039d, Identifier = 00, JSON = {'rxpk': [{'tmst': 2227715872, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAMQIBIYkT79xe'}]}
0:07:48.878069	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0231, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 13efdc5e)
0:07:48.879068	LOG	Server <---------- DUT
0:07:48.880069	LOG	Repeated frame. It does not count
0:07:51.449929	LOG	PUSH_ACK: 02 039e 01
0:07:51.451928	LOG	PUSH_DATA: Protocol version = 02, Token = 039e, Identifier = 00, JSON = {'rxpk': [{'tmst': 2230284992, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAMgIBovNtIH7Z'}]}
0:07:51.452927	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0232, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 6d207ed9)
0:07:51.453927	LOG	Server <---------- DUT
0:07:51.455926	LOG	Count = 24
0:07:53.871444	LOG	PUSH_ACK: 02 039f 01
0:07:53.873443	LOG	PUSH_DATA: Protocol version = 02, Token = 039f, Identifier = 00, JSON = {'rxpk': [{'tmst': 2232718456, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAMgIBovNtIH7Z'}]}
0:07:53.874413	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0232, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 6d207ed9)
0:07:53.875414	LOG	Server <---------- DUT
0:07:53.877412	LOG	Repeated frame. It does not count
0:07:56.447461	LOG	PUSH_ACK: 02 03a0 01
0:07:56.449459	LOG	PUSH_DATA: Protocol version = 02, Token = 03a0, Identifier = 00, JSON = {'rxpk': [{'tmst': 2235287568, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAMwIBjPM7D/aw'}]}
0:07:56.450459	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0233, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 3b0ff6b0)
0:07:56.452459	LOG	Server <---------- DUT
0:07:56.453458	LOG	Count = 25
0:07:57.408914	LOG	PULL_DATA: 02 e2cf 02 aa555a0000240409
0:07:57.410913	LOG	PULL_ACK: 02 e2cf 04
0:07:58.867291	LOG	PUSH_ACK: 02 03a1 01
0:07:58.868290	LOG	PUSH_DATA: Protocol version = 02, Token = 03a1, Identifier = 00, JSON = {'rxpk': [{'tmst': 2237721056, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAMwIBjPM7D/aw'}]}
0:07:58.870289	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0233, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 3b0ff6b0)
0:07:58.871289	LOG	Server <---------- DUT
0:07:58.872288	LOG	Repeated frame. It does not count
0:08:01.442018	LOG	PUSH_ACK: 02 03a2 01
0:08:01.444017	LOG	PUSH_DATA: Protocol version = 02, Token = 03a2, Identifier = 00, JSON = {'rxpk': [{'tmst': 2240290160, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICDANAIBYFZBTnL/'}]}
0:08:01.445016	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0234, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 414e72ff)
0:08:01.446017	LOG	Server <---------- DUT
0:08:01.448015	LOG	Count = 26
0:08:03.863227	LOG	PUSH_ACK: 02 03a3 01
0:08:03.866226	LOG	PUSH_DATA: Protocol version = 02, Token = 03a3, Identifier = 00, JSON = {'rxpk': [{'tmst': 2242723632, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICDANAIBYFZBTnL/'}]}
0:08:03.868225	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0234, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 414e72ff)
0:08:03.869224	LOG	Server <---------- DUT
0:08:03.871223	LOG	Repeated frame. It does not count
0:08:06.440342	LOG	PUSH_ACK: 02 03a4 01
0:08:06.442342	LOG	PUSH_DATA: Protocol version = 02, Token = 03a4, Identifier = 00, JSON = {'rxpk': [{'tmst': 2245292752, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICDANQIBHJ9wfHNG'}]}
0:08:06.444341	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0235, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 707c7346)
0:08:06.445341	LOG	Server <---------- DUT
0:08:06.446339	LOG	Count = 27
0:08:07.488382	LOG	PULL_DATA: 02 dc8d 02 aa555a0000240409
0:08:07.493379	LOG	PULL_ACK: 02 dc8d 04
0:08:08.860836	LOG	PUSH_ACK: 02 03a5 01
0:08:08.862835	LOG	PUSH_DATA: Protocol version = 02, Token = 03a5, Identifier = 00, JSON = {'rxpk': [{'tmst': 2247726216, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICDANQIBHJ9wfHNG'}]}
0:08:08.864833	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0235, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 707c7346)
0:08:08.866832	LOG	Server <---------- DUT
0:08:08.867831	LOG	Repeated frame. It does not count
0:08:11.445354	LOG	PUSH_ACK: 02 03a7 01
0:08:11.450351	LOG	PUSH_DATA: Protocol version = 02, Token = 03a7, Identifier = 00, JSON = {'rxpk': [{'tmst': 2250295336, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICDANgIBWcxhom8v'}]}
0:08:11.453349	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0236, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 61a26f2f)
0:08:11.454349	LOG	Server <---------- DUT
0:08:11.456348	LOG	Count = 28
0:08:13.869570	LOG	PUSH_ACK: 02 03a8 01
0:08:13.871567	LOG	PUSH_DATA: Protocol version = 02, Token = 03a8, Identifier = 00, JSON = {'rxpk': [{'tmst': 2252728824, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICDANgIBWcxhom8v'}]}
0:08:13.872569	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0236, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 61a26f2f)
0:08:13.874568	LOG	Server <---------- DUT
0:08:13.875567	LOG	Repeated frame. It does not count
0:08:16.445495	LOG	PUSH_ACK: 02 03a9 01
0:08:16.446494	LOG	PUSH_DATA: Protocol version = 02, Token = 03a9, Identifier = 00, JSON = {'rxpk': [{'tmst': 2255297928, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICDANwIBNWZ1h+Id'}]}
0:08:16.448493	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0237, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 7587e21d)
0:08:16.449492	LOG	Server <---------- DUT
0:08:16.450492	LOG	Count = 29
0:08:17.568701	LOG	PULL_DATA: 02 622b 02 aa555a0000240409
0:08:17.571699	LOG	PULL_ACK: 02 622b 04
0:08:21.436632	LOG	PUSH_ACK: 02 03ab 01
0:08:21.438631	LOG	PUSH_DATA: Protocol version = 02, Token = 03ab, Identifier = 00, JSON = {'rxpk': [{'tmst': 2260300512, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAOAIByFUMFMHt'}]}
0:08:21.440630	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0238, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 0c14c1ed)
0:08:21.442629	LOG	Server <---------- DUT
0:08:21.443628	LOG	Count = 30
0:08:23.910437	LOG	PUSH_ACK: 02 03ac 01

0:08:23.911437	LOG	PUSH_DATA: Protocol version = 02, Token = 03ac, Identifier = 00, JSON = {'rxpk': [{'tmst': 2262733968, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAOAIByFUMFMHt'}]}
0:08:23.913435	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0238, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 0c14c1ed)
0:08:23.914434	LOG	Server <---------- DUT
0:08:23.916433	LOG	Repeated frame. It does not count
0:08:26.486056	LOG	PUSH_ACK: 02 03ad 01
0:08:26.488055	LOG	PUSH_DATA: Protocol version = 02, Token = 03ad, Identifier = 00, JSON = {'rxpk': [{'tmst': 2265303096, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAOQIB2TFZcMdI'}]}
0:08:26.490053	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0239, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 5970c748)
0:08:26.491053	LOG	Server <---------- DUT
0:08:26.493051	LOG	Count = 31
0:08:27.648309	LOG	PULL_DATA: 02 a39f 02 aa555a0000240409
0:08:27.650308	LOG	PULL_ACK: 02 a39f 04
0:08:28.908175	LOG	PUSH_ACK: 02 03ae 01
0:08:28.911173	LOG	PUSH_DATA: Protocol version = 02, Token = 03ae, Identifier = 00, JSON = {'rxpk': [{'tmst': 2267736552, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAOQIB2TFZcMdI'}]}
0:08:28.912173	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0239, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 5970c748)
0:08:28.914171	LOG	Server <---------- DUT
0:08:28.915171	LOG	Repeated frame. It does not count
0:08:31.484707	LOG	PUSH_ACK: 02 03af 01
0:08:31.486706	LOG	PUSH_DATA: Protocol version = 02, Token = 03af, Identifier = 00, JSON = {'rxpk': [{'tmst': 2270305688, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAOgIBQ4Fl2tqT'}]}
0:08:31.488705	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 023a, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 65dada93)
0:08:31.489705	LOG	Server <---------- DUT
0:08:31.491703	LOG	Count = 32
0:08:33.906364	LOG	PUSH_ACK: 02 03b0 01
0:08:33.908364	LOG	PUSH_DATA: Protocol version = 02, Token = 03b0, Identifier = 00, JSON = {'rxpk': [{'tmst': 2272739160, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAOgIBQ4Fl2tqT'}]}
0:08:33.910364	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 023a, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 65dada93)
0:08:33.911364	LOG	Server <---------- DUT
0:08:33.912363	LOG	Repeated frame. It does not count
0:08:36.481898	LOG	PUSH_ACK: 02 03b1 01
0:08:36.483897	LOG	PUSH_DATA: Protocol version = 02, Token = 03b1, Identifier = 00, JSON = {'rxpk': [{'tmst': 2275308280, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAOwIBNddfPY35'}]}
0:08:36.485896	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 023b, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 5f3d8df9)
0:08:36.486895	LOG	Server <---------- DUT
0:08:36.488894	LOG	Count = 33
0:08:37.728189	LOG	PULL_DATA: 02 1daa 02 aa555a0000240409

0:08:37.733186	LOG	PULL_ACK: 02 1daa 04
0:08:38.902519	LOG	PUSH_ACK: 02 03b2 01
0:08:38.905518	LOG	PUSH_DATA: Protocol version = 02, Token = 03b2, Identifier = 00, JSON = {'rxpk': [{'tmst': 2277741752, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAOwIBNddfPY35'}]}
0:08:38.907517	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 023b, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 5f3d8df9)
0:08:38.908516	LOG	Server <---------- DUT
0:08:38.910515	LOG	Repeated frame. It does not count
0:08:41.487614	LOG	PUSH_ACK: 02 03b4 01
0:08:41.489615	LOG	PUSH_DATA: Protocol version = 02, Token = 03b4, Identifier = 00, JSON = {'rxpk': [{'tmst': 2280310856, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAPAIBiC/JRgGo'}]}
0:08:41.491612	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 023c, FOpts:), FPort: 01, FRMPayload: 0034, MIC: c94601a8)
0:08:41.492640	LOG	Server <---------- DUT
0:08:41.494613	LOG	Count = 34
0:08:43.909513	LOG	PUSH_ACK: 02 03b5 01
0:08:43.911512	LOG	PUSH_DATA: Protocol version = 02, Token = 03b5, Identifier = 00, JSON = {'rxpk': [{'tmst': 2282744344, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAPAIBiC/JRgGo'}]}
0:08:43.913511	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 023c, FOpts:), FPort: 01, FRMPayload: 0034, MIC: c94601a8)
0:08:43.914510	LOG	Server <---------- DUT
0:08:43.916509	LOG	Repeated frame. It does not count
0:08:46.486211	LOG	PUSH_ACK: 02 03b6 01
0:08:46.488210	LOG	PUSH_DATA: Protocol version = 02, Token = 03b6, Identifier = 00, JSON = {'rxpk': [{'tmst': 2285313448, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAPQIBpuwkeLmv'}]}
0:08:46.489209	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 023d, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 2478b9af)
0:08:46.490209	LOG	Server <---------- DUT
0:08:46.491208	LOG	Count = 35
0:08:47.808575	LOG	PULL_DATA: 02 3182 02 aa555a0000240409
0:08:47.810574	LOG	PULL_ACK: 02 3182 04
0:08:48.906950	LOG	PUSH_ACK: 02 03b7 01
0:08:48.908949	LOG	PUSH_DATA: Protocol version = 02, Token = 03b7, Identifier = 00, JSON = {'rxpk': [{'tmst': 2287746936, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAPQIBpuwkeLmv'}]}
0:08:48.910948	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 023d, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 2478b9af)
0:08:48.911947	LOG	Server <---------- DUT
0:08:48.913946	LOG	Repeated frame. It does not count
0:08:51.482503	LOG	PUSH_ACK: 02 03b8 01
0:08:51.484482	LOG	PUSH_DATA: Protocol version = 02, Token = 03b8, Identifier = 00, JSON = {'rxpk': [{'tmst': 2290316032, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAPgIBt/wnFKSm'}]}
0:08:51.485483	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 023e, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 2714a4a6)
0:08:51.487482	LOG	Server <---------- DUT

0:08:51.489480	LOG	Count = 36
0:08:53.904434	LOG	PUSH_ACK: 02 03b9 01
0:08:53.906434	LOG	PUSH_DATA: Protocol version = 02, Token = 03b9, Identifier = 00, JSON = {'rxpk': [{'tmst': 2292749512, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAPgIBt/wnFKSm'}]}
0:08:53.907432	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 023e, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 2714a4a6)
0:08:53.908434	LOG	Server <---------- DUT
0:08:53.910432	LOG	Repeated frame. It does not count
0:08:56.479515	LOG	PUSH_ACK: 02 03ba 01
0:08:56.481514	LOG	PUSH_DATA: Protocol version = 02, Token = 03ba, Identifier = 00, JSON = {'rxpk': [{'tmst': 2295318616, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAPwIBvErJQqI1'}]}
0:08:56.482513	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 023f, FOpts:), FPort: 01, FRMPayload: 0034, MIC: c942a235)
0:08:56.483515	LOG	Server <---------- DUT
0:08:56.485514	LOG	Count = 37
0:08:57.888770	LOG	PULL_DATA: 02 a4fa 02 aa555a0000240409
0:08:57.890768	LOG	PULL_ACK: 02 a4fa 04
0:08:58.900193	LOG	PUSH_ACK: 02 03bb 01
0:08:58.902193	LOG	PUSH_DATA: Protocol version = 02, Token = 03bb, Identifier = 00, JSON = {'rxpk': [{'tmst': 2297752080, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAPwIBvErJQqI1'}]}
0:08:58.904192	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 023f, FOpts:), FPort: 01, FRMPayload: 0034, MIC: c942a235)
0:08:58.905191	LOG	Server <---------- DUT
0:08:58.906192	LOG	Repeated frame. It does not count
0:09:01.475790	LOG	PUSH_ACK: 02 03bc 01
0:09:01.478789	LOG	PUSH_DATA: Protocol version = 02, Token = 03bc, Identifier = 00, JSON = {'rxpk': [{'tmst': 2300321216, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAQAIBrIx2c7TF'}]}
0:09:01.480788	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0240, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 7673b4c5)
0:09:01.481787	LOG	Server <---------- DUT
0:09:01.483786	LOG	Count = 38
0:09:03.898549	LOG	PUSH_ACK: 02 03bd 01
0:09:03.900548	LOG	PUSH_DATA: Protocol version = 02, Token = 03bd, Identifier = 00, JSON = {'rxpk': [{'tmst': 2302754688, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAQAIBrIx2c7TF'}]}
0:09:03.902547	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0240, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 7673b4c5)
0:09:03.904546	LOG	Server <---------- DUT
0:09:03.905545	LOG	Repeated frame. It does not count
0:09:06.474535	LOG	PUSH_ACK: 02 03be 01
0:09:06.476534	LOG	PUSH_DATA: Protocol version = 02, Token = 03be, Identifier = 00, JSON = {'rxpk': [{'tmst': 2305323800, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAQQIBAzsPJYvO'}]}
0:09:06.478534	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0241, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 0f258bce)
0:09:06.479532	LOG	Server <---------- DUT

0:09:06.480532	LOG	Count = 39
0:09:07.968132	LOG	PULL_DATA: 02 dc5a 02 aa555a0000240409
0:09:07.973130	LOG	PULL_ACK: 02 dc5a 04
0:09:08.895754	LOG	PUSH_ACK: 02 03bf 01
0:09:08.898752	LOG	PUSH_DATA: Protocol version = 02, Token = 03bf, Identifier = 00, JSON = {'rxpk': [{'tmst': 2307757264, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAQQIBAzsPJYvO'}]}
0:09:08.899751	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0241, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 0f258bce)
0:09:08.901750	LOG	Server <---------- DUT
0:09:08.903749	LOG	Repeated frame. It does not count
0:09:11.487440	LOG	PUSH_ACK: 02 03c1 01
0:09:11.489438	LOG	PUSH_DATA: Protocol version = 02, Token = 03c1, Identifier = 00, JSON = {'rxpk': [{'tmst': 2310326384, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAQgIBlZddOD2U'}]}
0:09:11.490437	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0242, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 5d383d94)
0:09:11.491437	LOG	Server <---------- DUT
0:09:11.492437	LOG	Count = 40
0:09:13.908702	LOG	PUSH_ACK: 02 03c2 01
0:09:13.911673	LOG	PUSH_DATA: Protocol version = 02, Token = 03c2, Identifier = 00, JSON = {'rxpk': [{'tmst': 2312759864, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAQgIBlZddOD2U'}]}
0:09:13.912701	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0242, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 5d383d94)
0:09:13.914668	LOG	Server <---------- DUT
0:09:13.915667	LOG	Repeated frame. It does not count
0:09:16.485393	LOG	PUSH_ACK: 02 03c3 01
0:09:16.487392	LOG	PUSH_DATA: Protocol version = 02, Token = 03c3, Identifier = 00, JSON = {'rxpk': [{'tmst': 2315328976, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAQwIBA/f54K1+'}]}
0:09:16.489391	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0243, FOpts:), FPort: 01, FRMPayload: 0034, MIC: f9e0ad7e)
0:09:16.490391	LOG	Server <---------- DUT
0:09:16.492390	LOG	Count = 41
0:09:18.048503	LOG	PULL_DATA: 02 736c 02 aa555a0000240409
0:09:18.050502	LOG	PULL_ACK: 02 736c 04
0:09:18.907014	LOG	PUSH_ACK: 02 03c4 01
0:09:18.910013	LOG	PUSH_DATA: Protocol version = 02, Token = 03c4, Identifier = 00, JSON = {'rxpk': [{'tmst': 2317762472, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAQwIBA/f54K1+'}]}
0:09:18.912012	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0243, FOpts:), FPort: 01, FRMPayload: 0034, MIC: f9e0ad7e)
0:09:18.913011	LOG	Server <---------- DUT
0:09:18.915010	LOG	Repeated frame. It does not count
0:09:21.484080	LOG	PUSH_ACK: 02 03c5 01
0:09:21.486079	LOG	PUSH_DATA: Protocol version = 02, Token = 03c5, Identifier = 00, JSON = {'rxpk': [{'tmst': 2320331576, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICDARAIBFamQPb6B'}]}

0:09:21.488078	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0244, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 903dbe81)
0:09:21.490077	LOG	Server <---------- DUT
0:09:21.492076	LOG	Count = 42
0:09:23.906701	LOG	PUSH_ACK: 02 03c6 01
0:09:23.908699	LOG	PUSH_DATA: Protocol version = 02, Token = 03c6, Identifier = 00, JSON = {'rxpk': [{'tmst': 2322765048, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICDARAIBFamQPb6B'}]}
0:09:23.910698	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0244, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 903dbe81)
0:09:23.911697	LOG	Server <---------- DUT
0:09:23.913697	LOG	Repeated frame. It does not count
0:09:26.483583	LOG	PUSH_ACK: 02 03c7 01
0:09:26.485578	LOG	PUSH_DATA: Protocol version = 02, Token = 03c7, Identifier = 00, JSON = {'rxpk': [{'tmst': 2325334168, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICDARQIBsTxPNEw3'}]}
0:09:26.487577	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0245, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 4f344c37)
0:09:26.488575	LOG	Server <---------- DUT
0:09:26.490575	LOG	Count = 43
0:09:28.128653	LOG	PULL_DATA: 02 4970 02 aa555a0000240409
0:09:28.130651	LOG	PULL_ACK: 02 4970 04
0:09:28.905211	LOG	PUSH_ACK: 02 03c8 01
0:09:28.907209	LOG	PUSH_DATA: Protocol version = 02, Token = 03c8, Identifier = 00, JSON = {'rxpk': [{'tmst': 2327767656, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICDARQIBsTxPNEw3'}]}
0:09:28.908209	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0245, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 4f344c37)
0:09:28.909209	LOG	Server <---------- DUT
0:09:28.911207	LOG	Repeated frame. It does not count
0:09:31.480173	LOG	PUSH_ACK: 02 03c9 01
0:09:31.483172	LOG	PUSH_DATA: Protocol version = 02, Token = 03c9, Identifier = 00, JSON = {'rxpk': [{'tmst': 2330336744, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICDARgIBgGljqGyI'}]}
0:09:31.484172	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0246, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 63a86c88)
0:09:31.486171	LOG	Server <---------- DUT
0:09:31.488170	LOG	Count = 44
0:09:33.954059	LOG	PUSH_ACK: 02 03ca 01
0:09:33.957058	LOG	PUSH_DATA: Protocol version = 02, Token = 03ca, Identifier = 00, JSON = {'rxpk': [{'tmst': 2332770208, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICDARgIBgGljqGyI'}]}
0:09:33.959056	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0246, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 63a86c88)
0:09:33.960056	LOG	Server <---------- DUT
0:09:33.962054	LOG	Repeated frame. It does not count
0:09:36.479623	LOG	PUSH_ACK: 02 03cb 01
0:09:36.480622	LOG	PUSH_DATA: Protocol version = 02, Token = 03cb, Identifier = 00, JSON = {'rxpk': [{'tmst': 2335339336, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICDARwIB4i8jf0hD'}]}

0:09:36.482637	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0247, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 237f4843)
0:09:36.484619	LOG	Server <---------- DUT
0:09:36.485619	LOG	Count = 45
0:09:38.208698	LOG	PULL_DATA: 02 1174 02 aa555a0000240409
0:09:38.211695	LOG	PULL_ACK: 02 1174 04
0:09:38.951628	LOG	PUSH_ACK: 02 03cc 01
0:09:38.953627	LOG	PUSH_DATA: Protocol version = 02, Token = 03cc, Identifier = 00, JSON = {'rxpk': [{'tmst': 2337772800, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICDARwIB4i8jf0hD'}]}
0:09:38.955625	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0247, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 237f4843)
0:09:38.957624	LOG	Server <---------- DUT
0:09:38.959623	LOG	Repeated frame. It does not count
0:09:41.486247	LOG	PUSH_ACK: 02 03ce 01
0:09:41.488242	LOG	PUSH_DATA: Protocol version = 02, Token = 03ce, Identifier = 00, JSON = {'rxpk': [{'tmst': 2340341928, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -47, 'size': 15, 'data': 'QCAgICDASAIBScmzr4XN'}]}
0:09:41.489241	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0248, FOpts:), FPort: 01, FRMPayload: 0034, MIC: b3af85cd)
0:09:41.491244	LOG	Server <---------- DUT
0:09:41.492269	LOG	Count = 46
0:09:43.959005	LOG	PUSH_ACK: 02 03cf 01
0:09:43.962004	LOG	PUSH_DATA: Protocol version = 02, Token = 03cf, Identifier = 00, JSON = {'rxpk': [{'tmst': 2342775424, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICDASAIBScmzr4XN'}]}
0:09:43.964003	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0248, FOpts:), FPort: 01, FRMPayload: 0034, MIC: b3af85cd)
0:09:43.965002	LOG	Server <---------- DUT
0:09:43.967001	LOG	Repeated frame. It does not count
0:09:46.484320	LOG	PUSH_ACK: 02 03d0 01
0:09:46.486319	LOG	PUSH_DATA: Protocol version = 02, Token = 03d0, Identifier = 00, JSON = {'rxpk': [{'tmst': 2345344504, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICDASQIBIXqgAS2G'}]}
0:09:46.487320	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0249, FOpts:), FPort: 01, FRMPayload: 0034, MIC: a0012d86)
0:09:46.488319	LOG	Server <---------- DUT
0:09:46.490316	LOG	Count = 47
0:09:48.287939	LOG	PULL_DATA: 02 b076 02 aa555a0000240409
0:09:48.289940	LOG	PULL_ACK: 02 b076 04
0:09:48.956559	LOG	PUSH_ACK: 02 03d1 01
0:09:48.959556	LOG	PUSH_DATA: Protocol version = 02, Token = 03d1, Identifier = 00, JSON = {'rxpk': [{'tmst': 2347777960, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 7.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICDASQIBIXqgAS2G'}]}
0:09:48.960557	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0249, FOpts:), FPort: 01, FRMPayload: 0034, MIC: a0012d86)
0:09:48.962555	LOG	Server <---------- DUT
0:09:48.963555	LOG	Repeated frame. It does not count
0:09:51.482282	LOG	PUSH_ACK: 02 03d2 01
0:09:51.484280	LOG	PUSH_DATA: Protocol version = 02, Token = 03d2, Identifier = 00, JSON = {'rxpk': [{'tmst': 2350347088, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICDASgIBzFpjHqAa'}]}
0:09:51.485280	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 024a, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 631ea01a)
0:09:51.486279	LOG	Server <---------- DUT
0:09:51.487278	LOG	Count = 48
0:09:53.954611	LOG	PUSH_ACK: 02 03d3 01
0:09:53.956610	LOG	PUSH_DATA: Protocol version = 02, Token = 03d3, Identifier = 00, JSON = {'rxpk': [{'tmst': 2352780568, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICDASgIBzFpjHqAa'}]}
0:09:53.958609	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 024a, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 631ea01a)
0:09:53.959608	LOG	Server <---------- DUT
0:09:53.961607	LOG	Repeated frame. It does not count
0:09:56.531491	LOG	PUSH_ACK: 02 03d4 01
0:09:56.537488	LOG	PUSH_DATA: Protocol version = 02, Token = 03d4, Identifier = 00, JSON = {'rxpk': [{'tmst': 2355349672, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICDASwIBDZl3A/iv'}]}
0:09:56.539487	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 024b, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 7703f8af)
0:09:56.543485	LOG	Server <---------- DUT
0:09:56.544502	LOG	Count = 49
0:09:58.368435	LOG	PULL_DATA: 02 caf2 02 aa555a0000240409
0:09:58.370434	LOG	PULL_ACK: 02 caf2 04
0:09:58.954103	LOG	PUSH_ACK: 02 03d5 01
0:09:58.956101	LOG	PUSH_DATA: Protocol version = 02, Token = 03d5, Identifier = 00, JSON = {'rxpk': [{'tmst': 2357783152, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -47, 'size': 15, 'data': 'QCAgICDASwIBDZl3A/iv'}]}
0:09:58.958099	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 024b, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 7703f8af)
0:09:58.960098	LOG	Server <---------- DUT
0:09:58.962099	LOG	Repeated frame. It does not count
0:10:01.527788	LOG	PUSH_ACK: 02 03d6 01
0:10:01.530785	LOG	PUSH_DATA: Protocol version = 02, Token = 03d6, Identifier = 00, JSON = {'rxpk': [{'tmst': 2360352256, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICDATAIB5R6lokGN'}]}
0:10:01.531784	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 024c, FOpts:), FPort: 01, FRMPayload: 0034, MIC: a5a2418d)
0:10:01.532786	LOG	Server <---------- DUT
0:10:01.534783	LOG	Count = 50
0:10:03.947743	LOG	PUSH_ACK: 02 03d7 01
0:10:03.949742	LOG	PUSH_DATA: Protocol version = 02, Token = 03d7, Identifier = 00, JSON = {'rxpk': [{'tmst': 2362785728, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICDATAIB5R6lokGN'}]}
0:10:03.951742	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 024c, FOpts:), FPort: 01, FRMPayload: 0034, MIC: a5a2418d)
0:10:03.952740	LOG	Server <---------- DUT
0:10:03.953740	LOG	Repeated frame. It does not count
0:10:06.523071	LOG	PUSH_ACK: 02 03d8 01
0:10:06.525070	LOG	PUSH_DATA: Protocol version = 02, Token = 03d8, Identifier = 00, JSON = {'rxpk': [{'tmst': 2365354840, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICDATQIB8ZB7PltL'}]}
0:10:06.526068	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 024d, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 7b3e5b4b)
0:10:06.527070	LOG	Server <---------- DUT
0:10:06.528069	LOG	Count = 51
0:10:08.447896	LOG	PULL_DATA: 02 ab75 02 aa555a0000240409
0:10:08.452893	LOG	PULL_ACK: 02 ab75 04
0:10:08.942614	LOG	PUSH_ACK: 02 03d9 01
0:10:08.945612	LOG	PUSH_DATA: Protocol version = 02, Token = 03d9, Identifier = 00, JSON = {'rxpk': [{'tmst': 2367788312, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICDATQIB8ZB7PltL'}]}
0:10:08.946611	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 024d, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 7b3e5b4b)
0:10:08.948610	LOG	Server <---------- DUT
0:10:08.950609	LOG	Repeated frame. It does not count
0:10:11.525696	LOG	PUSH_ACK: 02 03db 01
0:10:11.527695	LOG	PUSH_DATA: Protocol version = 02, Token = 03db, Identifier = 00, JSON = {'rxpk': [{'tmst': 2370357440, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICDATgIBAw5bmmSk'}]}
0:10:11.528693	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 024e, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 5b9a64a4)
0:10:11.529693	LOG	Server <---------- DUT
0:10:11.530692	LOG	Count = 52
0:10:13.944948	LOG	PUSH_ACK: 02 03dc 01
0:10:13.947946	LOG	PUSH_DATA: Protocol version = 02, Token = 03dc, Identifier = 00, JSON = {'rxpk': [{'tmst': 2372790904, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICDATgIBAw5bmmSk'}]}
0:10:13.949945	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 024e, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 5b9a64a4)
0:10:13.950944	LOG	Server <---------- DUT
0:10:13.952943	LOG	Repeated frame. It does not count
0:10:16.520386	LOG	PUSH_ACK: 02 03dd 01
0:10:16.522385	LOG	PUSH_DATA: Protocol version = 02, Token = 03dd, Identifier = 00, JSON = {'rxpk': [{'tmst': 2375360024, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICDATwIB/qUISQWf'}]}
0:10:16.524385	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 024f, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 0849059f)
0:10:16.525386	LOG	Server <---------- DUT
0:10:16.526383	LOG	Count = 53
0:10:18.527971	LOG	PULL_DATA: 02 251c 02 aa555a0000240409
0:10:18.529970	LOG	PULL_ACK: 02 251c 04
0:10:18.941736	LOG	PUSH_ACK: 02 03de 01
0:10:18.943735	LOG	PUSH_DATA: Protocol version = 02, Token = 03de, Identifier = 00, JSON = {'rxpk': [{'tmst': 2377793496, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICDATwIB/qUISQWf'}]}
0:10:18.945733	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 024f, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 0849059f)
0:10:18.947732	LOG	Server <---------- DUT
0:10:18.949731	LOG	Repeated frame. It does not count
0:10:21.517261	LOG	PUSH_ACK: 02 03df 01

0:10:21.520260	LOG	PUSH_DATA: Protocol version = 02, Token = 03df, Identifier = 00, JSON = {'rxpk': [{'tmst': 2380362600, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAUAIBv5PACcpR'}]}
0:10:21.522259	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0250, FOpts:), FPort: 01, FRMPayload: 0034, MIC: c009ca51)
0:10:21.523258	LOG	Server <---------- DUT
0:10:21.525257	LOG	Count = 54
0:10:23.939718	LOG	PUSH_ACK: 02 03e0 01
0:10:23.941717	LOG	PUSH_DATA: Protocol version = 02, Token = 03e0, Identifier = 00, JSON = {'rxpk': [{'tmst': 2382796064, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAUAIBv5PACcpR'}]}
0:10:23.943716	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0250, FOpts:), FPort: 01, FRMPayload: 0034, MIC: c009ca51)
0:10:23.944715	LOG	Server <---------- DUT
0:10:23.946714	LOG	Repeated frame. It does not count
0:10:26.516251	LOG	PUSH_ACK: 02 03e1 01
0:10:26.520249	LOG	PUSH_DATA: Protocol version = 02, Token = 03e1, Identifier = 00, JSON = {'rxpk': [{'tmst': 2385365184, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAUQIB/yxjx9y+'}]}
0:10:26.524252	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0251, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 63c7dcbe)
0:10:26.528244	LOG	Server <---------- DUT
0:10:26.533242	LOG	Count = 55
0:10:28.608683	LOG	PULL_DATA: 02 ad08 02 aa555a0000240409
0:10:28.612681	LOG	PULL_ACK: 02 ad08 04
0:10:28.937919	LOG	PUSH_ACK: 02 03e2 01
0:10:28.940917	LOG	PUSH_DATA: Protocol version = 02, Token = 03e2, Identifier = 00, JSON = {'rxpk': [{'tmst': 2387798672, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAUQIB/yxjx9y+'}]}
0:10:28.942916	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0251, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 63c7dcbe)
0:10:28.943918	LOG	Server <---------- DUT
0:10:28.945886	LOG	Repeated frame. It does not count
0:10:31.514469	LOG	PUSH_ACK: 02 03e3 01
0:10:31.516468	LOG	PUSH_DATA: Protocol version = 02, Token = 03e3, Identifier = 00, JSON = {'rxpk': [{'tmst': 2390367776, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAUgIBQtbr0CNQ'}]}
0:10:31.518466	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0252, FOpts:), FPort: 01, FRMPayload: 0034, MIC: ebd02350)
0:10:31.519466	LOG	Server <---------- DUT
0:10:31.521465	LOG	Count = 56
0:10:33.936763	LOG	PUSH_ACK: 02 03e4 01
0:10:33.938762	LOG	PUSH_DATA: Protocol version = 02, Token = 03e4, Identifier = 00, JSON = {'rxpk': [{'tmst': 2392801256, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAUgIBQtbr0CNQ'}]}
0:10:33.941760	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0252, FOpts:), FPort: 01, FRMPayload: 0034, MIC: ebd02350)
0:10:33.942760	LOG	Server <---------- DUT
0:10:33.944758	LOG	Repeated frame. It does not count
0:10:36.512485	LOG	PUSH_ACK: 02 03e5 01

0:10:36.515481	LOG	PUSH_DATA: Protocol version = 02, Token = 03e5, Identifier = 00, JSON = {'rxpk': [{'tmst': 2395370360, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAUwIBmmuEqZ5P'}]}
0:10:36.517480	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0253, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 84a99e4f)
0:10:36.518480	LOG	Server <---------- DUT
0:10:36.519481	LOG	Count = 57
0:10:38.687937	LOG	PULL_DATA: 02 eb89 02 aa555a0000240409
0:10:38.690938	LOG	PULL_ACK: 02 eb89 04
0:10:38.985768	LOG	PUSH_ACK: 02 03e6 01
0:10:38.988766	LOG	PUSH_DATA: Protocol version = 02, Token = 03e6, Identifier = 00, JSON = {'rxpk': [{'tmst': 2397803816, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAUwIBmmuEqZ5P'}]}
0:10:38.989766	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0253, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 84a99e4f)
0:10:38.991765	LOG	Server <---------- DUT
0:10:38.993763	LOG	Repeated frame. It does not count
0:10:41.527336	LOG	PUSH_ACK: 02 03e8 01
0:10:41.529335	LOG	PUSH_DATA: Protocol version = 02, Token = 03e8, Identifier = 00, JSON = {'rxpk': [{'tmst': 2400372960, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAVAIBAGTqZ3IK'}]}
0:10:41.531334	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0254, FOpts:), FPort: 01, FRMPayload: 0034, MIC: ea67720a)
0:10:41.533333	LOG	Server <---------- DUT
0:10:41.534332	LOG	Count = 58
0:10:43.948827	LOG	PUSH_ACK: 02 03e9 01
0:10:43.950827	LOG	PUSH_DATA: Protocol version = 02, Token = 03e9, Identifier = 00, JSON = {'rxpk': [{'tmst': 2402806408, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAVAIBAGTqZ3IK'}]}
0:10:43.951825	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0254, FOpts:), FPort: 01, FRMPayload: 0034, MIC: ea67720a)
0:10:43.952827	LOG	Server <---------- DUT
0:10:43.954824	LOG	Repeated frame. It does not count
0:10:46.523714	LOG	PUSH_ACK: 02 03ea 01
0:10:46.525713	LOG	PUSH_DATA: Protocol version = 02, Token = 03ea, Identifier = 00, JSON = {'rxpk': [{'tmst': 2405375536, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAVQIBOEoa8ku0'}]}
0:10:46.526712	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0255, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 1af24bb4)
0:10:46.527712	LOG	Server <---------- DUT
0:10:46.529710	LOG	Count = 59
0:10:48.767421	LOG	PULL_DATA: 02 954d 02 aa555a0000240409
0:10:48.769419	LOG	PULL_ACK: 02 954d 04
0:10:48.944320	LOG	PUSH_ACK: 02 03eb 01
0:10:48.946319	LOG	PUSH_DATA: Protocol version = 02, Token = 03eb, Identifier = 00, JSON = {'rxpk': [{'tmst': 2407809000, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAVQIBOEoa8ku0'}]}
0:10:48.948319	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0255, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 1af24bb4)
0:10:48.949319	LOG	Server <---------- DUT

0:10:48.950319	LOG	Repeated frame. It does not count
0:10:51.519369	LOG	PUSH_ACK: 02 03ec 01
0:10:51.521368	LOG	PUSH_DATA: Protocol version = 02, Token = 03ec, Identifier = 00, JSON = {'rxpk': [{'tmst': 2410378112, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAVgIBiHw0qgsM'}]}
0:10:51.522367	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0256, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 34aa0b0c)
0:10:51.523367	LOG	Server <---------- DUT
0:10:51.524366	LOG	Count = 60
0:10:53.990933	LOG	PUSH_ACK: 02 03ed 01
0:10:53.994932	LOG	PUSH_DATA: Protocol version = 02, Token = 03ed, Identifier = 00, JSON = {'rxpk': [{'tmst': 2412811568, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAVgIBiHw0qgsM'}]}
0:10:53.996930	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0256, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 34aa0b0c)
0:10:53.997930	LOG	Server <---------- DUT
0:10:53.999929	LOG	Repeated frame. It does not count
0:10:56.515834	LOG	PUSH_ACK: 02 03ee 01
0:10:56.517833	LOG	PUSH_DATA: Protocol version = 02, Token = 03ee, Identifier = 00, JSON = {'rxpk': [{'tmst': 2415380704, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAVwIBqgN2b/W2'}]}
0:10:56.519832	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0257, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 766ff5b6)
0:10:56.520832	LOG	Server <---------- DUT
0:10:56.522830	LOG	Count = 61
0:10:58.848043	LOG	PULL_DATA: 02 b438 02 aa555a0000240409
0:10:58.851042	LOG	PULL_ACK: 02 b438 04
0:10:58.987066	LOG	PUSH_ACK: 02 03ef 01
0:10:58.989064	LOG	PUSH_DATA: Protocol version = 02, Token = 03ef, Identifier = 00, JSON = {'rxpk': [{'tmst': 2417814184, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAVwIBqgN2b/W2'}]}
0:10:58.991064	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0257, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 766ff5b6)
0:10:58.992063	LOG	Server <---------- DUT
0:10:58.994062	LOG	Repeated frame. It does not count
0:11:01.559799	LOG	PUSH_ACK: 02 03f0 01
0:11:01.561798	LOG	PUSH_DATA: Protocol version = 02, Token = 03f0, Identifier = 00, JSON = {'rxpk': [{'tmst': 2420383288, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAWAIBwxAFxIPh'}]}
0:11:01.563797	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0258, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 05c483e1)
0:11:01.564797	LOG	Server <---------- DUT
0:11:01.566796	LOG	Count = 62
0:11:03.980786	LOG	PUSH_ACK: 02 03f1 01
0:11:03.982784	LOG	PUSH_DATA: Protocol version = 02, Token = 03f1, Identifier = 00, JSON = {'rxpk': [{'tmst': 2422816744, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAWAIBwxAFxIPh'}]}
0:11:03.984783	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0258, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 05c483e1)
0:11:03.985783	LOG	Server <---------- DUT

0:11:03.987782	LOG	Repeated frame. It does not count
0:11:06.556091	LOG	PUSH_ACK: 02 03f2 01
0:11:06.558090	LOG	PUSH_DATA: Protocol version = 02, Token = 03f2, Identifier = 00, JSON = {'rxpk': [{'tmst': 2425385872, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAWQIBuxd7LyRE'}]}
0:11:06.559089	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0259, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 7b2f2444)
0:11:06.560089	LOG	Server <---------- DUT
0:11:06.561088	LOG	Count = 63
0:11:08.937539	LOG	PULL_DATA: 02 edd1 02 aa555a0000240409
0:11:08.942536	LOG	PULL_ACK: 02 edd1 04
0:11:08.976517	LOG	PUSH_ACK: 02 03f3 01
0:11:08.979515	LOG	PUSH_DATA: Protocol version = 02, Token = 03f3, Identifier = 00, JSON = {'rxpk': [{'tmst': 2427819336, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAWQIBuxd7LyRE'}]}
0:11:08.980514	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0259, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 7b2f2444)
0:11:08.981515	LOG	Server <---------- DUT
0:11:08.983513	LOG	Repeated frame. It does not count
0:11:11.568373	LOG	PUSH_ACK: 02 03f5 01
0:11:11.570372	LOG	PUSH_DATA: Protocol version = 02, Token = 03f5, Identifier = 00, JSON = {'rxpk': [{'tmst': 2430388472, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAWgIB5x61tKUY'}]}
0:11:11.572371	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 025a, FOpts:), FPort: 01, FRMPayload: 0034, MIC: b5b4a518)
0:11:11.574370	LOG	Server <---------- DUT
0:11:11.575369	LOG	Count = 64
0:11:13.990812	LOG	PUSH_ACK: 02 03f6 01
0:11:13.992811	LOG	PUSH_DATA: Protocol version = 02, Token = 03f6, Identifier = 00, JSON = {'rxpk': [{'tmst': 2432821936, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAWgIB5x61tKUY'}]}
0:11:13.994809	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 025a, FOpts:), FPort: 01, FRMPayload: 0034, MIC: b5b4a518)
0:11:13.996808	LOG	Server <---------- DUT
0:11:13.997808	LOG	Repeated frame. It does not count
0:11:16.567680	LOG	PUSH_ACK: 02 03f7 01
0:11:16.568679	LOG	PUSH_DATA: Protocol version = 02, Token = 03f7, Identifier = 00, JSON = {'rxpk': [{'tmst': 2435391056, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAWwIBtZVcfw9v'}]}
0:11:16.570678	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 025b, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 5c7f0f6f)
0:11:16.572677	LOG	Server <---------- DUT
0:11:16.573676	LOG	Count = 65
0:11:19.017398	LOG	PULL_DATA: 02 e31e 02 aa555a0000240409
0:11:19.019398	LOG	PULL_ACK: 02 e31e 04
0:11:19.039387	LOG	PUSH_ACK: 02 03f8 01
0:11:19.042385	LOG	PUSH_DATA: Protocol version = 02, Token = 03f8, Identifier = 00, JSON = {'rxpk': [{'tmst': 2437870856, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAWwIBtZVcfw9v'}]}

0:11:19.044384	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 025b, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 5c7f0f6f)
0:11:19.045383	LOG	Server <---------- DUT
0:11:19.047382	LOG	Repeated frame. It does not count
0:11:21.615783	LOG	PUSH_ACK: 02 03f9 01
0:11:21.618781	LOG	PUSH_DATA: Protocol version = 02, Token = 03f9, Identifier = 00, JSON = {'rxpk': [{'tmst': 2440439968, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAXAIBAfsaNAI1'}]}
0:11:21.620780	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 025c, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 1a340235)
0:11:21.621779	LOG	Server <---------- DUT
0:11:21.623779	LOG	Count = 66
0:11:21.624778	LOG	Waiting for the retransmissions
0:11:24.090552	LOG	PUSH_ACK: 02 03fa 01
0:11:24.092551	LOG	PUSH_DATA: Protocol version = 02, Token = 03fa, Identifier = 00, JSON = {'rxpk': [{'tmst': 2442919784, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAXAIBAfsaNAI1'}]}
0:11:24.094549	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 025c, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 1a340235)
0:11:24.095549	LOG	Server <---------- DUT
0:11:24.126531	LOG	Expected number of uplink messages have been received
0:11:24.130529	LOG	Test adaptive data rate control in frame header process starts
0:11:26.614520	LOG	PUSH_ACK: 02 03fb 01
0:11:26.617520	LOG	PUSH_DATA: Protocol version = 02, Token = 03fb, Identifier = 00, JSON = {'rxpk': [{'tmst': 2445442552, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAXQIBr0qSm5r1'}]}
0:11:26.618517	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 025d, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 929b9af5)
0:11:26.619519	LOG	Server <---------- DUT
0:11:26.620518	LOG	Count = 2
0:11:29.087516	LOG	PUSH_ACK: 02 03fc 01
0:11:29.089516	LOG	PUSH_DATA: Protocol version = 02, Token = 03fc, Identifier = 00, JSON = {'rxpk': [{'tmst': 2447922360, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAXQIBr0qSm5r1'}]}
0:11:29.091514	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 025d, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 929b9af5)
0:11:29.093513	LOG	Server <---------- DUT
0:11:29.095512	LOG	Repeated frame. It does not count
0:11:29.097511	LOG	PULL_DATA: 02 5387 02 aa555a0000240409
0:11:29.099510	LOG	PULL_ACK: 02 5387 04
0:11:31.612290	LOG	PUSH_ACK: 02 03fd 01
0:11:31.615287	LOG	PUSH_DATA: Protocol version = 02, Token = 03fd, Identifier = 00, JSON = {'rxpk': [{'tmst': 2450445152, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 12.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAXgIBGIw99+k/'}]}
0:11:31.616287	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 025e, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 3df7e93f)
0:11:31.618285	LOG	Server <---------- DUT
0:11:31.620284	LOG	Count = 3
0:11:34.087122	LOG	PUSH_ACK: 02 03fe 01
0:11:34.089121	LOG	PUSH_DATA: Protocol version = 02, Token = 03fe, Identifier = 00, JSON = {'rxpk': [{'tmst': 2452924976, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAXgIBGIw99+k/'}]}
0:11:34.091120	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 025e, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 3df7e93f)
0:11:34.092119	LOG	Server <---------- DUT
0:11:34.094118	LOG	Repeated frame. It does not count
0:11:36.611134	LOG	PUSH_ACK: 02 03ff 01
0:11:36.614133	LOG	PUSH_DATA: Protocol version = 02, Token = 03ff, Identifier = 00, JSON = {'rxpk': [{'tmst': 2455447736, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAXwIB3fuR4Iwl'}]}
0:11:36.616132	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 025f, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 91e08c25)
0:11:36.617131	LOG	Server <---------- DUT
0:11:36.619130	LOG	Count = 4
0:11:39.084820	LOG	PUSH_ACK: 02 0400 01
0:11:39.089816	LOG	PUSH_DATA: Protocol version = 02, Token = 0400, Identifier = 00, JSON = {'rxpk': [{'tmst': 2457927552, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 12.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAXwIB3fuR4Iwl'}]}
0:11:39.091814	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 025f, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 91e08c25)
0:11:39.093813	LOG	Server <---------- DUT
0:11:39.095812	LOG	Repeated frame. It does not count
0:11:39.177182	LOG	PULL_DATA: 02 192f 02 aa555a0000240409
0:11:39.180162	LOG	PULL_ACK: 02 192f 04
0:11:41.628608	LOG	PUSH_ACK: 02 0402 01
0:11:41.630608	LOG	PUSH_DATA: Protocol version = 02, Token = 0402, Identifier = 00, JSON = {'rxpk': [{'tmst': 2460450320, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAYAIBdEQofKtN'}]}
0:11:41.632606	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0260, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 287cab4d)
0:11:41.633606	LOG	Server <---------- DUT
0:11:41.635605	LOG	Count = 5
0:11:44.101524	LOG	PUSH_ACK: 02 0403 01
0:11:44.103523	LOG	PUSH_DATA: Protocol version = 02, Token = 0403, Identifier = 00, JSON = {'rxpk': [{'tmst': 2462930112, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAYAIBdEQofKtN'}]}
0:11:44.105522	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0260, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 287cab4d)
0:11:44.107521	LOG	Server <---------- DUT
0:11:44.108520	LOG	Repeated frame. It does not count
0:11:46.626850	LOG	PUSH_ACK: 02 0404 01
0:11:46.628849	LOG	PUSH_DATA: Protocol version = 02, Token = 0404, Identifier = 00, JSON = {'rxpk': [{'tmst': 2465452904, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAYQIBuLVPzzeF'}]}
0:11:46.630848	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0261, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 4fcf3785)
0:11:46.632847	LOG	Server <---------- DUT
0:11:46.633846	LOG	Count = 6
0:11:49.100441	LOG	PUSH_ACK: 02 0405 01
0:11:49.103440	LOG	PUSH_DATA: Protocol version = 02, Token = 0405, Identifier = 00, JSON = {'rxpk': [{'tmst': 2467932704, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAYQIBuLVPzzeF'}]}
0:11:49.105439	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0261, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 4fcf3785)
0:11:49.106438	LOG	Server <---------- DUT
0:11:49.108437	LOG	Repeated frame. It does not count
0:11:49.267923	LOG	PULL_DATA: 02 e18c 02 aa555a0000240409
0:11:49.268921	LOG	PULL_ACK: 02 e18c 04
0:11:51.623609	LOG	PUSH_ACK: 02 0406 01
0:11:51.625575	LOG	PUSH_DATA: Protocol version = 02, Token = 0406, Identifier = 00, JSON = {'rxpk': [{'tmst': 2470455488, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAYgIBQtrsLQeB'}]}
0:11:51.627575	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0262, FOpts:), FPort: 01, FRMPayload: 0034, MIC: ec2d0781)
0:11:51.628575	LOG	Server <---------- DUT
0:11:51.630572	LOG	Count = 7
0:11:54.094854	LOG	PUSH_ACK: 02 0407 01
0:11:54.096853	LOG	PUSH_DATA: Protocol version = 02, Token = 0407, Identifier = 00, JSON = {'rxpk': [{'tmst': 2472935296, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAYgIBQtrsLQeB'}]}
0:11:54.098852	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0262, FOpts:), FPort: 01, FRMPayload: 0034, MIC: ec2d0781)
0:11:54.099854	LOG	Server <---------- DUT
0:11:54.100853	LOG	Repeated frame. It does not count
0:11:56.619844	LOG	PUSH_ACK: 02 0408 01
0:11:56.621843	LOG	PUSH_DATA: Protocol version = 02, Token = 0408, Identifier = 00, JSON = {'rxpk': [{'tmst': 2475458080, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAYwIBh3MJVZoT'}]}
0:11:56.623842	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0263, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 09559a13)
0:11:56.624841	LOG	Server <---------- DUT
0:11:56.626840	LOG	Count = 8
0:11:59.092978	LOG	PUSH_ACK: 02 0409 01
0:11:59.094977	LOG	PUSH_DATA: Protocol version = 02, Token = 0409, Identifier = 00, JSON = {'rxpk': [{'tmst': 2477937904, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 12.0, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAYwIBh3MJVZoT'}]}
0:11:59.095978	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0263, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 09559a13)
0:11:59.097975	LOG	Server <---------- DUT
0:11:59.099974	LOG	Repeated frame. It does not count
0:11:59.347260	LOG	PULL_DATA: 02 9c2b 02 aa555a0000240409
0:11:59.349259	LOG	PULL_ACK: 02 9c2b 04
0:12:01.616968	LOG	PUSH_ACK: 02 040a 01
0:12:01.618966	LOG	PUSH_DATA: Protocol version = 02, Token = 040a, Identifier = 00, JSON = {'rxpk': [{'tmst': 2480460664, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAZAIBA5/R/lzo'}]}
0:12:01.619966	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0264, FOpts:), FPort: 01, FRMPayload: 0034, MIC: d1fe5ce8)
0:12:01.620967	LOG	Server <---------- DUT
0:12:01.622964	LOG	Count = 9
0:12:04.089581	LOG	PUSH_ACK: 02 040b 01

0:12:04.091581	LOG	PUSH_DATA: Protocol version = 02, Token = 040b, Identifier = 00, JSON = {'rxpk': [{'tmst': 2482940480, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAZAIBA5/R/lzo'}]}
0:12:04.093580	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0264, FOpts:), FPort: 01, FRMPayload: 0034, MIC: d1fe5ce8)
0:12:04.095579	LOG	Server <---------- DUT
0:12:04.096579	LOG	Repeated frame. It does not count
0:12:06.614487	LOG	PUSH_ACK: 02 040c 01
0:12:06.617489	LOG	PUSH_DATA: Protocol version = 02, Token = 040c, Identifier = 00, JSON = {'rxpk': [{'tmst': 2485463248, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAZQIBjRZ7cI89'}]}
0:12:06.618485	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0265, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 7b708f3d)
0:12:06.619486	LOG	Server <---------- DUT
0:12:06.620487	LOG	Count = 10
0:12:09.088077	LOG	PUSH_ACK: 02 040d 01
0:12:09.091076	LOG	PUSH_DATA: Protocol version = 02, Token = 040d, Identifier = 00, JSON = {'rxpk': [{'tmst': 2487943048, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAZQIBjRZ7cI89'}]}
0:12:09.093075	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0265, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 7b708f3d)
0:12:09.095073	LOG	Server <---------- DUT
0:12:09.096073	LOG	Repeated frame. It does not count
0:12:09.426967	LOG	PULL_DATA: 02 fcad 02 aa555a0000240409
0:12:09.428966	LOG	PULL_ACK: 02 fcad 04
0:12:11.629712	LOG	PUSH_ACK: 02 040f 01
0:12:11.631711	LOG	PUSH_DATA: Protocol version = 02, Token = 040f, Identifier = 00, JSON = {'rxpk': [{'tmst': 2490465832, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAZgIB2s4c1Hy9'}]}
0:12:11.632710	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0266, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 1cd47cbd)
0:12:11.634709	LOG	Server <---------- DUT
0:12:11.636708	LOG	Count = 11
0:12:14.102395	LOG	PUSH_ACK: 02 0410 01
0:12:14.104394	LOG	PUSH_DATA: Protocol version = 02, Token = 0410, Identifier = 00, JSON = {'rxpk': [{'tmst': 2492945640, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAZgIB2s4c1Hy9'}]}
0:12:14.106393	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0266, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 1cd47cbd)
0:12:14.108392	LOG	Server <---------- DUT
0:12:14.109391	LOG	Repeated frame. It does not count
0:12:16.626842	LOG	PUSH_ACK: 02 0411 01
0:12:16.629840	LOG	PUSH_DATA: Protocol version = 02, Token = 0411, Identifier = 00, JSON = {'rxpk': [{'tmst': 2495468424, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAZwIBJ8HKcAMs'}]}
0:12:16.630838	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0267, FOpts:), FPort: 01, FRMPayload: 0034, MIC: ca70032c)
0:12:16.631838	LOG	Server <---------- DUT
0:12:16.633837	LOG	Count = 12
0:12:19.101096	LOG	PUSH_ACK: 02 0412 01

0:12:19.103096	LOG	PUSH_DATA: Protocol version = 02, Token = 0412, Identifier = 00, JSON = {'rxpk': [{'tmst': 2497948208, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAZwIBJ8HKcAMs'}]}
0:12:19.105095	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0267, FOpts:), FPort: 01, FRMPayload: 0034, MIC: ca70032c)
0:12:19.107094	LOG	Server <---------- DUT
0:12:19.108092	LOG	Repeated frame. It does not count
0:12:19.506977	LOG	PULL_DATA: 02 9fac 02 aa555a0000240409
0:12:19.508976	LOG	PULL_ACK: 02 9fac 04
0:12:21.625770	LOG	PUSH_ACK: 02 0413 01
0:12:21.627771	LOG	PUSH_DATA: Protocol version = 02, Token = 0413, Identifier = 00, JSON = {'rxpk': [{'tmst': 2500471008, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAaAIB9p1AFx79'}]}
0:12:21.628770	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0268, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 40171efd)
0:12:21.629770	LOG	Server <---------- DUT
0:12:21.631768	LOG	Count = 13
0:12:24.098996	LOG	PUSH_ACK: 02 0414 01
0:12:24.100994	LOG	PUSH_DATA: Protocol version = 02, Token = 0414, Identifier = 00, JSON = {'rxpk': [{'tmst': 2502950824, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAaAIB9p1AFx79'}]}
0:12:24.102994	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0268, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 40171efd)
0:12:24.104992	LOG	Server <---------- DUT
0:12:24.105992	LOG	Repeated frame. It does not count
0:12:26.623666	LOG	PUSH_ACK: 02 0415 01
0:12:26.626665	LOG	PUSH_DATA: Protocol version = 02, Token = 0415, Identifier = 00, JSON = {'rxpk': [{'tmst': 2505473600, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAaQIBcIKvUX0K'}]}
0:12:26.629663	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0269, FOpts:), FPort: 01, FRMPayload: 0034, MIC: af517d0a)
0:12:26.632661	LOG	Server <---------- DUT
0:12:26.635660	LOG	Count = 14
0:12:29.096055	LOG	PUSH_ACK: 02 0416 01
0:12:29.098055	LOG	PUSH_DATA: Protocol version = 02, Token = 0416, Identifier = 00, JSON = {'rxpk': [{'tmst': 2507953408, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAaQIBcIKvUX0K'}]}
0:12:29.100054	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0269, FOpts:), FPort: 01, FRMPayload: 0034, MIC: af517d0a)
0:12:29.102053	LOG	Server <---------- DUT
0:12:29.103053	LOG	Repeated frame. It does not count
0:12:29.587088	LOG	PULL_DATA: 02 2369 02 aa555a0000240409
0:12:29.589087	LOG	PULL_ACK: 02 2369 04
0:12:31.620930	LOG	PUSH_ACK: 02 0417 01
0:12:31.622930	LOG	PUSH_DATA: Protocol version = 02, Token = 0417, Identifier = 00, JSON = {'rxpk': [{'tmst': 2510476200, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAagIBW+rkcpC7'}]}
0:12:31.623929	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 026a, FOpts:), FPort: 01, FRMPayload: 0034, MIC: e47290bb)
0:12:31.624928	LOG	Server <---------- DUT

0:12:31.626927	LOG	Count = 15
0:12:34.093522	LOG	PUSH_ACK: 02 0418 01
0:12:34.096520	LOG	PUSH_DATA: Protocol version = 02, Token = 0418, Identifier = 00, JSON = {'rxpk': [{'tmst': 2512955992, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAagIBW+rkcpC7'}]}
0:12:34.098519	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 026a, FOpts:), FPort: 01, FRMPayload: 0034, MIC: e47290bb)
0:12:34.099519	LOG	Server <---------- DUT
0:12:34.101517	LOG	Repeated frame. It does not count
0:12:36.618825	LOG	PUSH_ACK: 02 0419 01
0:12:36.620825	LOG	PUSH_DATA: Protocol version = 02, Token = 0419, Identifier = 00, JSON = {'rxpk': [{'tmst': 2515478784, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAawIB+zXBpfLv'}]}
0:12:36.621828	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 026b, FOpts:), FPort: 01, FRMPayload: 0034, MIC: c1a5f2ef)
0:12:36.622824	LOG	Server <---------- DUT
0:12:36.624822	LOG	Count = 16
0:12:39.091565	LOG	PUSH_ACK: 02 041a 01
0:12:39.093564	LOG	PUSH_DATA: Protocol version = 02, Token = 041a, Identifier = 00, JSON = {'rxpk': [{'tmst': 2517958608, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAawIB+zXBpfLv'}]}
0:12:39.095563	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 026b, FOpts:), FPort: 01, FRMPayload: 0034, MIC: c1a5f2ef)
0:12:39.097561	LOG	Server <---------- DUT
0:12:39.098561	LOG	Repeated frame. It does not count
0:12:39.677231	LOG	PULL_DATA: 02 9fce 02 aa555a0000240409
0:12:39.681229	LOG	PULL_ACK: 02 9fce 04
0:12:41.629120	LOG	PUSH_ACK: 02 041c 01
0:12:41.634117	LOG	PUSH_DATA: Protocol version = 02, Token = 041c, Identifier = 00, JSON = {'rxpk': [{'tmst': 2520481376, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAbAIBQRbKVpGO'}]}
0:12:41.636116	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 026c, FOpts:), FPort: 01, FRMPayload: 0034, MIC: ca56918e)
0:12:41.637116	LOG	Server <---------- DUT
0:12:41.638115	LOG	Count = 17
0:12:44.104169	LOG	PUSH_ACK: 02 041d 01
0:12:44.106168	LOG	PUSH_DATA: Protocol version = 02, Token = 041d, Identifier = 00, JSON = {'rxpk': [{'tmst': 2522961192, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAbAIBQRbKVpGO'}]}
0:12:44.108167	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 026c, FOpts:), FPort: 01, FRMPayload: 0034, MIC: ca56918e)
0:12:44.109166	LOG	Server <---------- DUT
0:12:44.111165	LOG	Repeated frame. It does not count
0:12:46.628721	LOG	PUSH_ACK: 02 041e 01
0:12:46.631719	LOG	PUSH_DATA: Protocol version = 02, Token = 041e, Identifier = 00, JSON = {'rxpk': [{'tmst': 2525483960, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAbQIBauPWMwHW'}]}
0:12:46.633718	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 026d, FOpts:), FPort: 01, FRMPayload: 0034, MIC: d63301d6)
0:12:46.634717	LOG	Server <---------- DUT

0:12:46.636716	LOG	Count = 18
0:12:49.102653	LOG	PUSH_ACK: 02 041f 01
0:12:49.105651	LOG	PUSH_DATA: Protocol version = 02, Token = 041f, Identifier = 00, JSON = {'rxpk': [{'tmst': 2527963768, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAbQIBauPWMwHW'}]}
0:12:49.107650	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 026d, FOpts:), FPort: 01, FRMPayload: 0034, MIC: d63301d6)
0:12:49.108650	LOG	Server <---------- DUT
0:12:49.110648	LOG	Repeated frame. It does not count
0:12:49.756669	LOG	PULL_DATA: 02 dec4 02 aa555a0000240409
0:12:49.758668	LOG	PULL_ACK: 02 dec4 04
0:12:51.627605	LOG	PUSH_ACK: 02 0420 01
0:12:51.629603	LOG	PUSH_DATA: Protocol version = 02, Token = 0420, Identifier = 00, JSON = {'rxpk': [{'tmst': 2530486560, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAbgIBcP8vOO7P'}]}
0:12:51.630604	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 026e, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 2f38eecf)
0:12:51.632601	LOG	Server <---------- DUT
0:12:51.633601	LOG	Count = 19
0:12:54.100394	LOG	PUSH_ACK: 02 0421 01
0:12:54.102393	LOG	PUSH_DATA: Protocol version = 02, Token = 0421, Identifier = 00, JSON = {'rxpk': [{'tmst': 2532966384, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAbgIBcP8vOO7P'}]}
0:12:54.104392	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 026e, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 2f38eecf)
0:12:54.105391	LOG	Server <---------- DUT
0:12:54.107390	LOG	Repeated frame. It does not count
0:12:56.625704	LOG	PUSH_ACK: 02 0422 01
0:12:56.630701	LOG	PUSH_DATA: Protocol version = 02, Token = 0422, Identifier = 00, JSON = {'rxpk': [{'tmst': 2535489152, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAbwIB79e0bPbU'}]}
0:12:56.633699	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 026f, FOpts:), FPort: 01, FRMPayload: 0034, MIC: b46cf6d4)
0:12:56.634698	LOG	Server <---------- DUT
0:12:56.636697	LOG	Count = 20
0:12:59.151614	LOG	PUSH_ACK: 02 0423 01
0:12:59.153615	LOG	PUSH_DATA: Protocol version = 02, Token = 0423, Identifier = 00, JSON = {'rxpk': [{'tmst': 2537968968, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAbwIB79e0bPbU'}]}
0:12:59.154614	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 026f, FOpts:), FPort: 01, FRMPayload: 0034, MIC: b46cf6d4)
0:12:59.155614	LOG	Server <---------- DUT
0:12:59.157611	LOG	Repeated frame. It does not count
0:12:59.837357	LOG	PULL_DATA: 02 ea8c 02 aa555a0000240409
0:12:59.839356	LOG	PULL_ACK: 02 ea8c 04
0:13:01.624340	LOG	PUSH_ACK: 02 0424 01
0:13:01.626338	LOG	PUSH_DATA: Protocol version = 02, Token = 0424, Identifier = 00, JSON = {'rxpk': [{'tmst': 2540491744, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAcAIBm1x/HPh9'}]}

0:13:01.628337	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0270, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 7f1cf87d)
0:13:01.629337	LOG	Server <---------- DUT
0:13:01.631335	LOG	Count = 21
0:13:04.149501	LOG	PUSH_ACK: 02 0425 01
0:13:04.152502	LOG	PUSH_DATA: Protocol version = 02, Token = 0425, Identifier = 00, JSON = {'rxpk': [{'tmst': 2542971568, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 12.0, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAcAIBm1x/HPh9'}]}
0:13:04.153499	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0270, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 7f1cf87d)
0:13:04.154497	LOG	Server <---------- DUT
0:13:04.156496	LOG	Repeated frame. It does not count
0:13:06.674734	LOG	PUSH_ACK: 02 0426 01
0:13:06.680731	LOG	PUSH_DATA: Protocol version = 02, Token = 0426, Identifier = 00, JSON = {'rxpk': [{'tmst': 2545494328, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAcQIBJuZNqu/A'}]}
0:13:06.683729	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0271, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 4daaefc0)
0:13:06.684728	LOG	Server <---------- DUT
0:13:06.686727	LOG	Count = 22
0:13:09.150838	LOG	PUSH_ACK: 02 0427 01
0:13:09.152835	LOG	PUSH_DATA: Protocol version = 02, Token = 0427, Identifier = 00, JSON = {'rxpk': [{'tmst': 2547974152, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAcQIBJuZNqu/A'}]}
0:13:09.153835	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0271, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 4daaefc0)
0:13:09.155834	LOG	Server <---------- DUT
0:13:09.156834	LOG	Repeated frame. It does not count
0:13:09.916430	LOG	PULL_DATA: 02 ccd5 02 aa555a0000240409
0:13:09.921428	LOG	PULL_ACK: 02 ccd5 04
0:13:11.639453	LOG	PUSH_ACK: 02 0429 01
0:13:11.640452	LOG	PUSH_DATA: Protocol version = 02, Token = 0429, Identifier = 00, JSON = {'rxpk': [{'tmst': 2550496904, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAcgIB4Pg0goXo'}]}
0:13:11.642450	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0272, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 348285e8)
0:13:11.643449	LOG	Server <---------- DUT
0:13:11.645448	LOG	Count = 23
0:13:14.111707	LOG	PUSH_ACK: 02 042a 01
0:13:14.113706	LOG	PUSH_DATA: Protocol version = 02, Token = 042a, Identifier = 00, JSON = {'rxpk': [{'tmst': 2552976720, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAcgIB4Pg0goXo'}]}
0:13:14.114706	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0272, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 348285e8)
0:13:14.115706	LOG	Server <---------- DUT
0:13:14.117703	LOG	Repeated frame. It does not count
0:13:16.636420	LOG	PUSH_ACK: 02 042b 01
0:13:16.641417	LOG	PUSH_DATA: Protocol version = 02, Token = 042b, Identifier = 00, JSON = {'rxpk': [{'tmst': 2555499496, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAcwIBY2l7Oawt'}]}

0:13:16.644415	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0273, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 7b39ac2d)
0:13:16.645414	LOG	Server <---------- DUT
0:13:16.646414	LOG	Count = 24
0:13:19.112141	LOG	PUSH_ACK: 02 042c 01
0:13:19.114140	LOG	PUSH_DATA: Protocol version = 02, Token = 042c, Identifier = 00, JSON = {'rxpk': [{'tmst': 2557979320, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 8.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAcwIBY2l7Oawt'}]}
0:13:19.115139	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0273, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 7b39ac2d)
0:13:19.116139	LOG	Server <---------- DUT
0:13:19.117138	LOG	Repeated frame. It does not count
0:13:19.996681	LOG	PULL_DATA: 02 1562 02 aa555a0000240409
0:13:19.998681	LOG	PULL_ACK: 02 1562 04
0:13:21.635931	LOG	PUSH_ACK: 02 042d 01
0:13:21.637930	LOG	PUSH_DATA: Protocol version = 02, Token = 042d, Identifier = 00, JSON = {'rxpk': [{'tmst': 2560502088, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAdAIB2plmS7q8'}]}
0:13:21.639929	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0274, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 664bbabc)
0:13:21.641928	LOG	Server <---------- DUT
0:13:21.642927	LOG	Count = 25
0:13:24.160837	LOG	PUSH_ACK: 02 042e 01
0:13:24.162836	LOG	PUSH_DATA: Protocol version = 02, Token = 042e, Identifier = 00, JSON = {'rxpk': [{'tmst': 2562981856, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAdAIB2plmS7q8'}]}
0:13:24.163835	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0274, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 664bbabc)
0:13:24.165834	LOG	Server <---------- DUT
0:13:24.166853	LOG	Repeated frame. It does not count
0:13:26.685541	LOG	PUSH_ACK: 02 042f 01
0:13:26.687512	LOG	PUSH_DATA: Protocol version = 02, Token = 042f, Identifier = 00, JSON = {'rxpk': [{'tmst': 2565504672, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAdQIBV9OIT/wy'}]}
0:13:26.690511	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0275, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 884ffc32)
0:13:26.693508	LOG	Server <---------- DUT
0:13:26.694507	LOG	Count = 26
0:13:29.158191	LOG	PUSH_ACK: 02 0430 01
0:13:29.161191	LOG	PUSH_DATA: Protocol version = 02, Token = 0430, Identifier = 00, JSON = {'rxpk': [{'tmst': 2567984480, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAdQIBV9OIT/wy'}]}
0:13:29.162189	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0275, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 884ffc32)
0:13:29.164188	LOG	Server <---------- DUT
0:13:29.166186	LOG	Repeated frame. It does not count
0:13:30.076668	LOG	PULL_DATA: 02 23ca 02 aa555a0000240409
0:13:30.078666	LOG	PULL_ACK: 02 23ca 04
0:13:31.683753	LOG	PUSH_ACK: 02 0431 01
0:13:31.685751	LOG	PUSH_DATA: Protocol version = 02, Token = 0431, Identifier = 00, JSON = {'rxpk': [{'tmst': 2570507248, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAdgIB1CWsHLpc'}]}
0:13:31.687750	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0276, FOpts:), FPort: 01, FRMPayload: 0034, MIC: ac1cba5c)
0:13:31.689749	LOG	Server <---------- DUT
0:13:31.690748	LOG	Count = 27
0:13:34.157343	LOG	PUSH_ACK: 02 0432 01
0:13:34.160342	LOG	PUSH_DATA: Protocol version = 02, Token = 0432, Identifier = 00, JSON = {'rxpk': [{'tmst': 2572987048, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAdgIB1CWsHLpc'}]}
0:13:34.161341	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0276, FOpts:), FPort: 01, FRMPayload: 0034, MIC: ac1cba5c)
0:13:34.164339	LOG	Server <---------- DUT
0:13:34.165339	LOG	Repeated frame. It does not count
0:13:36.682750	LOG	PUSH_ACK: 02 0433 01
0:13:36.685752	LOG	PUSH_DATA: Protocol version = 02, Token = 0433, Identifier = 00, JSON = {'rxpk': [{'tmst': 2575509824, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAdwIB5Iy9NLoG'}]}
0:13:36.688747	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0277, FOpts:), FPort: 01, FRMPayload: 0034, MIC: bd34ba06)
0:13:36.692744	LOG	Server <---------- DUT
0:13:36.696742	LOG	Count = 28
0:13:39.156594	LOG	PUSH_ACK: 02 0434 01
0:13:39.158593	LOG	PUSH_DATA: Protocol version = 02, Token = 0434, Identifier = 00, JSON = {'rxpk': [{'tmst': 2577989632, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 12.8, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAdwIB5Iy9NLoG'}]}
0:13:39.160591	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0277, FOpts:), FPort: 01, FRMPayload: 0034, MIC: bd34ba06)
0:13:39.161591	LOG	Server <---------- DUT
0:13:39.164589	LOG	Repeated frame. It does not count
0:13:40.156935	LOG	PULL_DATA: 02 9a10 02 aa555a0000240409
0:13:40.160952	LOG	PULL_ACK: 02 9a10 04
0:13:41.649040	LOG	PUSH_ACK: 02 0436 01
0:13:41.651038	LOG	PUSH_DATA: Protocol version = 02, Token = 0436, Identifier = 00, JSON = {'rxpk': [{'tmst': 2580512408, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 12.0, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAeAIBZ6NGKSXE'}]}
0:13:41.653039	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0278, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 462925c4)
0:13:41.655036	LOG	Server <---------- DUT
0:13:41.656035	LOG	Count = 29
0:13:44.174148	LOG	PUSH_ACK: 02 0437 01
0:13:44.176147	LOG	PUSH_DATA: Protocol version = 02, Token = 0437, Identifier = 00, JSON = {'rxpk': [{'tmst': 2582992224, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAeAIBZ6NGKSXE'}]}
0:13:44.178146	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0278, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 462925c4)
0:13:44.179146	LOG	Server <---------- DUT
0:13:44.181144	LOG	Repeated frame. It does not count
0:13:46.647153	LOG	PUSH_ACK: 02 0438 01
0:13:46.649152	LOG	PUSH_DATA: Protocol version = 02, Token = 0438, Identifier = 00, JSON = {'rxpk': [{'tmst': 2585515000, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAeQIBAWq3lNfu'}]}
0:13:46.651151	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0279, FOpts:), FPort: 01, FRMPayload: 0034, MIC: b794d7ee)
0:13:46.652151	LOG	Server <---------- DUT
0:13:46.653152	LOG	Count = 30
0:13:49.171825	LOG	PUSH_ACK: 02 0439 01
0:13:49.173827	LOG	PUSH_DATA: Protocol version = 02, Token = 0439, Identifier = 00, JSON = {'rxpk': [{'tmst': 2587994800, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAeQIBAWq3lNfu'}]}
0:13:49.175826	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0279, FOpts:), FPort: 01, FRMPayload: 0034, MIC: b794d7ee)
0:13:49.176823	LOG	Server <---------- DUT
0:13:49.178824	LOG	Repeated frame. It does not count
0:13:50.236870	LOG	PULL_DATA: 02 9b7d 02 aa555a0000240409
0:13:50.237869	LOG	PULL_ACK: 02 9b7d 04
0:13:51.696846	LOG	PUSH_ACK: 02 043a 01
0:13:51.698845	LOG	PUSH_DATA: Protocol version = 02, Token = 043a, Identifier = 00, JSON = {'rxpk': [{'tmst': 2590517584, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAegIBEHZkCJnO'}]}
0:13:51.700844	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 027a, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 640899ce)
0:13:51.701843	LOG	Server <---------- DUT
0:13:51.703842	LOG	Count = 31
0:13:54.170606	LOG	PUSH_ACK: 02 043b 01
0:13:54.172606	LOG	PUSH_DATA: Protocol version = 02, Token = 043b, Identifier = 00, JSON = {'rxpk': [{'tmst': 2592997376, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAegIBEHZkCJnO'}]}
0:13:54.174604	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 027a, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 640899ce)
0:13:54.175603	LOG	Server <---------- DUT
0:13:54.177602	LOG	Repeated frame. It does not count
0:13:56.695660	LOG	PUSH_ACK: 02 043c 01
0:13:56.697659	LOG	PUSH_DATA: Protocol version = 02, Token = 043c, Identifier = 00, JSON = {'rxpk': [{'tmst': 2595520176, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAewIBcYS/kXoG'}]}
0:13:56.699658	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 027b, FOpts:), FPort: 01, FRMPayload: 0034, MIC: bf917a06)
0:13:56.701656	LOG	Server <---------- DUT
0:13:56.702656	LOG	Count = 32
0:13:59.220576	LOG	PUSH_ACK: 02 043d 01
0:13:59.222577	LOG	PUSH_DATA: Protocol version = 02, Token = 043d, Identifier = 00, JSON = {'rxpk': [{'tmst': 2598072184, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAewIBcYS/kXoG'}]}
0:13:59.223575	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 027b, FOpts:), FPort: 01, FRMPayload: 0034, MIC: bf917a06)
0:13:59.225573	LOG	Server <---------- DUT
0:13:59.226573	LOG	Repeated frame. It does not count
0:14:00.316753	LOG	PULL_DATA: 02 2eef 02 aa555a0000240409
0:14:00.317751	LOG	PULL_ACK: 02 2eef 04
0:14:06.779073	LOG	PUSH_ACK: 02 043e 01

0:14:06.781072	LOG	PUSH_DATA: Protocol version = 02, Token = 043e, Identifier = 00, JSON = {'rxpk': [{'tmst': 2605597536, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAfAIBGZ//QhMN'}]}
0:14:06.783071	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 027c, FOpts:), FPort: 01, FRMPayload: 0034, MIC: ff42130d)
0:14:06.785070	LOG	Server <---------- DUT
0:14:06.786069	LOG	Count = 33
0:14:06.788068	LOG	Waiting for the retransmissions
0:14:09.303905	LOG	PUSH_ACK: 02 043f 01
0:14:09.306904	LOG	PUSH_DATA: Protocol version = 02, Token = 043f, Identifier = 00, JSON = {'rxpk': [{'tmst': 2608149536, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAfAIBGZ//QhMN'}]}
0:14:09.308902	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 027c, FOpts:), FPort: 01, FRMPayload: 0034, MIC: ff42130d)
0:14:09.309901	LOG	Server <---------- DUT
0:14:09.327891	LOG	Expected number of uplink messages have been received
0:14:09.332888	LOG	Test adaptive data rate control in frame header process starts
0:14:10.396470	LOG	PULL_DATA: 02 0547 02 aa555a0000240409
0:14:10.399469	LOG	PULL_ACK: 02 0547 04
0:14:16.775881	LOG	PUSH_ACK: 02 0441 01
0:14:16.778879	LOG	PUSH_DATA: Protocol version = 02, Token = 0441, Identifier = 00, JSON = {'rxpk': [{'tmst': 2615602712, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAfQIB+lKEwpV0'}]}
0:14:16.780878	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 027d, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 84c29574)
0:14:16.782877	LOG	Server <---------- DUT
0:14:16.783876	LOG	Count = 2
0:14:19.300613	LOG	PUSH_ACK: 02 0442 01
0:14:19.302612	LOG	PUSH_DATA: Protocol version = 02, Token = 0442, Identifier = 00, JSON = {'rxpk': [{'tmst': 2618154720, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 12.5, 'rssi': -49, 'size': 15, 'data': 'QCAgICDAfQIB+lKEwpV0'}]}
0:14:19.304611	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 027d, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 84c29574)
0:14:19.306610	LOG	Server <---------- DUT
0:14:19.307609	LOG	Repeated frame. It does not count
0:14:20.476777	LOG	PULL_DATA: 02 1ee6 02 aa555a0000240409
0:14:20.478779	LOG	PULL_ACK: 02 1ee6 04
0:14:26.757176	LOG	PUSH_ACK: 02 0443 01
0:14:26.759175	LOG	PUSH_DATA: Protocol version = 02, Token = 0443, Identifier = 00, JSON = {'rxpk': [{'tmst': 2625607880, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 12.5, 'rssi': -49, 'size': 15, 'data': 'QCAgICDAfgIBFoOxpJg2'}]}
0:14:26.760176	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 027e, FOpts:), FPort: 01, FRMPayload: 0034, MIC: b1a49836)
0:14:26.762173	LOG	Server <---------- DUT
0:14:26.763172	LOG	Count = 3
0:14:29.332827	LOG	PUSH_ACK: 02 0444 01
0:14:29.334824	LOG	PUSH_DATA: Protocol version = 02, Token = 0444, Identifier = 00, JSON = {'rxpk': [{'tmst': 2628159872, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAfgIBFoOxpJg2'}]}

0:14:29.336823	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 027e, FOpts:), FPort: 01, FRMPayload: 0034, MIC: b1a49836)
0:14:29.337822	LOG	Server <---------- DUT
0:14:29.338822	LOG	Repeated frame. It does not count
0:14:30.555879	LOG	PULL_DATA: 02 d3ba 02 aa555a0000240409
0:14:30.557877	LOG	PULL_ACK: 02 d3ba 04
0:14:36.789327	LOG	PUSH_ACK: 02 0445 01
0:14:36.792326	LOG	PUSH_DATA: Protocol version = 02, Token = 0445, Identifier = 00, JSON = {'rxpk': [{'tmst': 2635613048, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAfwIBG9KGfjgU'}]}
0:14:36.794324	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 027f, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 867e3814)
0:14:36.795324	LOG	Server <---------- DUT
0:14:36.797322	LOG	Count = 4
0:14:39.314836	LOG	PUSH_ACK: 02 0446 01
0:14:39.317835	LOG	PUSH_DATA: Protocol version = 02, Token = 0446, Identifier = 00, JSON = {'rxpk': [{'tmst': 2638165040, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAfwIBG9KGfjgU'}]}
0:14:39.319833	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 027f, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 867e3814)
0:14:39.320833	LOG	Server <---------- DUT
0:14:39.322832	LOG	Repeated frame. It does not count
0:14:40.635979	LOG	PULL_DATA: 02 11cf 02 aa555a0000240409
0:14:40.640977	LOG	PULL_ACK: 02 11cf 04
0:14:46.785476	LOG	PUSH_ACK: 02 0448 01
0:14:46.787477	LOG	PUSH_DATA: Protocol version = 02, Token = 0448, Identifier = 00, JSON = {'rxpk': [{'tmst': 2645618232, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -49, 'size': 15, 'data': 'QCAgICDAgAIBfEzy4wsl'}]}
0:14:46.788476	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0280, FOpts:), FPort: 01, FRMPayload: 0034, MIC: f2e30b25)
0:14:46.789476	LOG	Server <---------- DUT
0:14:46.791475	LOG	Count = 5
0:14:49.308960	LOG	PUSH_ACK: 02 0449 01
0:14:49.310958	LOG	PUSH_DATA: Protocol version = 02, Token = 0449, Identifier = 00, JSON = {'rxpk': [{'tmst': 2648170216, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAgAIBfEzy4wsl'}]}
0:14:49.312958	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0280, FOpts:), FPort: 01, FRMPayload: 0034, MIC: f2e30b25)
0:14:49.313957	LOG	Server <---------- DUT
0:14:49.315956	LOG	Repeated frame. It does not count
0:14:50.716460	LOG	PULL_DATA: 02 68b1 02 aa555a0000240409
0:14:50.721460	LOG	PULL_ACK: 02 68b1 04
0:14:56.765015	LOG	PUSH_ACK: 02 044a 01
0:14:56.767014	LOG	PUSH_DATA: Protocol version = 02, Token = 044a, Identifier = 00, JSON = {'rxpk': [{'tmst': 2655623416, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAgQIBtxp6IxcY'}]}
0:14:56.769013	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0281, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 7a231718)
0:14:56.770012	LOG	Server <---------- DUT
0:14:56.771011	LOG	Count = 6
0:14:59.341087	LOG	PUSH_ACK: 02 044b 01

0:14:59.344086	LOG	PUSH_DATA: Protocol version = 02, Token = 044b, Identifier = 00, JSON = {'rxpk': [{'tmst': 2658175424, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 13.0, 'rssi': -49, 'size': 15, 'data': 'QCAgICDAgQIBtxp6IxcY'}]}
0:14:59.346085	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0281, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 7a231718)
0:14:59.347085	LOG	Server <---------- DUT
0:14:59.349082	LOG	Repeated frame. It does not count
0:15:00.806326	LOG	PULL_DATA: 02 7c8b 02 aa555a0000240409
0:15:00.808325	LOG	PULL_ACK: 02 7c8b 04
0:15:06.798913	LOG	PUSH_ACK: 02 044c 01
0:15:06.800912	LOG	PUSH_DATA: Protocol version = 02, Token = 044c, Identifier = 00, JSON = {'rxpk': [{'tmst': 2665628592, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAggIBtwkONhL2'}]}
0:15:06.802911	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0282, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 0e3612f6)
0:15:06.804910	LOG	Server <---------- DUT
0:15:06.805909	LOG	Count = 7
0:15:09.323477	LOG	PUSH_ACK: 02 044d 01
0:15:09.326476	LOG	PUSH_DATA: Protocol version = 02, Token = 044d, Identifier = 00, JSON = {'rxpk': [{'tmst': 2668180608, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 12.8, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAggIBtwkONhL2'}]}
0:15:09.328474	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0282, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 0e3612f6)
0:15:09.329474	LOG	Server <---------- DUT
0:15:09.331473	LOG	Repeated frame. It does not count
0:15:10.885505	LOG	PULL_DATA: 02 1a1b 02 aa555a0000240409
0:15:10.890502	LOG	PULL_ACK: 02 1a1b 04
0:15:16.797137	LOG	PUSH_ACK: 02 044f 01
0:15:16.799136	LOG	PUSH_DATA: Protocol version = 02, Token = 044f, Identifier = 00, JSON = {'rxpk': [{'tmst': 2675633768, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAgwIBn8ov6SJj'}]}
0:15:16.801135	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0283, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 2fe92263)
0:15:16.803134	LOG	Server <---------- DUT
0:15:16.804134	LOG	Count = 8
0:15:19.321942	LOG	PUSH_ACK: 02 0450 01
0:15:19.324940	LOG	PUSH_DATA: Protocol version = 02, Token = 0450, Identifier = 00, JSON = {'rxpk': [{'tmst': 2678185744, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAgwIBn8ov6SJj'}]}
0:15:19.325939	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0283, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 2fe92263)
0:15:19.327939	LOG	Server <---------- DUT
0:15:19.329937	LOG	Repeated frame. It does not count
0:15:20.965847	LOG	PULL_DATA: 02 5af9 02 aa555a0000240409
0:15:20.967847	LOG	PULL_ACK: 02 5af9 04
0:15:26.779358	LOG	PUSH_ACK: 02 0451 01
0:15:26.781357	LOG	PUSH_DATA: Protocol version = 02, Token = 0451, Identifier = 00, JSON = {'rxpk': [{'tmst': 2685638920, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 13.0, 'rssi': -49, 'size': 15, 'data': 'QCAgICDAhAIBG5XIhrYp'}]}

0:15:26.783355	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0284, FOpts:), FPort: 01, FRMPayload: 0034, MIC: c886b629)
0:15:26.785355	LOG	Server <---------- DUT
0:15:26.786354	LOG	Count = 9
0:15:29.355984	LOG	PUSH_ACK: 02 0452 01
0:15:29.357983	LOG	PUSH_DATA: Protocol version = 02, Token = 0452, Identifier = 00, JSON = {'rxpk': [{'tmst': 2688190936, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAhAIBG5XIhrYp'}]}
0:15:29.358982	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0284, FOpts:), FPort: 01, FRMPayload: 0034, MIC: c886b629)
0:15:29.359982	LOG	Server <---------- DUT
0:15:29.361980	LOG	Repeated frame. It does not count
0:15:31.045614	LOG	PULL_DATA: 02 df44 02 aa555a0000240409
0:15:31.047612	LOG	PULL_ACK: 02 df44 04
0:15:36.811376	LOG	PUSH_ACK: 02 0453 01
0:15:36.813375	LOG	PUSH_DATA: Protocol version = 02, Token = 0453, Identifier = 00, JSON = {'rxpk': [{'tmst': 2695644096, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAhQIB6pzLtJ4d'}]}
0:15:36.814376	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0285, FOpts:), FPort: 01, FRMPayload: 0034, MIC: cbb49e1d)
0:15:36.815376	LOG	Server <---------- DUT
0:15:36.817373	LOG	Count = 10
0:15:39.335150	LOG	PUSH_ACK: 02 0454 01
0:15:39.337148	LOG	PUSH_DATA: Protocol version = 02, Token = 0454, Identifier = 00, JSON = {'rxpk': [{'tmst': 2698196088, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 12.8, 'rssi': -49, 'size': 15, 'data': 'QCAgICDAhQIB6pzLtJ4d'}]}
0:15:39.338148	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0285, FOpts:), FPort: 01, FRMPayload: 0034, MIC: cbb49e1d)
0:15:39.340149	LOG	Server <---------- DUT
0:15:39.341146	LOG	Repeated frame. It does not count
0:15:41.126340	LOG	PULL_DATA: 02 85ac 02 aa555a0000240409
0:15:41.130338	LOG	PULL_ACK: 02 85ac 04
0:15:46.806240	LOG	PUSH_ACK: 02 0456 01
0:15:46.808238	LOG	PUSH_DATA: Protocol version = 02, Token = 0456, Identifier = 00, JSON = {'rxpk': [{'tmst': 2705649272, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -49, 'size': 15, 'data': 'QCAgICDAhgIBl6GQIn0w'}]}
0:15:46.810237	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0286, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 90227d30)
0:15:46.812236	LOG	Server <---------- DUT
0:15:46.813235	LOG	Count = 11
0:15:49.382238	LOG	PUSH_ACK: 02 0457 01
0:15:49.385236	LOG	PUSH_DATA: Protocol version = 02, Token = 0457, Identifier = 00, JSON = {'rxpk': [{'tmst': 2708201264, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAhgIBl6GQIn0w'}]}
0:15:49.387235	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0286, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 90227d30)
0:15:49.388234	LOG	Server <---------- DUT
0:15:49.390233	LOG	Repeated frame. It does not count
0:15:51.205408	LOG	PULL_DATA: 02 1a9a 02 aa555a0000240409
0:15:51.207407	LOG	PULL_ACK: 02 1a9a 04
0:15:56.788241	LOG	PUSH_ACK: 02 0458 01

0:15:56.790241	LOG	PUSH_DATA: Protocol version = 02, Token = 0458, Identifier = 00, JSON = {'rxpk': [{'tmst': 2715654456, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAhwIBiSlgQ03U'}]}
0:15:56.791240	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0287, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 60434dd4)
0:15:56.793239	LOG	Server <---------- DUT
0:15:56.794238	LOG	Count = 12
0:15:59.363951	LOG	PUSH_ACK: 02 0459 01
0:15:59.365950	LOG	PUSH_DATA: Protocol version = 02, Token = 0459, Identifier = 00, JSON = {'rxpk': [{'tmst': 2718206440, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAhwIBiSlgQ03U'}]}
0:15:59.367950	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0287, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 60434dd4)
0:15:59.369948	LOG	Server <---------- DUT
0:15:59.370947	LOG	Repeated frame. It does not count
0:16:01.285533	LOG	PULL_DATA: 02 0e3d 02 aa555a0000240409
0:16:01.287535	LOG	PULL_ACK: 02 0e3d 04
0:16:06.820594	LOG	PUSH_ACK: 02 045a 01
0:16:06.822590	LOG	PUSH_DATA: Protocol version = 02, Token = 045a, Identifier = 00, JSON = {'rxpk': [{'tmst': 2725659624, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 12.5, 'rssi': -49, 'size': 15, 'data': 'QCAgICDAiAIBCtEC3DgL'}]}
0:16:06.824589	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0288, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 02dc380b)
0:16:06.825588	LOG	Server <---------- DUT
0:16:06.827587	LOG	Count = 13
0:16:09.344977	LOG	PUSH_ACK: 02 045b 01
0:16:09.349970	LOG	PUSH_DATA: Protocol version = 02, Token = 045b, Identifier = 00, JSON = {'rxpk': [{'tmst': 2728211632, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 12.5, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAiAIBCtEC3DgL'}]}
0:16:09.353969	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0288, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 02dc380b)
0:16:09.355967	LOG	Server <---------- DUT
0:16:09.356967	LOG	Repeated frame. It does not count
0:16:11.365995	LOG	PULL_DATA: 02 64a8 02 aa555a0000240409
0:16:11.369993	LOG	PULL_ACK: 02 64a8 04
0:16:16.816890	LOG	PUSH_ACK: 02 045d 01
0:16:16.818889	LOG	PUSH_DATA: Protocol version = 02, Token = 045d, Identifier = 00, JSON = {'rxpk': [{'tmst': 2735664800, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 12.5, 'rssi': -49, 'size': 15, 'data': 'QCAgICDAiQIB39PzP1J5'}]}
0:16:16.820888	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0289, FOpts:), FPort: 01, FRMPayload: 0034, MIC: f33f5279)
0:16:16.822887	LOG	Server <---------- DUT
0:16:16.823886	LOG	Count = 14
0:16:19.393015	LOG	PUSH_ACK: 02 045e 01
0:16:19.395015	LOG	PUSH_DATA: Protocol version = 02, Token = 045e, Identifier = 00, JSON = {'rxpk': [{'tmst': 2738216792, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 12.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAiQIB39PzP1J5'}]}
0:16:19.396013	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0289, FOpts:), FPort: 01, FRMPayload: 0034, MIC: f33f5279)
0:16:19.397014	LOG	Server <---------- DUT

0:16:19.399011	LOG	Repeated frame. It does not count
0:16:21.455540	LOG	PULL_DATA: 02 4d00 02 aa555a0000240409
0:16:21.457540	LOG	PULL_ACK: 02 4d00 04
0:16:26.847589	LOG	PUSH_ACK: 02 045f 01
0:16:26.849587	LOG	PUSH_DATA: Protocol version = 02, Token = 045f, Identifier = 00, JSON = {'rxpk': [{'tmst': 2745669984, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAigIBnODKWe1K'}]}
0:16:26.851586	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 028a, FOpts:), FPort: 01, FRMPayload: 0034, MIC: ca59ed4a)
0:16:26.853585	LOG	Server <---------- DUT
0:16:26.854585	LOG	Count = 15
0:16:29.370067	LOG	PUSH_ACK: 02 0460 01
0:16:29.372066	LOG	PUSH_DATA: Protocol version = 02, Token = 0460, Identifier = 00, JSON = {'rxpk': [{'tmst': 2748222000, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAigIBnODKWe1K'}]}
0:16:29.373063	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 028a, FOpts:), FPort: 01, FRMPayload: 0034, MIC: ca59ed4a)
0:16:29.374065	LOG	Server <---------- DUT
0:16:29.375064	LOG	Repeated frame. It does not count
0:16:31.545597	LOG	PULL_DATA: 02 267b 02 aa555a0000240409
0:16:31.547596	LOG	PULL_ACK: 02 267b 04
0:16:36.825630	LOG	PUSH_ACK: 02 0461 01
0:16:36.829628	LOG	PUSH_DATA: Protocol version = 02, Token = 0461, Identifier = 00, JSON = {'rxpk': [{'tmst': 2755675168, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 12.2, 'rssi': -49, 'size': 15, 'data': 'QCAgICDAiwIBTIkJVWaf'}]}
0:16:36.834625	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 028b, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 0955669f)
0:16:36.836623	LOG	Server <---------- DUT
0:16:36.838622	LOG	Count = 16
0:16:39.401031	LOG	PUSH_ACK: 02 0462 01
0:16:39.403030	LOG	PUSH_DATA: Protocol version = 02, Token = 0462, Identifier = 00, JSON = {'rxpk': [{'tmst': 2758227152, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 12.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAiwIBTIkJVWaf'}]}
0:16:39.405028	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 028b, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 0955669f)
0:16:39.407028	LOG	Server <---------- DUT
0:16:39.408027	LOG	Repeated frame. It does not count
0:16:41.625617	LOG	PULL_DATA: 02 ef2b 02 aa555a0000240409
0:16:41.628616	LOG	PULL_ACK: 02 ef2b 04
0:16:46.813843	LOG	PUSH_ACK: 02 0464 01
0:16:46.816841	LOG	PUSH_DATA: Protocol version = 02, Token = 0464, Identifier = 00, JSON = {'rxpk': [{'tmst': 2765680352, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 12.0, 'rssi': -49, 'size': 15, 'data': 'QCAgICDAjAIBGAI0WvMb'}]}
0:16:46.817840	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 028c, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 345af31b)
0:16:46.819839	LOG	Server <---------- DUT
0:16:46.821838	LOG	Count = 17
0:16:49.388088	LOG	PUSH_ACK: 02 0465 01
0:16:49.390087	LOG	PUSH_DATA: Protocol version = 02, Token = 0465, Identifier = 00, JSON = {'rxpk': [{'tmst': 2768232368, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAjAIBGAI0WvMb'}]}
0:16:49.392085	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 028c, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 345af31b)
0:16:49.394084	LOG	Server <---------- DUT
0:16:49.396084	LOG	Repeated frame. It does not count
0:16:51.705162	LOG	PULL_DATA: 02 c30d 02 aa555a0000240409
0:16:51.709161	LOG	PULL_ACK: 02 c30d 04
0:16:56.843236	LOG	PUSH_ACK: 02 0466 01
0:16:56.845235	LOG	PUSH_DATA: Protocol version = 02, Token = 0466, Identifier = 00, JSON = {'rxpk': [{'tmst': 2775685528, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAjQIB8O7+5rkK'}]}
0:16:56.847234	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 028d, FOpts:), FPort: 01, FRMPayload: 0034, MIC: fee6b90a)
0:16:56.848233	LOG	Server <---------- DUT
0:16:56.849233	LOG	Count = 18
0:16:59.416041	LOG	PUSH_ACK: 02 0467 01
0:16:59.418039	LOG	PUSH_DATA: Protocol version = 02, Token = 0467, Identifier = 00, JSON = {'rxpk': [{'tmst': 2778237552, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAjQIB8O7+5rkK'}]}
0:16:59.420040	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 028d, FOpts:), FPort: 01, FRMPayload: 0034, MIC: fee6b90a)
0:16:59.421038	LOG	Server <---------- DUT
0:16:59.423036	LOG	Repeated frame. It does not count
0:17:01.785504	LOG	PULL_DATA: 02 1196 02 aa555a0000240409
0:17:01.787505	LOG	PULL_ACK: 02 1196 04
0:17:06.871874	LOG	PUSH_ACK: 02 0468 01
0:17:06.873874	LOG	PUSH_DATA: Protocol version = 02, Token = 0468, Identifier = 00, JSON = {'rxpk': [{'tmst': 2785690696, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAjgIB+wPJCs5y'}]}
0:17:06.875871	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 028e, FOpts:), FPort: 01, FRMPayload: 0034, MIC: c90ace72)
0:17:06.876871	LOG	Server <---------- DUT
0:17:06.878870	LOG	Count = 19
0:17:09.393548	LOG	PUSH_ACK: 02 0469 01
0:17:09.396547	LOG	PUSH_DATA: Protocol version = 02, Token = 0469, Identifier = 00, JSON = {'rxpk': [{'tmst': 2788242696, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 12.2, 'rssi': -49, 'size': 15, 'data': 'QCAgICDAjgIB+wPJCs5y'}]}
0:17:09.397546	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 028e, FOpts:), FPort: 01, FRMPayload: 0034, MIC: c90ace72)
0:17:09.399544	LOG	Server <---------- DUT
0:17:09.401544	LOG	Repeated frame. It does not count
0:17:11.865533	LOG	PULL_DATA: 02 c823 02 aa555a0000240409
0:17:11.869530	LOG	PULL_ACK: 02 c823 04
0:17:16.867683	LOG	PUSH_ACK: 02 046b 01
0:17:16.869683	LOG	PUSH_DATA: Protocol version = 02, Token = 046b, Identifier = 00, JSON = {'rxpk': [{'tmst': 2795695872, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAjwIB7i+zU8JO'}]}
0:17:16.871681	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 028f, FOpts:), FPort: 01, FRMPayload: 0034, MIC: b353c24e)
0:17:16.873680	LOG	Server <---------- DUT

0:17:16.874679	LOG	Count = 20
0:17:19.392433	LOG	PUSH_ACK: 02 046c 01
0:17:19.395431	LOG	PUSH_DATA: Protocol version = 02, Token = 046c, Identifier = 00, JSON = {'rxpk': [{'tmst': 2798247872, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAjwIB7i+zU8JO'}]}
0:17:19.397430	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 028f, FOpts:), FPort: 01, FRMPayload: 0034, MIC: b353c24e)
0:17:19.398430	LOG	Server <---------- DUT
0:17:19.400428	LOG	Repeated frame. It does not count
0:17:21.944978	LOG	PULL_DATA: 02 6630 02 aa555a0000240409
0:17:21.946978	LOG	PULL_ACK: 02 6630 04
0:17:26.851185	LOG	PUSH_ACK: 02 046e 01
0:17:26.854183	LOG	PUSH_DATA: Protocol version = 02, Token = 046e, Identifier = 00, JSON = {'rxpk': [{'tmst': 2805701040, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAkAIB5QthcEIB'}]}
0:17:26.856181	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0290, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 61704201)
0:17:26.857181	LOG	Server <---------- DUT
0:17:26.859180	LOG	Count = 21
0:17:29.427875	LOG	PUSH_ACK: 02 046f 01
0:17:29.429876	LOG	PUSH_DATA: Protocol version = 02, Token = 046f, Identifier = 00, JSON = {'rxpk': [{'tmst': 2808253032, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 12.0, 'rssi': -49, 'size': 15, 'data': 'QCAgICDAkAIB5QthcEIB'}]}
0:17:29.431875	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0290, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 61704201)
0:17:29.432873	LOG	Server <---------- DUT
0:17:29.433874	LOG	Repeated frame. It does not count
0:17:32.025215	LOG	PULL_DATA: 02 d4e2 02 aa555a0000240409
0:17:32.027214	LOG	PULL_ACK: 02 d4e2 04
0:17:36.885447	LOG	PUSH_ACK: 02 0471 01
0:17:36.888445	LOG	PUSH_DATA: Protocol version = 02, Token = 0471, Identifier = 00, JSON = {'rxpk': [{'tmst': 2815706232, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -49, 'size': 15, 'data': 'QCAgICDAkQIBfZThTIqD'}]}
0:17:36.890444	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0291, FOpts:), FPort: 01, FRMPayload: 0034, MIC: e14c8a83)
0:17:36.891443	LOG	Server <---------- DUT
0:17:36.893442	LOG	Count = 22
0:17:39.410243	LOG	PUSH_ACK: 02 0472 01
0:17:39.413240	LOG	PUSH_DATA: Protocol version = 02, Token = 0472, Identifier = 00, JSON = {'rxpk': [{'tmst': 2818258216, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAkQIBfZThTIqD'}]}
0:17:39.415239	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0291, FOpts:), FPort: 01, FRMPayload: 0034, MIC: e14c8a83)
0:17:39.416238	LOG	Server <---------- DUT
0:17:39.418237	LOG	Repeated frame. It does not count
0:17:42.104706	LOG	PULL_DATA: 02 bbee 02 aa555a0000240409
0:17:42.109704	LOG	PULL_ACK: 02 bbee 04
0:17:46.876932	LOG	PUSH_ACK: 02 0474 01
0:17:46.878928	LOG	PUSH_DATA: Protocol version = 02, Token = 0474, Identifier = 00, JSON = {'rxpk': [{'tmst': 2825711392, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAkgIBKmdXcRcH'}]}
0:17:46.880926	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0292, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 57711707)
0:17:46.883925	LOG	Server <---------- DUT
0:17:46.885922	LOG	Count = 23
0:17:49.401743	LOG	PUSH_ACK: 02 0475 01
0:17:49.404742	LOG	PUSH_DATA: Protocol version = 02, Token = 0475, Identifier = 00, JSON = {'rxpk': [{'tmst': 2828263400, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAkgIBKmdXcRcH'}]}
0:17:49.406740	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0292, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 57711707)
0:17:49.407740	LOG	Server <---------- DUT
0:17:49.409739	LOG	Repeated frame. It does not count
0:17:52.204758	LOG	PULL_DATA: 02 fd15 02 aa555a0000240409
0:17:52.206757	LOG	PULL_ACK: 02 fd15 04
0:17:56.858323	LOG	PUSH_ACK: 02 0476 01
0:17:56.860323	LOG	PUSH_DATA: Protocol version = 02, Token = 0476, Identifier = 00, JSON = {'rxpk': [{'tmst': 2835716560, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 12.5, 'rssi': -49, 'size': 15, 'data': 'QCAgICDAkwIBpz64Ygx/'}]}
0:17:56.862321	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0293, FOpts:), FPort: 01, FRMPayload: 0034, MIC: b8620c7f)
0:17:56.863320	LOG	Server <---------- DUT
0:17:56.864320	LOG	Count = 24
0:17:59.434075	LOG	PUSH_ACK: 02 0477 01
0:17:59.436075	LOG	PUSH_DATA: Protocol version = 02, Token = 0477, Identifier = 00, JSON = {'rxpk': [{'tmst': 2838268568, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAkwIBpz64Ygx/'}]}
0:17:59.437073	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0293, FOpts:), FPort: 01, FRMPayload: 0034, MIC: b8620c7f)
0:17:59.439072	LOG	Server <---------- DUT
0:17:59.441071	LOG	Repeated frame. It does not count
0:18:02.284916	LOG	PULL_DATA: 02 e7dc 02 aa555a0000240409
0:18:02.286915	LOG	PULL_ACK: 02 e7dc 04
0:18:06.889293	LOG	PUSH_ACK: 02 0478 01
0:18:06.892292	LOG	PUSH_DATA: Protocol version = 02, Token = 0478, Identifier = 00, JSON = {'rxpk': [{'tmst': 2845721736, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAlAIBKLXeNQXe'}]}
0:18:06.893291	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0294, FOpts:), FPort: 01, FRMPayload: 0034, MIC: de3505de)
0:18:06.895290	LOG	Server <---------- DUT
0:18:06.897289	LOG	Count = 25
0:18:09.414529	LOG	PUSH_ACK: 02 0479 01
0:18:09.417527	LOG	PUSH_DATA: Protocol version = 02, Token = 0479, Identifier = 00, JSON = {'rxpk': [{'tmst': 2848273752, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAlAIBKLXeNQXe'}]}
0:18:09.419526	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0294, FOpts:), FPort: 01, FRMPayload: 0034, MIC: de3505de)
0:18:09.420526	LOG	Server <---------- DUT
0:18:09.423524	LOG	Repeated frame. It does not count
0:18:12.364268	LOG	PULL_DATA: 02 5a6c 02 aa555a0000240409

0:18:12.369266	LOG	PULL_ACK: 02 5a6c 04
0:18:16.886693	LOG	PUSH_ACK: 02 047b 01
0:18:16.888691	LOG	PUSH_DATA: Protocol version = 02, Token = 047b, Identifier = 00, JSON = {'rxpk': [{'tmst': 2855726904, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAlQIBTKQZiHaj'}]}
0:18:16.889691	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0295, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 198876a3)
0:18:16.891690	LOG	Server <---------- DUT
0:18:16.892690	LOG	Count = 26
0:18:19.410501	LOG	PUSH_ACK: 02 047c 01
0:18:19.413499	LOG	PUSH_DATA: Protocol version = 02, Token = 047c, Identifier = 00, JSON = {'rxpk': [{'tmst': 2858278888, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 13.0, 'rssi': -49, 'size': 15, 'data': 'QCAgICDAlQIBTKQZiHaj'}]}
0:18:19.415499	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0295, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 198876a3)
0:18:19.416498	LOG	Server <---------- DUT
0:18:19.418496	LOG	Repeated frame. It does not count
0:18:22.455118	LOG	PULL_DATA: 02 8874 02 aa555a0000240409
0:18:22.456116	LOG	PULL_ACK: 02 8874 04
0:18:26.867930	LOG	PUSH_ACK: 02 047d 01
0:18:26.869929	LOG	PUSH_DATA: Protocol version = 02, Token = 047d, Identifier = 00, JSON = {'rxpk': [{'tmst': 2865732104, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAlgIBv2KoAY47'}]}
0:18:26.870928	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0296, FOpts:), FPort: 01, FRMPayload: 0034, MIC: a8018e3b)
0:18:26.872927	LOG	Server <---------- DUT
0:18:26.874926	LOG	Count = 27
0:18:29.443807	LOG	PUSH_ACK: 02 047e 01
0:18:29.445806	LOG	PUSH_DATA: Protocol version = 02, Token = 047e, Identifier = 00, JSON = {'rxpk': [{'tmst': 2868284096, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAlgIBv2KoAY47'}]}
0:18:29.447805	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0296, FOpts:), FPort: 01, FRMPayload: 0034, MIC: a8018e3b)
0:18:29.448804	LOG	Server <---------- DUT
0:18:29.450803	LOG	Repeated frame. It does not count
0:18:32.534086	LOG	PULL_DATA: 02 0796 02 aa555a0000240409
0:18:32.536084	LOG	PULL_ACK: 02 0796 04
0:18:36.901597	LOG	PUSH_ACK: 02 0480 01
0:18:36.903596	LOG	PUSH_DATA: Protocol version = 02, Token = 0480, Identifier = 00, JSON = {'rxpk': [{'tmst': 2875737280, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 12.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAlwIBDZdKV/X8'}]}
0:18:36.905597	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0297, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 4a57f5fc)
0:18:36.906595	LOG	Server <---------- DUT
0:18:36.908595	LOG	Count = 28
0:18:39.425292	LOG	PUSH_ACK: 02 0481 01
0:18:39.427290	LOG	PUSH_DATA: Protocol version = 02, Token = 0481, Identifier = 00, JSON = {'rxpk': [{'tmst': 2878289272, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAlwIBDZdKV/X8'}]}

0:18:39.429290	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0297, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 4a57f5fc)
0:18:39.430288	LOG	Server <---------- DUT
0:18:39.431288	LOG	Repeated frame. It does not count
0:18:42.614752	LOG	PULL_DATA: 02 b16b 02 aa555a0000240409
0:18:42.619750	LOG	PULL_ACK: 02 b16b 04
0:18:46.894315	LOG	PUSH_ACK: 02 0483 01
0:18:46.896313	LOG	PUSH_DATA: Protocol version = 02, Token = 0483, Identifier = 00, JSON = {'rxpk': [{'tmst': 2885742472, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAmAIB4Wa18HNk'}]}
0:18:46.898313	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0298, FOpts:), FPort: 01, FRMPayload: 0034, MIC: b5f07364)
0:18:46.899313	LOG	Server <---------- DUT
0:18:46.901311	LOG	Count = 29
0:18:49.467256	LOG	PUSH_ACK: 02 0484 01
0:18:49.470254	LOG	PUSH_DATA: Protocol version = 02, Token = 0484, Identifier = 00, JSON = {'rxpk': [{'tmst': 2888294464, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 13.2, 'rssi': -49, 'size': 15, 'data': 'QCAgICDAmAIB4Wa18HNk'}]}
0:18:49.471253	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0298, FOpts:), FPort: 01, FRMPayload: 0034, MIC: b5f07364)
0:18:49.474252	LOG	Server <---------- DUT
0:18:49.475251	LOG	Repeated frame. It does not count
0:18:52.704521	LOG	PULL_DATA: 02 3ffe 02 aa555a0000240409
0:18:52.706521	LOG	PULL_ACK: 02 3ffe 04
0:18:56.922177	LOG	PUSH_ACK: 02 0485 01
0:18:56.924175	LOG	PUSH_DATA: Protocol version = 02, Token = 0485, Identifier = 00, JSON = {'rxpk': [{'tmst': 2895747656, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAmQIBDTpP5qdT'}]}
0:18:56.925174	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0299, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 4fe6a753)
0:18:56.926175	LOG	Server <---------- DUT
0:18:56.927174	LOG	Count = 30
0:18:59.444809	LOG	PUSH_ACK: 02 0486 01
0:18:59.445808	LOG	PUSH_DATA: Protocol version = 02, Token = 0486, Identifier = 00, JSON = {'rxpk': [{'tmst': 2898299640, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAmQIBDTpP5qdT'}]}
0:18:59.447807	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0299, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 4fe6a753)
0:18:59.448807	LOG	Server <---------- DUT
0:18:59.449806	LOG	Repeated frame. It does not count
0:19:02.784851	LOG	PULL_DATA: 02 6b65 02 aa555a0000240409
0:19:02.787853	LOG	PULL_ACK: 02 6b65 04
0:19:06.898387	LOG	PUSH_ACK: 02 0487 01
0:19:06.900386	LOG	PUSH_DATA: Protocol version = 02, Token = 0487, Identifier = 00, JSON = {'rxpk': [{'tmst': 2905752840, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAmgIBFcuh/rMI'}]}
0:19:06.902385	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 029a, FOpts:), FPort: 01, FRMPayload: 0034, MIC: a1feb308)
0:19:06.903384	LOG	Server <---------- DUT
0:19:06.905383	LOG	Count = 31
0:19:09.472604	LOG	PUSH_ACK: 02 0488 01

0:19:09.474603	LOG	PUSH_DATA: Protocol version = 02, Token = 0488, Identifier = 00, JSON = {'rxpk': [{'tmst': 2908304832, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAmgIBFcuh/rMI'}]}
0:19:09.476602	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 029a, FOpts:), FPort: 01, FRMPayload: 0034, MIC: a1feb308)
0:19:09.477600	LOG	Server <---------- DUT
0:19:09.479599	LOG	Repeated frame. It does not count
0:19:12.864331	LOG	PULL_DATA: 02 795a 02 aa555a0000240409
0:19:12.869329	LOG	PULL_ACK: 02 795a 04
0:19:16.938009	LOG	PUSH_ACK: 02 048a 01
0:19:16.940010	LOG	PUSH_DATA: Protocol version = 02, Token = 048a, Identifier = 00, JSON = {'rxpk': [{'tmst': 2915758032, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAmwIBmRFavpTY'}]}
0:19:16.941008	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 029b, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 5abe94d8)
0:19:16.943008	LOG	Server <---------- DUT
0:19:16.944007	LOG	Count = 32
0:19:19.617167	LOG	PUSH_ACK: 02 048b 01
0:19:19.621164	LOG	PUSH_DATA: Protocol version = 02, Token = 048b, Identifier = 00, JSON = {'rxpk': [{'tmst': 2918474880, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -43, 'size': 15, 'data': 'QCAgICDAmwIBmRFavpTY'}]}
0:19:19.626161	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 029b, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 5abe94d8)
0:19:19.629160	LOG	Server <---------- DUT
0:19:19.634158	LOG	Repeated frame. It does not count
0:19:22.954307	LOG	PULL_DATA: 02 903c 02 aa555a0000240409
0:19:22.956307	LOG	PULL_ACK: 02 903c 04
0:19:27.076153	LOG	PUSH_ACK: 02 048c 01
0:19:27.078154	LOG	PUSH_DATA: Protocol version = 02, Token = 048c, Identifier = 00, JSON = {'rxpk': [{'tmst': 2925928000, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 13.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAnAIBXlpWbu4u'}]}
0:19:27.079151	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 029c, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 566eee2e)
0:19:27.080151	LOG	Server <---------- DUT
0:19:27.081150	LOG	Count = 33
0:19:27.083149	LOG	Waiting for the retransmissions
0:19:29.805635	LOG	PUSH_ACK: 02 048d 01
0:19:29.808633	LOG	PUSH_DATA: Protocol version = 02, Token = 048d, Identifier = 00, JSON = {'rxpk': [{'tmst': 2928644864, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 13.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAnAIBXlpWbu4u'}]}
0:19:29.809633	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 029c, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 566eee2e)
0:19:29.811631	LOG	Server <---------- DUT
0:19:29.824624	LOG	Expected number of uplink messages have been received
0:19:29.828622	LOG	Test adaptive data rate control in frame header process starts
0:19:33.034254	LOG	PULL_DATA: 02 68a1 02 aa555a0000240409
0:19:33.035255	LOG	PULL_ACK: 02 68a1 04
0:19:37.107932	LOG	PUSH_ACK: 02 048e 01
0:19:37.110931	LOG	PUSH_DATA: Protocol version = 02, Token = 048e, Identifier = 00, JSON = {'rxpk': [{'tmst': 2935933176, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAnQIBZu1+0KAL'}]}
0:19:37.113929	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 029d, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 7ed0a00b)
0:19:37.117927	LOG	Server <---------- DUT
0:19:37.122924	LOG	Count = 2
0:19:39.785406	LOG	PUSH_ACK: 02 048f 01
0:19:39.788405	LOG	PUSH_DATA: Protocol version = 02, Token = 048f, Identifier = 00, JSON = {'rxpk': [{'tmst': 2938650040, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAnQIBZu1+0KAL'}]}
0:19:39.790404	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 029d, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 7ed0a00b)
0:19:39.792403	LOG	Server <---------- DUT
0:19:39.794402	LOG	Repeated frame. It does not count
0:19:43.113934	LOG	PULL_DATA: 02 d330 02 aa555a0000240409
0:19:43.118932	LOG	PULL_ACK: 02 d330 04
0:19:47.099664	LOG	PUSH_ACK: 02 0491 01
0:19:47.102661	LOG	PUSH_DATA: Protocol version = 02, Token = 0491, Identifier = 00, JSON = {'rxpk': [{'tmst': 2945938344, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAngIBF9iVsGxd'}]}
0:19:47.103660	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 029e, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 95b06c5d)
0:19:47.105660	LOG	Server <---------- DUT
0:19:47.107658	LOG	Count = 3
0:19:49.828192	LOG	PUSH_ACK: 02 0492 01
0:19:49.830191	LOG	PUSH_DATA: Protocol version = 02, Token = 0492, Identifier = 00, JSON = {'rxpk': [{'tmst': 2948655224, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAngIBF9iVsGxd'}]}
0:19:49.832190	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 029e, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 95b06c5d)
0:19:49.834188	LOG	Server <---------- DUT
0:19:49.835188	LOG	Repeated frame. It does not count
0:19:53.194384	LOG	PULL_DATA: 02 c439 02 aa555a0000240409
0:19:53.196381	LOG	PULL_ACK: 02 c439 04
0:19:57.077174	LOG	PUSH_ACK: 02 0493 01
0:19:57.078171	LOG	PUSH_DATA: Protocol version = 02, Token = 0493, Identifier = 00, JSON = {'rxpk': [{'tmst': 2955943528, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAnwIBzH1G3o/W'}]}
0:19:57.080172	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 029f, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 46de8fd6)
0:19:57.081171	LOG	Server <---------- DUT
0:19:57.082171	LOG	Count = 4
0:19:59.804573	LOG	PUSH_ACK: 02 0494 01
0:19:59.807571	LOG	PUSH_DATA: Protocol version = 02, Token = 0494, Identifier = 00, JSON = {'rxpk': [{'tmst': 2958660392, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAnwIBzH1G3o/W'}]}
0:19:59.809570	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 029f, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 46de8fd6)
0:19:59.810570	LOG	Server <---------- DUT
0:19:59.812568	LOG	Repeated frame. It does not count
0:20:03.273673	LOG	PULL_DATA: 02 6098 02 aa555a0000240409

0:20:03.277670	LOG	PULL_ACK: 02 6098 04
0:20:07.105937	LOG	PUSH_ACK: 02 0495 01
0:20:07.107936	LOG	PUSH_DATA: Protocol version = 02, Token = 0495, Identifier = 00, JSON = {'rxpk': [{'tmst': 2965948712, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 13.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAoAIBDUXyiRDA'}]}
0:20:07.109935	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02a0, FOpts:), FPort: 01, FRMPayload: 0034, MIC: f28910c0)
0:20:07.110934	LOG	Server <---------- DUT
0:20:07.112933	LOG	Count = 5
0:20:09.833753	LOG	PUSH_ACK: 02 0496 01
0:20:09.835752	LOG	PUSH_DATA: Protocol version = 02, Token = 0496, Identifier = 00, JSON = {'rxpk': [{'tmst': 2968665568, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAoAIBDUXyiRDA'}]}
0:20:09.837750	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02a0, FOpts:), FPort: 01, FRMPayload: 0034, MIC: f28910c0)
0:20:09.839749	LOG	Server <---------- DUT
0:20:09.840748	LOG	Repeated frame. It does not count
0:20:13.354164	LOG	PULL_DATA: 02 1b1b 02 aa555a0000240409
0:20:13.357163	LOG	PULL_ACK: 02 1b1b 04
0:20:17.101228	LOG	PUSH_ACK: 02 0498 01
0:20:17.104227	LOG	PUSH_DATA: Protocol version = 02, Token = 0498, Identifier = 00, JSON = {'rxpk': [{'tmst': 2975953888, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 13.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAoQIBVoJxO+jT'}]}
0:20:17.106225	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02a1, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 713be8d3)
0:20:17.107225	LOG	Server <---------- DUT
0:20:17.109224	LOG	Count = 6
0:20:19.830228	LOG	PUSH_ACK: 02 0499 01
0:20:19.833226	LOG	PUSH_DATA: Protocol version = 02, Token = 0499, Identifier = 00, JSON = {'rxpk': [{'tmst': 2978670760, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAoQIBVoJxO+jT'}]}
0:20:19.835225	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02a1, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 713be8d3)
0:20:19.836225	LOG	Server <---------- DUT
0:20:19.838223	LOG	Repeated frame. It does not count
0:20:23.434159	LOG	PULL_DATA: 02 8718 02 aa555a0000240409
0:20:23.435158	LOG	PULL_ACK: 02 8718 04
0:20:27.132282	LOG	PUSH_ACK: 02 049a 01
0:20:27.134281	LOG	PUSH_DATA: Protocol version = 02, Token = 049a, Identifier = 00, JSON = {'rxpk': [{'tmst': 2985959064, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 13.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAogIBXpZuALv5'}]}
0:20:27.135280	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02a2, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 6e00bbf9)
0:20:27.137281	LOG	Server <---------- DUT
0:20:27.138297	LOG	Count = 7
0:20:29.859063	LOG	PUSH_ACK: 02 049b 01
0:20:29.862061	LOG	PUSH_DATA: Protocol version = 02, Token = 049b, Identifier = 00, JSON = {'rxpk': [{'tmst': 2988675936, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAogIBXpZuALv5'}]}

0:20:29.864060	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02a2, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 6e00bbf9)
0:20:29.865060	LOG	Server <---------- DUT
0:20:29.867058	LOG	Repeated frame. It does not count
0:20:33.514264	LOG	PULL_DATA: 02 316e 02 aa555a0000240409
0:20:33.515263	LOG	PULL_ACK: 02 316e 04
0:20:37.108209	LOG	PUSH_ACK: 02 049c 01
0:20:37.111208	LOG	PUSH_DATA: Protocol version = 02, Token = 049c, Identifier = 00, JSON = {'rxpk': [{'tmst': 2995964232, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -43, 'size': 15, 'data': 'QCAgICDAowIBLh39seC+'}]}
0:20:37.113207	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02a3, FOpts:), FPort: 01, FRMPayload: 0034, MIC: fdb1e0be)
0:20:37.114206	LOG	Server <---------- DUT
0:20:37.116205	LOG	Count = 8
0:20:39.836707	LOG	PUSH_ACK: 02 049d 01
0:20:39.838706	LOG	PUSH_DATA: Protocol version = 02, Token = 049d, Identifier = 00, JSON = {'rxpk': [{'tmst': 2998681096, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 13.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAowIBLh39seC+'}]}
0:20:39.840705	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02a3, FOpts:), FPort: 01, FRMPayload: 0034, MIC: fdb1e0be)
0:20:39.841704	LOG	Server <---------- DUT
0:20:39.844702	LOG	Repeated frame. It does not count
0:20:43.593856	LOG	PULL_DATA: 02 f48b 02 aa555a0000240409
0:20:43.598854	LOG	PULL_ACK: 02 f48b 04
0:20:47.151830	LOG	PUSH_ACK: 02 049f 01
0:20:47.153829	LOG	PUSH_DATA: Protocol version = 02, Token = 049f, Identifier = 00, JSON = {'rxpk': [{'tmst': 3005969416, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 13.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICDApAIBtmX7vb9+'}]}
0:20:47.155827	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02a4, FOpts:), FPort: 01, FRMPayload: 0034, MIC: fbbdbf7e)
0:20:47.157826	LOG	Server <---------- DUT
0:20:47.158825	LOG	Count = 9
0:20:49.830365	LOG	PUSH_ACK: 02 04a0 01
0:20:49.833363	LOG	PUSH_DATA: Protocol version = 02, Token = 04a0, Identifier = 00, JSON = {'rxpk': [{'tmst': 3008686288, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICDApAIBtmX7vb9+'}]}
0:20:49.834362	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02a4, FOpts:), FPort: 01, FRMPayload: 0034, MIC: fbbdbf7e)
0:20:49.836361	LOG	Server <---------- DUT
0:20:49.838360	LOG	Repeated frame. It does not count
0:20:53.673271	LOG	PULL_DATA: 02 db7d 02 aa555a0000240409
0:20:53.675271	LOG	PULL_ACK: 02 db7d 04
0:20:57.133301	LOG	PUSH_ACK: 02 04a1 01
0:20:57.135300	LOG	PUSH_DATA: Protocol version = 02, Token = 04a1, Identifier = 00, JSON = {'rxpk': [{'tmst': 3015974592, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -44, 'size': 15, 'data': 'QCAgICDApQIBFaommkrA'}]}
0:20:57.136298	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02a5, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 269a4ac0)
0:20:57.137299	LOG	Server <---------- DUT
0:20:57.139298	LOG	Count = 10
0:20:59.862754	LOG	PUSH_ACK: 02 04a2 01

0:20:59.864754	LOG	PUSH_DATA: Protocol version = 02, Token = 04a2, Identifier = 00, JSON = {'rxpk': [{'tmst': 3018691464, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICDApQIBFaommkrA'}]}
0:20:59.866752	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02a5, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 269a4ac0)
0:20:59.867752	LOG	Server <---------- DUT
0:20:59.869750	LOG	Repeated frame. It does not count
0:21:03.753147	LOG	PULL_DATA: 02 ffe2 02 aa555a0000240409
0:21:03.755146	LOG	PULL_ACK: 02 ffe2 04
0:21:07.114310	LOG	PUSH_ACK: 02 04a3 01
0:21:07.116309	LOG	PUSH_DATA: Protocol version = 02, Token = 04a3, Identifier = 00, JSON = {'rxpk': [{'tmst': 3025979768, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 12.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICDApgIBI29YCz2R'}]}
0:21:07.119307	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02a6, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 580b3d91)
0:21:07.120306	LOG	Server <---------- DUT
0:21:07.122305	LOG	Count = 11
0:21:09.844753	LOG	PUSH_ACK: 02 04a4 01
0:21:09.846753	LOG	PUSH_DATA: Protocol version = 02, Token = 04a4, Identifier = 00, JSON = {'rxpk': [{'tmst': 3028696608, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 14.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICDApgIBI29YCz2R'}]}
0:21:09.848751	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02a6, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 580b3d91)
0:21:09.850750	LOG	Server <---------- DUT
0:21:09.851750	LOG	Repeated frame. It does not count
0:21:13.833480	LOG	PULL_DATA: 02 13b0 02 aa555a0000240409
0:21:13.838478	LOG	PULL_ACK: 02 13b0 04
0:21:17.161584	LOG	PUSH_ACK: 02 04a6 01
0:21:17.163582	LOG	PUSH_DATA: Protocol version = 02, Token = 04a6, Identifier = 00, JSON = {'rxpk': [{'tmst': 3035984944, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 12.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICDApwIBz/o8A/Yv'}]}
0:21:17.165581	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02a7, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 3c03f62f)
0:21:17.166583	LOG	Server <---------- DUT
0:21:17.168581	LOG	Count = 12
0:21:19.837833	LOG	PUSH_ACK: 02 04a7 01
0:21:19.840831	LOG	PUSH_DATA: Protocol version = 02, Token = 04a7, Identifier = 00, JSON = {'rxpk': [{'tmst': 3038701816, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICDApwIBz/o8A/Yv'}]}
0:21:19.841831	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02a7, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 3c03f62f)
0:21:19.843830	LOG	Server <---------- DUT
0:21:19.844829	LOG	Repeated frame. It does not count
0:21:23.913674	LOG	PULL_DATA: 02 4d52 02 aa555a0000240409
0:21:23.915673	LOG	PULL_ACK: 02 4d52 04
0:21:27.138836	LOG	PUSH_ACK: 02 04a8 01
0:21:27.140835	LOG	PUSH_DATA: Protocol version = 02, Token = 04a8, Identifier = 00, JSON = {'rxpk': [{'tmst': 3045990128, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAqAIBzXg3mG7g'}]}

0:21:27.142834	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02a8, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 37986ee0)
0:21:27.143834	LOG	Server <---------- DUT
0:21:27.145833	LOG	Count = 13
0:21:29.865782	LOG	PUSH_ACK: 02 04a9 01
0:21:29.867781	LOG	PUSH_DATA: Protocol version = 02, Token = 04a9, Identifier = 00, JSON = {'rxpk': [{'tmst': 3048706992, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 13.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAqAIBzXg3mG7g'}]}
0:21:29.869780	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02a8, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 37986ee0)
0:21:29.871778	LOG	Server <---------- DUT
0:21:29.872780	LOG	Repeated frame. It does not count
0:21:33.993326	LOG	PULL_DATA: 02 aeb9 02 aa555a0000240409
0:21:33.995325	LOG	PULL_ACK: 02 aeb9 04
0:21:37.166517	LOG	PUSH_ACK: 02 04aa 01
0:21:37.169516	LOG	PUSH_DATA: Protocol version = 02, Token = 04aa, Identifier = 00, JSON = {'rxpk': [{'tmst': 3055995296, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 12.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAqQIByrv4lvPE'}]}
0:21:37.171515	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02a9, FOpts:), FPort: 01, FRMPayload: 0034, MIC: f896f3c4)
0:21:37.172514	LOG	Server <---------- DUT
0:21:37.174514	LOG	Count = 14
0:21:39.845237	LOG	PUSH_ACK: 02 04ac 01
0:21:39.847236	LOG	PUSH_DATA: Protocol version = 02, Token = 04ac, Identifier = 00, JSON = {'rxpk': [{'tmst': 3058712160, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 13.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAqQIByrv4lvPE'}]}
0:21:39.848237	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02a9, FOpts:), FPort: 01, FRMPayload: 0034, MIC: f896f3c4)
0:21:39.849237	LOG	Server <---------- DUT
0:21:39.850236	LOG	Repeated frame. It does not count
0:21:44.073622	LOG	PULL_DATA: 02 b727 02 aa555a0000240409
0:21:44.076621	LOG	PULL_ACK: 02 b727 04
0:21:47.161862	LOG	PUSH_ACK: 02 04ae 01
0:21:47.163861	LOG	PUSH_DATA: Protocol version = 02, Token = 04ae, Identifier = 00, JSON = {'rxpk': [{'tmst': 3066000464, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAqgIBEg08rTpZ'}]}
0:21:47.165860	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02aa, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 3cad3a59)
0:21:47.166859	LOG	Server <---------- DUT
0:21:47.169857	LOG	Count = 15
0:21:49.889471	LOG	PUSH_ACK: 02 04af 01
0:21:49.891471	LOG	PUSH_DATA: Protocol version = 02, Token = 04af, Identifier = 00, JSON = {'rxpk': [{'tmst': 3068717336, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAqgIBEg08rTpZ'}]}
0:21:49.893469	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02aa, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 3cad3a59)
0:21:49.894468	LOG	Server <---------- DUT
0:21:49.896468	LOG	Repeated frame. It does not count
0:21:54.152772	LOG	PULL_DATA: 02 1347 02 aa555a0000240409
0:21:54.154771	LOG	PULL_ACK: 02 1347 04
0:21:57.138143	LOG	PUSH_ACK: 02 04b0 01

0:21:57.140142	LOG	PUSH_DATA: Protocol version = 02, Token = 04b0, Identifier = 00, JSON = {'rxpk': [{'tmst': 3076005640, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -43, 'size': 15, 'data': 'QCAgICDAqwIBz9BT+q6f'}]}
0:21:57.142140	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02ab, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 53faae9f)
0:21:57.144139	LOG	Server <---------- DUT
0:21:57.146139	LOG	Count = 16
0:21:59.866707	LOG	PUSH_ACK: 02 04b1 01
0:21:59.870703	LOG	PUSH_DATA: Protocol version = 02, Token = 04b1, Identifier = 00, JSON = {'rxpk': [{'tmst': 3078722488, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAqwIBz9BT+q6f'}]}
0:21:59.874698	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02ab, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 53faae9f)
0:21:59.876696	LOG	Server <---------- DUT
0:21:59.877695	LOG	Repeated frame. It does not count
0:22:04.232806	LOG	PULL_DATA: 02 647b 02 aa555a0000240409
0:22:04.234805	LOG	PULL_ACK: 02 647b 04
0:22:07.169133	LOG	PUSH_ACK: 02 04b2 01
0:22:07.171132	LOG	PUSH_DATA: Protocol version = 02, Token = 04b2, Identifier = 00, JSON = {'rxpk': [{'tmst': 3086010800, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICDArAIBcB3nKjZU'}]}
0:22:07.173131	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02ac, FOpts:), FPort: 01, FRMPayload: 0034, MIC: e72a3654)
0:22:07.175130	LOG	Server <---------- DUT
0:22:07.176129	LOG	Count = 17
0:22:09.897443	LOG	PUSH_ACK: 02 04b3 01
0:22:09.899443	LOG	PUSH_DATA: Protocol version = 02, Token = 04b3, Identifier = 00, JSON = {'rxpk': [{'tmst': 3088727672, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICDArAIBcB3nKjZU'}]}
0:22:09.900443	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02ac, FOpts:), FPort: 01, FRMPayload: 0034, MIC: e72a3654)
0:22:09.901443	LOG	Server <---------- DUT
0:22:09.902442	LOG	Repeated frame. It does not count
0:22:14.313305	LOG	PULL_DATA: 02 e937 02 aa555a0000240409
0:22:14.317303	LOG	PULL_ACK: 02 e937 04
0:22:17.161681	LOG	PUSH_ACK: 02 04b5 01
0:22:17.164680	LOG	PUSH_DATA: Protocol version = 02, Token = 04b5, Identifier = 00, JSON = {'rxpk': [{'tmst': 3096015976, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -44, 'size': 15, 'data': 'QCAgICDArQIBX+g2PtWw'}]}
0:22:17.166679	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02ad, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 363ed5b0)
0:22:17.167678	LOG	Server <---------- DUT
0:22:17.169677	LOG	Count = 18
0:22:19.890810	LOG	PUSH_ACK: 02 04b6 01
0:22:19.892809	LOG	PUSH_DATA: Protocol version = 02, Token = 04b6, Identifier = 00, JSON = {'rxpk': [{'tmst': 3098732848, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -43, 'size': 15, 'data': 'QCAgICDArQIBX+g2PtWw'}]}
0:22:19.894808	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02ad, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 363ed5b0)
0:22:19.897806	LOG	Server <---------- DUT

0:22:19.899805	LOG	Repeated frame. It does not count
0:22:24.392836	LOG	PULL_DATA: 02 abad 02 aa555a0000240409
0:22:24.394835	LOG	PULL_ACK: 02 abad 04
0:22:27.190241	LOG	PUSH_ACK: 02 04b7 01
0:22:27.192240	LOG	PUSH_DATA: Protocol version = 02, Token = 04b7, Identifier = 00, JSON = {'rxpk': [{'tmst': 3106021152, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICDArgIBraYkPgn3'}]}
0:22:27.194239	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02ae, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 243e09f7)
0:22:27.195240	LOG	Server <---------- DUT
0:22:27.197237	LOG	Count = 19
0:22:29.918534	LOG	PUSH_ACK: 02 04b8 01
0:22:29.921533	LOG	PUSH_DATA: Protocol version = 02, Token = 04b8, Identifier = 00, JSON = {'rxpk': [{'tmst': 3108738024, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICDArgIBraYkPgn3'}]}
0:22:29.922531	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02ae, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 243e09f7)
0:22:29.924530	LOG	Server <---------- DUT
0:22:29.926530	LOG	Repeated frame. It does not count
0:22:34.472506	LOG	PULL_DATA: 02 700b 02 aa555a0000240409
0:22:34.474506	LOG	PULL_ACK: 02 700b 04
0:22:37.167970	LOG	PUSH_ACK: 02 04b9 01
0:22:37.169969	LOG	PUSH_DATA: Protocol version = 02, Token = 04b9, Identifier = 00, JSON = {'rxpk': [{'tmst': 3116026336, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 12.5, 'rssi': -44, 'size': 15, 'data': 'QCAgICDArwIBvRs+aulc'}]}
0:22:37.171968	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02af, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 3e6ae95c)
0:22:37.172968	LOG	Server <---------- DUT
0:22:37.173969	LOG	Count = 20
0:22:39.896993	LOG	PUSH_ACK: 02 04ba 01
0:22:39.898992	LOG	PUSH_DATA: Protocol version = 02, Token = 04ba, Identifier = 00, JSON = {'rxpk': [{'tmst': 3118743184, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 12.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICDArwIBvRs+aulc'}]}
0:22:39.900991	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02af, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 3e6ae95c)
0:22:39.901990	LOG	Server <---------- DUT
0:22:39.903989	LOG	Repeated frame. It does not count
0:22:44.553106	LOG	PULL_DATA: 02 468b 02 aa555a0000240409
0:22:44.557103	LOG	PULL_ACK: 02 468b 04
0:22:47.212592	LOG	PUSH_ACK: 02 04bc 01
0:22:47.214590	LOG	PUSH_DATA: Protocol version = 02, Token = 04bc, Identifier = 00, JSON = {'rxpk': [{'tmst': 3126031488, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -43, 'size': 15, 'data': 'QCAgICDAsAIBALwe+vzE'}]}
0:22:47.216589	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02b0, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 1efafcc4)
0:22:47.217617	LOG	Server <---------- DUT
0:22:47.219589	LOG	Count = 21
0:22:49.888420	LOG	PUSH_ACK: 02 04bd 01
0:22:49.890419	LOG	PUSH_DATA: Protocol version = 02, Token = 04bd, Identifier = 00, JSON = {'rxpk': [{'tmst': 3128748360, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 12.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAsAIBALwe+vzE'}]}
0:22:49.892418	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02b0, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 1efafcc4)
0:22:49.894416	LOG	Server <---------- DUT
0:22:49.895416	LOG	Repeated frame. It does not count
0:22:54.632513	LOG	PULL_DATA: 02 27cd 02 aa555a0000240409
0:22:54.634511	LOG	PULL_ACK: 02 27cd 04
0:22:57.189055	LOG	PUSH_ACK: 02 04be 01
0:22:57.191054	LOG	PUSH_DATA: Protocol version = 02, Token = 04be, Identifier = 00, JSON = {'rxpk': [{'tmst': 3136036680, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAsQIBo36XOtZk'}]}
0:22:57.193053	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02b1, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 973ad664)
0:22:57.194053	LOG	Server <---------- DUT
0:22:57.196051	LOG	Count = 22
0:22:59.916661	LOG	PUSH_ACK: 02 04bf 01
0:22:59.918661	LOG	PUSH_DATA: Protocol version = 02, Token = 04bf, Identifier = 00, JSON = {'rxpk': [{'tmst': 3138753552, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAsQIBo36XOtZk'}]}
0:22:59.919661	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02b1, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 973ad664)
0:22:59.920661	LOG	Server <---------- DUT
0:22:59.922658	LOG	Repeated frame. It does not count
0:23:04.733119	LOG	PULL_DATA: 02 a358 02 aa555a0000240409
0:23:04.735117	LOG	PULL_ACK: 02 a358 04
0:23:07.217703	LOG	PUSH_ACK: 02 04c0 01
0:23:07.219702	LOG	PUSH_DATA: Protocol version = 02, Token = 04c0, Identifier = 00, JSON = {'rxpk': [{'tmst': 3146041856, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAsgIB0XxPZjiB'}]}
0:23:07.221704	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02b2, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 4f663881)
0:23:07.223699	LOG	Server <---------- DUT
0:23:07.224699	LOG	Count = 23
0:23:09.893802	LOG	PUSH_ACK: 02 04c1 01
0:23:09.896800	LOG	PUSH_DATA: Protocol version = 02, Token = 04c1, Identifier = 00, JSON = {'rxpk': [{'tmst': 3148758720, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 12.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAsgIB0XxPZjiB'}]}
0:23:09.898799	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02b2, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 4f663881)
0:23:09.899799	LOG	Server <---------- DUT
0:23:09.901797	LOG	Repeated frame. It does not count
0:23:14.812233	LOG	PULL_DATA: 02 3b97 02 aa555a0000240409
0:23:14.817231	LOG	PULL_ACK: 02 3b97 04
0:23:17.211866	LOG	PUSH_ACK: 02 04c3 01
0:23:17.213865	LOG	PUSH_DATA: Protocol version = 02, Token = 04c3, Identifier = 00, JSON = {'rxpk': [{'tmst': 3156047040, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 13.5, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAswIBKq1yih7A'}]}
0:23:17.215864	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02b3, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 728a1ec0)
0:23:17.217863	LOG	Server <---------- DUT

0:23:17.218862	LOG	Count = 24
0:23:19.940389	LOG	PUSH_ACK: 02 04c4 01
0:23:19.942385	LOG	PUSH_DATA: Protocol version = 02, Token = 04c4, Identifier = 00, JSON = {'rxpk': [{'tmst': 3158763896, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 12.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAswIBKq1yih7A'}]}
0:23:19.944385	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02b3, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 728a1ec0)
0:23:19.945386	LOG	Server <---------- DUT
0:23:19.947385	LOG	Repeated frame. It does not count
0:23:24.892578	LOG	PULL_DATA: 02 e316 02 aa555a0000240409
0:23:24.894577	LOG	PULL_ACK: 02 e316 04
0:23:27.189270	LOG	PUSH_ACK: 02 04c5 01
0:23:27.191269	LOG	PUSH_DATA: Protocol version = 02, Token = 04c5, Identifier = 00, JSON = {'rxpk': [{'tmst': 3166052232, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -43, 'size': 15, 'data': 'QCAgICDAtAIBbHUuonZg'}]}
0:23:27.193267	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02b4, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 2ea27660)
0:23:27.195266	LOG	Server <---------- DUT
0:23:27.197265	LOG	Count = 25
0:23:29.917136	LOG	PUSH_ACK: 02 04c6 01
0:23:29.920133	LOG	PUSH_DATA: Protocol version = 02, Token = 04c6, Identifier = 00, JSON = {'rxpk': [{'tmst': 3168769080, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAtAIBbHUuonZg'}]}
0:23:29.921133	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02b4, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 2ea27660)
0:23:29.923133	LOG	Server <---------- DUT
0:23:29.925132	LOG	Repeated frame. It does not count
0:23:34.972483	LOG	PULL_DATA: 02 14e2 02 aa555a0000240409
0:23:34.974482	LOG	PULL_ACK: 02 14e2 04
0:23:37.218203	LOG	PUSH_ACK: 02 04c7 01
0:23:37.220202	LOG	PUSH_DATA: Protocol version = 02, Token = 04c7, Identifier = 00, JSON = {'rxpk': [{'tmst': 3176057416, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAtQIBV/gAxHrR'}]}
0:23:37.222201	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02b5, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 00c47ad1)
0:23:37.224200	LOG	Server <---------- DUT
0:23:37.225199	LOG	Count = 26
0:23:39.945505	LOG	PUSH_ACK: 02 04c8 01
0:23:39.948504	LOG	PUSH_DATA: Protocol version = 02, Token = 04c8, Identifier = 00, JSON = {'rxpk': [{'tmst': 3178774288, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 13.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAtQIBV/gAxHrR'}]}
0:23:39.950502	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02b5, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 00c47ad1)
0:23:39.951501	LOG	Server <---------- DUT
0:23:39.953501	LOG	Repeated frame. It does not count
0:23:45.052424	LOG	PULL_DATA: 02 f828 02 aa555a0000240409
0:23:45.057421	LOG	PULL_ACK: 02 f828 04
0:23:47.211194	LOG	PUSH_ACK: 02 04ca 01
0:23:47.213192	LOG	PUSH_DATA: Protocol version = 02, Token = 04ca, Identifier = 00, JSON = {'rxpk': [{'tmst': 3186062616, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAtgIBVE9x4fVb'}]}
0:23:47.215192	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02b6, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 71e1f55b)
0:23:47.217190	LOG	Server <---------- DUT
0:23:47.218190	LOG	Count = 27
0:23:49.940945	LOG	PUSH_ACK: 02 04cb 01
0:23:49.942943	LOG	PUSH_DATA: Protocol version = 02, Token = 04cb, Identifier = 00, JSON = {'rxpk': [{'tmst': 3188779488, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 13.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAtgIBVE9x4fVb'}]}
0:23:49.944942	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02b6, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 71e1f55b)
0:23:49.946941	LOG	Server <---------- DUT
0:23:49.947940	LOG	Repeated frame. It does not count
0:23:55.132296	LOG	PULL_DATA: 02 9246 02 aa555a0000240409
0:23:55.134295	LOG	PULL_ACK: 02 9246 04
0:23:57.244092	LOG	PUSH_ACK: 02 04cc 01
0:23:57.246091	LOG	PUSH_DATA: Protocol version = 02, Token = 04cc, Identifier = 00, JSON = {'rxpk': [{'tmst': 3196067808, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 13.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAtwIB9fdRPGDQ'}]}
0:23:57.248090	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02b7, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 513c60d0)
0:23:57.250089	LOG	Server <---------- DUT
0:23:57.252088	LOG	Count = 28
0:23:59.922755	LOG	PUSH_ACK: 02 04cd 01
0:23:59.925753	LOG	PUSH_DATA: Protocol version = 02, Token = 04cd, Identifier = 00, JSON = {'rxpk': [{'tmst': 3198784688, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAtwIB9fdRPGDQ'}]}
0:23:59.927752	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02b7, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 513c60d0)
0:23:59.928751	LOG	Server <---------- DUT
0:23:59.930750	LOG	Repeated frame. It does not count
0:24:05.212173	LOG	PULL_DATA: 02 7a40 02 aa555a0000240409
0:24:05.214172	LOG	PULL_ACK: 02 7a40 04
0:24:07.226130	LOG	PUSH_ACK: 02 04ce 01
0:24:07.228129	LOG	PUSH_DATA: Protocol version = 02, Token = 04ce, Identifier = 00, JSON = {'rxpk': [{'tmst': 3206073000, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 12.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAuAIBIjIoNrqt'}]}
0:24:07.230129	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02b8, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 2836baad)
0:24:07.232127	LOG	Server <---------- DUT
0:24:07.233127	LOG	Count = 29
0:24:09.956452	LOG	PUSH_ACK: 02 04cf 01
0:24:09.958451	LOG	PUSH_DATA: Protocol version = 02, Token = 04cf, Identifier = 00, JSON = {'rxpk': [{'tmst': 3208789856, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAuAIBIjIoNrqt'}]}
0:24:09.960450	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02b8, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 2836baad)
0:24:09.962449	LOG	Server <---------- DUT
0:24:09.963448	LOG	Repeated frame. It does not count
0:24:15.292509	LOG	PULL_DATA: 02 ff32 02 aa555a0000240409

0:24:15.296506	LOG	PULL_ACK: 02 ff32 04
0:24:17.224408	LOG	PUSH_ACK: 02 04d1 01
0:24:17.226406	LOG	PUSH_DATA: Protocol version = 02, Token = 04d1, Identifier = 00, JSON = {'rxpk': [{'tmst': 3216078192, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAuQIBLwNxVojX'}]}
0:24:17.228405	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02b9, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 715688d7)
0:24:17.230404	LOG	Server <---------- DUT
0:24:17.232403	LOG	Count = 30
0:24:19.954724	LOG	PUSH_ACK: 02 04d2 01
0:24:19.957722	LOG	PUSH_DATA: Protocol version = 02, Token = 04d2, Identifier = 00, JSON = {'rxpk': [{'tmst': 3218795056, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 13.5, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAuQIBLwNxVojX'}]}
0:24:19.959719	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02b9, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 715688d7)
0:24:19.960718	LOG	Server <---------- DUT
0:24:19.962717	LOG	Repeated frame. It does not count
0:24:25.372387	LOG	PULL_DATA: 02 6712 02 aa555a0000240409
0:24:25.374386	LOG	PULL_ACK: 02 6712 04
0:24:27.257844	LOG	PUSH_ACK: 02 04d3 01
0:24:27.260843	LOG	PUSH_DATA: Protocol version = 02, Token = 04d3, Identifier = 00, JSON = {'rxpk': [{'tmst': 3226083360, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 13.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAugIBQU6BbdiA'}]}
0:24:27.262841	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02ba, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 816dd880)
0:24:27.264840	LOG	Server <---------- DUT
0:24:27.265840	LOG	Count = 31
0:24:29.936598	LOG	PUSH_ACK: 02 04d4 01
0:24:29.938597	LOG	PUSH_DATA: Protocol version = 02, Token = 04d4, Identifier = 00, JSON = {'rxpk': [{'tmst': 3228800232, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 12.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAugIBQU6BbdiA'}]}
0:24:29.940596	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02ba, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 816dd880)
0:24:29.941595	LOG	Server <---------- DUT
0:24:29.943594	LOG	Repeated frame. It does not count
0:24:35.461507	LOG	PULL_DATA: 02 79cb 02 aa555a0000240409
0:24:35.464506	LOG	PULL_ACK: 02 79cb 04
0:24:37.238657	LOG	PUSH_ACK: 02 04d5 01
0:24:37.241655	LOG	PUSH_DATA: Protocol version = 02, Token = 04d5, Identifier = 00, JSON = {'rxpk': [{'tmst': 3236088552, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAuwIBbFIQEmVl'}]}
0:24:37.242654	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02bb, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 10126565)
0:24:37.244653	LOG	Server <---------- DUT
0:24:37.246652	LOG	Count = 32
0:24:40.286405	LOG	PUSH_ACK: 02 04d7 01
0:24:40.289404	LOG	PUSH_DATA: Protocol version = 02, Token = 04d7, Identifier = 00, JSON = {'rxpk': [{'tmst': 3239135152, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -43, 'size': 15, 'data': 'QCAgICDAuwIBbFIQEmVl'}]}

0:24:40.291403	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02bb, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 10126565)
0:24:40.292403	LOG	Server <---------- DUT
0:24:40.294401	LOG	Repeated frame. It does not count
0:24:45.541620	LOG	PULL_DATA: 02 8e62 02 aa555a0000240409
0:24:45.546617	LOG	PULL_ACK: 02 8e62 04
0:24:47.589453	LOG	PUSH_ACK: 02 04d9 01
0:24:47.591452	LOG	PUSH_DATA: Protocol version = 02, Token = 04d9, Identifier = 00, JSON = {'rxpk': [{'tmst': 3246423432, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAvAIBGkihm5R+'}]}
0:24:47.593450	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02bc, FOpts:), FPort: 01, FRMPayload: 0034, MIC: a19b947e)
0:24:47.595449	LOG	Server <---------- DUT
0:24:47.596449	LOG	Count = 33
0:24:47.598448	LOG	Waiting for the retransmissions
0:24:50.625485	LOG	PUSH_ACK: 02 04da 01
0:24:50.628482	LOG	PUSH_DATA: Protocol version = 02, Token = 04da, Identifier = 00, JSON = {'rxpk': [{'tmst': 3249470040, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -49, 'size': 15, 'data': 'QCAgICDAvAIBGkihm5R+'}]}
0:24:50.630481	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02bc, FOpts:), FPort: 01, FRMPayload: 0034, MIC: a19b947e)
0:24:50.631481	LOG	Server <---------- DUT
0:24:50.647473	LOG	Expected number of uplink messages have been received
0:24:50.651469	LOG	Test adaptive data rate control in frame header process starts
0:24:55.631862	LOG	PULL_DATA: 02 0239 02 aa555a0000240409
0:24:55.633862	LOG	PULL_ACK: 02 0239 04
0:24:57.566760	LOG	PUSH_ACK: 02 04db 01
0:24:57.568759	LOG	PUSH_DATA: Protocol version = 02, Token = 04db, Identifier = 00, JSON = {'rxpk': [{'tmst': 3256428624, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -43, 'size': 15, 'data': 'QCAgICDAvQIBd7C0z97h'}]}
0:24:57.570758	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02bd, FOpts:), FPort: 01, FRMPayload: 0034, MIC: b4cfdee1)
0:24:57.571757	LOG	Server <---------- DUT
0:24:57.573756	LOG	Count = 2
0:25:00.653918	LOG	PUSH_ACK: 02 04dc 01
0:25:00.656917	LOG	PUSH_DATA: Protocol version = 02, Token = 04dc, Identifier = 00, JSON = {'rxpk': [{'tmst': 3259475232, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 12.5, 'rssi': -43, 'size': 15, 'data': 'QCAgICDAvQIBd7C0z97h'}]}
0:25:00.658916	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02bd, FOpts:), FPort: 01, FRMPayload: 0034, MIC: b4cfdee1)
0:25:00.659915	LOG	Server <---------- DUT
0:25:00.661914	LOG	Repeated frame. It does not count
0:25:05.711753	LOG	PULL_DATA: 02 1072 02 aa555a0000240409
0:25:05.713753	LOG	PULL_ACK: 02 1072 04
0:25:07.595544	LOG	PUSH_ACK: 02 04dd 01
0:25:07.597543	LOG	PUSH_DATA: Protocol version = 02, Token = 04dd, Identifier = 00, JSON = {'rxpk': [{'tmst': 3266433808, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 12.0, 'rssi': -49, 'size': 15, 'data': 'QCAgICDAvgIBsNEhS82c'}]}
0:25:07.599541	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02be, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 214bcd9c)
0:25:07.600541	LOG	Server <---------- DUT

0:25:07.602539	LOG	Count = 3
0:25:10.647428	LOG	PUSH_ACK: 02 04df 01
0:25:10.650426	LOG	PUSH_DATA: Protocol version = 02, Token = 04df, Identifier = 00, JSON = {'rxpk': [{'tmst': 3269480384, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 12.5, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAvgIBsNEhS82c'}]}
0:25:10.652425	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02be, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 214bcd9c)
0:25:10.653425	LOG	Server <---------- DUT
0:25:10.655424	LOG	Repeated frame. It does not count
0:25:15.791571	LOG	PULL_DATA: 02 4556 02 aa555a0000240409
0:25:15.796568	LOG	PULL_ACK: 02 4556 04
0:25:17.590546	LOG	PUSH_ACK: 02 04e0 01
0:25:17.592545	LOG	PUSH_DATA: Protocol version = 02, Token = 04e0, Identifier = 00, JSON = {'rxpk': [{'tmst': 3276438960, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -43, 'size': 15, 'data': 'QCAgICDAvwIBcdtZ7h2u'}]}
0:25:17.594544	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02bf, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 59ee1dae)
0:25:17.596542	LOG	Server <---------- DUT
0:25:17.597542	LOG	Count = 4
0:25:20.629995	LOG	PUSH_ACK: 02 04e1 01
0:25:20.630993	LOG	PUSH_DATA: Protocol version = 02, Token = 04e1, Identifier = 00, JSON = {'rxpk': [{'tmst': 3279485528, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -43, 'size': 15, 'data': 'QCAgICDAvwIBcdtZ7h2u'}]}
0:25:20.632993	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02bf, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 59ee1dae)
0:25:20.633993	LOG	Server <---------- DUT
0:25:20.635992	LOG	Repeated frame. It does not count
0:25:25.871729	LOG	PULL_DATA: 02 fd6c 02 aa555a0000240409
0:25:25.873728	LOG	PULL_ACK: 02 fd6c 04
0:25:27.623731	LOG	PUSH_ACK: 02 04e2 01
0:25:27.626729	LOG	PUSH_DATA: Protocol version = 02, Token = 04e2, Identifier = 00, JSON = {'rxpk': [{'tmst': 3286444136, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAwAIBZ1UMvI8K'}]}
0:25:27.628728	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02c0, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 0cbc8f0a)
0:25:27.629727	LOG	Server <---------- DUT
0:25:27.631726	LOG	Count = 5
0:25:30.663173	LOG	PUSH_ACK: 02 04e3 01
0:25:30.665171	LOG	PUSH_DATA: Protocol version = 02, Token = 04e3, Identifier = 00, JSON = {'rxpk': [{'tmst': 3289490752, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAwAIBZ1UMvI8K'}]}
0:25:30.667171	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02c0, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 0cbc8f0a)
0:25:30.670170	LOG	Server <---------- DUT
0:25:30.672168	LOG	Repeated frame. It does not count
0:25:35.961672	LOG	PULL_DATA: 02 23a0 02 aa555a0000240409
0:25:35.962672	LOG	PULL_ACK: 02 23a0 04
0:25:37.605691	LOG	PUSH_ACK: 02 04e4 01
0:25:37.608690	LOG	PUSH_DATA: Protocol version = 02, Token = 04e4, Identifier = 00, JSON = {'rxpk': [{'tmst': 3296449304, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 13.0, 'rssi': -43, 'size': 15, 'data': 'QCAgICDAwQIBRGQxTHHT'}]}
0:25:37.610689	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02c1, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 314c71d3)
0:25:37.611688	LOG	Server <---------- DUT
0:25:37.613687	LOG	Count = 6
0:25:40.657766	LOG	PUSH_ACK: 02 04e6 01
0:25:40.661766	LOG	PUSH_DATA: Protocol version = 02, Token = 04e6, Identifier = 00, JSON = {'rxpk': [{'tmst': 3299495896, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 12.2, 'rssi': -43, 'size': 15, 'data': 'QCAgICDAwQIBRGQxTHHT'}]}
0:25:40.662763	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02c1, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 314c71d3)
0:25:40.663766	LOG	Server <---------- DUT
0:25:40.665764	LOG	Repeated frame. It does not count
0:25:46.042180	LOG	PULL_DATA: 02 c45e 02 aa555a0000240409
0:25:46.046192	LOG	PULL_ACK: 02 c45e 04
0:25:47.601288	LOG	PUSH_ACK: 02 04e7 01
0:25:47.604286	LOG	PUSH_DATA: Protocol version = 02, Token = 04e7, Identifier = 00, JSON = {'rxpk': [{'tmst': 3306454480, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAwgIBqa4sPLd0'}]}
0:25:47.606285	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02c2, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 2c3cb774)
0:25:47.607285	LOG	Server <---------- DUT
0:25:47.609283	LOG	Count = 7
0:25:50.638474	LOG	PUSH_ACK: 02 04e8 01
0:25:50.641475	LOG	PUSH_DATA: Protocol version = 02, Token = 04e8, Identifier = 00, JSON = {'rxpk': [{'tmst': 3309501056, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAwgIBqa4sPLd0'}]}
0:25:50.643477	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02c2, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 2c3cb774)
0:25:50.645470	LOG	Server <---------- DUT
0:25:50.646470	LOG	Repeated frame. It does not count
0:25:56.121501	LOG	PULL_DATA: 02 38a7 02 aa555a0000240409
0:25:56.125495	LOG	PULL_ACK: 02 38a7 04
0:25:57.633386	LOG	PUSH_ACK: 02 04e9 01
0:25:57.635385	LOG	PUSH_DATA: Protocol version = 02, Token = 04e9, Identifier = 00, JSON = {'rxpk': [{'tmst': 3316459672, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -43, 'size': 15, 'data': 'QCAgICDAwwIB4KRdjoI5'}]}
0:25:57.637384	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02c3, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 5d8e8239)
0:25:57.639383	LOG	Server <---------- DUT
0:25:57.640383	LOG	Count = 8
0:26:00.671977	LOG	PUSH_ACK: 02 04ea 01
0:26:00.673976	LOG	PUSH_DATA: Protocol version = 02, Token = 04ea, Identifier = 00, JSON = {'rxpk': [{'tmst': 3319506280, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 14.2, 'rssi': -43, 'size': 15, 'data': 'QCAgICDAwwIB4KRdjoI5'}]}
0:26:00.675975	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02c3, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 5d8e8239)
0:26:00.677974	LOG	Server <---------- DUT
0:26:00.678973	LOG	Repeated frame. It does not count
0:26:06.201673	LOG	PULL_DATA: 02 754c 02 aa555a0000240409

0:26:06.203672	LOG	PULL_ACK: 02 754c 04
0:26:07.614976	LOG	PUSH_ACK: 02 04eb 01
0:26:07.617972	LOG	PUSH_DATA: Protocol version = 02, Token = 04eb, Identifier = 00, JSON = {'rxpk': [{'tmst': 3326464856, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAxAIBmtOWBALr'}]}
0:26:07.619971	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02c4, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 960402eb)
0:26:07.620970	LOG	Server <---------- DUT
0:26:07.622969	LOG	Count = 9
0:26:10.667495	LOG	PUSH_ACK: 02 04ed 01
0:26:10.669495	LOG	PUSH_DATA: Protocol version = 02, Token = 04ed, Identifier = 00, JSON = {'rxpk': [{'tmst': 3329511448, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 13.0, 'rssi': -49, 'size': 15, 'data': 'QCAgICDAxAIBmtOWBALr'}]}
0:26:10.671493	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02c4, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 960402eb)
0:26:10.673492	LOG	Server <---------- DUT
0:26:10.674492	LOG	Repeated frame. It does not count
0:26:16.281383	LOG	PULL_DATA: 02 896d 02 aa555a0000240409
0:26:16.286381	LOG	PULL_ACK: 02 896d 04
0:26:17.609626	LOG	PUSH_ACK: 02 04ee 01
0:26:17.612624	LOG	PUSH_DATA: Protocol version = 02, Token = 04ee, Identifier = 00, JSON = {'rxpk': [{'tmst': 3336470024, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -42, 'size': 15, 'data': 'QCAgICDAxQIBTulW/Gx0'}]}
0:26:17.613624	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02c5, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 56fc6c74)
0:26:17.615622	LOG	Server <---------- DUT
0:26:17.617621	LOG	Count = 10
0:26:20.699618	LOG	PUSH_ACK: 02 04ef 01
0:26:20.701617	LOG	PUSH_DATA: Protocol version = 02, Token = 04ef, Identifier = 00, JSON = {'rxpk': [{'tmst': 3339516624, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 14.2, 'rssi': -43, 'size': 15, 'data': 'QCAgICDAxQIBTulW/Gx0'}]}
0:26:20.703616	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02c5, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 56fc6c74)
0:26:20.704615	LOG	Server <---------- DUT
0:26:20.706614	LOG	Repeated frame. It does not count
0:26:26.361396	LOG	PULL_DATA: 02 741b 02 aa555a0000240409
0:26:26.363390	LOG	PULL_ACK: 02 741b 04
0:26:27.641582	LOG	PUSH_ACK: 02 04f0 01
0:26:27.644581	LOG	PUSH_DATA: Protocol version = 02, Token = 04f0, Identifier = 00, JSON = {'rxpk': [{'tmst': 3346475200, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -49, 'size': 15, 'data': 'QCAgICDAxgIBN4AS1lvM'}]}
0:26:27.646580	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02c6, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 12d65bcc)
0:26:27.647579	LOG	Server <---------- DUT
0:26:27.649578	LOG	Count = 11
0:26:30.680741	LOG	PUSH_ACK: 02 04f1 01
0:26:30.683739	LOG	PUSH_DATA: Protocol version = 02, Token = 04f1, Identifier = 00, JSON = {'rxpk': [{'tmst': 3349521792, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAxgIBN4AS1lvM'}]}

0:26:30.685738	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02c6, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 12d65bcc)
0:26:30.686738	LOG	Server <---------- DUT
0:26:30.688736	LOG	Repeated frame. It does not count
0:26:36.441458	LOG	PULL_DATA: 02 b3ef 02 aa555a0000240409
0:26:36.442459	LOG	PULL_ACK: 02 b3ef 04
0:26:37.624498	LOG	PUSH_ACK: 02 04f2 01
0:26:37.626497	LOG	PUSH_DATA: Protocol version = 02, Token = 04f2, Identifier = 00, JSON = {'rxpk': [{'tmst': 3356480384, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -43, 'size': 15, 'data': 'QCAgICDAxwIBQ9JPHVBW'}]}
0:26:37.627497	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02c7, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 4f1d5056)
0:26:37.629495	LOG	Server <---------- DUT
0:26:37.631495	LOG	Count = 12
0:26:40.674792	LOG	PUSH_ACK: 02 04f4 01
0:26:40.677790	LOG	PUSH_DATA: Protocol version = 02, Token = 04f4, Identifier = 00, JSON = {'rxpk': [{'tmst': 3359526960, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 14.5, 'rssi': -43, 'size': 15, 'data': 'QCAgICDAxwIBQ9JPHVBW'}]}
0:26:40.679789	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02c7, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 4f1d5056)
0:26:40.680788	LOG	Server <---------- DUT
0:26:40.682787	LOG	Repeated frame. It does not count
0:26:46.521210	LOG	PULL_DATA: 02 5bb2 02 aa555a0000240409
0:26:46.526207	LOG	PULL_ACK: 02 5bb2 04
0:26:47.667558	LOG	PUSH_ACK: 02 04f5 01
0:26:47.669556	LOG	PUSH_DATA: Protocol version = 02, Token = 04f5, Identifier = 00, JSON = {'rxpk': [{'tmst': 3366485552, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICDAyAIBLlSLQjeX'}]}
0:26:47.671554	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02c8, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 8b423797)
0:26:47.673553	LOG	Server <---------- DUT
0:26:47.674553	LOG	Count = 13
0:26:50.703683	LOG	PUSH_ACK: 02 04f6 01
0:26:50.707680	LOG	PUSH_DATA: Protocol version = 02, Token = 04f6, Identifier = 00, JSON = {'rxpk': [{'tmst': 3369532136, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAyAIBLlSLQjeX'}]}
0:26:50.710679	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02c8, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 8b423797)
0:26:50.711678	LOG	Server <---------- DUT
0:26:50.713677	LOG	Repeated frame. It does not count
0:26:56.600543	LOG	PULL_DATA: 02 21c2 02 aa555a0000240409
0:26:56.602542	LOG	PULL_ACK: 02 21c2 04
0:26:57.647946	LOG	PUSH_ACK: 02 04f7 01
0:26:57.649945	LOG	PUSH_DATA: Protocol version = 02, Token = 04f7, Identifier = 00, JSON = {'rxpk': [{'tmst': 3376490744, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -43, 'size': 15, 'data': 'QCAgICDAyQIBfDbct4jO'}]}
0:26:57.651944	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02c9, FOpts:), FPort: 01, FRMPayload: 0034, MIC: dcb788ce)
0:26:57.653942	LOG	Server <---------- DUT
0:26:57.655942	LOG	Count = 14
0:27:00.686644	LOG	PUSH_ACK: 02 04f8 01

0:27:00.688644	LOG	PUSH_DATA: Protocol version = 02, Token = 04f8, Identifier = 00, JSON = {'rxpk': [{'tmst': 3379537336, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -43, 'size': 15, 'data': 'QCAgICDAyQIBfDbct4jO'}]}
0:27:00.690642	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02c9, FOpts:), FPort: 01, FRMPayload: 0034, MIC: dcb788ce)
0:27:00.691641	LOG	Server <---------- DUT
0:27:00.693640	LOG	Repeated frame. It does not count
0:27:06.681415	LOG	PULL_DATA: 02 c59a 02 aa555a0000240409
0:27:06.682414	LOG	PULL_ACK: 02 c59a 04
0:27:07.679847	LOG	PUSH_ACK: 02 04f9 01
0:27:07.681844	LOG	PUSH_DATA: Protocol version = 02, Token = 04f9, Identifier = 00, JSON = {'rxpk': [{'tmst': 3386495928, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -49, 'size': 15, 'data': 'QCAgICDAygIBrX00xbDq'}]}
0:27:07.683843	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02ca, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 34c5b0ea)
0:27:07.684843	LOG	Server <---------- DUT
0:27:07.686842	LOG	Count = 15
0:27:10.727256	LOG	PUSH_ACK: 02 04fb 01
0:27:10.729255	LOG	PUSH_DATA: Protocol version = 02, Token = 04fb, Identifier = 00, JSON = {'rxpk': [{'tmst': 3389542528, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 14.5, 'rssi': -49, 'size': 15, 'data': 'QCAgICDAygIBrX00xbDq'}]}
0:27:10.731253	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02ca, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 34c5b0ea)
0:27:10.733252	LOG	Server <---------- DUT
0:27:10.735251	LOG	Repeated frame. It does not count
0:27:16.760715	LOG	PULL_DATA: 02 8e53 02 aa555a0000240409
0:27:16.765712	LOG	PULL_ACK: 02 8e53 04
0:27:17.670781	LOG	PUSH_ACK: 02 04fc 01
0:27:17.673780	LOG	PUSH_DATA: Protocol version = 02, Token = 04fc, Identifier = 00, JSON = {'rxpk': [{'tmst': 3396501104, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -43, 'size': 15, 'data': 'QCAgICDAywIBl+3azH/y'}]}
0:27:17.675778	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02cb, FOpts:), FPort: 01, FRMPayload: 0034, MIC: dacc7ff2)
0:27:17.677777	LOG	Server <---------- DUT
0:27:17.678776	LOG	Count = 16
0:27:20.709967	LOG	PUSH_ACK: 02 04fd 01
0:27:20.710965	LOG	PUSH_DATA: Protocol version = 02, Token = 04fd, Identifier = 00, JSON = {'rxpk': [{'tmst': 3399547712, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -43, 'size': 15, 'data': 'QCAgICDAywIBl+3azH/y'}]}
0:27:20.712963	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02cb, FOpts:), FPort: 01, FRMPayload: 0034, MIC: dacc7ff2)
0:27:20.713965	LOG	Server <---------- DUT
0:27:20.714964	LOG	Repeated frame. It does not count
0:27:26.841207	LOG	PULL_DATA: 02 fd90 02 aa555a0000240409
0:27:26.843206	LOG	PULL_ACK: 02 fd90 04
0:27:27.651293	LOG	PUSH_ACK: 02 04fe 01
0:27:27.653293	LOG	PUSH_DATA: Protocol version = 02, Token = 04fe, Identifier = 00, JSON = {'rxpk': [{'tmst': 3406506288, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 13.5, 'rssi': -49, 'size': 15, 'data': 'QCAgICDAzAIB+vRKCPCb'}]}

0:27:27.654293	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02cc, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 4a08f09b)
0:27:27.656290	LOG	Server <---------- DUT
0:27:27.657291	LOG	Count = 17
0:27:30.740915	LOG	PUSH_ACK: 02 04ff 01
0:27:30.742914	LOG	PUSH_DATA: Protocol version = 02, Token = 04ff, Identifier = 00, JSON = {'rxpk': [{'tmst': 3409552888, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 13.5, 'rssi': -49, 'size': 15, 'data': 'QCAgICDAzAIB+vRKCPCb'}]}
0:27:30.744913	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02cc, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 4a08f09b)
0:27:30.746912	LOG	Server <---------- DUT
0:27:30.747911	LOG	Repeated frame. It does not count
0:27:36.920488	LOG	PULL_DATA: 02 8c0d 02 aa555a0000240409
0:27:36.922487	LOG	PULL_ACK: 02 8c0d 04
0:27:37.685107	LOG	PUSH_ACK: 02 0500 01
0:27:37.690104	LOG	PUSH_DATA: Protocol version = 02, Token = 0500, Identifier = 00, JSON = {'rxpk': [{'tmst': 3416511472, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -43, 'size': 15, 'data': 'QCAgICDAzQIBEzjAC9+d'}]}
0:27:37.694106	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02cd, FOpts:), FPort: 01, FRMPayload: 0034, MIC: c00bdf9d)
0:27:37.697104	LOG	Server <---------- DUT
0:27:37.701102	LOG	Count = 18
0:27:40.737866	LOG	PUSH_ACK: 02 0502 01
0:27:40.739837	LOG	PUSH_DATA: Protocol version = 02, Token = 0502, Identifier = 00, JSON = {'rxpk': [{'tmst': 3419558072, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -43, 'size': 15, 'data': 'QCAgICDAzQIBEzjAC9+d'}]}
0:27:40.741864	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02cd, FOpts:), FPort: 01, FRMPayload: 0034, MIC: c00bdf9d)
0:27:40.742862	LOG	Server <---------- DUT
0:27:40.744863	LOG	Repeated frame. It does not count
0:27:47.000274	LOG	PULL_DATA: 02 03d1 02 aa555a0000240409
0:27:47.004245	LOG	PULL_ACK: 02 03d1 04
0:27:47.678526	LOG	PUSH_ACK: 02 0503 01
0:27:47.680524	LOG	PUSH_DATA: Protocol version = 02, Token = 0503, Identifier = 00, JSON = {'rxpk': [{'tmst': 3426516648, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAzgIBhjvT57cq'}]}
0:27:47.682524	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02ce, FOpts:), FPort: 01, FRMPayload: 0034, MIC: d3e7b72a)
0:27:47.683522	LOG	Server <---------- DUT
0:27:47.685522	LOG	Count = 19
0:27:50.714304	LOG	PUSH_ACK: 02 0504 01
0:27:50.716303	LOG	PUSH_DATA: Protocol version = 02, Token = 0504, Identifier = 00, JSON = {'rxpk': [{'tmst': 3429563256, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 13.8, 'rssi': -49, 'size': 15, 'data': 'QCAgICDAzgIBhjvT57cq'}]}
0:27:50.718302	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02ce, FOpts:), FPort: 01, FRMPayload: 0034, MIC: d3e7b72a)
0:27:50.719303	LOG	Server <---------- DUT
0:27:50.721300	LOG	Repeated frame. It does not count
0:27:57.080338	LOG	PULL_DATA: 02 6300 02 aa555a0000240409
0:27:57.082320	LOG	PULL_ACK: 02 6300 04
0:27:57.707667	LOG	PUSH_ACK: 02 0505 01

0:27:57.709665	LOG	PUSH_DATA: Protocol version = 02, Token = 0505, Identifier = 00, JSON = {'rxpk': [{'tmst': 3436521824, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -43, 'size': 15, 'data': 'QCAgICDAzwIB4yr/74fI'}]}
0:27:57.711664	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02cf, FOpts:), FPort: 01, FRMPayload: 0034, MIC: ffef87c8)
0:27:57.712665	LOG	Server <---------- DUT
0:27:57.713664	LOG	Count = 20
0:28:00.745111	LOG	PUSH_ACK: 02 0506 01
0:28:00.748109	LOG	PUSH_DATA: Protocol version = 02, Token = 0506, Identifier = 00, JSON = {'rxpk': [{'tmst': 3439568416, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -43, 'size': 15, 'data': 'QCAgICDAzwIB4yr/74fI'}]}
0:28:00.749108	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02cf, FOpts:), FPort: 01, FRMPayload: 0034, MIC: ffef87c8)
0:28:00.750108	LOG	Server <---------- DUT
0:28:00.752107	LOG	Repeated frame. It does not count
0:28:07.160249	LOG	PULL_DATA: 02 3d86 02 aa555a0000240409
0:28:07.162228	LOG	PULL_ACK: 02 3d86 04
0:28:07.687232	LOG	PUSH_ACK: 02 0507 01
0:28:07.689231	LOG	PUSH_DATA: Protocol version = 02, Token = 0507, Identifier = 00, JSON = {'rxpk': [{'tmst': 3446527000, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICDA0AIBntyZWYAh'}]}
0:28:07.691229	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02d0, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 99598021)
0:28:07.693228	LOG	Server <---------- DUT
0:28:07.695227	LOG	Count = 21
0:28:10.736472	LOG	PUSH_ACK: 02 0509 01
0:28:10.737471	LOG	PUSH_DATA: Protocol version = 02, Token = 0509, Identifier = 00, JSON = {'rxpk': [{'tmst': 3449573608, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICDA0AIBntyZWYAh'}]}
0:28:10.740469	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02d0, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 99598021)
0:28:10.742467	LOG	Server <---------- DUT
0:28:10.744467	LOG	Repeated frame. It does not count
0:28:17.240390	LOG	PULL_DATA: 02 a101 02 aa555a0000240409
0:28:17.243389	LOG	PULL_ACK: 02 a101 04
0:28:17.675551	LOG	PUSH_ACK: 02 050a 01
0:28:17.678550	LOG	PUSH_DATA: Protocol version = 02, Token = 050a, Identifier = 00, JSON = {'rxpk': [{'tmst': 3456532152, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 12.0, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA0QIBnm7R2tDL'}]}
0:28:17.679549	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02d1, FOpts:), FPort: 01, FRMPayload: 0034, MIC: d1dad0cb)
0:28:17.681548	LOG	Server <---------- DUT
0:28:17.682547	LOG	Count = 22
0:28:20.764968	LOG	PUSH_ACK: 02 050b 01
0:28:20.766967	LOG	PUSH_DATA: Protocol version = 02, Token = 050b, Identifier = 00, JSON = {'rxpk': [{'tmst': 3459578768, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA0QIBnm7R2tDL'}]}
0:28:20.767967	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02d1, FOpts:), FPort: 01, FRMPayload: 0034, MIC: d1dad0cb)
0:28:20.768965	LOG	Server <---------- DUT

0:28:20.770964	LOG	Repeated frame. It does not count
0:28:27.320574	LOG	PULL_DATA: 02 e4d9 02 aa555a0000240409
0:28:27.322574	LOG	PULL_ACK: 02 e4d9 04
0:28:27.707355	LOG	PUSH_ACK: 02 050c 01
0:28:27.709353	LOG	PUSH_DATA: Protocol version = 02, Token = 050c, Identifier = 00, JSON = {'rxpk': [{'tmst': 3466537344, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 13.2, 'rssi': -49, 'size': 15, 'data': 'QCAgICDA0gIBogkqgUSw'}]}
0:28:27.710353	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02d2, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 2a8144b0)
0:28:27.712351	LOG	Server <---------- DUT
0:28:27.714350	LOG	Count = 23
0:28:30.744622	LOG	PUSH_ACK: 02 050d 01
0:28:30.746622	LOG	PUSH_DATA: Protocol version = 02, Token = 050d, Identifier = 00, JSON = {'rxpk': [{'tmst': 3469583928, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 14.0, 'rssi': -49, 'size': 15, 'data': 'QCAgICDA0gIBogkqgUSw'}]}
0:28:30.748620	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02d2, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 2a8144b0)
0:28:30.750620	LOG	Server <---------- DUT
0:28:30.751619	LOG	Repeated frame. It does not count
0:28:37.399794	LOG	PULL_DATA: 02 a859 02 aa555a0000240409
0:28:37.402791	LOG	PULL_ACK: 02 a859 04
0:28:37.686628	LOG	PUSH_ACK: 02 050e 01
0:28:37.688628	LOG	PUSH_DATA: Protocol version = 02, Token = 050e, Identifier = 00, JSON = {'rxpk': [{'tmst': 3476542512, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA0wIBXq6LX0en'}]}
0:28:37.689627	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02d3, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 8b5f47a7)
0:28:37.691626	LOG	Server <---------- DUT
0:28:37.692627	LOG	Count = 24
0:28:40.734905	LOG	PUSH_ACK: 02 0510 01
0:28:40.737904	LOG	PUSH_DATA: Protocol version = 02, Token = 0510, Identifier = 00, JSON = {'rxpk': [{'tmst': 3479589112, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA0wIBXq6LX0en'}]}
0:28:40.738903	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02d3, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 8b5f47a7)
0:28:40.741901	LOG	Server <---------- DUT
0:28:40.743900	LOG	Repeated frame. It does not count
0:28:47.499950	LOG	PULL_DATA: 02 2531 02 aa555a0000240409
0:28:47.504949	LOG	PULL_ACK: 02 2531 04
0:28:47.727821	LOG	PUSH_ACK: 02 0511 01
0:28:47.728820	LOG	PUSH_DATA: Protocol version = 02, Token = 0511, Identifier = 00, JSON = {'rxpk': [{'tmst': 3486547688, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICDA1AIB1BXTrKE7'}]}
0:28:47.730819	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02d4, FOpts:), FPort: 01, FRMPayload: 0034, MIC: d3aca13b)
0:28:47.731819	LOG	Server <---------- DUT
0:28:47.733818	LOG	Count = 25
0:28:50.762507	LOG	PUSH_ACK: 02 0512 01
0:28:50.765506	LOG	PUSH_DATA: Protocol version = 02, Token = 0512, Identifier = 00, JSON = {'rxpk': [{'tmst': 3489594280, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 14.2, 'rssi': -49, 'size': 15, 'data': 'QCAgICDA1AIB1BXTrKE7'}]}
0:28:50.767505	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02d4, FOpts:), FPort: 01, FRMPayload: 0034, MIC: d3aca13b)
0:28:50.768504	LOG	Server <---------- DUT
0:28:50.770503	LOG	Repeated frame. It does not count
0:28:57.579719	LOG	PULL_DATA: 02 c79a 02 aa555a0000240409
0:28:57.581717	LOG	PULL_ACK: 02 c79a 04
0:28:57.705648	LOG	PUSH_ACK: 02 0513 01
0:28:57.711644	LOG	PUSH_DATA: Protocol version = 02, Token = 0513, Identifier = 00, JSON = {'rxpk': [{'tmst': 3496552872, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA1QIB/i/WVYzL'}]}
0:28:57.712643	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02d5, FOpts:), FPort: 01, FRMPayload: 0034, MIC: d6558ccb)
0:28:57.714642	LOG	Server <---------- DUT
0:28:57.716640	LOG	Count = 26
0:29:00.746323	LOG	PUSH_ACK: 02 0514 01
0:29:00.749322	LOG	PUSH_DATA: Protocol version = 02, Token = 0514, Identifier = 00, JSON = {'rxpk': [{'tmst': 3499599448, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 14.5, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA1QIB/i/WVYzL'}]}
0:29:00.751321	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02d5, FOpts:), FPort: 01, FRMPayload: 0034, MIC: d6558ccb)
0:29:00.752320	LOG	Server <---------- DUT
0:29:00.754319	LOG	Repeated frame. It does not count
0:29:07.660345	LOG	PULL_DATA: 02 4c7a 02 aa555a0000240409
0:29:07.662344	LOG	PULL_ACK: 02 4c7a 04
0:29:07.740299	LOG	PUSH_ACK: 02 0515 01
0:29:07.743299	LOG	PUSH_DATA: Protocol version = 02, Token = 0515, Identifier = 00, JSON = {'rxpk': [{'tmst': 3506558040, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 12.5, 'rssi': -49, 'size': 15, 'data': 'QCAgICDA1gIBS+gOseJm'}]}
0:29:07.744298	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02d6, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 0eb1e266)
0:29:07.745298	LOG	Server <---------- DUT
0:29:07.747296	LOG	Count = 27
0:29:10.786981	LOG	PUSH_ACK: 02 0517 01
0:29:10.789979	LOG	PUSH_DATA: Protocol version = 02, Token = 0517, Identifier = 00, JSON = {'rxpk': [{'tmst': 3509604656, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICDA1gIBS+gOseJm'}]}
0:29:10.790978	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02d6, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 0eb1e266)
0:29:10.792977	LOG	Server <---------- DUT
0:29:10.793977	LOG	Repeated frame. It does not count
0:29:17.730033	LOG	PUSH_ACK: 02 0518 01
0:29:17.733031	LOG	PUSH_DATA: Protocol version = 02, Token = 0518, Identifier = 00, JSON = {'rxpk': [{'tmst': 3516563232, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA1wIBIXj6h1IK'}]}
0:29:17.735030	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02d7, FOpts:), FPort: 01, FRMPayload: 0034, MIC: fa87520a)
0:29:17.736030	LOG	Server <---------- DUT
0:29:17.738029	LOG	Count = 28
0:29:17.741027	LOG	PULL_DATA: 02 89a7 02 aa555a0000240409

0:29:17.742027	LOG	PULL_ACK: 02 89a7 04
0:29:20.769297	LOG	PUSH_ACK: 02 0519 01
0:29:20.771296	LOG	PUSH_DATA: Protocol version = 02, Token = 0519, Identifier = 00, JSON = {'rxpk': [{'tmst': 3519609816, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 12.0, 'rssi': -42, 'size': 15, 'data': 'QCAgICDA1wIBIXj6h1IK'}]}
0:29:20.773296	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02d7, FOpts:), FPort: 01, FRMPayload: 0034, MIC: fa87520a)
0:29:20.774295	LOG	Server <---------- DUT
0:29:20.776293	LOG	Repeated frame. It does not count
0:29:27.711781	LOG	PUSH_ACK: 02 051a 01
0:29:27.714780	LOG	PUSH_DATA: Protocol version = 02, Token = 051a, Identifier = 00, JSON = {'rxpk': [{'tmst': 3526568416, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -49, 'size': 15, 'data': 'QCAgICDA2AIBwgHL/drr'}]}
0:29:27.716779	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02d8, FOpts:), FPort: 01, FRMPayload: 0034, MIC: cbfddaeb)
0:29:27.717778	LOG	Server <---------- DUT
0:29:27.719777	LOG	Count = 29
0:29:27.819955	LOG	PULL_DATA: 02 2daa 02 aa555a0000240409
0:29:27.824954	LOG	PULL_ACK: 02 2daa 04
0:29:30.802106	LOG	PUSH_ACK: 02 051b 01
0:29:30.805104	LOG	PUSH_DATA: Protocol version = 02, Token = 051b, Identifier = 00, JSON = {'rxpk': [{'tmst': 3529615016, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -47, 'size': 15, 'data': 'QCAgICDA2AIBwgHL/drr'}]}
0:29:30.806103	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02d8, FOpts:), FPort: 01, FRMPayload: 0034, MIC: cbfddaeb)
0:29:30.808102	LOG	Server <---------- DUT
0:29:30.810101	LOG	Repeated frame. It does not count
0:29:37.747095	LOG	PUSH_ACK: 02 051d 01
0:29:37.750093	LOG	PUSH_DATA: Protocol version = 02, Token = 051d, Identifier = 00, JSON = {'rxpk': [{'tmst': 3536573600, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 12.5, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA2QIBrdsEIzTS'}]}
0:29:37.752092	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02d9, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 042334d2)
0:29:37.753091	LOG	Server <---------- DUT
0:29:37.755091	LOG	Count = 30
0:29:37.899999	LOG	PULL_DATA: 02 6af2 02 aa555a0000240409
0:29:37.900999	LOG	PULL_ACK: 02 6af2 04
0:29:40.796207	LOG	PUSH_ACK: 02 051f 01
0:29:40.798186	LOG	PUSH_DATA: Protocol version = 02, Token = 051f, Identifier = 00, JSON = {'rxpk': [{'tmst': 3539620200, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA2QIBrdsEIzTS'}]}
0:29:40.800185	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02d9, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 042334d2)
0:29:40.801184	LOG	Server <---------- DUT
0:29:40.803183	LOG	Repeated frame. It does not count
0:29:47.738164	LOG	PUSH_ACK: 02 0520 01
0:29:47.741163	LOG	PUSH_DATA: Protocol version = 02, Token = 0520, Identifier = 00, JSON = {'rxpk': [{'tmst': 3546578776, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -47, 'size': 15, 'data': 'QCAgICDA2gIBBFWsUkiS'}]}

0:29:47.746159	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02da, FOpts:), FPort: 01, FRMPayload: 0034, MIC: ac524892)
0:29:47.747158	LOG	Server <---------- DUT
0:29:47.749158	LOG	Count = 31
0:29:47.979678	LOG	PULL_DATA: 02 44f8 02 aa555a0000240409
0:29:47.981677	LOG	PULL_ACK: 02 44f8 04
0:29:50.775491	LOG	PUSH_ACK: 02 0521 01
0:29:50.777491	LOG	PUSH_DATA: Protocol version = 02, Token = 0521, Identifier = 00, JSON = {'rxpk': [{'tmst': 3549625384, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 13.0, 'rssi': -47, 'size': 15, 'data': 'QCAgICDA2gIBBFWsUkiS'}]}
0:29:50.779489	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02da, FOpts:), FPort: 01, FRMPayload: 0034, MIC: ac524892)
0:29:50.781488	LOG	Server <---------- DUT
0:29:50.782488	LOG	Repeated frame. It does not count
0:29:57.767511	LOG	PUSH_ACK: 02 0522 01
0:29:57.770510	LOG	PUSH_DATA: Protocol version = 02, Token = 0522, Identifier = 00, JSON = {'rxpk': [{'tmst': 3556583960, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA2wIBXhEBhslQ'}]}
0:29:57.772509	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02db, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 0186c950)
0:29:57.773508	LOG	Server <---------- DUT
0:29:57.775507	LOG	Count = 32
0:29:58.059534	LOG	PULL_DATA: 02 4541 02 aa555a0000240409
0:29:58.060517	LOG	PULL_ACK: 02 4541 04
0:30:01.318260	LOG	PUSH_ACK: 02 0523 01
0:30:01.320263	LOG	PUSH_DATA: Protocol version = 02, Token = 0523, Identifier = 00, JSON = {'rxpk': [{'tmst': 3560126192, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA2wIBXhEBhslQ'}]}
0:30:01.322258	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02db, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 0186c950)
0:30:01.323259	LOG	Server <---------- DUT
0:30:01.325257	LOG	Repeated frame. It does not count
0:30:08.139640	LOG	PULL_DATA: 02 88d1 02 aa555a0000240409
0:30:08.141640	LOG	PULL_ACK: 02 88d1 04
0:30:08.258952	LOG	PUSH_ACK: 02 0524 01
0:30:08.260951	LOG	PUSH_DATA: Protocol version = 02, Token = 0524, Identifier = 00, JSON = {'rxpk': [{'tmst': 3567084752, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -42, 'size': 15, 'data': 'QCAgICDA3AIBZIUVDddo'}]}
0:30:08.262951	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02dc, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 150dd768)
0:30:08.264950	LOG	Server <---------- DUT
0:30:08.265950	LOG	Count = 33
0:30:08.267947	LOG	Waiting for the retransmissions
0:30:11.824747	LOG	PUSH_ACK: 02 0526 01
0:30:11.827745	LOG	PUSH_DATA: Protocol version = 02, Token = 0526, Identifier = 00, JSON = {'rxpk': [{'tmst': 3570626984, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICDA3AIBZIUVDddo'}]}
0:30:11.829744	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02dc, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 150dd768)
0:30:11.830744	LOG	Server <---------- DUT
0:30:11.849733	LOG	Expected number of uplink messages have been received

0:30:11.853730	LOG	Test adaptive data rate control in frame header process starts
0:30:18.219482	LOG	PULL_DATA: 02 4e8b 02 aa555a0000240409
0:30:18.224479	LOG	PULL_ACK: 02 4e8b 04
0:30:18.253462	LOG	PUSH_ACK: 02 0527 01
0:30:18.256461	LOG	PUSH_DATA: Protocol version = 02, Token = 0527, Identifier = 00, JSON = {'rxpk': [{'tmst': 3577089952, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.0, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA3QIBmU1LltG2'}]}
0:30:18.257462	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02dd, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 4b96d1b6)
0:30:18.258462	LOG	Server <---------- DUT
0:30:18.259461	LOG	Count = 2
0:30:21.804864	LOG	PUSH_ACK: 02 0528 01
0:30:21.807863	LOG	PUSH_DATA: Protocol version = 02, Token = 0528, Identifier = 00, JSON = {'rxpk': [{'tmst': 3580632176, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA3QIBmU1LltG2'}]}
0:30:21.809861	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02dd, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 4b96d1b6)
0:30:21.811860	LOG	Server <---------- DUT
0:30:21.812859	LOG	Repeated frame. It does not count
0:30:28.286167	LOG	PUSH_ACK: 02 0529 01
0:30:28.289167	LOG	PUSH_DATA: Protocol version = 02, Token = 0529, Identifier = 00, JSON = {'rxpk': [{'tmst': 3587095144, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.0, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA3gIBQzXkqKdw'}]}
0:30:28.291164	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02de, FOpts:), FPort: 01, FRMPayload: 0034, MIC: e4a8a770)
0:30:28.292164	LOG	Server <---------- DUT
0:30:28.294162	LOG	Count = 3
0:30:28.299159	LOG	PULL_DATA: 02 a3b1 02 aa555a0000240409
0:30:28.301159	LOG	PULL_ACK: 02 a3b1 04
0:30:31.838823	LOG	PUSH_ACK: 02 052a 01
0:30:31.841822	LOG	PUSH_DATA: Protocol version = 02, Token = 052a, Identifier = 00, JSON = {'rxpk': [{'tmst': 3590637344, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICDA3gIBQzXkqKdw'}]}
0:30:31.843821	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02de, FOpts:), FPort: 01, FRMPayload: 0034, MIC: e4a8a770)
0:30:31.844820	LOG	Server <---------- DUT
0:30:31.846819	LOG	Repeated frame. It does not count
0:30:38.268159	LOG	PUSH_ACK: 02 052b 01
0:30:38.271158	LOG	PUSH_DATA: Protocol version = 02, Token = 052b, Identifier = 00, JSON = {'rxpk': [{'tmst': 3597100328, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 7.8, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA3wIB1rF/EjrA'}]}
0:30:38.273156	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02df, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 7f123ac0)
0:30:38.274155	LOG	Server <---------- DUT
0:30:38.276154	LOG	Count = 4
0:30:38.379683	LOG	PULL_DATA: 02 8ce0 02 aa555a0000240409
0:30:38.380683	LOG	PULL_ACK: 02 8ce0 04
0:30:41.833472	LOG	PUSH_ACK: 02 052d 01
0:30:41.836471	LOG	PUSH_DATA: Protocol version = 02, Token = 052d, Identifier = 00, JSON = {'rxpk': [{'tmst': 3600642528, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA3wIB1rF/EjrA'}]}
0:30:41.838470	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02df, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 7f123ac0)
0:30:41.839469	LOG	Server <---------- DUT
0:30:41.841468	LOG	Repeated frame. It does not count
0:30:48.262472	LOG	PUSH_ACK: 02 052e 01
0:30:48.268469	LOG	PUSH_DATA: Protocol version = 02, Token = 052e, Identifier = 00, JSON = {'rxpk': [{'tmst': 3607105512, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICDA4AIB22QPuFvu'}]}
0:30:48.269468	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02e0, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 0fb85bee)
0:30:48.271467	LOG	Server <---------- DUT
0:30:48.273466	LOG	Count = 5
0:30:48.459352	LOG	PULL_DATA: 02 372d 02 aa555a0000240409
0:30:48.461350	LOG	PULL_ACK: 02 372d 04
0:30:51.815949	LOG	PUSH_ACK: 02 052f 01
0:30:51.817948	LOG	PUSH_DATA: Protocol version = 02, Token = 052f, Identifier = 00, JSON = {'rxpk': [{'tmst': 3610647736, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICDA4AIB22QPuFvu'}]}
0:30:51.819948	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02e0, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 0fb85bee)
0:30:51.820947	LOG	Server <---------- DUT
0:30:51.821946	LOG	Repeated frame. It does not count
0:30:58.295114	LOG	PUSH_ACK: 02 0530 01
0:30:58.297113	LOG	PUSH_DATA: Protocol version = 02, Token = 0530, Identifier = 00, JSON = {'rxpk': [{'tmst': 3617110712, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA4QIBftwMbn6R'}]}
0:30:58.299111	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02e1, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 0c6e7e91)
0:30:58.300111	LOG	Server <---------- DUT
0:30:58.302110	LOG	Count = 6
0:30:58.539361	LOG	PULL_DATA: 02 e21c 02 aa555a0000240409
0:30:58.541360	LOG	PULL_ACK: 02 e21c 04
0:31:01.844569	LOG	PUSH_ACK: 02 0531 01
0:31:01.847568	LOG	PUSH_DATA: Protocol version = 02, Token = 0531, Identifier = 00, JSON = {'rxpk': [{'tmst': 3620652920, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA4QIBftwMbn6R'}]}
0:31:01.848567	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02e1, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 0c6e7e91)
0:31:01.850566	LOG	Server <---------- DUT
0:31:01.851565	LOG	Repeated frame. It does not count
0:31:08.271876	LOG	PUSH_ACK: 02 0532 01
0:31:08.274874	LOG	PUSH_DATA: Protocol version = 02, Token = 0532, Identifier = 00, JSON = {'rxpk': [{'tmst': 3627115896, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICDA4gIBtBo3GG93'}]}
0:31:08.276873	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02e2, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 37186f77)
0:31:08.277873	LOG	Server <---------- DUT
0:31:08.279872	LOG	Count = 7
0:31:08.619379	LOG	PULL_DATA: 02 068a 02 aa555a0000240409

0:31:08.621379	LOG	PULL_ACK: 02 068a 04
0:31:11.833606	LOG	PUSH_ACK: 02 0534 01
0:31:11.836605	LOG	PUSH_DATA: Protocol version = 02, Token = 0534, Identifier = 00, JSON = {'rxpk': [{'tmst': 3630658120, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICDA4gIBtBo3GG93'}]}
0:31:11.838603	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02e2, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 37186f77)
0:31:11.839603	LOG	Server <---------- DUT
0:31:11.841601	LOG	Repeated frame. It does not count
0:31:18.312756	LOG	PUSH_ACK: 02 0535 01
0:31:18.317754	LOG	PUSH_DATA: Protocol version = 02, Token = 0535, Identifier = 00, JSON = {'rxpk': [{'tmst': 3637121080, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA4wIBOEULMQ2V'}]}
0:31:18.319752	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02e3, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 0b310d95)
0:31:18.320752	LOG	Server <---------- DUT
0:31:18.322751	LOG	Count = 8
0:31:18.699504	LOG	PULL_DATA: 02 752b 02 aa555a0000240409
0:31:18.701503	LOG	PULL_ACK: 02 752b 04
0:31:21.813508	LOG	PUSH_ACK: 02 0536 01
0:31:21.815506	LOG	PUSH_DATA: Protocol version = 02, Token = 0536, Identifier = 00, JSON = {'rxpk': [{'tmst': 3640663296, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA4wIBOEULMQ2V'}]}
0:31:21.816508	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02e3, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 0b310d95)
0:31:21.817508	LOG	Server <---------- DUT
0:31:21.819504	LOG	Repeated frame. It does not count
0:31:28.292109	LOG	PUSH_ACK: 02 0537 01
0:31:28.295105	LOG	PUSH_DATA: Protocol version = 02, Token = 0537, Identifier = 00, JSON = {'rxpk': [{'tmst': 3647126272, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICDA5AIBhwm2Ieu6'}]}
0:31:28.296105	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02e4, FOpts:), FPort: 01, FRMPayload: 0034, MIC: b621ebba)
0:31:28.298103	LOG	Server <---------- DUT
0:31:28.300103	LOG	Count = 9
0:31:28.779120	LOG	PULL_DATA: 02 bc3c 02 aa555a0000240409
0:31:28.781119	LOG	PULL_ACK: 02 bc3c 04
0:31:31.842311	LOG	PUSH_ACK: 02 0538 01
0:31:31.844311	LOG	PUSH_DATA: Protocol version = 02, Token = 0538, Identifier = 00, JSON = {'rxpk': [{'tmst': 3650668480, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICDA5AIBhwm2Ieu6'}]}
0:31:31.846311	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02e4, FOpts:), FPort: 01, FRMPayload: 0034, MIC: b621ebba)
0:31:31.847309	LOG	Server <---------- DUT
0:31:31.849307	LOG	Repeated frame. It does not count
0:31:38.320289	LOG	PUSH_ACK: 02 0539 01
0:31:38.323287	LOG	PUSH_DATA: Protocol version = 02, Token = 0539, Identifier = 00, JSON = {'rxpk': [{'tmst': 3657131472, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA5QIB8lXOGn3q'}]}

0:31:38.325286	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02e5, FOpts:), FPort: 01, FRMPayload: 0034, MIC: ce1a7dea)
0:31:38.326286	LOG	Server <---------- DUT
0:31:38.328284	LOG	Count = 10
0:31:38.869741	LOG	PULL_DATA: 02 c508 02 aa555a0000240409
0:31:38.871740	LOG	PULL_ACK: 02 c508 04
0:31:41.834581	LOG	PUSH_ACK: 02 053b 01
0:31:41.836580	LOG	PUSH_DATA: Protocol version = 02, Token = 053b, Identifier = 00, JSON = {'rxpk': [{'tmst': 3660673696, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA5QIB8lXOGn3q'}]}
0:31:41.838578	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02e5, FOpts:), FPort: 01, FRMPayload: 0034, MIC: ce1a7dea)
0:31:41.840577	LOG	Server <---------- DUT
0:31:41.841577	LOG	Repeated frame. It does not count
0:31:48.312804	LOG	PUSH_ACK: 02 053c 01
0:31:48.315802	LOG	PUSH_DATA: Protocol version = 02, Token = 053c, Identifier = 00, JSON = {'rxpk': [{'tmst': 3667136656, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 7.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICDA5gIBfDqU0pX1'}]}
0:31:48.317801	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02e6, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 94d295f5)
0:31:48.318801	LOG	Server <---------- DUT
0:31:48.323798	LOG	Count = 11
0:31:48.950478	LOG	PULL_DATA: 02 b74e 02 aa555a0000240409
0:31:48.952477	LOG	PULL_ACK: 02 b74e 04
0:31:51.863430	LOG	PUSH_ACK: 02 053d 01
0:31:51.865429	LOG	PUSH_DATA: Protocol version = 02, Token = 053d, Identifier = 00, JSON = {'rxpk': [{'tmst': 3670678856, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICDA5gIBfDqU0pX1'}]}
0:31:51.867428	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02e6, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 94d295f5)
0:31:51.868427	LOG	Server <---------- DUT
0:31:51.869427	LOG	Repeated frame. It does not count
0:31:58.343509	LOG	PUSH_ACK: 02 053f 01
0:31:58.345508	LOG	PUSH_DATA: Protocol version = 02, Token = 053f, Identifier = 00, JSON = {'rxpk': [{'tmst': 3677141840, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA5wIBnYFWYr9K'}]}
0:31:58.347507	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02e7, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 5662bf4a)
0:31:58.349506	LOG	Server <---------- DUT
0:31:58.350505	LOG	Count = 12
0:31:59.039608	LOG	PULL_DATA: 02 b0e4 02 aa555a0000240409
0:31:59.041589	LOG	PULL_ACK: 02 b0e4 04
0:32:01.842031	LOG	PUSH_ACK: 02 0540 01
0:32:01.844030	LOG	PUSH_DATA: Protocol version = 02, Token = 0540, Identifier = 00, JSON = {'rxpk': [{'tmst': 3680684040, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA5wIBnYFWYr9K'}]}
0:32:01.846029	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02e7, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 5662bf4a)
0:32:01.848028	LOG	Server <---------- DUT
0:32:01.850026	LOG	Repeated frame. It does not count
0:32:08.320433	LOG	PUSH_ACK: 02 0541 01

0:32:08.322431	LOG	PUSH_DATA: Protocol version = 02, Token = 0541, Identifier = 00, JSON = {'rxpk': [{'tmst': 3687147032, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 7.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICDA6AIBwD+Q4h8Y'}]}
0:32:08.324430	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02e8, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 90e21f18)
0:32:08.325429	LOG	Server <---------- DUT
0:32:08.326430	LOG	Count = 13
0:32:09.129579	LOG	PULL_DATA: 02 f81a 02 aa555a0000240409
0:32:09.131580	LOG	PULL_ACK: 02 f81a 04
0:32:11.885027	LOG	PUSH_ACK: 02 0543 01
0:32:11.888026	LOG	PUSH_DATA: Protocol version = 02, Token = 0543, Identifier = 00, JSON = {'rxpk': [{'tmst': 3690689232, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 12.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICDA6AIBwD+Q4h8Y'}]}
0:32:11.890025	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02e8, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 90e21f18)
0:32:11.891024	LOG	Server <---------- DUT
0:32:11.893023	LOG	Repeated frame. It does not count
0:32:18.312576	LOG	PUSH_ACK: 02 0544 01
0:32:18.315575	LOG	PUSH_DATA: Protocol version = 02, Token = 0544, Identifier = 00, JSON = {'rxpk': [{'tmst': 3697152208, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 7.8, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA6QIBd4az7baG'}]}
0:32:18.317574	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02e9, FOpts:), FPort: 01, FRMPayload: 0034, MIC: b3edb686)
0:32:18.318573	LOG	Server <---------- DUT
0:32:18.320572	LOG	Count = 14
0:32:19.219991	LOG	PULL_DATA: 02 d63d 02 aa555a0000240409
0:32:19.223990	LOG	PULL_ACK: 02 d63d 04
0:32:21.862566	LOG	PUSH_ACK: 02 0545 01
0:32:21.865563	LOG	PUSH_DATA: Protocol version = 02, Token = 0545, Identifier = 00, JSON = {'rxpk': [{'tmst': 3700694408, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA6QIBd4az7baG'}]}
0:32:21.867563	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02e9, FOpts:), FPort: 01, FRMPayload: 0034, MIC: b3edb686)
0:32:21.868561	LOG	Server <---------- DUT
0:32:21.870560	LOG	Repeated frame. It does not count
0:32:28.342889	LOG	PUSH_ACK: 02 0546 01
0:32:28.344887	LOG	PUSH_DATA: Protocol version = 02, Token = 0546, Identifier = 00, JSON = {'rxpk': [{'tmst': 3707157376, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA6gIBEtD4W3F/'}]}
0:32:28.346886	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02ea, FOpts:), FPort: 01, FRMPayload: 0034, MIC: f85b717f)
0:32:28.347902	LOG	Server <---------- DUT
0:32:28.349883	LOG	Count = 15
0:32:29.300312	LOG	PULL_DATA: 02 121b 02 aa555a0000240409
0:32:29.302339	LOG	PULL_ACK: 02 121b 04
0:32:31.892939	LOG	PUSH_ACK: 02 0547 01
0:32:31.894938	LOG	PUSH_DATA: Protocol version = 02, Token = 0547, Identifier = 00, JSON = {'rxpk': [{'tmst': 3710699568, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICDA6gIBEtD4W3F/'}]}

0:32:31.896937	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02ea, FOpts:), FPort: 01, FRMPayload: 0034, MIC: f85b717f)
0:32:31.898936	LOG	Server <---------- DUT
0:32:31.900935	LOG	Repeated frame. It does not count
0:32:38.319477	LOG	PUSH_ACK: 02 0548 01
0:32:38.321477	LOG	PUSH_DATA: Protocol version = 02, Token = 0548, Identifier = 00, JSON = {'rxpk': [{'tmst': 3717162560, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA6wIBqAPb6S/v'}]}
0:32:38.323475	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02eb, FOpts:), FPort: 01, FRMPayload: 0034, MIC: dbe92fef)
0:32:38.324474	LOG	Server <---------- DUT
0:32:38.325474	LOG	Count = 16
0:32:39.379906	LOG	PULL_DATA: 02 7e9a 02 aa555a0000240409
0:32:39.381906	LOG	PULL_ACK: 02 7e9a 04
0:32:41.886512	LOG	PUSH_ACK: 02 054a 01
0:32:41.888511	LOG	PUSH_DATA: Protocol version = 02, Token = 054a, Identifier = 00, JSON = {'rxpk': [{'tmst': 3720704776, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -42, 'size': 15, 'data': 'QCAgICDA6wIBqAPb6S/v'}]}
0:32:41.890510	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02eb, FOpts:), FPort: 01, FRMPayload: 0034, MIC: dbe92fef)
0:32:41.892508	LOG	Server <---------- DUT
0:32:41.893508	LOG	Repeated frame. It does not count
0:32:48.365249	LOG	PUSH_ACK: 02 054b 01
0:32:48.367248	LOG	PUSH_DATA: Protocol version = 02, Token = 054b, Identifier = 00, JSON = {'rxpk': [{'tmst': 3727167736, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.0, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA7AIB2tGzpDVV'}]}
0:32:48.369247	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02ec, FOpts:), FPort: 01, FRMPayload: 0034, MIC: b3a43555)
0:32:48.371245	LOG	Server <---------- DUT
0:32:48.373245	LOG	Count = 17
0:32:49.459640	LOG	PULL_DATA: 02 eccd 02 aa555a0000240409
0:32:49.464637	LOG	PULL_ACK: 02 eccd 04
0:32:51.863749	LOG	PUSH_ACK: 02 054c 01
0:32:51.865748	LOG	PUSH_DATA: Protocol version = 02, Token = 054c, Identifier = 00, JSON = {'rxpk': [{'tmst': 3730709944, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA7AIB2tGzpDVV'}]}
0:32:51.867746	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02ec, FOpts:), FPort: 01, FRMPayload: 0034, MIC: b3a43555)
0:32:51.869745	LOG	Server <---------- DUT
0:32:51.870744	LOG	Repeated frame. It does not count
0:32:58.342407	LOG	PUSH_ACK: 02 054d 01
0:32:58.344406	LOG	PUSH_DATA: Protocol version = 02, Token = 054d, Identifier = 00, JSON = {'rxpk': [{'tmst': 3737172912, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA7QIB2kQTQ9Ha'}]}
0:32:58.346405	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02ed, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 1343d1da)
0:32:58.347404	LOG	Server <---------- DUT
0:32:58.348404	LOG	Count = 18
0:32:59.539592	LOG	PULL_DATA: 02 268f 02 aa555a0000240409
0:32:59.541589	LOG	PULL_ACK: 02 268f 04
0:33:01.892392	LOG	PUSH_ACK: 02 054e 01

0:33:01.894391	LOG	PUSH_DATA: Protocol version = 02, Token = 054e, Identifier = 00, JSON = {'rxpk': [{'tmst': 3740715120, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA7QIB2kQTQ9Ha'}]}
0:33:01.896389	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02ed, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 1343d1da)
0:33:01.898389	LOG	Server <---------- DUT
0:33:01.899388	LOG	Repeated frame. It does not count
0:33:08.370549	LOG	PUSH_ACK: 02 054f 01
0:33:08.372549	LOG	PUSH_DATA: Protocol version = 02, Token = 054f, Identifier = 00, JSON = {'rxpk': [{'tmst': 3747178088, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICDA7gIBH7+Xdlvq'}]}
0:33:08.374550	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02ee, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 97765bea)
0:33:08.376547	LOG	Server <---------- DUT
0:33:08.377562	LOG	Count = 19
0:33:09.619853	LOG	PULL_DATA: 02 7eb2 02 aa555a0000240409
0:33:09.621852	LOG	PULL_ACK: 02 7eb2 04
0:33:11.885592	LOG	PUSH_ACK: 02 0551 01
0:33:11.887592	LOG	PUSH_DATA: Protocol version = 02, Token = 0551, Identifier = 00, JSON = {'rxpk': [{'tmst': 3750720320, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICDA7gIBH7+Xdlvq'}]}
0:33:11.889590	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02ee, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 97765bea)
0:33:11.890590	LOG	Server <---------- DUT
0:33:11.892589	LOG	Repeated frame. It does not count
0:33:18.364522	LOG	PUSH_ACK: 02 0552 01
0:33:18.365521	LOG	PUSH_DATA: Protocol version = 02, Token = 0552, Identifier = 00, JSON = {'rxpk': [{'tmst': 3757183264, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -42, 'size': 15, 'data': 'QCAgICDA7wIBO9hNJRcO'}]}
0:33:18.367520	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02ef, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 4d25170e)
0:33:18.368519	LOG	Server <---------- DUT
0:33:18.370519	LOG	Count = 20
0:33:19.700373	LOG	PULL_DATA: 02 70b6 02 aa555a0000240409
0:33:19.705371	LOG	PULL_ACK: 02 70b6 04
0:33:21.916178	LOG	PUSH_ACK: 02 0554 01
0:33:21.919177	LOG	PUSH_DATA: Protocol version = 02, Token = 0554, Identifier = 00, JSON = {'rxpk': [{'tmst': 3760725456, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA7wIBO9hNJRcO'}]}
0:33:21.920176	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02ef, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 4d25170e)
0:33:21.922175	LOG	Server <---------- DUT
0:33:21.924174	LOG	Repeated frame. It does not count
0:33:28.343548	LOG	PUSH_ACK: 02 0555 01
0:33:28.345547	LOG	PUSH_DATA: Protocol version = 02, Token = 0555, Identifier = 00, JSON = {'rxpk': [{'tmst': 3767188456, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICDA8AIBOSBr4d1m'}]}
0:33:28.347546	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02f0, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 6be1dd66)
0:33:28.349545	LOG	Server <---------- DUT

0:33:28.350544	LOG	Count = 21
0:33:29.779933	LOG	PULL_DATA: 02 df52 02 aa555a0000240409
0:33:29.781932	LOG	PULL_ACK: 02 df52 04
0:33:31.893757	LOG	PUSH_ACK: 02 0556 01
0:33:31.895755	LOG	PUSH_DATA: Protocol version = 02, Token = 0556, Identifier = 00, JSON = {'rxpk': [{'tmst': 3770730680, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICDA8AIBOSBr4d1m'}]}
0:33:31.897754	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02f0, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 6be1dd66)
0:33:31.899753	LOG	Server <---------- DUT
0:33:31.900753	LOG	Repeated frame. It does not count
0:33:38.372046	LOG	PUSH_ACK: 02 0557 01
0:33:38.375045	LOG	PUSH_DATA: Protocol version = 02, Token = 0557, Identifier = 00, JSON = {'rxpk': [{'tmst': 3777193648, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.0, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA8QIB2lcN1z3d'}]}
0:33:38.376044	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02f1, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 0dd73ddd)
0:33:38.378043	LOG	Server <---------- DUT
0:33:38.380042	LOG	Count = 22
0:33:39.860466	LOG	PULL_DATA: 02 d2e5 02 aa555a0000240409
0:33:39.862464	LOG	PULL_ACK: 02 d2e5 04
0:33:41.937141	LOG	PUSH_ACK: 02 0559 01
0:33:41.940140	LOG	PUSH_DATA: Protocol version = 02, Token = 0559, Identifier = 00, JSON = {'rxpk': [{'tmst': 3780735856, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA8QIB2lcN1z3d'}]}
0:33:41.941139	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02f1, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 0dd73ddd)
0:33:41.943139	LOG	Server <---------- DUT
0:33:41.945137	LOG	Repeated frame. It does not count
0:33:48.364828	LOG	PUSH_ACK: 02 055a 01
0:33:48.366827	LOG	PUSH_DATA: Protocol version = 02, Token = 055a, Identifier = 00, JSON = {'rxpk': [{'tmst': 3787198856, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 7.5, 'rssi': -44, 'size': 15, 'data': 'QCAgICDA8gIB2I6B8zAq'}]}
0:33:48.368826	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02f2, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 81f3302a)
0:33:48.370825	LOG	Server <---------- DUT
0:33:48.371824	LOG	Count = 23
0:33:49.940698	LOG	PULL_DATA: 02 dc47 02 aa555a0000240409
0:33:49.944695	LOG	PULL_ACK: 02 dc47 04
0:33:51.914599	LOG	PUSH_ACK: 02 055b 01
0:33:51.916598	LOG	PUSH_DATA: Protocol version = 02, Token = 055b, Identifier = 00, JSON = {'rxpk': [{'tmst': 3790741048, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICDA8gIB2I6B8zAq'}]}
0:33:51.917599	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02f2, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 81f3302a)
0:33:51.919597	LOG	Server <---------- DUT
0:33:51.920595	LOG	Repeated frame. It does not count
0:33:58.393594	LOG	PUSH_ACK: 02 055c 01
0:33:58.396592	LOG	PUSH_DATA: Protocol version = 02, Token = 055c, Identifier = 00, JSON = {'rxpk': [{'tmst': 3797204072, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -42, 'size': 15, 'data': 'QCAgICDA8wIBpjpEbYqk'}]}
0:33:58.398591	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02f3, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 446d8aa4)
0:33:58.399590	LOG	Server <---------- DUT
0:33:58.401589	LOG	Count = 24
0:34:00.020858	LOG	PULL_DATA: 02 1098 02 aa555a0000240409
0:34:00.022856	LOG	PULL_ACK: 02 1098 04
0:34:01.944203	LOG	PUSH_ACK: 02 055d 01
0:34:01.946202	LOG	PUSH_DATA: Protocol version = 02, Token = 055d, Identifier = 00, JSON = {'rxpk': [{'tmst': 3800746288, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA8wIBpjpEbYqk'}]}
0:34:01.948200	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02f3, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 446d8aa4)
0:34:01.950199	LOG	Server <---------- DUT
0:34:01.952198	LOG	Repeated frame. It does not count
0:34:08.371810	LOG	PUSH_ACK: 02 055e 01
0:34:08.374808	LOG	PUSH_DATA: Protocol version = 02, Token = 055e, Identifier = 00, JSON = {'rxpk': [{'tmst': 3807209256, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICDA9AIBSRHa/nCB'}]}
0:34:08.375807	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02f4, FOpts:), FPort: 01, FRMPayload: 0034, MIC: dafe7081)
0:34:08.377807	LOG	Server <---------- DUT
0:34:08.379805	LOG	Count = 25
0:34:10.100303	LOG	PULL_DATA: 02 84d6 02 aa555a0000240409
0:34:10.102302	LOG	PULL_ACK: 02 84d6 04
0:34:11.938282	LOG	PUSH_ACK: 02 0560 01
0:34:11.940281	LOG	PUSH_DATA: Protocol version = 02, Token = 0560, Identifier = 00, JSON = {'rxpk': [{'tmst': 3810751456, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 12.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICDA9AIBSRHa/nCB'}]}
0:34:11.941279	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02f4, FOpts:), FPort: 01, FRMPayload: 0034, MIC: dafe7081)
0:34:11.942280	LOG	Server <---------- DUT
0:34:11.943280	LOG	Repeated frame. It does not count
0:34:18.415309	LOG	PUSH_ACK: 02 0561 01
0:34:18.417308	LOG	PUSH_DATA: Protocol version = 02, Token = 0561, Identifier = 00, JSON = {'rxpk': [{'tmst': 3817214448, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 7.0, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA9QIBohlK43UO'}]}
0:34:18.419306	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02f5, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 4ae3750e)
0:34:18.420306	LOG	Server <---------- DUT
0:34:18.422305	LOG	Count = 26
0:34:20.181011	LOG	PULL_DATA: 02 a13b 02 aa555a0000240409
0:34:20.185008	LOG	PULL_ACK: 02 a13b 04
0:34:21.914053	LOG	PUSH_ACK: 02 0562 01
0:34:21.917047	LOG	PUSH_DATA: Protocol version = 02, Token = 0562, Identifier = 00, JSON = {'rxpk': [{'tmst': 3820756672, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -42, 'size': 15, 'data': 'QCAgICDA9QIBohlK43UO'}]}
0:34:21.918045	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02f5, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 4ae3750e)
0:34:21.920044	LOG	Server <---------- DUT

0:34:21.922042	LOG	Repeated frame. It does not count
0:34:28.392689	LOG	PUSH_ACK: 02 0563 01
0:34:28.395687	LOG	PUSH_DATA: Protocol version = 02, Token = 0563, Identifier = 00, JSON = {'rxpk': [{'tmst': 3827219640, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA9gIBnE2P7guE'}]}
0:34:28.397686	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02f6, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 8fee0b84)
0:34:28.398685	LOG	Server <---------- DUT
0:34:28.400684	LOG	Count = 27
0:34:30.260509	LOG	PULL_DATA: 02 2451 02 aa555a0000240409
0:34:30.262507	LOG	PULL_ACK: 02 2451 04
0:34:31.943589	LOG	PUSH_ACK: 02 0564 01
0:34:31.948571	LOG	PUSH_DATA: Protocol version = 02, Token = 0564, Identifier = 00, JSON = {'rxpk': [{'tmst': 3830761856, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.2, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA9gIBnE2P7guE'}]}
0:34:31.950570	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02f6, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 8fee0b84)
0:34:31.951569	LOG	Server <---------- DUT
0:34:31.953566	LOG	Repeated frame. It does not count
0:34:38.424944	LOG	PUSH_ACK: 02 0565 01
0:34:38.426943	LOG	PUSH_DATA: Protocol version = 02, Token = 0565, Identifier = 00, JSON = {'rxpk': [{'tmst': 3837224832, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.2, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA9wIBXz/S7gMw'}]}
0:34:38.428943	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02f7, FOpts:), FPort: 01, FRMPayload: 0034, MIC: d2ee0330)
0:34:38.429942	LOG	Server <---------- DUT
0:34:38.431940	LOG	Count = 28
0:34:40.340987	LOG	PULL_DATA: 02 1f1d 02 aa555a0000240409
0:34:40.342986	LOG	PULL_ACK: 02 1f1d 04
0:34:41.937099	LOG	PUSH_ACK: 02 0567 01
0:34:41.939098	LOG	PUSH_DATA: Protocol version = 02, Token = 0567, Identifier = 00, JSON = {'rxpk': [{'tmst': 3840767016, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA9wIBXz/S7gMw'}]}
0:34:41.941097	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02f7, FOpts:), FPort: 01, FRMPayload: 0034, MIC: d2ee0330)
0:34:41.942097	LOG	Server <---------- DUT
0:34:41.943096	LOG	Repeated frame. It does not count
0:34:48.414825	LOG	PUSH_ACK: 02 0568 01
0:34:48.417823	LOG	PUSH_DATA: Protocol version = 02, Token = 0568, Identifier = 00, JSON = {'rxpk': [{'tmst': 3847230008, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA+AIBzeuvI4BR'}]}
0:34:48.419822	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02f8, FOpts:), FPort: 01, FRMPayload: 0034, MIC: af238051)
0:34:48.420821	LOG	Server <---------- DUT
0:34:48.422820	LOG	Count = 29
0:34:50.420650	LOG	PULL_DATA: 02 6bf5 02 aa555a0000240409
0:34:50.429644	LOG	PULL_ACK: 02 6bf5 04
0:34:51.964507	LOG	PUSH_ACK: 02 0569 01
0:34:51.966507	LOG	PUSH_DATA: Protocol version = 02, Token = 0569, Identifier = 00, JSON = {'rxpk': [{'tmst': 3850772216, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 12.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICDA+AIBzeuvI4BR'}]}
0:34:51.967508	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02f8, FOpts:), FPort: 01, FRMPayload: 0034, MIC: af238051)
0:34:51.969505	LOG	Server <---------- DUT
0:34:51.970504	LOG	Repeated frame. It does not count
0:34:58.392272	LOG	PUSH_ACK: 02 056a 01
0:34:58.395270	LOG	PUSH_DATA: Protocol version = 02, Token = 056a, Identifier = 00, JSON = {'rxpk': [{'tmst': 3857235208, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -42, 'size': 15, 'data': 'QCAgICDA+QIB2wRABeIt'}]}
0:34:58.396269	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02f9, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 4005e22d)
0:34:58.398269	LOG	Server <---------- DUT
0:34:58.400267	LOG	Count = 30
0:35:00.511279	LOG	PULL_DATA: 02 5a7d 02 aa555a0000240409
0:35:00.513278	LOG	PULL_ACK: 02 5a7d 04
0:35:01.942483	LOG	PUSH_ACK: 02 056b 01
0:35:01.944482	LOG	PUSH_DATA: Protocol version = 02, Token = 056b, Identifier = 00, JSON = {'rxpk': [{'tmst': 3860777408, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -42, 'size': 15, 'data': 'QCAgICDA+QIB2wRABeIt'}]}
0:35:01.946481	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02f9, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 4005e22d)
0:35:01.948480	LOG	Server <---------- DUT
0:35:01.949479	LOG	Repeated frame. It does not count
0:35:08.421382	LOG	PUSH_ACK: 02 056c 01
0:35:08.423381	LOG	PUSH_DATA: Protocol version = 02, Token = 056c, Identifier = 00, JSON = {'rxpk': [{'tmst': 3867240400, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICDA+gIBq5vR3/JS'}]}
0:35:08.425380	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02fa, FOpts:), FPort: 01, FRMPayload: 0034, MIC: d1dff252)
0:35:08.427380	LOG	Server <---------- DUT
0:35:08.429378	LOG	Count = 31
0:35:10.591168	LOG	PULL_DATA: 02 10d8 02 aa555a0000240409
0:35:10.593167	LOG	PULL_ACK: 02 10d8 04
0:35:11.939418	LOG	PUSH_ACK: 02 056e 01
0:35:11.942416	LOG	PUSH_DATA: Protocol version = 02, Token = 056e, Identifier = 00, JSON = {'rxpk': [{'tmst': 3870782616, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICDA+gIBq5vR3/JS'}]}
0:35:11.944415	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02fa, FOpts:), FPort: 01, FRMPayload: 0034, MIC: d1dff252)
0:35:11.945414	LOG	Server <---------- DUT
0:35:11.947413	LOG	Repeated frame. It does not count
0:35:18.420252	LOG	PUSH_ACK: 02 056f 01
0:35:18.422250	LOG	PUSH_DATA: Protocol version = 02, Token = 056f, Identifier = 00, JSON = {'rxpk': [{'tmst': 3877245696, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 7.0, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA+wIBa5uitnoY'}]}
0:35:18.424249	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02fb, FOpts:), FPort: 01, FRMPayload: 0034, MIC: a2b67a18)
0:35:18.426248	LOG	Server <---------- DUT
0:35:18.427247	LOG	Count = 32
0:35:20.671008	LOG	PULL_DATA: 02 17fc 02 aa555a0000240409

0:35:20.676005	LOG	PULL_ACK: 02 17fc 04
0:35:23.411483	LOG	PUSH_ACK: 02 0570 01
0:35:23.413482	LOG	PUSH_DATA: Protocol version = 02, Token = 0570, Identifier = 00, JSON = {'rxpk': [{'tmst': 3882248208, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 7.2, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA/AIB7m3zwk8i'}]}
0:35:23.415481	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02fc, FOpts:), FPort: 01, FRMPayload: 0034, MIC: f3c24f22)
0:35:23.417480	LOG	Server <---------- DUT
0:35:23.418479	LOG	Count = 33
0:35:23.420478	LOG	Checked last FCnt Up. Last retransmission received inside bounds
0:35:23.438468	LOG	Expected number of uplink messages have been received
0:35:23.441467	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:35:28.453224	LOG	PUSH_ACK: 02 0571 01
0:35:28.456223	LOG	PUSH_DATA: Protocol version = 02, Token = 0571, Identifier = 00, JSON = {'rxpk': [{'tmst': 3887250808, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA/QIB5xORDiy6'}]}
0:35:28.458222	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02fd, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 910e2cba)
0:35:28.459221	LOG	Server <---------- DUT
0:35:28.466217	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:35:28.471214	LOG	ADRACKReq bit is activated
0:35:28.475212	LOG	ADRACKReq bit from DUT tested successfully
0:35:28.479210	LOG	Check previous uplink data rate process starts
0:35:28.487205	LOG	Uplink received with expected Data Rate
0:35:28.496200	LOG	Check number of uplinks repetitions process starts
0:35:30.750784	LOG	PULL_DATA: 02 a53d 02 aa555a0000240409
0:35:30.752782	LOG	PULL_ACK: 02 a53d 04
0:35:33.444610	LOG	PUSH_ACK: 02 0572 01
0:35:33.447605	LOG	PUSH_DATA: Protocol version = 02, Token = 0572, Identifier = 00, JSON = {'rxpk': [{'tmst': 3892253400, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.0, 'rssi': -43, 'size': 15, 'data': 'QCAgICDA/gIB0iBzHOqe'}]}
0:35:33.449606	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02fe, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 731cea9e)
0:35:33.450605	LOG	Server <---------- DUT
0:35:33.458600	LOG	Expected repetitions of uplink message have been received
0:35:33.463597	LOG	Check number of uplinks repetitions process starts
0:35:38.436252	LOG	PUSH_ACK: 02 0573 01
0:35:38.437250	LOG	PUSH_DATA: Protocol version = 02, Token = 0573, Identifier = 00, JSON = {'rxpk': [{'tmst': 3897255992, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 7.5, 'rssi': -42, 'size': 15, 'data': 'QCAgICDA/wIBSMyNIQKc'}]}
0:35:38.439248	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 02ff, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 8d21029c)
0:35:38.440247	LOG	Server <---------- DUT
0:35:38.442248	LOG	Expected repetitions of uplink message have been received
0:35:38.445247	LOG	Receive frame on specific channels process starts
0:35:38.456241	LOG	Attempt 1/20
0:35:40.830951	LOG	PULL_DATA: 02 8c24 02 aa555a0000240409
0:35:40.832949	LOG	PULL_ACK: 02 8c24 04
0:35:43.438717	LOG	PUSH_ACK: 02 0575 01
0:35:43.440716	LOG	PUSH_DATA: Protocol version = 02, Token = 0575, Identifier = 00, JSON = {'rxpk': [{'tmst': 3902258592, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.0, 'rssi': -49, 'size': 15, 'data': 'QCAgICDAAAMB05NI2QL1'}]}
0:35:43.441715	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0300, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 48d902f5)
0:35:43.443714	LOG	Server <---------- DUT
0:35:43.444714	LOG	Attempt 2/20
0:35:48.429469	LOG	PUSH_ACK: 02 0577 01
0:35:48.432468	LOG	PUSH_DATA: Protocol version = 02, Token = 0577, Identifier = 00, JSON = {'rxpk': [{'tmst': 3907261176, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -63, 'size': 15, 'data': 'QCAgICDAAQMBWUhQNtQI'}]}
0:35:48.434467	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0301, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 5036d408)
0:35:48.435466	LOG	Server <---------- DUT
0:35:48.437465	LOG	Attempt 3/20
0:35:50.911628	LOG	PULL_DATA: 02 effc 02 aa555a0000240409
0:35:50.915626	LOG	PULL_ACK: 02 effc 04
0:35:53.421230	LOG	PUSH_ACK: 02 0578 01
0:35:53.423229	LOG	PUSH_DATA: Protocol version = 02, Token = 0578, Identifier = 00, JSON = {'rxpk': [{'tmst': 3912263760, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 7.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAAgMBWrtdgmrM'}]}
0:35:53.425228	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0302, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 5d826acc)
0:35:53.427227	LOG	Server <---------- DUT
0:35:53.428226	LOG	Attempt 4/20
0:35:58.463091	LOG	PUSH_ACK: 02 0579 01
0:35:58.465090	LOG	PUSH_DATA: Protocol version = 02, Token = 0579, Identifier = 00, JSON = {'rxpk': [{'tmst': 3917266360, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.0, 'rssi': -52, 'size': 15, 'data': 'QCAgICDAAwMB6TV/mkVM'}]}
0:35:58.467088	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0303, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 7f9a454c)
0:35:58.468089	LOG	Server <---------- DUT
0:35:58.469089	LOG	Attempt 5/20
0:36:00.991149	LOG	PULL_DATA: 02 dace 02 aa555a0000240409
0:36:00.993148	LOG	PULL_ACK: 02 dace 04
0:36:03.453777	LOG	PUSH_ACK: 02 057a 01
0:36:03.455776	LOG	PUSH_DATA: Protocol version = 02, Token = 057a, Identifier = 00, JSON = {'rxpk': [{'tmst': 3922268968, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICDABAMBEeImx+vY'}]}
0:36:03.457775	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0304, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 26c7ebd8)
0:36:03.459774	LOG	Server <---------- DUT
0:36:03.460773	LOG	Attempt 6/20
0:36:08.444231	LOG	PUSH_ACK: 02 057b 01
0:36:08.447230	LOG	PUSH_DATA: Protocol version = 02, Token = 057b, Identifier = 00, JSON = {'rxpk': [{'tmst': 3927271568, 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.2, 'rssi': -69, 'size': 15, 'data': 'QCAgICDABQMBuWuaDflq'}]}
0:36:08.449229	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0305, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 9a0df96a)
0:36:08.450228	LOG	Server <---------- DUT
0:36:08.460222	LOG	Receive frame on specific channels process tested successfully
0:36:08.464220	LOG	Send LinkADRReq process starts

0:36:11.071582	LOG	PULL_DATA: 02 4eac 02 aa555a0000240409
0:36:11.073581	LOG	PULL_ACK: 02 4eac 04
0:36:13.451256	LOG	PUSH_ACK: 02 057d 01
0:36:13.453255	LOG	PUSH_DATA: Protocol version = 02, Token = 057d, Identifier = 00, JSON = {'rxpk': [{'tmst': 3932274168, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICDABgMBUH4ioQsM'}]}
0:36:13.455254	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0306, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 22a10b0c)
0:36:13.457253	LOG	Server <---------- DUT
0:36:13.459252	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0171, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: 1fc2877f)
0:36:13.462250	LOG	PULL_RESP: Protocol version = 02, Token = 2134, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3934274168, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAcQEAGlsxecIfwod/'}}
0:36:13.463249	LOG	Server ----------> DUT
0:36:13.466248	LOG	TX_ACK: 02 2134 05 aa555a0000240409
0:36:17.339005	LOG	PUSH_ACK: 02 057e 01
0:36:17.341005	LOG	PUSH_DATA: Protocol version = 02, Token = 057e, Identifier = 00, JSON = {'rxpk': [{'tmst': 3936173266, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCBwMDBwFnyTZI8oI='}]}
0:36:17.343002	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0307, FOpts: 0307), FPort: 01, FRMPayload: 0034, MIC: 3648f282)
0:36:17.344002	LOG	Server <---------- DUT
0:36:17.346001	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:36:17.347002	LOG	Command Answer: 0307
0:36:17.355014	LOG	MAC command communication completed
0:36:17.356995	LOG	Check previous uplink data rate process starts
0:36:17.361993	LOG	Uplink received with expected Data Rate
0:36:17.366009	LOG	ADRACKReq bit is disabled
0:36:17.369006	LOG	ADRACKReq bit from DUT tested successfully
0:36:17.372007	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:36:21.231149	LOG	PULL_DATA: 02 b32a 02 aa555a0000240409
0:36:21.235147	LOG	PULL_ACK: 02 b32a 04
0:36:22.330114	LOG	PUSH_ACK: 02 057f 01
0:36:22.332111	LOG	PUSH_DATA: Protocol version = 02, Token = 057f, Identifier = 00, JSON = {'rxpk': [{'tmst': 3941170714, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICCACAMBEp7xZsQ0'}]}
0:36:22.334111	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0308, FOpts:), FPort: 01, FRMPayload: 0034, MIC: f166c434)
0:36:22.335111	LOG	Server <---------- DUT
0:36:22.337109	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0172, FOpts:), FPort: e0, FRMPayload: 0501), MIC: aea43deb)
0:36:22.340108	LOG	Frame command sent to the DUT
0:36:22.342106	LOG	PULL_RESP: Protocol version = 02, Token = 1362, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3943170714, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAcgHgtqSupD3r'}}
0:36:22.343105	LOG	Server ----------> DUT
0:36:22.349102	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:36:22.353071	LOG	Send NewChannelReq process starts
0:36:27.306250	LOG	PUSH_ACK: 02 0580 01

0:36:27.308249	LOG	PUSH_DATA: Protocol version = 02, Token = 0580, Identifier = 00, JSON = {'rxpk': [{'tmst': 3946173283, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCACQMBbXJPRUOJ'}]}
0:36:27.309248	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0309, FOpts:), FPort: 01, FRMPayload: 0035, MIC: 4f454389)
0:36:27.310248	LOG	Server <---------- DUT
0:36:27.312247	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0173, FOpts:), FPort: 00, FRMPayload: 070300000050), MIC: 28b04b3e)
0:36:27.315245	LOG	PULL_RESP: Protocol version = 02, Token = cdff, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3948173283, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YCAgICAAcwEADy7fiUN3KLBLPg=='}}
0:36:27.317244	LOG	Server ----------> DUT
0:36:27.321241	LOG	TX_ACK: 02 cdff 05 aa555a0000240409
0:36:31.310833	LOG	PULL_DATA: 02 f3c4 02 aa555a0000240409
0:36:31.313832	LOG	PULL_ACK: 02 f3c4 04
0:36:32.320277	LOG	PUSH_ACK: 02 0581 01
0:36:32.324274	LOG	PUSH_DATA: Protocol version = 02, Token = 0581, Identifier = 00, JSON = {'rxpk': [{'tmst': 3951181012, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCCgMHAwE+XRSR7i8='}]}
0:36:32.328268	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 030a, FOpts: 0703), FPort: 01, FRMPayload: 0035, MIC: 1491ee2f)
0:36:32.331267	LOG	Server <---------- DUT
0:36:32.335264	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:36:32.338263	LOG	Command Answer: 0703
0:36:32.345258	LOG	MAC command communication completed
0:36:32.349256	LOG	End Test Step: Data Rate Decay for all devices
0:36:32.354252	LOG	Partial Verdict: PASS
0:36:32.359250	LOG	==========
0:36:32.364247	LOG	==========
0:36:32.366246	LOG	Start Test Step: Data Rate Decay for optional data rates
0:36:32.374242	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:36:41.391485	LOG	PULL_DATA: 02 c377 02 aa555a0000240409
0:36:41.393485	LOG	PULL_ACK: 02 c377 04
0:36:42.307755	LOG	PUSH_ACK: 02 0583 01
0:36:42.310754	LOG	PUSH_DATA: Protocol version = 02, Token = 0583, Identifier = 00, JSON = {'rxpk': [{'tmst': 3961181036, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -44, 'size': 15, 'data': 'QCAgICCACwMBB2JwaAJW'}]}
0:36:42.312753	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 030b, FOpts:), FPort: 01, FRMPayload: 0035, MIC: 70680256)
0:36:42.313752	LOG	Server <---------- DUT
0:36:42.315751	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0174, FOpts:), FPort: e0, FRMPayload: 0500), MIC: a46c8bfe)
0:36:42.318749	LOG	Frame command sent to the DUT
0:36:42.320748	LOG	PULL_RESP: Protocol version = 02, Token = 33b1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3963181036, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAdAHgYCykbIv+'}}
0:36:42.321747	LOG	Server ----------> DUT
0:36:42.327744	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:36:42.332741	LOG	Send NewChannelReq process starts
0:36:47.316769	LOG	PUSH_ACK: 02 0584 01

0:36:47.318739	LOG	PUSH_DATA: Protocol version = 02, Token = 0584, Identifier = 00, JSON = {'rxpk': [{'tmst': 3966183582, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICCADAMBhyJqF0WK'}]}
0:36:47.320739	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 030c, FOpts:), FPort: 01, FRMPayload: 0036, MIC: 6a17458a)
0:36:47.321737	LOG	Server <---------- DUT
0:36:47.322741	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0175, FOpts:), FPort: 00, FRMPayload: 070328768466), MIC: 78671c7e)
0:36:47.324739	LOG	PULL_RESP: Protocol version = 02, Token = ecc6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3968183582, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YCAgICAAdQEAHPCabfXHeGccfg=='}}
0:36:47.325739	LOG	Server ----------> DUT
0:36:47.330733	LOG	TX_ACK: 02 ecc6 05 aa555a0000240409
0:36:51.521462	LOG	PULL_DATA: 02 9a64 02 aa555a0000240409
0:36:51.526460	LOG	PULL_ACK: 02 9a64 04
0:36:52.329014	LOG	PUSH_ACK: 02 0585 01
0:36:52.331013	LOG	PUSH_DATA: Protocol version = 02, Token = 0585, Identifier = 00, JSON = {'rxpk': [{'tmst': 3971191320, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -44, 'size': 17, 'data': 'QCAgICCCDQMHAwFGhHXjasU='}]}
0:36:52.333011	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 030d, FOpts: 0703), FPort: 01, FRMPayload: 0036, MIC: 75e36ac5)
0:36:52.334012	LOG	Server <---------- DUT
0:36:52.335011	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:36:52.337008	LOG	Command Answer: 0703
0:36:52.342006	LOG	MAC command communication completed
0:36:52.347003	LOG	Send NewChannelReq process starts
0:36:57.319868	LOG	PUSH_ACK: 02 0586 01
0:36:57.321867	LOG	PUSH_DATA: Protocol version = 02, Token = 0586, Identifier = 00, JSON = {'rxpk': [{'tmst': 3976188776, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCADgMBL3cDX9BD'}]}
0:36:57.323866	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 030e, FOpts:), FPort: 01, FRMPayload: 0036, MIC: 035fd043)
0:36:57.324865	LOG	Server <---------- DUT
0:36:57.326864	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0176, FOpts:), FPort: 00, FRMPayload: 070428768477), MIC: 919eb67f)
0:36:57.330862	LOG	PULL_RESP: Protocol version = 02, Token = 14d8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3978188776, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YCAgICAAdgEAB3b7soLVkZ62fw=='}}
0:36:57.331861	LOG	Server ----------> DUT
0:36:57.337858	LOG	TX_ACK: 02 14d8 05 aa555a0000240409
0:37:01.531347	LOG	PULL_DATA: 02 b2be 02 aa555a0000240409
0:37:01.533347	LOG	PULL_ACK: 02 b2be 04
0:37:02.333902	LOG	PUSH_ACK: 02 0587 01
0:37:02.335901	LOG	PUSH_DATA: Protocol version = 02, Token = 0587, Identifier = 00, JSON = {'rxpk': [{'tmst': 3981196505, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCDwMHAwGAyC3aFXE='}]}
0:37:02.336899	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 030f, FOpts: 0703), FPort: 01, FRMPayload: 0036, MIC: 2dda1571)
0:37:02.337901	LOG	Server <---------- DUT

0:37:02.339898	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:37:02.340897	LOG	Command Answer: 0703
0:37:02.346894	LOG	MAC command communication completed
0:37:02.356889	LOG	Send LinkADRReq process starts
0:37:07.324719	LOG	PUSH_ACK: 02 0588 01
0:37:07.328712	LOG	PUSH_DATA: Protocol version = 02, Token = 0588, Identifier = 00, JSON = {'rxpk': [{'tmst': 3986193953, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAEAMBa63SzT2O'}]}
0:37:07.332714	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0310, FOpts:), FPort: 01, FRMPayload: 0036, MIC: d2cd3d8e)
0:37:07.336707	LOG	Server <---------- DUT
0:37:07.341705	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0177, FOpts:), FPort: 00, FRMPayload: 0371180001), MIC: 49a651b0)
0:37:07.347705	LOG	PULL_RESP: Protocol version = 02, Token = 2e83, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3988193953, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAdwEALp6lOQ9JplGw'}}
0:37:07.351698	LOG	Server ----------> DUT
0:37:07.355695	LOG	TX_ACK: 02 2e83 05 aa555a0000240409
0:37:11.551537	LOG	PULL_DATA: 02 b5d1 02 aa555a0000240409
0:37:11.554536	LOG	PULL_ACK: 02 b5d1 04
0:37:12.305118	LOG	PUSH_ACK: 02 058a 01
0:37:12.307117	LOG	PUSH_DATA: Protocol version = 02, Token = 058a, Identifier = 00, JSON = {'rxpk': [{'tmst': 3991154244, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCEQMDBwF5eIptnbw='}]}
0:37:12.309115	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0311, FOpts: 0307), FPort: 01, FRMPayload: 0036, MIC: 8a6d9dbc)
0:37:12.311114	LOG	Server <---------- DUT
0:37:12.313113	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:37:12.314113	LOG	Command Answer: 0307
0:37:12.327105	LOG	MAC command communication completed
0:37:12.331103	LOG	Check previous uplink data rate process starts
0:37:12.336100	LOG	Uplink received with expected Data Rate
0:37:12.341098	LOG	Sending an EchoPayloadReq CP command to restart the ADRACKCnt in DUT
0:37:12.345096	LOG	Send Test Command EchoPayloadReq process starts
0:37:17.295182	LOG	PUSH_ACK: 02 058b 01
0:37:17.297181	LOG	PUSH_DATA: Protocol version = 02, Token = 058b, Identifier = 00, JSON = {'rxpk': [{'tmst': 3996156495, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAEgMBtET0XDUh'}]}
0:37:17.298181	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0312, FOpts:), FPort: 01, FRMPayload: 0036, MIC: f45c3521)
0:37:17.300179	LOG	Server <---------- DUT
0:37:17.301179	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0178, FOpts:), FPort: e0, FRMPayload: 080a0b0c), MIC: ce084e90)
0:37:17.303178	LOG	Frame command sent to the DUT
0:37:17.305177	LOG	PULL_RESP: Protocol version = 02, Token = df15, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3998156495, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YCAgICAAeAHgLj0Mts4ITpA='}}
0:37:17.306176	LOG	Server ----------> DUT
0:37:17.311175	LOG	TX_ACK: 02 df15 05 aa555a0000240409
0:37:21.711176	LOG	PULL_DATA: 02 db20 02 aa555a0000240409
0:37:21.716173	LOG	PULL_ACK: 02 db20 04

0:37:22.291967	LOG	PUSH_ACK: 02 058c 01
0:37:22.293966	LOG	PUSH_DATA: Protocol version = 02, Token = 058c, Identifier = 00, JSON = {'rxpk': [{'tmst': 4001162516, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 17, 'data': 'QCAgICCAEwPgr4N2vLsZr90='}]}
0:37:22.295966	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0313, FOpts:), FPort: e0, FRMPayload: 080b0c0d, MIC: bb19afdd)
0:37:22.296967	LOG	Server <---------- DUT
0:37:22.298964	LOG	Answer in payload: 0b0c0d
0:37:22.299963	LOG	Frame Command Payload in the Answer: 080b0c0d
0:37:22.304962	LOG	Checking if the payload of the EchoPayloadAns is correct
0:37:22.308959	LOG	Send Test Command EchoPayloadReq process completed
0:37:22.312956	LOG	Test adaptive data rate control in frame header process starts
0:37:27.333951	LOG	PUSH_ACK: 02 058d 01
0:37:27.335950	LOG	PUSH_DATA: Protocol version = 02, Token = 058d, Identifier = 00, JSON = {'rxpk': [{'tmst': 4006161660, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAFAMBks1eGrMW'}]}
0:37:27.337948	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0314, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 5e1ab316)
0:37:27.339947	LOG	Server <---------- DUT
0:37:27.341946	LOG	Count = 2
0:37:31.791798	LOG	PULL_DATA: 02 c635 02 aa555a0000240409
0:37:31.793797	LOG	PULL_ACK: 02 c635 04
0:37:32.325088	LOG	PUSH_ACK: 02 058e 01
0:37:32.327087	LOG	PUSH_DATA: Protocol version = 02, Token = 058e, Identifier = 00, JSON = {'rxpk': [{'tmst': 4011164248, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAFQMBQkatASKK'}]}
0:37:32.329085	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0315, FOpts:), FPort: 01, FRMPayload: 0037, MIC: ad01228a)
0:37:32.331084	LOG	Server <---------- DUT
0:37:32.332084	LOG	Count = 3
0:37:37.316079	LOG	PUSH_ACK: 02 058f 01
0:37:37.318078	LOG	PUSH_DATA: Protocol version = 02, Token = 058f, Identifier = 00, JSON = {'rxpk': [{'tmst': 4016166842, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAFgMBYPIS+WsE'}]}
0:37:37.319078	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0316, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 12f96b04)
0:37:37.320077	LOG	Server <---------- DUT
0:37:37.321078	LOG	Count = 4
0:37:41.872074	LOG	PULL_DATA: 02 9dd6 02 aa555a0000240409
0:37:41.874071	LOG	PULL_ACK: 02 9dd6 04
0:37:42.318793	LOG	PUSH_ACK: 02 0591 01
0:37:42.320792	LOG	PUSH_DATA: Protocol version = 02, Token = 0591, Identifier = 00, JSON = {'rxpk': [{'tmst': 4021169439, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAFwMBRVT3Lb11'}]}
0:37:42.321792	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0317, FOpts:), FPort: 01, FRMPayload: 0037, MIC: f72dbd75)
0:37:42.322792	LOG	Server <---------- DUT
0:37:42.324790	LOG	Count = 5
0:37:47.306229	LOG	PUSH_ACK: 02 0592 01
0:37:47.309228	LOG	PUSH_DATA: Protocol version = 02, Token = 0592, Identifier = 00, JSON = {'rxpk': [{'tmst': 4026172033, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAGAMBFBC6GvBt'}]}
0:37:47.311226	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0318, FOpts:), FPort: 01, FRMPayload: 0037, MIC: ba1af06d)
0:37:47.312226	LOG	Server <---------- DUT
0:37:47.314225	LOG	Count = 6

0:37:51.951797	LOG	PULL_DATA: 02 0eb4 02 aa555a0000240409
0:37:51.956795	LOG	PULL_ACK: 02 0eb4 04
0:37:52.346578	LOG	PUSH_ACK: 02 0593 01
0:37:52.348577	LOG	PUSH_DATA: Protocol version = 02, Token = 0593, Identifier = 00, JSON = {'rxpk': [{'tmst': 4031174630, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAGQMBHsd5lPYw'}]}
0:37:52.350576	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0319, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 7994f630)
0:37:52.352575	LOG	Server <---------- DUT
0:37:52.353574	LOG	Count = 7
0:37:57.336818	LOG	PUSH_ACK: 02 0595 01
0:37:57.338818	LOG	PUSH_DATA: Protocol version = 02, Token = 0595, Identifier = 00, JSON = {'rxpk': [{'tmst': 4036177222, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAGgMBy899gzRM'}]}
0:37:57.339816	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 031a, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 7d83344c)
0:37:57.340818	LOG	Server <---------- DUT
0:37:57.342815	LOG	Count = 8
0:38:02.031484	LOG	PULL_DATA: 02 d3b3 02 aa555a0000240409
0:38:02.033484	LOG	PULL_ACK: 02 d3b3 04
0:38:02.325351	LOG	PUSH_ACK: 02 0596 01
0:38:02.327350	LOG	PUSH_DATA: Protocol version = 02, Token = 0596, Identifier = 00, JSON = {'rxpk': [{'tmst': 4041179815, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAGwMBCOUJN1Wa'}]}
0:38:02.328350	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 031b, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 0937559a)
0:38:02.330348	LOG	Server <---------- DUT
0:38:02.331348	LOG	Count = 9
0:38:07.313821	LOG	PUSH_ACK: 02 0597 01
0:38:07.315822	LOG	PUSH_DATA: Protocol version = 02, Token = 0597, Identifier = 00, JSON = {'rxpk': [{'tmst': 4046182411, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAHAMBFukE4eYl'}]}
0:38:07.317820	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 031c, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 04e1e625)
0:38:07.318836	LOG	Server <---------- DUT
0:38:07.320819	LOG	Count = 10
0:38:12.111706	LOG	PULL_DATA: 02 f25f 02 aa555a0000240409
0:38:12.113706	LOG	PULL_ACK: 02 f25f 04
0:38:12.320244	LOG	PUSH_ACK: 02 0599 01
0:38:12.322242	LOG	PUSH_DATA: Protocol version = 02, Token = 0599, Identifier = 00, JSON = {'rxpk': [{'tmst': 4051185015, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAHQMBOz6t0mck'}]}
0:38:12.323242	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 031d, FOpts:), FPort: 01, FRMPayload: 0037, MIC: add26724)
0:38:12.325242	LOG	Server <---------- DUT
0:38:12.326241	LOG	Count = 11
0:38:17.362048	LOG	PUSH_ACK: 02 059a 01
0:38:17.364049	LOG	PUSH_DATA: Protocol version = 02, Token = 059a, Identifier = 00, JSON = {'rxpk': [{'tmst': 4056187622, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAHgMBqYB0fRQ9'}]}
0:38:17.366048	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 031e, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 747d143d)
0:38:17.367046	LOG	Server <---------- DUT
0:38:17.368047	LOG	Count = 12
0:38:22.231683	LOG	PULL_DATA: 02 d7e1 02 aa555a0000240409
0:38:22.236679	LOG	PULL_ACK: 02 d7e1 04

0:38:22.349618	LOG	PUSH_ACK: 02 059b 01
0:38:22.351616	LOG	PUSH_DATA: Protocol version = 02, Token = 059b, Identifier = 00, JSON = {'rxpk': [{'tmst': 4061190225, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAHwMBi/7oa4rR'}]}
0:38:22.353617	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 031f, FOpts:), FPort: 01, FRMPayload: 0037, MIC: e86b8ad1)
0:38:22.354619	LOG	Server <---------- DUT
0:38:22.355618	LOG	Count = 13
0:38:27.338062	LOG	PUSH_ACK: 02 059c 01
0:38:27.340061	LOG	PUSH_DATA: Protocol version = 02, Token = 059c, Identifier = 00, JSON = {'rxpk': [{'tmst': 4066192827, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAIAMBjQ+CaKBR'}]}
0:38:27.342061	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0320, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 8268a051)
0:38:27.343059	LOG	Server <---------- DUT
0:38:27.345059	LOG	Count = 14
0:38:32.312311	LOG	PULL_DATA: 02 5bb1 02 aa555a0000240409
0:38:32.314311	LOG	PULL_ACK: 02 5bb1 04
0:38:32.328303	LOG	PUSH_ACK: 02 059d 01
0:38:32.330302	LOG	PUSH_DATA: Protocol version = 02, Token = 059d, Identifier = 00, JSON = {'rxpk': [{'tmst': 4071195436, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAIQMB+nSeUCSP'}]}
0:38:32.333300	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0321, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 9e50248f)
0:38:32.335300	LOG	Server <---------- DUT
0:38:32.337298	LOG	Count = 15
0:38:37.370316	LOG	PUSH_ACK: 02 059e 01
0:38:37.372315	LOG	PUSH_DATA: Protocol version = 02, Token = 059e, Identifier = 00, JSON = {'rxpk': [{'tmst': 4076198033, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAIgMB5ba5iO+8'}]}
0:38:37.374314	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0322, FOpts:), FPort: 01, FRMPayload: 0037, MIC: b988efbc)
0:38:37.375314	LOG	Server <---------- DUT
0:38:37.376313	LOG	Count = 16
0:38:42.373768	LOG	PUSH_ACK: 02 05a0 01
0:38:42.375767	LOG	PUSH_DATA: Protocol version = 02, Token = 05a0, Identifier = 00, JSON = {'rxpk': [{'tmst': 4081200623, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAIwMBzcGQSGwp'}]}
0:38:42.376766	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0323, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 90486c29)
0:38:42.377766	LOG	Server <---------- DUT
0:38:42.379765	LOG	Count = 17
0:38:42.392758	LOG	PULL_DATA: 02 b0a9 02 aa555a0000240409
0:38:42.393757	LOG	PULL_ACK: 02 b0a9 04
0:38:47.362297	LOG	PUSH_ACK: 02 05a1 01
0:38:47.365296	LOG	PUSH_DATA: Protocol version = 02, Token = 05a1, Identifier = 00, JSON = {'rxpk': [{'tmst': 4086203221, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAJAMB4+mekB8M'}]}
0:38:47.366295	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0324, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 9e901f0c)
0:38:47.368294	LOG	Server <---------- DUT
0:38:47.370293	LOG	Count = 18
0:38:52.353088	LOG	PUSH_ACK: 02 05a2 01
0:38:52.358085	LOG	PUSH_DATA: Protocol version = 02, Token = 05a2, Identifier = 00, JSON = {'rxpk': [{'tmst': 4091205829, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAJQMB8bWggM57'}]}

0:38:52.360084	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0325, FOpts:), FPort: 01, FRMPayload: 0037, MIC: a080ce7b)
0:38:52.361083	LOG	Server <---------- DUT
0:38:52.363083	LOG	Count = 19
0:38:52.472242	LOG	PULL_DATA: 02 5d63 02 aa555a0000240409
0:38:52.474241	LOG	PULL_ACK: 02 5d63 04
0:38:57.344694	LOG	PUSH_ACK: 02 05a3 01
0:38:57.346692	LOG	PUSH_DATA: Protocol version = 02, Token = 05a3, Identifier = 00, JSON = {'rxpk': [{'tmst': 4096208424, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAJgMBHTRmCGZG'}]}
0:38:57.348690	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0326, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 66086646)
0:38:57.349690	LOG	Server <---------- DUT
0:38:57.351689	LOG	Count = 20
0:39:02.384550	LOG	PUSH_ACK: 02 05a4 01
0:39:02.387548	LOG	PUSH_DATA: Protocol version = 02, Token = 05a4, Identifier = 00, JSON = {'rxpk': [{'tmst': 4101211024, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAJwMBoTlb64WR'}]}
0:39:02.389547	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0327, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 5beb8591)
0:39:02.390547	LOG	Server <---------- DUT
0:39:02.392546	LOG	Count = 21
0:39:02.562324	LOG	PULL_DATA: 02 d351 02 aa555a0000240409
0:39:02.563324	LOG	PULL_ACK: 02 d351 04
0:39:07.373393	LOG	PUSH_ACK: 02 05a5 01
0:39:07.375394	LOG	PUSH_DATA: Protocol version = 02, Token = 05a5, Identifier = 00, JSON = {'rxpk': [{'tmst': 4106213635, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAKAMBUPKM67rS'}]}
0:39:07.376391	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0328, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 8cebbad2)
0:39:07.377392	LOG	Server <---------- DUT
0:39:07.379390	LOG	Count = 22
0:39:12.372917	LOG	PUSH_ACK: 02 05a7 01
0:39:12.375915	LOG	PUSH_DATA: Protocol version = 02, Token = 05a7, Identifier = 00, JSON = {'rxpk': [{'tmst': 4111216230, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAKQMBhkpErMh9'}]}
0:39:12.376915	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0329, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 44acc87d)
0:39:12.378914	LOG	Server <---------- DUT
0:39:12.379913	LOG	Count = 23
0:39:12.642405	LOG	PULL_DATA: 02 2796 02 aa555a0000240409
0:39:12.644403	LOG	PULL_ACK: 02 2796 04
0:39:17.363903	LOG	PUSH_ACK: 02 05a8 01
0:39:17.365903	LOG	PUSH_DATA: Protocol version = 02, Token = 05a8, Identifier = 00, JSON = {'rxpk': [{'tmst': 4116218827, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAKgMBv1vA7VQ+'}]}
0:39:17.367901	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 032a, FOpts:), FPort: 01, FRMPayload: 0037, MIC: c0ed543e)
0:39:17.369900	LOG	Server <---------- DUT
0:39:17.370900	LOG	Count = 24
0:39:22.354648	LOG	PUSH_ACK: 02 05a9 01
0:39:22.356646	LOG	PUSH_DATA: Protocol version = 02, Token = 05a9, Identifier = 00, JSON = {'rxpk': [{'tmst': 4121221417, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAKwMBvlBAyUra'}]}
0:39:22.357646	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 032b, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 40c94ada)

0:39:22.358645	LOG	Server <---------- DUT
0:39:22.360644	LOG	Count = 25
0:39:22.732626	LOG	PULL_DATA: 02 c8c1 02 aa555a0000240409
0:39:22.736623	LOG	PULL_ACK: 02 c8c1 04
0:39:27.394346	LOG	PUSH_ACK: 02 05aa 01
0:39:27.396343	LOG	PUSH_DATA: Protocol version = 02, Token = 05aa, Identifier = 00, JSON = {'rxpk': [{'tmst': 4126224006, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCALAMBrf0kf5w7'}]}
0:39:27.397343	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 032c, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 247f9c3b)
0:39:27.399343	LOG	Server <---------- DUT
0:39:27.400342	LOG	Count = 26
0:39:32.383432	LOG	PUSH_ACK: 02 05ab 01
0:39:32.385430	LOG	PUSH_DATA: Protocol version = 02, Token = 05ab, Identifier = 00, JSON = {'rxpk': [{'tmst': 4131226606, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCALQMBMTyPdBXL'}]}
0:39:32.387429	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 032d, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 8f7415cb)
0:39:32.389428	LOG	Server <---------- DUT
0:39:32.390428	LOG	Count = 27
0:39:32.812380	LOG	PULL_DATA: 02 fa7b 02 aa555a0000240409
0:39:32.814379	LOG	PULL_ACK: 02 fa7b 04
0:39:37.370966	LOG	PUSH_ACK: 02 05ac 01
0:39:37.372966	LOG	PUSH_DATA: Protocol version = 02, Token = 05ac, Identifier = 00, JSON = {'rxpk': [{'tmst': 4136229206, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCALgMB1fB3sm3w'}]}
0:39:37.374964	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 032e, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 77b26df0)
0:39:37.376963	LOG	Server <---------- DUT
0:39:37.377962	LOG	Count = 28
0:39:42.373016	LOG	PUSH_ACK: 02 05ae 01
0:39:42.375015	LOG	PUSH_DATA: Protocol version = 02, Token = 05ae, Identifier = 00, JSON = {'rxpk': [{'tmst': 4141231807, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCALwMBYsA4raet'}]}
0:39:42.376014	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 032f, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 38ada7ad)
0:39:42.377014	LOG	Server <---------- DUT
0:39:42.379012	LOG	Count = 29
0:39:42.892638	LOG	PULL_DATA: 02 80af 02 aa555a0000240409
0:39:42.894637	LOG	PULL_ACK: 02 80af 04
0:39:47.363149	LOG	PUSH_ACK: 02 05af 01
0:39:47.365148	LOG	PUSH_DATA: Protocol version = 02, Token = 05af, Identifier = 00, JSON = {'rxpk': [{'tmst': 4146234396, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAMAMB35WuE7/w'}]}
0:39:47.367151	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0330, FOpts:), FPort: 01, FRMPayload: 0037, MIC: ae13bff0)
0:39:47.368150	LOG	Server <---------- DUT
0:39:47.370147	LOG	Count = 30
0:39:52.405419	LOG	PUSH_ACK: 02 05b0 01
0:39:52.407416	LOG	PUSH_DATA: Protocol version = 02, Token = 05b0, Identifier = 00, JSON = {'rxpk': [{'tmst': 4151236989, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAMQMBGba5NlJv'}]}
0:39:52.409415	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0331, FOpts:), FPort: 01, FRMPayload: 0037, MIC: b936526f)
0:39:52.411415	LOG	Server <---------- DUT
0:39:52.412414	LOG	Count = 31

0:39:52.972376	LOG	PULL_DATA: 02 4c5b 02 aa555a0000240409
0:39:52.977374	LOG	PULL_ACK: 02 4c5b 04
0:39:57.396225	LOG	PUSH_ACK: 02 05b1 01
0:39:57.398223	LOG	PUSH_DATA: Protocol version = 02, Token = 05b1, Identifier = 00, JSON = {'rxpk': [{'tmst': 4156239593, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAMgMBrRcf56kY'}]}
0:39:57.399222	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0332, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 1fe7a918)
0:39:57.401221	LOG	Server <---------- DUT
0:39:57.402220	LOG	Count = 32
0:40:02.386754	LOG	PUSH_ACK: 02 05b2 01
0:40:02.388753	LOG	PUSH_DATA: Protocol version = 02, Token = 05b2, Identifier = 00, JSON = {'rxpk': [{'tmst': 4161242192, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAMwMBxD8PEBXM'}]}
0:40:02.390752	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0333, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 0f1015cc)
0:40:02.391751	LOG	Server <---------- DUT
0:40:02.393750	LOG	Count = 33
0:40:03.052152	LOG	PULL_DATA: 02 cf13 02 aa555a0000240409
0:40:03.054152	LOG	PULL_ACK: 02 cf13 04
0:40:07.378743	LOG	PUSH_ACK: 02 05b3 01
0:40:07.383742	LOG	PUSH_DATA: Protocol version = 02, Token = 05b3, Identifier = 00, JSON = {'rxpk': [{'tmst': 4166244783, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCANAMBjufswH6M'}]}
0:40:07.385739	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0334, FOpts:), FPort: 01, FRMPayload: 0037, MIC: ecc07e8c)
0:40:07.386739	LOG	Server <---------- DUT
0:40:07.388738	LOG	Count = 34
0:40:12.383603	LOG	PUSH_ACK: 02 05b5 01
0:40:12.385602	LOG	PUSH_DATA: Protocol version = 02, Token = 05b5, Identifier = 00, JSON = {'rxpk': [{'tmst': 4171247373, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCANQMBs8BwosA/'}]}
0:40:12.387600	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0335, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 70a2c03f)
0:40:12.388599	LOG	Server <---------- DUT
0:40:12.389599	LOG	Count = 35
0:40:13.133105	LOG	PULL_DATA: 02 916c 02 aa555a0000240409
0:40:13.135104	LOG	PULL_ACK: 02 916c 04
0:40:17.424724	LOG	PUSH_ACK: 02 05b6 01
0:40:17.426723	LOG	PUSH_DATA: Protocol version = 02, Token = 05b6, Identifier = 00, JSON = {'rxpk': [{'tmst': 4176249962, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCANgMB9FpqadMf'}]}
0:40:17.428722	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0336, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 6a69d31f)
0:40:17.429721	LOG	Server <---------- DUT
0:40:17.431720	LOG	Count = 36
0:40:22.414616	LOG	PUSH_ACK: 02 05b7 01
0:40:22.417614	LOG	PUSH_DATA: Protocol version = 02, Token = 05b7, Identifier = 00, JSON = {'rxpk': [{'tmst': 4181252557, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCANwMBQ3Oj07Hp'}]}
0:40:22.419613	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0337, FOpts:), FPort: 01, FRMPayload: 0037, MIC: a3d3b1e9)
0:40:22.421612	LOG	Server <---------- DUT
0:40:22.422612	LOG	Count = 37
0:40:23.212899	LOG	PULL_DATA: 02 e99f 02 aa555a0000240409
0:40:23.217899	LOG	PULL_ACK: 02 e99f 04

0:40:27.405790	LOG	PUSH_ACK: 02 05b8 01
0:40:27.408789	LOG	PUSH_DATA: Protocol version = 02, Token = 05b8, Identifier = 00, JSON = {'rxpk': [{'tmst': 4186255136, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAOAMBa+aIlNsm'}]}
0:40:27.409787	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0338, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 8894db26)
0:40:27.411786	LOG	Server <---------- DUT
0:40:27.412803	LOG	Count = 38
0:40:32.397666	LOG	PUSH_ACK: 02 05b9 01
0:40:32.399665	LOG	PUSH_DATA: Protocol version = 02, Token = 05b9, Identifier = 00, JSON = {'rxpk': [{'tmst': 4191257722, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAOQMBYgT77pU+'}]}
0:40:32.401664	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0339, FOpts:), FPort: 01, FRMPayload: 0037, MIC: fbee953e)
0:40:32.403663	LOG	Server <---------- DUT
0:40:32.404662	LOG	Count = 39
0:40:33.292509	LOG	PULL_DATA: 02 21bc 02 aa555a0000240409
0:40:33.294510	LOG	PULL_ACK: 02 21bc 04
0:40:37.388228	LOG	PUSH_ACK: 02 05ba 01
0:40:37.391228	LOG	PUSH_DATA: Protocol version = 02, Token = 05ba, Identifier = 00, JSON = {'rxpk': [{'tmst': 4196260305, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAOgMBow0LANIT'}]}
0:40:37.392228	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 033a, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 0b00d213)
0:40:37.393227	LOG	Server <---------- DUT
0:40:37.394226	LOG	Count = 40
0:40:42.393347	LOG	PUSH_ACK: 02 05bc 01
0:40:42.396345	LOG	PUSH_DATA: Protocol version = 02, Token = 05bc, Identifier = 00, JSON = {'rxpk': [{'tmst': 4201262903, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAOwMBgPQvp1PB'}]}
0:40:42.397345	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 033b, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 2fa753c1)
0:40:42.398344	LOG	Server <---------- DUT
0:40:42.400343	LOG	Count = 41
0:40:43.372998	LOG	PULL_DATA: 02 5213 02 aa555a0000240409
0:40:43.374994	LOG	PULL_ACK: 02 5213 04
0:40:47.435729	LOG	PUSH_ACK: 02 05bd 01
0:40:47.437728	LOG	PUSH_DATA: Protocol version = 02, Token = 05bd, Identifier = 00, JSON = {'rxpk': [{'tmst': 4206265491, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAPAMBEOMSCHbS'}]}
0:40:47.439727	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 033c, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 120876d2)
0:40:47.440726	LOG	Server <---------- DUT
0:40:47.442725	LOG	Count = 42
0:40:52.427153	LOG	PUSH_ACK: 02 05be 01
0:40:52.429152	LOG	PUSH_DATA: Protocol version = 02, Token = 05be, Identifier = 00, JSON = {'rxpk': [{'tmst': 4211268078, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAPQMBiFu4wSd6'}]}
0:40:52.431151	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 033d, FOpts:), FPort: 01, FRMPayload: 0037, MIC: b8c1277a)
0:40:52.433150	LOG	Server <---------- DUT
0:40:52.434149	LOG	Count = 43
0:40:53.453162	LOG	PULL_DATA: 02 1b2a 02 aa555a0000240409
0:40:53.458160	LOG	PULL_ACK: 02 1b2a 04
0:40:57.417952	LOG	PUSH_ACK: 02 05bf 01

0:40:57.420951	LOG	PUSH_DATA: Protocol version = 02, Token = 05bf, Identifier = 00, JSON = {'rxpk': [{'tmst': 4216270660, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAPgMBz+1AVpmN'}]}
0:40:57.422950	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 033e, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 4056998d)
0:40:57.423949	LOG	Server <---------- DUT
0:40:57.425947	LOG	Count = 44
0:41:02.409090	LOG	PUSH_ACK: 02 05c0 01
0:41:02.411088	LOG	PUSH_DATA: Protocol version = 02, Token = 05c0, Identifier = 00, JSON = {'rxpk': [{'tmst': 4221273253, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAPwMB/h11lVN0'}]}
0:41:02.412089	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 033f, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 75955374)
0:41:02.413090	LOG	Server <---------- DUT
0:41:02.415087	LOG	Count = 45
0:41:03.532691	LOG	PULL_DATA: 02 f476 02 aa555a0000240409
0:41:03.535690	LOG	PULL_ACK: 02 f476 04
0:41:07.449509	LOG	PUSH_ACK: 02 05c1 01
0:41:07.453506	LOG	PUSH_DATA: Protocol version = 02, Token = 05c1, Identifier = 00, JSON = {'rxpk': [{'tmst': 4226275844, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAQAMBzin4I5Kg'}]}
0:41:07.457503	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0340, FOpts:), FPort: 01, FRMPayload: 0037, MIC: f82392a0)
0:41:07.461500	LOG	Server <---------- DUT
0:41:07.465498	LOG	Count = 46
0:41:12.453051	LOG	PUSH_ACK: 02 05c3 01
0:41:12.456050	LOG	PUSH_DATA: Protocol version = 02, Token = 05c3, Identifier = 00, JSON = {'rxpk': [{'tmst': 4231278439, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAQQMBb1W4JgWp'}]}
0:41:12.460047	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0341, FOpts:), FPort: 01, FRMPayload: 0037, MIC: b82605a9)
0:41:12.464046	LOG	Server <---------- DUT
0:41:12.467044	LOG	Count = 47
0:41:13.613339	LOG	PULL_DATA: 02 dba4 02 aa555a0000240409
0:41:13.615337	LOG	PULL_ACK: 02 dba4 04
0:41:17.444203	LOG	PUSH_ACK: 02 05c5 01
0:41:17.446202	LOG	PUSH_DATA: Protocol version = 02, Token = 05c5, Identifier = 00, JSON = {'rxpk': [{'tmst': 4236281048, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAQgMBJEHTFETI'}]}
0:41:17.448201	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0342, FOpts:), FPort: 01, FRMPayload: 0037, MIC: d31444c8)
0:41:17.450200	LOG	Server <---------- DUT
0:41:17.451199	LOG	Count = 48
0:41:22.432605	LOG	PUSH_ACK: 02 05c6 01
0:41:22.434604	LOG	PUSH_DATA: Protocol version = 02, Token = 05c6, Identifier = 00, JSON = {'rxpk': [{'tmst': 4241283654, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAQwMBPJx/dcOp'}]}
0:41:22.435605	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0343, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 7f75c3a9)
0:41:22.436605	LOG	Server <---------- DUT
0:41:22.438604	LOG	Count = 49
0:41:23.692672	LOG	PULL_DATA: 02 1f39 02 aa555a0000240409
0:41:23.697670	LOG	PULL_ACK: 02 1f39 04
0:41:27.421594	LOG	PUSH_ACK: 02 05c7 01

0:41:27.423593	LOG	PUSH_DATA: Protocol version = 02, Token = 05c7, Identifier = 00, JSON = {'rxpk': [{'tmst': 4246286240, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCARAMBQXX9R5sp'}]}
0:41:27.425593	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0344, FOpts:), FPort: 01, FRMPayload: 0037, MIC: fd479b29)
0:41:27.426593	LOG	Server <---------- DUT
0:41:27.427592	LOG	Count = 50
0:41:32.461031	LOG	PUSH_ACK: 02 05c8 01
0:41:32.463030	LOG	PUSH_DATA: Protocol version = 02, Token = 05c8, Identifier = 00, JSON = {'rxpk': [{'tmst': 4251288829, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCARQMBoyNuirAM'}]}
0:41:32.465029	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0345, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 6e8ab00c)
0:41:32.467028	LOG	Server <---------- DUT
0:41:32.468027	LOG	Count = 51
0:41:33.773299	LOG	PULL_DATA: 02 08f3 02 aa555a0000240409
0:41:33.775298	LOG	PULL_ACK: 02 08f3 04
0:41:37.450250	LOG	PUSH_ACK: 02 05c9 01
0:41:37.452248	LOG	PUSH_DATA: Protocol version = 02, Token = 05c9, Identifier = 00, JSON = {'rxpk': [{'tmst': 4256291423, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCARgMBLbv30tsB'}]}
0:41:37.453248	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0346, FOpts:), FPort: 01, FRMPayload: 0037, MIC: f7d2db01)
0:41:37.454247	LOG	Server <---------- DUT
0:41:37.456246	LOG	Count = 52
0:41:42.454694	LOG	PUSH_ACK: 02 05cb 01
0:41:42.456692	LOG	PUSH_DATA: Protocol version = 02, Token = 05cb, Identifier = 00, JSON = {'rxpk': [{'tmst': 4261294008, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCARwMBrxoipLGo'}]}
0:41:42.458691	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0347, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 22a4b1a8)
0:41:42.460690	LOG	Server <---------- DUT
0:41:42.461689	LOG	Count = 53
0:41:43.853614	LOG	PULL_DATA: 02 8a2f 02 aa555a0000240409
0:41:43.855613	LOG	PULL_ACK: 02 8a2f 04
0:41:47.443613	LOG	PUSH_ACK: 02 05cc 01
0:41:47.445612	LOG	PUSH_DATA: Protocol version = 02, Token = 05cc, Identifier = 00, JSON = {'rxpk': [{'tmst': 4266296590, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCASAMB098vJVOK'}]}
0:41:47.447610	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0348, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 2f25538a)
0:41:47.449609	LOG	Server <---------- DUT
0:41:47.450609	LOG	Count = 54
0:41:52.431691	LOG	PUSH_ACK: 02 05cd 01
0:41:52.433690	LOG	PUSH_DATA: Protocol version = 02, Token = 05cd, Identifier = 00, JSON = {'rxpk': [{'tmst': 4271299173, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCASQMB6Yp3bCg8'}]}
0:41:52.434689	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0349, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 776c283c)
0:41:52.436688	LOG	Server <---------- DUT
0:41:52.437688	LOG	Count = 55
0:41:53.932977	LOG	PULL_DATA: 02 8952 02 aa555a0000240409
0:41:53.937973	LOG	PULL_ACK: 02 8952 04
0:41:57.472047	LOG	PUSH_ACK: 02 05ce 01

0:41:57.475045	LOG	PUSH_DATA: Protocol version = 02, Token = 05ce, Identifier = 00, JSON = {'rxpk': [{'tmst': 4276301744, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCASgMBf4VyrC2U'}]}
0:41:57.476045	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 034a, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 72ac2d94)
0:41:57.477044	LOG	Server <---------- DUT
0:41:57.479043	LOG	Count = 56
0:42:02.460864	LOG	PUSH_ACK: 02 05cf 01
0:42:02.462863	LOG	PUSH_DATA: Protocol version = 02, Token = 05cf, Identifier = 00, JSON = {'rxpk': [{'tmst': 4281304323, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCASwMBzxpGUbIu'}]}
0:42:02.464862	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 034b, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 4651b22e)
0:42:02.466861	LOG	Server <---------- DUT
0:42:02.467860	LOG	Count = 57
0:42:04.013175	LOG	PULL_DATA: 02 f184 02 aa555a0000240409
0:42:04.015173	LOG	PULL_ACK: 02 f184 04
0:42:07.449258	LOG	PUSH_ACK: 02 05d0 01
0:42:07.451258	LOG	PUSH_DATA: Protocol version = 02, Token = 05d0, Identifier = 00, JSON = {'rxpk': [{'tmst': 4286306917, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCATAMBswfSDHVk'}]}
0:42:07.453256	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 034c, FOpts:), FPort: 01, FRMPayload: 0037, MIC: d20c7564)
0:42:07.455255	LOG	Server <---------- DUT
0:42:07.457254	LOG	Count = 58
0:42:12.453989	LOG	PUSH_ACK: 02 05d2 01
0:42:12.455989	LOG	PUSH_DATA: Protocol version = 02, Token = 05d2, Identifier = 00, JSON = {'rxpk': [{'tmst': 4291309506, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCATQMB6p1Sw9J+'}]}
0:42:12.456987	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 034d, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 52c3d27e)
0:42:12.458987	LOG	Server <---------- DUT
0:42:12.459987	LOG	Count = 59
0:42:14.093077	LOG	PULL_DATA: 02 cd71 02 aa555a0000240409
0:42:14.095076	LOG	PULL_ACK: 02 cd71 04
0:42:17.442012	LOG	PUSH_ACK: 02 05d3 01
0:42:17.445010	LOG	PUSH_DATA: Protocol version = 02, Token = 05d3, Identifier = 00, JSON = {'rxpk': [{'tmst': 1344803, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCATgMBkisAC6KM'}]}
0:42:17.446010	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 034e, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 000ba28c)
0:42:17.448008	LOG	Server <---------- DUT
0:42:17.450007	LOG	Count = 60
0:42:22.483321	LOG	PUSH_ACK: 02 05d4 01
0:42:22.485319	LOG	PUSH_DATA: Protocol version = 02, Token = 05d4, Identifier = 00, JSON = {'rxpk': [{'tmst': 6347387, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCATwMBirjSsBO4'}]}
0:42:22.487319	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 034f, FOpts:), FPort: 01, FRMPayload: 0037, MIC: d2b013b8)
0:42:22.489317	LOG	Server <---------- DUT
0:42:22.490316	LOG	Count = 61
0:42:24.183384	LOG	PULL_DATA: 02 331a 02 aa555a0000240409
0:42:24.187369	LOG	PULL_ACK: 02 331a 04
0:42:27.471560	LOG	PUSH_ACK: 02 05d5 01

0:42:27.473558	LOG	PUSH_DATA: Protocol version = 02, Token = 05d5, Identifier = 00, JSON = {'rxpk': [{'tmst': 11349981, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAUAMBS44UePsq'}]}
0:42:27.475557	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0350, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 1478fb2a)
0:42:27.476558	LOG	Server <---------- DUT
0:42:27.477557	LOG	Count = 62
0:42:32.459642	LOG	PUSH_ACK: 02 05d6 01
0:42:32.461642	LOG	PUSH_DATA: Protocol version = 02, Token = 05d6, Identifier = 00, JSON = {'rxpk': [{'tmst': 16352567, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAUQMBtQc0bqAA'}]}
0:42:32.463641	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0351, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 346ea000)
0:42:32.464640	LOG	Server <---------- DUT
0:42:32.466639	LOG	Count = 63
0:42:34.263172	LOG	PULL_DATA: 02 cc03 02 aa555a0000240409
0:42:34.265170	LOG	PULL_ACK: 02 cc03 04
0:42:37.500670	LOG	PUSH_ACK: 02 05d7 01
0:42:37.502669	LOG	PUSH_DATA: Protocol version = 02, Token = 05d7, Identifier = 00, JSON = {'rxpk': [{'tmst': 21355174, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAUgMBpg2rPmGg'}]}
0:42:37.504668	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0352, FOpts:), FPort: 01, FRMPayload: 0037, MIC: ab3e61a0)
0:42:37.505667	LOG	Server <---------- DUT
0:42:37.507666	LOG	Count = 64
0:42:37.528654	LOG	Expected number of uplink messages have been received
0:42:37.537649	LOG	Test adaptive data rate control in frame header process starts
0:42:42.454035	LOG	PUSH_ACK: 02 05d9 01
0:42:42.456013	LOG	PUSH_DATA: Protocol version = 02, Token = 05d9, Identifier = 00, JSON = {'rxpk': [{'tmst': 26357781, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAUwMB6Ddqi6ZV'}]}
0:42:42.458017	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0353, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 6a8ba655)
0:42:42.460012	LOG	Server <---------- DUT
0:42:42.461015	LOG	Count = 2
0:42:44.343290	LOG	PULL_DATA: 02 2d5d 02 aa555a0000240409
0:42:44.345290	LOG	PULL_ACK: 02 2d5d 04
0:42:47.494537	LOG	PUSH_ACK: 02 05da 01
0:42:47.496536	LOG	PUSH_DATA: Protocol version = 02, Token = 05da, Identifier = 00, JSON = {'rxpk': [{'tmst': 31360373, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAVAMB3GCtYn6K'}]}
0:42:47.498535	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0354, FOpts:), FPort: 01, FRMPayload: 0037, MIC: ad627e8a)
0:42:47.500534	LOG	Server <---------- DUT
0:42:47.501533	LOG	Count = 3
0:42:52.484021	LOG	PUSH_ACK: 02 05db 01
0:42:52.485020	LOG	PUSH_DATA: Protocol version = 02, Token = 05db, Identifier = 00, JSON = {'rxpk': [{'tmst': 36362957, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAVQMBWWeNyoAx'}]}
0:42:52.487019	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0355, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 8dca8031)
0:42:52.488018	LOG	Server <---------- DUT
0:42:52.490017	LOG	Count = 4
0:42:54.423953	LOG	PULL_DATA: 02 6f16 02 aa555a0000240409
0:42:54.427983	LOG	PULL_ACK: 02 6f16 04
0:42:57.472253	LOG	PUSH_ACK: 02 05dc 01

0:42:57.474253	LOG	PUSH_DATA: Protocol version = 02, Token = 05dc, Identifier = 00, JSON = {'rxpk': [{'tmst': 41365554, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAVgMBED+zoQBl'}]}
0:42:57.476252	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0356, FOpts:), FPort: 01, FRMPayload: 0037, MIC: b3a10065)
0:42:57.477250	LOG	Server <---------- DUT
0:42:57.479249	LOG	Count = 5
0:43:02.511881	LOG	PUSH_ACK: 02 05dd 01
0:43:02.513880	LOG	PUSH_DATA: Protocol version = 02, Token = 05dd, Identifier = 00, JSON = {'rxpk': [{'tmst': 46368150, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAVwMB33v3csp7'}]}
0:43:02.514880	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0357, FOpts:), FPort: 01, FRMPayload: 0037, MIC: f772ca7b)
0:43:02.516879	LOG	Server <---------- DUT
0:43:02.517878	LOG	Count = 6
0:43:04.503959	LOG	PULL_DATA: 02 fc90 02 aa555a0000240409
0:43:04.505959	LOG	PULL_ACK: 02 fc90 04
0:43:07.500287	LOG	PUSH_ACK: 02 05de 01
0:43:07.503288	LOG	PUSH_DATA: Protocol version = 02, Token = 05de, Identifier = 00, JSON = {'rxpk': [{'tmst': 51370746, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAWAMB9+mSag/1'}]}
0:43:07.504285	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0358, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 926a0ff5)
0:43:07.506285	LOG	Server <---------- DUT
0:43:07.507304	LOG	Count = 7
0:43:12.504776	LOG	PUSH_ACK: 02 05e0 01
0:43:12.507773	LOG	PUSH_DATA: Protocol version = 02, Token = 05e0, Identifier = 00, JSON = {'rxpk': [{'tmst': 56373340, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAWQMBuG4Q3dtR'}]}
0:43:12.508773	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0359, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 10dddb51)
0:43:12.509772	LOG	Server <---------- DUT
0:43:12.511771	LOG	Count = 8
0:43:14.584147	LOG	PULL_DATA: 02 d34f 02 aa555a0000240409
0:43:14.585147	LOG	PULL_ACK: 02 d34f 04
0:43:17.493120	LOG	PUSH_ACK: 02 05e1 01
0:43:17.495119	LOG	PUSH_DATA: Protocol version = 02, Token = 05e1, Identifier = 00, JSON = {'rxpk': [{'tmst': 61375925, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAWgMBqjnhd32c'}]}
0:43:17.498119	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 035a, FOpts:), FPort: 01, FRMPayload: 0037, MIC: e1777d9c)
0:43:17.501118	LOG	Server <---------- DUT
0:43:17.505115	LOG	Count = 9
0:43:22.482057	LOG	PUSH_ACK: 02 05e2 01
0:43:22.483054	LOG	PUSH_DATA: Protocol version = 02, Token = 05e2, Identifier = 00, JSON = {'rxpk': [{'tmst': 66378521, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAWwMBdQU84sGa'}]}
0:43:22.485055	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 035b, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 3ce2c19a)
0:43:22.486053	LOG	Server <---------- DUT
0:43:22.487052	LOG	Count = 10
0:43:24.663349	LOG	PULL_DATA: 02 a3ee 02 aa555a0000240409
0:43:24.668347	LOG	PULL_ACK: 02 a3ee 04
0:43:27.520757	LOG	PUSH_ACK: 02 05e3 01

0:43:27.522756	LOG	PUSH_DATA: Protocol version = 02, Token = 05e3, Identifier = 00, JSON = {'rxpk': [{'tmst': 71381115, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAXAMB6KnwqJO+'}]}
0:43:27.524754	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 035c, FOpts:), FPort: 01, FRMPayload: 0037, MIC: f0a893be)
0:43:27.526753	LOG	Server <---------- DUT
0:43:27.528752	LOG	Count = 11
0:43:32.509082	LOG	PUSH_ACK: 02 05e4 01
0:43:32.511081	LOG	PUSH_DATA: Protocol version = 02, Token = 05e4, Identifier = 00, JSON = {'rxpk': [{'tmst': 76383690, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAXQMBwGDPfvik'}]}
0:43:32.513080	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 035d, FOpts:), FPort: 01, FRMPayload: 0037, MIC: cf7ef8a4)
0:43:32.514079	LOG	Server <---------- DUT
0:43:32.515079	LOG	Count = 12
0:43:34.743654	LOG	PULL_DATA: 02 7998 02 aa555a0000240409
0:43:34.745653	LOG	PULL_ACK: 02 7998 04
0:43:37.498118	LOG	PUSH_ACK: 02 05e5 01
0:43:37.500117	LOG	PUSH_DATA: Protocol version = 02, Token = 05e5, Identifier = 00, JSON = {'rxpk': [{'tmst': 81386282, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAXgMBsdKpg+ph'}]}
0:43:37.501117	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 035e, FOpts:), FPort: 01, FRMPayload: 0037, MIC: a983ea61)
0:43:37.502116	LOG	Server <---------- DUT
0:43:37.503116	LOG	Count = 13
0:43:42.497748	LOG	PUSH_ACK: 02 05e7 01
0:43:42.500746	LOG	PUSH_DATA: Protocol version = 02, Token = 05e7, Identifier = 00, JSON = {'rxpk': [{'tmst': 86388873, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAXwMBCJIBCasZ'}]}
0:43:42.502745	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 035f, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 0109ab19)
0:43:42.503745	LOG	Server <---------- DUT
0:43:42.505744	LOG	Count = 14
0:43:44.823717	LOG	PULL_DATA: 02 6554 02 aa555a0000240409
0:43:44.825717	LOG	PULL_ACK: 02 6554 04
0:43:47.488233	LOG	PUSH_ACK: 02 05e8 01
0:43:47.490231	LOG	PUSH_DATA: Protocol version = 02, Token = 05e8, Identifier = 00, JSON = {'rxpk': [{'tmst': 91391454, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAYAMBcpunDwhV'}]}
0:43:47.492230	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0360, FOpts:), FPort: 01, FRMPayload: 0037, MIC: a70f0855)
0:43:47.494229	LOG	Server <---------- DUT
0:43:47.495228	LOG	Count = 15
0:43:52.530599	LOG	PUSH_ACK: 02 05e9 01
0:43:52.533598	LOG	PUSH_DATA: Protocol version = 02, Token = 05e9, Identifier = 00, JSON = {'rxpk': [{'tmst': 96394042, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAYQMB7MbHjGyH'}]}
0:43:52.535596	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0361, FOpts:), FPort: 01, FRMPayload: 0037, MIC: c78c6c87)
0:43:52.536596	LOG	Server <---------- DUT
0:43:52.538595	LOG	Count = 16
0:43:54.904137	LOG	PULL_DATA: 02 3c84 02 aa555a0000240409
0:43:54.909135	LOG	PULL_ACK: 02 3c84 04
0:43:57.521936	LOG	PUSH_ACK: 02 05ea 01

0:43:57.523937	LOG	PUSH_DATA: Protocol version = 02, Token = 05ea, Identifier = 00, JSON = {'rxpk': [{'tmst': 101396626, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAYgMBAXYUzm+p'}]}
0:43:57.524934	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0362, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 14ce6fa9)
0:43:57.526934	LOG	Server <---------- DUT
0:43:57.527933	LOG	Count = 17
0:44:02.511608	LOG	PUSH_ACK: 02 05eb 01
0:44:02.513607	LOG	PUSH_DATA: Protocol version = 02, Token = 05eb, Identifier = 00, JSON = {'rxpk': [{'tmst': 106399211, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAYwMBu/sWvqqP'}]}
0:44:02.514606	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0363, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 16beaa8f)
0:44:02.516606	LOG	Server <---------- DUT
0:44:02.517605	LOG	Count = 18
0:44:04.983742	LOG	PULL_DATA: 02 8d44 02 aa555a0000240409
0:44:04.985741	LOG	PULL_ACK: 02 8d44 04
0:44:07.501338	LOG	PUSH_ACK: 02 05ec 01
0:44:07.504337	LOG	PUSH_DATA: Protocol version = 02, Token = 05ec, Identifier = 00, JSON = {'rxpk': [{'tmst': 111401797, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAZAMB94o3IiZg'}]}
0:44:07.505336	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0364, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 37222660)
0:44:07.506336	LOG	Server <---------- DUT
0:44:07.508335	LOG	Count = 19
0:44:12.505229	LOG	PUSH_ACK: 02 05ee 01
0:44:12.508228	LOG	PUSH_DATA: Protocol version = 02, Token = 05ee, Identifier = 00, JSON = {'rxpk': [{'tmst': 116404407, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAZQMBDf1LjJgI'}]}
0:44:12.510227	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0365, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 4b8c9808)
0:44:12.511226	LOG	Server <---------- DUT
0:44:12.513225	LOG	Count = 20
0:44:15.064396	LOG	PULL_DATA: 02 7717 02 aa555a0000240409
0:44:15.066394	LOG	PULL_ACK: 02 7717 04
0:44:17.546012	LOG	PUSH_ACK: 02 05ef 01
0:44:17.549010	LOG	PUSH_DATA: Protocol version = 02, Token = 05ef, Identifier = 00, JSON = {'rxpk': [{'tmst': 121406997, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAZgMBJb5KvkNn'}]}
0:44:17.551009	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0366, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 4abe4367)
0:44:17.552009	LOG	Server <---------- DUT
0:44:17.554006	LOG	Count = 21
0:44:22.534209	LOG	PUSH_ACK: 02 05f0 01
0:44:22.536208	LOG	PUSH_DATA: Protocol version = 02, Token = 05f0, Identifier = 00, JSON = {'rxpk': [{'tmst': 126409592, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAZwMBwo/+KXWT'}]}
0:44:22.538208	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0367, FOpts:), FPort: 01, FRMPayload: 0037, MIC: fe297593)
0:44:22.539207	LOG	Server <---------- DUT
0:44:22.540206	LOG	Count = 22
0:44:25.144464	LOG	PULL_DATA: 02 7401 02 aa555a0000240409
0:44:25.148463	LOG	PULL_ACK: 02 7401 04
0:44:27.522137	LOG	PUSH_ACK: 02 05f1 01

0:44:27.524136	LOG	PUSH_DATA: Protocol version = 02, Token = 05f1, Identifier = 00, JSON = {'rxpk': [{'tmst': 131412181, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAaAMBMxHd7PSW'}]}
0:44:27.525137	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0368, FOpts:), FPort: 01, FRMPayload: 0037, MIC: ddecf496)
0:44:27.527136	LOG	Server <---------- DUT
0:44:27.529135	LOG	Count = 23
0:44:32.510991	LOG	PUSH_ACK: 02 05f2 01
0:44:32.512991	LOG	PUSH_DATA: Protocol version = 02, Token = 05f2, Identifier = 00, JSON = {'rxpk': [{'tmst': 136414776, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAaQMBiOsUGMZ9'}]}
0:44:32.513990	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0369, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 1418c67d)
0:44:32.515990	LOG	Server <---------- DUT
0:44:32.517008	LOG	Count = 24
0:44:35.223927	LOG	PULL_DATA: 02 6a65 02 aa555a0000240409
0:44:35.225926	LOG	PULL_ACK: 02 6a65 04
0:44:37.549896	LOG	PUSH_ACK: 02 05f3 01
0:44:37.551895	LOG	PUSH_DATA: Protocol version = 02, Token = 05f3, Identifier = 00, JSON = {'rxpk': [{'tmst': 141417367, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAagMBl2DiO2oS'}]}
0:44:37.553894	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 036a, FOpts:), FPort: 01, FRMPayload: 0037, MIC: e23b6a12)
0:44:37.555893	LOG	Server <---------- DUT
0:44:37.556892	LOG	Count = 25
0:44:42.548119	LOG	PUSH_ACK: 02 05f5 01
0:44:42.550118	LOG	PUSH_DATA: Protocol version = 02, Token = 05f5, Identifier = 00, JSON = {'rxpk': [{'tmst': 146419962, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAawMBioNq6+Yg'}]}
0:44:42.552116	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 036b, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 6aebe620)
0:44:42.554116	LOG	Server <---------- DUT
0:44:42.556114	LOG	Count = 26
0:44:45.303772	LOG	PULL_DATA: 02 8537 02 aa555a0000240409
0:44:45.305770	LOG	PULL_ACK: 02 8537 04
0:44:47.536613	LOG	PUSH_ACK: 02 05f6 01
0:44:47.539612	LOG	PUSH_DATA: Protocol version = 02, Token = 05f6, Identifier = 00, JSON = {'rxpk': [{'tmst': 151422551, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAbAMBoxTsACkM'}]}
0:44:47.541610	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 036c, FOpts:), FPort: 01, FRMPayload: 0037, MIC: ec00290c)
0:44:47.542610	LOG	Server <---------- DUT
0:44:47.544609	LOG	Count = 27
0:44:52.525777	LOG	PUSH_ACK: 02 05f7 01
0:44:52.527776	LOG	PUSH_DATA: Protocol version = 02, Token = 05f7, Identifier = 00, JSON = {'rxpk': [{'tmst': 156425152, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAbQMBAoZl6Vxd'}]}
0:44:52.529775	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 036d, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 65e95c5d)
0:44:52.531774	LOG	Server <---------- DUT
0:44:52.533773	LOG	Count = 28
0:44:55.383934	LOG	PULL_DATA: 02 d6b8 02 aa555a0000240409
0:44:55.388932	LOG	PULL_ACK: 02 d6b8 04
0:44:57.565719	LOG	PUSH_ACK: 02 05f8 01

0:44:57.567717	LOG	PUSH_DATA: Protocol version = 02, Token = 05f8, Identifier = 00, JSON = {'rxpk': [{'tmst': 161427756, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAbgMBsZwPD3SY'}]}
0:44:57.569716	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 036e, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 0f0f7498)
0:44:57.570715	LOG	Server <---------- DUT
0:44:57.572715	LOG	Count = 29
0:45:02.553650	LOG	PUSH_ACK: 02 05f9 01
0:45:02.555650	LOG	PUSH_DATA: Protocol version = 02, Token = 05f9, Identifier = 00, JSON = {'rxpk': [{'tmst': 166430362, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAbwMBvAMGVPMO'}]}
0:45:02.557648	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 036f, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 0654f30e)
0:45:02.558648	LOG	Server <---------- DUT
0:45:02.559647	LOG	Count = 30
0:45:05.464909	LOG	PULL_DATA: 02 51a2 02 aa555a0000240409
0:45:05.467908	LOG	PULL_ACK: 02 51a2 04
0:45:07.541837	LOG	PUSH_ACK: 02 05fa 01
0:45:07.543837	LOG	PUSH_DATA: Protocol version = 02, Token = 05fa, Identifier = 00, JSON = {'rxpk': [{'tmst': 171432952, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAcAMBA9egD6OL'}]}
0:45:07.547836	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0370, FOpts:), FPort: 01, FRMPayload: 0037, MIC: a00fa38b)
0:45:07.550833	LOG	Server <---------- DUT
0:45:07.551832	LOG	Count = 31
0:45:12.545925	LOG	PUSH_ACK: 02 05fc 01
0:45:12.549923	LOG	PUSH_DATA: Protocol version = 02, Token = 05fc, Identifier = 00, JSON = {'rxpk': [{'tmst': 176435551, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAcQMBzbSrjIeH'}]}
0:45:12.551922	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0371, FOpts:), FPort: 01, FRMPayload: 0037, MIC: ab8c8787)
0:45:12.552921	LOG	Server <---------- DUT
0:45:12.554920	LOG	Count = 32
0:45:15.544538	LOG	PULL_DATA: 02 bb7e 02 aa555a0000240409
0:45:15.546534	LOG	PULL_ACK: 02 bb7e 04
0:45:17.535484	LOG	PUSH_ACK: 02 05fd 01
0:45:17.536483	LOG	PUSH_DATA: Protocol version = 02, Token = 05fd, Identifier = 00, JSON = {'rxpk': [{'tmst': 181438163, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAcgMBjpWqDGg0'}]}
0:45:17.538483	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0372, FOpts:), FPort: 01, FRMPayload: 0037, MIC: aa0c6834)
0:45:17.539482	LOG	Server <---------- DUT
0:45:17.540482	LOG	Count = 33
0:45:22.574466	LOG	PUSH_ACK: 02 05fe 01
0:45:22.576469	LOG	PUSH_DATA: Protocol version = 02, Token = 05fe, Identifier = 00, JSON = {'rxpk': [{'tmst': 186440757, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAcwMBQrdUcQHf'}]}
0:45:22.578464	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0373, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 547101df)
0:45:22.579463	LOG	Server <---------- DUT
0:45:22.580464	LOG	Count = 34
0:45:25.624082	LOG	PULL_DATA: 02 002b 02 aa555a0000240409
0:45:25.628082	LOG	PULL_ACK: 02 002b 04
0:45:27.563397	LOG	PUSH_ACK: 02 05ff 01

0:45:27.565396	LOG	PUSH_DATA: Protocol version = 02, Token = 05ff, Identifier = 00, JSON = {'rxpk': [{'tmst': 191443362, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAdAMB66L/T/JN'}]}
0:45:27.567395	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0374, FOpts:), FPort: 01, FRMPayload: 0037, MIC: ff4ff24d)
0:45:27.569394	LOG	Server <---------- DUT
0:45:27.570393	LOG	Count = 35
0:45:32.551570	LOG	PUSH_ACK: 02 0600 01
0:45:32.553568	LOG	PUSH_DATA: Protocol version = 02, Token = 0600, Identifier = 00, JSON = {'rxpk': [{'tmst': 196445959, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAdQMBAHVYeTM4'}]}
0:45:32.554569	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0375, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 58793338)
0:45:32.555568	LOG	Server <---------- DUT
0:45:32.556566	LOG	Count = 36
0:45:35.704184	LOG	PULL_DATA: 02 95fc 02 aa555a0000240409
0:45:35.706181	LOG	PULL_ACK: 02 95fc 04
0:45:37.592239	LOG	PUSH_ACK: 02 0602 01
0:45:37.594238	LOG	PUSH_DATA: Protocol version = 02, Token = 0602, Identifier = 00, JSON = {'rxpk': [{'tmst': 201448564, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAdgMBz1E1/HAo'}]}
0:45:37.595236	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0376, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 35fc7028)
0:45:37.596236	LOG	Server <---------- DUT
0:45:37.597237	LOG	Count = 37
0:45:42.545830	LOG	PUSH_ACK: 02 0604 01
0:45:42.547828	LOG	PUSH_DATA: Protocol version = 02, Token = 0604, Identifier = 00, JSON = {'rxpk': [{'tmst': 206451168, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAdwMBlpL5S2oR'}]}
0:45:42.549828	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0377, FOpts:), FPort: 01, FRMPayload: 0037, MIC: f94b6a11)
0:45:42.550827	LOG	Server <---------- DUT
0:45:42.552828	LOG	Count = 38
0:45:45.784025	LOG	PULL_DATA: 02 bb68 02 aa555a0000240409
0:45:45.786024	LOG	PULL_ACK: 02 bb68 04
0:45:47.585021	LOG	PUSH_ACK: 02 0605 01
0:45:47.588019	LOG	PUSH_DATA: Protocol version = 02, Token = 0605, Identifier = 00, JSON = {'rxpk': [{'tmst': 211453757, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAeAMBwsiYYKAG'}]}
0:45:47.590018	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0378, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 9860a006)
0:45:47.591017	LOG	Server <---------- DUT
0:45:47.593016	LOG	Count = 39
0:45:52.573840	LOG	PUSH_ACK: 02 0606 01
0:45:52.576839	LOG	PUSH_DATA: Protocol version = 02, Token = 0606, Identifier = 00, JSON = {'rxpk': [{'tmst': 216456353, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAeQMBBJMyPCD4'}]}
0:45:52.577838	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0379, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 323c20f8)
0:45:52.579837	LOG	Server <---------- DUT
0:45:52.581836	LOG	Count = 40
0:45:55.864408	LOG	PULL_DATA: 02 4b5f 02 aa555a0000240409
0:45:55.870405	LOG	PULL_ACK: 02 4b5f 04
0:45:57.563460	LOG	PUSH_ACK: 02 0607 01

0:45:57.568457	LOG	PUSH_DATA: Protocol version = 02, Token = 0607, Identifier = 00, JSON = {'rxpk': [{'tmst': 221458960, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAegMBIWO2dAyT'}]}
0:45:57.572455	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 037a, FOpts:), FPort: 01, FRMPayload: 0037, MIC: b6740c93)
0:45:57.576453	LOG	Server <---------- DUT
0:45:57.579452	LOG	Count = 41
0:46:02.605511	LOG	PUSH_ACK: 02 0608 01
0:46:02.606511	LOG	PUSH_DATA: Protocol version = 02, Token = 0608, Identifier = 00, JSON = {'rxpk': [{'tmst': 226461559, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAewMBmXKOyeCr'}]}
0:46:02.608510	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 037b, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 8ec9e0ab)
0:46:02.609510	LOG	Server <---------- DUT
0:46:02.610509	LOG	Count = 42
0:46:05.944750	LOG	PULL_DATA: 02 56c4 02 aa555a0000240409
0:46:05.946749	LOG	PULL_ACK: 02 56c4 04
0:46:07.592832	LOG	PUSH_ACK: 02 0609 01
0:46:07.593832	LOG	PUSH_DATA: Protocol version = 02, Token = 0609, Identifier = 00, JSON = {'rxpk': [{'tmst': 231464159, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAfAMBkV2fVqKb'}]}
0:46:07.595829	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 037c, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 9f56a29b)
0:46:07.596828	LOG	Server <---------- DUT
0:46:07.598827	LOG	Count = 43
0:46:12.600425	LOG	PUSH_ACK: 02 060c 01
0:46:12.602425	LOG	PUSH_DATA: Protocol version = 02, Token = 060c, Identifier = 00, JSON = {'rxpk': [{'tmst': 236466755, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAfQMBRAihNtV5'}]}
0:46:12.603424	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 037d, FOpts:), FPort: 01, FRMPayload: 0037, MIC: a136d579)
0:46:12.604424	LOG	Server <---------- DUT
0:46:12.606421	LOG	Count = 44
0:46:16.024612	LOG	PULL_DATA: 02 f7bb 02 aa555a0000240409
0:46:16.026611	LOG	PULL_ACK: 02 f7bb 04
0:46:17.588740	LOG	PUSH_ACK: 02 060d 01
0:46:17.590738	LOG	PUSH_DATA: Protocol version = 02, Token = 060d, Identifier = 00, JSON = {'rxpk': [{'tmst': 241469361, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAfgMBoUEZS+5s'}]}
0:46:17.592738	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 037e, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 194bee6c)
0:46:17.593737	LOG	Server <---------- DUT
0:46:17.595736	LOG	Count = 45
0:46:22.577040	LOG	PUSH_ACK: 02 060e 01
0:46:22.579040	LOG	PUSH_DATA: Protocol version = 02, Token = 060e, Identifier = 00, JSON = {'rxpk': [{'tmst': 246471944, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAfwMB8LQ4rfGn'}]}
0:46:22.580037	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 037f, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 38adf1a7)
0:46:22.582037	LOG	Server <---------- DUT
0:46:22.583036	LOG	Count = 46
0:46:26.104586	LOG	PULL_DATA: 02 1933 02 aa555a0000240409
0:46:26.109583	LOG	PULL_ACK: 02 1933 04
0:46:27.616743	LOG	PUSH_ACK: 02 060f 01

0:46:27.618742	LOG	PUSH_DATA: Protocol version = 02, Token = 060f, Identifier = 00, JSON = {'rxpk': [{'tmst': 251474549, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAgAMBU0nTftZH'}]}
0:46:27.619741	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0380, FOpts:), FPort: 01, FRMPayload: 0037, MIC: d37ed647)
0:46:27.621740	LOG	Server <---------- DUT
0:46:27.622741	LOG	Count = 47
0:46:32.605170	LOG	PUSH_ACK: 02 0610 01
0:46:32.608168	LOG	PUSH_DATA: Protocol version = 02, Token = 0610, Identifier = 00, JSON = {'rxpk': [{'tmst': 256477143, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAgQMBQdmnYTte'}]}
0:46:32.610167	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0381, FOpts:), FPort: 01, FRMPayload: 0037, MIC: a7613b5e)
0:46:32.611167	LOG	Server <---------- DUT
0:46:32.613165	LOG	Count = 48
0:46:36.184327	LOG	PULL_DATA: 02 40a6 02 aa555a0000240409
0:46:36.186326	LOG	PULL_ACK: 02 40a6 04
0:46:37.593605	LOG	PUSH_ACK: 02 0611 01
0:46:37.595603	LOG	PUSH_DATA: Protocol version = 02, Token = 0611, Identifier = 00, JSON = {'rxpk': [{'tmst': 261479744, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAggMBkJ9Swq05'}]}
0:46:37.596603	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0382, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 52c2ad39)
0:46:37.597603	LOG	Server <---------- DUT
0:46:37.599600	LOG	Count = 49
0:46:42.598104	LOG	PUSH_ACK: 02 0613 01
0:46:42.600104	LOG	PUSH_DATA: Protocol version = 02, Token = 0613, Identifier = 00, JSON = {'rxpk': [{'tmst': 266482339, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAgwMByLqxt/vd'}]}
0:46:42.602104	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0383, FOpts:), FPort: 01, FRMPayload: 0037, MIC: b1b7fbdd)
0:46:42.603102	LOG	Server <---------- DUT
0:46:42.605101	LOG	Count = 50
0:46:46.264807	LOG	PULL_DATA: 02 78b7 02 aa555a0000240409
0:46:46.266806	LOG	PULL_ACK: 02 78b7 04
0:46:47.587070	LOG	PUSH_ACK: 02 0614 01
0:46:47.590068	LOG	PUSH_DATA: Protocol version = 02, Token = 0614, Identifier = 00, JSON = {'rxpk': [{'tmst': 271484951, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAhAMBD6B5OjFa'}]}
0:46:47.591068	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0384, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 793a315a)
0:46:47.593067	LOG	Server <---------- DUT
0:46:47.594066	LOG	Count = 51
0:46:52.627258	LOG	PUSH_ACK: 02 0615 01
0:46:52.629257	LOG	PUSH_DATA: Protocol version = 02, Token = 0615, Identifier = 00, JSON = {'rxpk': [{'tmst': 276487557, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAhQMB5gdvAIX3'}]}
0:46:52.630256	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0385, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 6f0085f7)
0:46:52.632255	LOG	Server <---------- DUT
0:46:52.633256	LOG	Count = 52
0:46:56.344668	LOG	PULL_DATA: 02 beec 02 aa555a0000240409
0:46:56.349665	LOG	PULL_ACK: 02 beec 04
0:46:57.615958	LOG	PUSH_ACK: 02 0616 01

0:46:57.618958	LOG	PUSH_DATA: Protocol version = 02, Token = 0616, Identifier = 00, JSON = {'rxpk': [{'tmst': 281490157, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAhgMBEkQpMqJZ'}]}
0:46:57.620956	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0386, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 2932a259)
0:46:57.621955	LOG	Server <---------- DUT
0:46:57.623954	LOG	Count = 53
0:47:02.604394	LOG	PUSH_ACK: 02 0617 01
0:47:02.607392	LOG	PUSH_DATA: Protocol version = 02, Token = 0617, Identifier = 00, JSON = {'rxpk': [{'tmst': 286492757, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAhwMBbdwVuAox'}]}
0:47:02.609392	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0387, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 15b80a31)
0:47:02.610391	LOG	Server <---------- DUT
0:47:02.612389	LOG	Count = 54
0:47:06.425056	LOG	PULL_DATA: 02 b828 02 aa555a0000240409
0:47:06.427055	LOG	PULL_ACK: 02 b828 04
0:47:07.593404	LOG	PUSH_ACK: 02 0618 01
0:47:07.595403	LOG	PUSH_DATA: Protocol version = 02, Token = 0618, Identifier = 00, JSON = {'rxpk': [{'tmst': 291495369, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAiAMBgDkwnkcC'}]}
0:47:07.597402	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0388, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 309e4702)
0:47:07.599401	LOG	Server <---------- DUT
0:47:07.600400	LOG	Count = 55
0:47:12.599079	LOG	PUSH_ACK: 02 061a 01
0:47:12.602078	LOG	PUSH_DATA: Protocol version = 02, Token = 061a, Identifier = 00, JSON = {'rxpk': [{'tmst': 296497964, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAiQMB5+C+X4c7'}]}
0:47:12.603077	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0389, FOpts:), FPort: 01, FRMPayload: 0037, MIC: be5f873b)
0:47:12.605076	LOG	Server <---------- DUT
0:47:12.607075	LOG	Count = 56
0:47:16.504787	LOG	PULL_DATA: 02 513d 02 aa555a0000240409
0:47:16.506785	LOG	PULL_ACK: 02 513d 04
0:47:17.639154	LOG	PUSH_ACK: 02 061b 01
0:47:17.641152	LOG	PUSH_DATA: Protocol version = 02, Token = 061b, Identifier = 00, JSON = {'rxpk': [{'tmst': 301500569, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAigMBQwfB+mY4'}]}
0:47:17.642153	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 038a, FOpts:), FPort: 01, FRMPayload: 0037, MIC: c1fa6638)
0:47:17.644152	LOG	Server <---------- DUT
0:47:17.645150	LOG	Count = 57
0:47:22.629856	LOG	PUSH_ACK: 02 061d 01
0:47:22.631855	LOG	PUSH_DATA: Protocol version = 02, Token = 061d, Identifier = 00, JSON = {'rxpk': [{'tmst': 306503172, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAiwMBcBZKcEtN'}]}
0:47:22.632854	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 038b, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 4a704b4d)
0:47:22.633854	LOG	Server <---------- DUT
0:47:22.635853	LOG	Count = 58
0:47:26.585433	LOG	PULL_DATA: 02 5f27 02 aa555a0000240409
0:47:26.589431	LOG	PULL_ACK: 02 5f27 04
0:47:27.617857	LOG	PUSH_ACK: 02 061e 01

0:47:27.619856	LOG	PUSH_DATA: Protocol version = 02, Token = 061e, Identifier = 00, JSON = {'rxpk': [{'tmst': 311505767, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAjAMBfZIF73eN'}]}
0:47:27.621856	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 038c, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 05ef778d)
0:47:27.622855	LOG	Server <---------- DUT
0:47:27.624855	LOG	Count = 59
0:47:32.605518	LOG	PUSH_ACK: 02 061f 01
0:47:32.607517	LOG	PUSH_DATA: Protocol version = 02, Token = 061f, Identifier = 00, JSON = {'rxpk': [{'tmst': 316508359, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAjQMBoVx5E+IU'}]}
0:47:32.609516	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 038d, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 7913e214)
0:47:32.610516	LOG	Server <---------- DUT
0:47:32.611515	LOG	Count = 60
0:47:36.665359	LOG	PULL_DATA: 02 f6b1 02 aa555a0000240409
0:47:36.667358	LOG	PULL_ACK: 02 f6b1 04
0:47:37.645812	LOG	PUSH_ACK: 02 0620 01
0:47:37.648811	LOG	PUSH_DATA: Protocol version = 02, Token = 0620, Identifier = 00, JSON = {'rxpk': [{'tmst': 321510965, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAjgMBMOzcJSd0'}]}
0:47:37.650810	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 038e, FOpts:), FPort: 01, FRMPayload: 0037, MIC: dc252774)
0:47:37.651809	LOG	Server <---------- DUT
0:47:37.653807	LOG	Count = 61
0:47:42.649939	LOG	PUSH_ACK: 02 0622 01
0:47:42.652938	LOG	PUSH_DATA: Protocol version = 02, Token = 0622, Identifier = 00, JSON = {'rxpk': [{'tmst': 326513567, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAjwMBDS2kIxhl'}]}
0:47:42.654937	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 038f, FOpts:), FPort: 01, FRMPayload: 0037, MIC: a4231865)
0:47:42.655937	LOG	Server <---------- DUT
0:47:42.657935	LOG	Count = 62
0:47:46.744846	LOG	PULL_DATA: 02 c9b1 02 aa555a0000240409
0:47:46.746845	LOG	PULL_ACK: 02 c9b1 04
0:47:47.638853	LOG	PUSH_ACK: 02 0623 01
0:47:47.640851	LOG	PUSH_DATA: Protocol version = 02, Token = 0623, Identifier = 00, JSON = {'rxpk': [{'tmst': 331516167, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAkAMBYA6yTOG+'}]}
0:47:47.641851	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0390, FOpts:), FPort: 01, FRMPayload: 0037, MIC: b24ce1be)
0:47:47.642850	LOG	Server <---------- DUT
0:47:47.644849	LOG	Count = 63
0:47:52.626628	LOG	PUSH_ACK: 02 0624 01
0:47:52.628627	LOG	PUSH_DATA: Protocol version = 02, Token = 0624, Identifier = 00, JSON = {'rxpk': [{'tmst': 336518775, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAkQMBjOwoGoKh'}]}
0:47:52.630625	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0391, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 281a82a1)
0:47:52.631625	LOG	Server <---------- DUT
0:47:52.633624	LOG	Count = 64
0:47:56.824555	LOG	PULL_DATA: 02 2fc9 02 aa555a0000240409
0:47:56.828552	LOG	PULL_ACK: 02 2fc9 04
0:47:57.666084	LOG	PUSH_ACK: 02 0625 01

0:47:57.669083	LOG	PUSH_DATA: Protocol version = 02, Token = 0625, Identifier = 00, JSON = {'rxpk': [{'tmst': 341521384, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAkgMBZ6l/md02'}]}
0:47:57.670082	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0392, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 7f99dd36)
0:47:57.672081	LOG	Server <---------- DUT
0:47:57.674081	LOG	Count = 65
0:48:02.654937	LOG	PUSH_ACK: 02 0626 01
0:48:02.656936	LOG	PUSH_DATA: Protocol version = 02, Token = 0626, Identifier = 00, JSON = {'rxpk': [{'tmst': 346543437, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -50, 'size': 15, 'data': 'QCAgICDAkwMBSBdKePR2'}]}
0:48:02.657935	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0393, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 4a78f476)
0:48:02.659934	LOG	Server <---------- DUT
0:48:02.660933	LOG	Count = 66
0:48:02.677924	LOG	Expected number of uplink messages have been received
0:48:02.684920	LOG	Test adaptive data rate control in frame header process starts
0:48:06.904818	LOG	PULL_DATA: 02 dcc4 02 aa555a0000240409
0:48:06.906817	LOG	PULL_ACK: 02 dcc4 04
0:48:07.643406	LOG	PUSH_ACK: 02 0627 01
0:48:07.646405	LOG	PUSH_DATA: Protocol version = 02, Token = 0627, Identifier = 00, JSON = {'rxpk': [{'tmst': 351546049, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -51, 'size': 15, 'data': 'QCAgICDAlAMBlFXbICdg'}]}
0:48:07.648403	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0394, FOpts:), FPort: 01, FRMPayload: 0037, MIC: db202760)
0:48:07.649403	LOG	Server <---------- DUT
0:48:07.651402	LOG	Count = 2
0:48:12.651249	LOG	PUSH_ACK: 02 0629 01
0:48:12.653248	LOG	PUSH_DATA: Protocol version = 02, Token = 0629, Identifier = 00, JSON = {'rxpk': [{'tmst': 356548649, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -50, 'size': 15, 'data': 'QCAgICDAlQMBYmZG45EE'}]}
0:48:12.655247	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0395, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 46e39104)
0:48:12.656246	LOG	Server <---------- DUT
0:48:12.658245	LOG	Count = 3
0:48:16.984976	LOG	PULL_DATA: 02 c698 02 aa555a0000240409
0:48:16.986975	LOG	PULL_ACK: 02 c698 04
0:48:17.692584	LOG	PUSH_ACK: 02 062a 01
0:48:17.693581	LOG	PUSH_DATA: Protocol version = 02, Token = 062a, Identifier = 00, JSON = {'rxpk': [{'tmst': 361551253, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -50, 'size': 15, 'data': 'QCAgICDAlgMBWbRNHW8t'}]}
0:48:17.695581	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0396, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 4d1d6f2d)
0:48:17.696582	LOG	Server <---------- DUT
0:48:17.697581	LOG	Count = 4
0:48:22.681544	LOG	PUSH_ACK: 02 062b 01
0:48:22.682529	LOG	PUSH_DATA: Protocol version = 02, Token = 062b, Identifier = 00, JSON = {'rxpk': [{'tmst': 366553837, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -50, 'size': 15, 'data': 'QCAgICDAlwMB8Z0hTiUb'}]}
0:48:22.685529	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0397, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 214e251b)

0:48:22.686529	LOG	Server <---------- DUT
0:48:22.688527	LOG	Count = 5
0:48:27.064890	LOG	PULL_DATA: 02 2c11 02 aa555a0000240409
0:48:27.068889	LOG	PULL_ACK: 02 2c11 04
0:48:27.669302	LOG	PUSH_ACK: 02 062c 01
0:48:27.672301	LOG	PUSH_DATA: Protocol version = 02, Token = 062c, Identifier = 00, JSON = {'rxpk': [{'tmst': 371556425, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -50, 'size': 15, 'data': 'QCAgICDAmAMBr6fSs7bZ'}]}
0:48:27.673299	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0398, FOpts:), FPort: 01, FRMPayload: 0037, MIC: d2b3b6d9)
0:48:27.675297	LOG	Server <---------- DUT
0:48:27.677296	LOG	Count = 6
0:48:32.659491	LOG	PUSH_ACK: 02 062d 01
0:48:32.661491	LOG	PUSH_DATA: Protocol version = 02, Token = 062d, Identifier = 00, JSON = {'rxpk': [{'tmst': 376559029, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -50, 'size': 15, 'data': 'QCAgICDAmQMBVbXHbeH8'}]}
0:48:32.663488	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0399, FOpts:), FPort: 01, FRMPayload: 0037, MIC: c76de1fc)
0:48:32.665487	LOG	Server <---------- DUT
0:48:32.666516	LOG	Count = 7
0:48:37.145974	LOG	PULL_DATA: 02 f783 02 aa555a0000240409
0:48:37.149972	LOG	PULL_ACK: 02 f783 04
0:48:37.701067	LOG	PUSH_ACK: 02 062e 01
0:48:37.703066	LOG	PUSH_DATA: Protocol version = 02, Token = 062e, Identifier = 00, JSON = {'rxpk': [{'tmst': 381561625, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -50, 'size': 15, 'data': 'QCAgICDAmgMB8wWgDYoE'}]}
0:48:37.705064	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 039a, FOpts:), FPort: 01, FRMPayload: 0037, MIC: a00d8a04)
0:48:37.706064	LOG	Server <---------- DUT
0:48:37.708064	LOG	Count = 8
0:48:42.702648	LOG	PUSH_ACK: 02 0630 01
0:48:42.704647	LOG	PUSH_DATA: Protocol version = 02, Token = 0630, Identifier = 00, JSON = {'rxpk': [{'tmst': 386564217, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -51, 'size': 15, 'data': 'QCAgICDAmwMBv3buCihQ'}]}
0:48:42.705647	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 039b, FOpts:), FPort: 01, FRMPayload: 0037, MIC: ee0a2850)
0:48:42.707646	LOG	Server <---------- DUT
0:48:42.708645	LOG	Count = 9
0:48:47.225650	LOG	PULL_DATA: 02 d6ee 02 aa555a0000240409
0:48:47.227650	LOG	PULL_ACK: 02 d6ee 04
0:48:47.691079	LOG	PUSH_ACK: 02 0631 01
0:48:47.693076	LOG	PUSH_DATA: Protocol version = 02, Token = 0631, Identifier = 00, JSON = {'rxpk': [{'tmst': 391566809, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -51, 'size': 15, 'data': 'QCAgICDAnAMBacSVUELP'}]}
0:48:47.695075	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 039c, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 955042cf)
0:48:47.697074	LOG	Server <---------- DUT
0:48:47.698076	LOG	Count = 10
0:48:52.679578	LOG	PUSH_ACK: 02 0632 01
0:48:52.681578	LOG	PUSH_DATA: Protocol version = 02, Token = 0632, Identifier = 00, JSON = {'rxpk': [{'tmst': 396569401, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -50, 'size': 15, 'data': 'QCAgICDAnQMBqux907e9'}]}
0:48:52.683576	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 039d, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 7dd3b7bd)
0:48:52.685576	LOG	Server <---------- DUT
0:48:52.686575	LOG	Count = 11
0:48:57.305462	LOG	PULL_DATA: 02 3eef 02 aa555a0000240409
0:48:57.310461	LOG	PULL_ACK: 02 3eef 04
0:48:57.719233	LOG	PUSH_ACK: 02 0633 01
0:48:57.721232	LOG	PUSH_DATA: Protocol version = 02, Token = 0633, Identifier = 00, JSON = {'rxpk': [{'tmst': 401571997, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -50, 'size': 15, 'data': 'QCAgICDAngMBBG3RO4ES'}]}
0:48:57.722230	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 039e, FOpts:), FPort: 01, FRMPayload: 0037, MIC: d13b8112)
0:48:57.723231	LOG	Server <---------- DUT
0:48:57.724231	LOG	Count = 12
0:49:02.707625	LOG	PUSH_ACK: 02 0634 01
0:49:02.709624	LOG	PUSH_DATA: Protocol version = 02, Token = 0634, Identifier = 00, JSON = {'rxpk': [{'tmst': 406574593, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -50, 'size': 15, 'data': 'QCAgICDAnwMB8SV+ywv4'}]}
0:49:02.711623	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 039f, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 7ecb0bf8)
0:49:02.712622	LOG	Server <---------- DUT
0:49:02.713622	LOG	Count = 13
0:49:07.385219	LOG	PULL_DATA: 02 217e 02 aa555a0000240409
0:49:07.387219	LOG	PULL_ACK: 02 217e 04
0:49:07.695255	LOG	PUSH_ACK: 02 0635 01
0:49:07.697254	LOG	PUSH_DATA: Protocol version = 02, Token = 0635, Identifier = 00, JSON = {'rxpk': [{'tmst': 411577189, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -50, 'size': 15, 'data': 'QCAgICDAoAMBT8GxL2DW'}]}
0:49:07.698253	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 03a0, FOpts:), FPort: 01, FRMPayload: 0037, MIC: b12f60d6)
0:49:07.700252	LOG	Server <---------- DUT
0:49:07.701251	LOG	Count = 14
0:49:12.692535	LOG	PUSH_ACK: 02 0637 01
0:49:12.695534	LOG	PUSH_DATA: Protocol version = 02, Token = 0637, Identifier = 00, JSON = {'rxpk': [{'tmst': 416579785, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -50, 'size': 15, 'data': 'QCAgICDAoQMBjNVKi/sk'}]}
0:49:12.697532	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 03a1, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 4a8bfb24)
0:49:12.698531	LOG	Server <---------- DUT
0:49:12.700531	LOG	Count = 15
0:49:17.465074	LOG	PULL_DATA: 02 9599 02 aa555a0000240409
0:49:17.467074	LOG	PULL_ACK: 02 9599 04
0:49:17.681959	LOG	PUSH_ACK: 02 0638 01
0:49:17.686952	LOG	PUSH_DATA: Protocol version = 02, Token = 0638, Identifier = 00, JSON = {'rxpk': [{'tmst': 421582385, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -50, 'size': 15, 'data': 'QCAgICDAogMBQi+cnOCW'}]}
0:49:17.690951	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 03a2, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 9c9ce096)
0:49:17.694948	LOG	Server <---------- DUT

0:49:17.697950	LOG	Count = 16
0:49:22.724141	LOG	PUSH_ACK: 02 0639 01
0:49:22.725140	LOG	PUSH_DATA: Protocol version = 02, Token = 0639, Identifier = 00, JSON = {'rxpk': [{'tmst': 426584973, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -50, 'size': 15, 'data': 'QCAgICDAowMBMhBTSf/V'}]}
0:49:22.727139	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 03a3, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 5349ffd5)
0:49:22.728138	LOG	Server <---------- DUT
0:49:22.729138	LOG	Count = 17
0:49:27.545776	LOG	PULL_DATA: 02 3653 02 aa555a0000240409
0:49:27.550774	LOG	PULL_ACK: 02 3653 04
0:49:27.711373	LOG	PUSH_ACK: 02 063a 01
0:49:27.713372	LOG	PUSH_DATA: Protocol version = 02, Token = 063a, Identifier = 00, JSON = {'rxpk': [{'tmst': 431587573, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -50, 'size': 15, 'data': 'QCAgICDApAMBu+f+MM0s'}]}
0:49:27.714371	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 03a4, FOpts:), FPort: 01, FRMPayload: 0037, MIC: fe30cd2c)
0:49:27.715371	LOG	Server <---------- DUT
0:49:27.717369	LOG	Count = 18
0:49:32.699387	LOG	PUSH_ACK: 02 063b 01
0:49:32.701387	LOG	PUSH_DATA: Protocol version = 02, Token = 063b, Identifier = 00, JSON = {'rxpk': [{'tmst': 436590165, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -50, 'size': 15, 'data': 'QCAgICDApQMBazr9oe2t'}]}
0:49:32.703384	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 03a5, FOpts:), FPort: 01, FRMPayload: 0037, MIC: fda1edad)
0:49:32.704382	LOG	Server <---------- DUT
0:49:32.706382	LOG	Count = 19
0:49:37.625582	LOG	PULL_DATA: 02 85ee 02 aa555a0000240409
0:49:37.627581	LOG	PULL_ACK: 02 85ee 04
0:49:37.738520	LOG	PUSH_ACK: 02 063c 01
0:49:37.740518	LOG	PUSH_DATA: Protocol version = 02, Token = 063c, Identifier = 00, JSON = {'rxpk': [{'tmst': 441592741, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -50, 'size': 15, 'data': 'QCAgICDApgMBHv6tUMg+'}]}
0:49:37.742517	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 03a6, FOpts:), FPort: 01, FRMPayload: 0037, MIC: ad50c83e)
0:49:37.743518	LOG	Server <---------- DUT
0:49:37.745515	LOG	Count = 20
0:49:42.691777	LOG	PUSH_ACK: 02 063e 01
0:49:42.693776	LOG	PUSH_DATA: Protocol version = 02, Token = 063e, Identifier = 00, JSON = {'rxpk': [{'tmst': 446595345, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -51, 'size': 15, 'data': 'QCAgICDApwMBLLqkH/Td'}]}
0:49:42.694777	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 03a7, FOpts:), FPort: 01, FRMPayload: 0037, MIC: a41ff4dd)
0:49:42.696775	LOG	Server <---------- DUT
0:49:42.697775	LOG	Count = 21
0:49:47.706112	LOG	PULL_DATA: 02 7bd6 02 aa555a0000240409
0:49:47.707112	LOG	PULL_ACK: 02 7bd6 04
0:49:47.731098	LOG	PUSH_ACK: 02 063f 01
0:49:47.733097	LOG	PUSH_DATA: Protocol version = 02, Token = 063f, Identifier = 00, JSON = {'rxpk': [{'tmst': 451597941, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -51, 'size': 15, 'data': 'QCAgICDAqAMBFQsSsk/G'}]}
0:49:47.734099	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 03a8, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 12b24fc6)
0:49:47.736096	LOG	Server <---------- DUT
0:49:47.737096	LOG	Count = 22
0:49:52.720085	LOG	PUSH_ACK: 02 0640 01
0:49:52.721082	LOG	PUSH_DATA: Protocol version = 02, Token = 0640, Identifier = 00, JSON = {'rxpk': [{'tmst': 456600537, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -50, 'size': 15, 'data': 'QCAgICDAqQMBeL2kvagd'}]}
0:49:52.723081	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 03a9, FOpts:), FPort: 01, FRMPayload: 0037, MIC: a4bda81d)
0:49:52.724081	LOG	Server <---------- DUT
0:49:52.726080	LOG	Count = 23
0:49:57.708364	LOG	PUSH_ACK: 02 0641 01
0:49:57.713361	LOG	PUSH_DATA: Protocol version = 02, Token = 0641, Identifier = 00, JSON = {'rxpk': [{'tmst': 461603149, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -51, 'size': 15, 'data': 'QCAgICDAqgMB45ZWRC+Z'}]}
0:49:57.715364	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 03aa, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 56442f99)
0:49:57.716360	LOG	Server <---------- DUT
0:49:57.717363	LOG	Count = 24
0:49:57.785337	LOG	PULL_DATA: 02 2cdb 02 aa555a0000240409
0:49:57.787319	LOG	PULL_ACK: 02 2cdb 04
0:50:02.750742	LOG	PUSH_ACK: 02 0642 01
0:50:02.752743	LOG	PUSH_DATA: Protocol version = 02, Token = 0642, Identifier = 00, JSON = {'rxpk': [{'tmst': 466605745, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -50, 'size': 15, 'data': 'QCAgICDAqwMBBS2yDtG+'}]}
0:50:02.754741	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 03ab, FOpts:), FPort: 01, FRMPayload: 0037, MIC: b20ed1be)
0:50:02.756740	LOG	Server <---------- DUT
0:50:02.757757	LOG	Count = 25
0:50:07.739805	LOG	PUSH_ACK: 02 0643 01
0:50:07.741804	LOG	PUSH_DATA: Protocol version = 02, Token = 0643, Identifier = 00, JSON = {'rxpk': [{'tmst': 471608337, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -50, 'size': 15, 'data': 'QCAgICDArAMBhEtt+o46'}]}
0:50:07.742803	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 03ac, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 6dfa8e3a)
0:50:07.744802	LOG	Server <---------- DUT
0:50:07.746801	LOG	Count = 26
0:50:07.865616	LOG	PULL_DATA: 02 fd22 02 aa555a0000240409
0:50:07.869614	LOG	PULL_ACK: 02 fd22 04
0:50:12.742568	LOG	PUSH_ACK: 02 0645 01
0:50:12.744568	LOG	PUSH_DATA: Protocol version = 02, Token = 0645, Identifier = 00, JSON = {'rxpk': [{'tmst': 476610925, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -50, 'size': 15, 'data': 'QCAgICDArQMBEb4/6Th+'}]}
0:50:12.746568	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 03ad, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 3fe9387e)
0:50:12.747567	LOG	Server <---------- DUT
0:50:12.749565	LOG	Count = 27
0:50:17.730577	LOG	PUSH_ACK: 02 0646 01

0:50:17.733576	LOG	PUSH_DATA: Protocol version = 02, Token = 0646, Identifier = 00, JSON = {'rxpk': [{'tmst': 481613509, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -51, 'size': 15, 'data': 'QCAgICDArgMBaEXMY+oS'}]}
0:50:17.735575	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 03ae, FOpts:), FPort: 01, FRMPayload: 0037, MIC: cc63ea12)
0:50:17.736574	LOG	Server <---------- DUT
0:50:17.738573	LOG	Count = 28
0:50:17.945630	LOG	PULL_DATA: 02 8cc7 02 aa555a0000240409
0:50:17.947630	LOG	PULL_ACK: 02 8cc7 04
0:50:22.718868	LOG	PUSH_ACK: 02 0647 01
0:50:22.720868	LOG	PUSH_DATA: Protocol version = 02, Token = 0647, Identifier = 00, JSON = {'rxpk': [{'tmst': 486616101, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -51, 'size': 15, 'data': 'QCAgICDArwMBOpX+O6Zq'}]}
0:50:22.722868	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 03af, FOpts:), FPort: 01, FRMPayload: 0037, MIC: fe3ba66a)
0:50:22.723866	LOG	Server <---------- DUT
0:50:22.724867	LOG	Count = 29
0:50:27.759056	LOG	PUSH_ACK: 02 0648 01
0:50:27.764053	LOG	PUSH_DATA: Protocol version = 02, Token = 0648, Identifier = 00, JSON = {'rxpk': [{'tmst': 491618677, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -51, 'size': 15, 'data': 'QCAgICDAsAMBmVTIoccn'}]}
0:50:27.766052	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 03b0, FOpts:), FPort: 01, FRMPayload: 0037, MIC: c8a1c727)
0:50:27.767052	LOG	Server <---------- DUT
0:50:27.769051	LOG	Count = 30
0:50:28.025907	LOG	PULL_DATA: 02 d3bb 02 aa555a0000240409
0:50:28.027907	LOG	PULL_ACK: 02 d3bb 04
0:50:32.750329	LOG	PUSH_ACK: 02 0649 01
0:50:32.752328	LOG	PUSH_DATA: Protocol version = 02, Token = 0649, Identifier = 00, JSON = {'rxpk': [{'tmst': 496621265, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -50, 'size': 15, 'data': 'QCAgICDAsQMBDUGnBB1c'}]}
0:50:32.753327	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 03b1, FOpts:), FPort: 01, FRMPayload: 0037, MIC: a7041d5c)
0:50:32.755326	LOG	Server <---------- DUT
0:50:32.756325	LOG	Count = 31
0:50:37.738394	LOG	PUSH_ACK: 02 064a 01
0:50:37.740393	LOG	PUSH_DATA: Protocol version = 02, Token = 064a, Identifier = 00, JSON = {'rxpk': [{'tmst': 501623953, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -50, 'size': 15, 'data': 'QCAgICDAsgMBLZGFJZ58'}]}
0:50:37.742392	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 03b2, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 85259e7c)
0:50:37.743391	LOG	Server <---------- DUT
0:50:37.744393	LOG	Count = 32
0:50:38.125601	LOG	PULL_DATA: 02 90b0 02 aa555a0000240409
0:50:38.127599	LOG	PULL_ACK: 02 90b0 04
0:50:42.795005	LOG	PUSH_ACK: 02 064c 01
0:50:42.798003	LOG	PUSH_DATA: Protocol version = 02, Token = 064c, Identifier = 00, JSON = {'rxpk': [{'tmst': 506649599, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAswMB8uBlo69+'}]}

0:50:42.800002	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 03b3, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 65a3af7e)
0:50:42.801001	LOG	Server <---------- DUT
0:50:42.803000	LOG	Count = 33
0:50:42.818991	LOG	Expected number of uplink messages have been received
0:50:42.822989	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:50:47.783222	LOG	PUSH_ACK: 02 064d 01
0:50:47.786221	LOG	PUSH_DATA: Protocol version = 02, Token = 064d, Identifier = 00, JSON = {'rxpk': [{'tmst': 511652175, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAtAMBsPF5G+7C'}]}
0:50:47.787221	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 03b4, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 791beec2)
0:50:47.789220	LOG	Server <---------- DUT
0:50:47.791218	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:50:47.794217	LOG	ADRACKReq bit is activated
0:50:47.796216	LOG	ADRACKReq bit from DUT tested successfully
0:50:47.799232	LOG	Check previous uplink data rate process starts
0:50:47.804213	LOG	Uplink received with expected Data Rate
0:50:47.808209	LOG	Receive frame on specific channels process starts
0:50:47.820203	LOG	Attempt 1/15
0:50:48.205880	LOG	PULL_DATA: 02 8056 02 aa555a0000240409
0:50:48.207851	LOG	PULL_ACK: 02 8056 04
0:50:52.774620	LOG	PUSH_ACK: 02 064e 01
0:50:52.779617	LOG	PUSH_DATA: Protocol version = 02, Token = 064e, Identifier = 00, JSON = {'rxpk': [{'tmst': 516654767, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICDAtQMB2AOwCW8V'}]}
0:50:52.782615	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 03b5, FOpts:), FPort: 01, FRMPayload: 0037, MIC: b0096f15)
0:50:52.784613	LOG	Server <---------- DUT
0:50:52.785612	LOG	Attempt 2/15
0:50:57.766216	LOG	PUSH_ACK: 02 064f 01
0:50:57.768215	LOG	PUSH_DATA: Protocol version = 02, Token = 064f, Identifier = 00, JSON = {'rxpk': [{'tmst': 521657359, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAtgMB56NOS2bZ'}]}
0:50:57.770215	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 03b6, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 4e4b66d9)
0:50:57.771214	LOG	Server <---------- DUT
0:50:57.772213	LOG	Attempt 3/15
0:50:58.286370	LOG	PULL_DATA: 02 48ac 02 aa555a0000240409
0:50:58.287370	LOG	PULL_ACK: 02 48ac 04
0:51:02.808020	LOG	PUSH_ACK: 02 0650 01
0:51:02.811019	LOG	PUSH_DATA: Protocol version = 02, Token = 0650, Identifier = 00, JSON = {'rxpk': [{'tmst': 526659943, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAtwMBkkA5G/x7'}]}
0:51:02.812018	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 03b7, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 391bfc7b)
0:51:02.814016	LOG	Server <---------- DUT
0:51:02.816015	LOG	Attempt 4/15
0:51:07.799353	LOG	PUSH_ACK: 02 0651 01
0:51:07.801352	LOG	PUSH_DATA: Protocol version = 02, Token = 0651, Identifier = 00, JSON = {'rxpk': [{'tmst': 531662535, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAuAMByRF5ojY6'}]}
0:51:07.803350	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 03b8, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 79a2363a)
0:51:07.805350	LOG	Server <---------- DUT
0:51:07.806349	LOG	Attempt 5/15
0:51:08.366344	LOG	PULL_DATA: 02 683f 02 aa555a0000240409
0:51:08.369341	LOG	PULL_ACK: 02 683f 04
0:51:12.806763	LOG	PUSH_ACK: 02 0653 01
0:51:12.808762	LOG	PUSH_DATA: Protocol version = 02, Token = 0653, Identifier = 00, JSON = {'rxpk': [{'tmst': 536665119, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICDAuQMBIMmlkQ8B'}]}
0:51:12.811760	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 03b9, FOpts:), FPort: 01, FRMPayload: 0037, MIC: a5910f01)
0:51:12.812760	LOG	Server <---------- DUT
0:51:12.814759	LOG	Attempt 6/15
0:51:17.797436	LOG	PUSH_ACK: 02 0654 01
0:51:17.799436	LOG	PUSH_DATA: Protocol version = 02, Token = 0654, Identifier = 00, JSON = {'rxpk': [{'tmst': 541667711, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAugMBdK8Bn8I5'}]}
0:51:17.801434	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 03ba, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 019fc239)
0:51:17.802434	LOG	Server <---------- DUT
0:51:17.804433	LOG	Attempt 7/15
0:51:18.446242	LOG	PULL_DATA: 02 2f3e 02 aa555a0000240409
0:51:18.447243	LOG	PULL_ACK: 02 2f3e 04
0:51:22.787818	LOG	PUSH_ACK: 02 0655 01
0:51:22.789817	LOG	PUSH_DATA: Protocol version = 02, Token = 0655, Identifier = 00, JSON = {'rxpk': [{'tmst': 546670303, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAuwMBoZzak836'}]}
0:51:22.790816	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 03bb, FOpts:), FPort: 01, FRMPayload: 0037, MIC: da93cdfa)
0:51:22.791817	LOG	Server <---------- DUT
0:51:22.800811	LOG	Receive frame on specific channels process tested successfully
0:51:22.808823	LOG	Send LinkADRReq process starts
0:51:27.777660	LOG	PUSH_ACK: 02 0656 01
0:51:27.779660	LOG	PUSH_DATA: Protocol version = 02, Token = 0656, Identifier = 00, JSON = {'rxpk': [{'tmst': 551672887, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -47, 'size': 15, 'data': 'QCAgICDAvAMBkFFGCs2T'}]}
0:51:27.781657	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 03bc, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 460acd93)
0:51:27.783657	LOG	Server <---------- DUT
0:51:27.785655	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0179, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: 3d161f97)
0:51:27.788655	LOG	PULL_RESP: Protocol version = 02, Token = dc83, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 553672887, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAeQEAIHrI54Q9Fh+X'}}
0:51:27.792652	LOG	Server ----------> DUT
0:51:27.795621	LOG	TX_ACK: 02 dc83 05 aa555a0000240409
0:51:28.635545	LOG	PULL_DATA: 02 2d6e 02 aa555a0000240409
0:51:28.637544	LOG	PULL_ACK: 02 2d6e 04

0:51:32.791228	LOG	PUSH_ACK: 02 0657 01
0:51:32.793227	LOG	PUSH_DATA: Protocol version = 02, Token = 0657, Identifier = 00, JSON = {'rxpk': [{'tmst': 556680614, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCvQMDBwG/AzCWKOg='}]}
0:51:32.794225	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 03bd, FOpts: 0307), FPort: 01, FRMPayload: 0037, MIC: 309628e8)
0:51:32.796225	LOG	Server <---------- DUT
0:51:32.797224	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:51:32.798225	LOG	Command Answer: 0307
0:51:32.806218	LOG	MAC command communication completed
0:51:32.809217	LOG	Check previous uplink data rate process starts
0:51:32.815213	LOG	Uplink received with expected Data Rate
0:51:32.819212	LOG	ADRACKReq bit is disabled
0:51:32.822210	LOG	ADRACKReq bit from DUT tested successfully
0:51:32.825209	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:51:37.780956	LOG	PUSH_ACK: 02 0658 01
0:51:37.783954	LOG	PUSH_DATA: Protocol version = 02, Token = 0658, Identifier = 00, JSON = {'rxpk': [{'tmst': 561678070, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAvgMBlj11jNMN'}]}
0:51:37.784953	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 03be, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 758cd30d)
0:51:37.786952	LOG	Server <---------- DUT
0:51:37.788951	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 017a, FOpts:), FPort: e0, FRMPayload: 0501), MIC: 0bc1642e)
0:51:37.791950	LOG	Frame command sent to the DUT
0:51:37.792949	LOG	PULL_RESP: Protocol version = 02, Token = ff14, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 563678070, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAegHgtWQLwWQu'}}
0:51:37.794948	LOG	Server ----------> DUT
0:51:37.800945	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:51:37.812938	LOG	Send NewChannelReq process starts
0:51:38.845979	LOG	PULL_DATA: 02 2d4e 02 aa555a0000240409
0:51:38.847977	LOG	PULL_ACK: 02 2d4e 04
0:51:42.795091	LOG	PUSH_ACK: 02 065a 01
0:51:42.798089	LOG	PUSH_DATA: Protocol version = 02, Token = 065a, Identifier = 00, JSON = {'rxpk': [{'tmst': 566680649, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAvwMBxI3UnbqW'}]}
0:51:42.799088	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 03bf, FOpts:), FPort: 01, FRMPayload: 0038, MIC: d49dba96)
0:51:42.801087	LOG	Server <---------- DUT
0:51:42.803086	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 017b, FOpts:), FPort: 00, FRMPayload: 070300000050), MIC: 7e55c545)
0:51:42.806084	LOG	PULL_RESP: Protocol version = 02, Token = d706, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 568680649, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YCAgICAAewEAUYAHnQ13flXFRQ=='}}
0:51:42.807084	LOG	Server ----------> DUT
0:51:42.811081	LOG	TX_ACK: 02 d706 05 aa555a0000240409
0:51:47.797952	LOG	PUSH_ACK: 02 065b 01
0:51:47.799951	LOG	PUSH_DATA: Protocol version = 02, Token = 065b, Identifier = 00, JSON = {'rxpk': [{'tmst': 571688355, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCwAMHAwFCV/jmS1s='}]}
0:51:47.801950	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 03c0, FOpts: 0703), FPort: 01, FRMPayload: 0038, MIC: f8e64b5b)
0:51:47.802949	LOG	Server <---------- DUT
0:51:47.804948	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:51:47.805949	LOG	Command Answer: 0703
0:51:47.810944	LOG	MAC command communication completed
0:51:47.814943	LOG	Send NewChannelReq process starts
0:51:48.896131	LOG	PULL_DATA: 02 ecc2 02 aa555a0000240409
0:51:48.898117	LOG	PULL_ACK: 02 ecc2 04
0:51:57.820984	LOG	PUSH_ACK: 02 065c 01
0:51:57.826981	LOG	PUSH_DATA: Protocol version = 02, Token = 065c, Identifier = 00, JSON = {'rxpk': [{'tmst': 581688379, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -47, 'size': 15, 'data': 'QCAgICCAwQMBlbp5VDpt'}]}
0:51:57.827980	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 03c1, FOpts:), FPort: 01, FRMPayload: 0038, MIC: 79543a6d)
0:51:57.829979	LOG	Server <---------- DUT
0:51:57.831978	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 017c, FOpts:), FPort: 00, FRMPayload: 070400000050), MIC: c1c372d8)
0:51:57.834977	LOG	PULL_RESP: Protocol version = 02, Token = 9c08, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 583688379, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YCAgICAAfAEA5lDvuvcCwcNy2A=='}}
0:51:57.836976	LOG	Server ----------> DUT
0:51:57.839974	LOG	TX_ACK: 02 9c08 05 aa555a0000240409
0:51:59.096111	LOG	PULL_DATA: 02 e822 02 aa555a0000240409
0:51:59.098110	LOG	PULL_ACK: 02 e822 04
0:52:02.806039	LOG	PUSH_ACK: 02 065d 01
0:52:02.809038	LOG	PUSH_DATA: Protocol version = 02, Token = 065d, Identifier = 00, JSON = {'rxpk': [{'tmst': 586696071, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCwgMHAwG83zBB6PA='}]}
0:52:02.811037	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 03c2, FOpts: 0703), FPort: 01, FRMPayload: 0038, MIC: 3041e8f0)
0:52:02.813036	LOG	Server <---------- DUT
0:52:02.814036	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:52:02.816034	LOG	Command Answer: 0703
0:52:02.823030	LOG	MAC command communication completed
0:52:02.827028	LOG	End Test Step: Data Rate Decay for optional data rates
0:52:02.832025	LOG	Partial Verdict: PASS
0:52:02.838022	LOG	==========
0:52:02.843019	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_012_B
0:52:02.845018	LOG	Final Verdict: PASS

COMMENTS

COMMENT BEFORE THE TEST CASE EXECUTION ========== ========== COMMENT AFTER THE TEST CASE EXECUTION ==========

Test Case	TP_A_EU868_ED_MAC_104_BV_013	
Verdict	PASS	
Date	2021-10-18 01:39:35	
Comments	DutyCycleReq MAC Command	
Technology Version	LCTT v3.1.0_D1 | GUI v1.10.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.1	
Test Specs Version	USv1.5.1/EUv1.6/KRv1.2.1/ASv1.1.1/INv1.1.1/ALLv1.1	
Project	MLSv2.0.0	
Project Creation Date	2021-10-17 22:25:22	
Sample	DevID:SAMR34-XPRO | AppID:CertApp_EU_ABP | SW:MLSv2.0.0 | HW:SAMR34J18B	
Parameters	Conformance	TRUE

Time Stamp (ms)	Event	Summary
0:00:00.011579	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_013
0:00:00.045561	LOG	==========
0:00:00.048558	LOG	Start Test Step: Device activation
0:00:00.105527	LOG	Activation process has finished successfully
0:00:00.107526	LOG	Data stored in the DUT after Activation:
0:00:00.110524	LOG	DevAddr: 20202020
0:00:00.112522	LOG	AppEUI: abcdabcdabcdabcd
0:00:00.115521	LOG	NwkSKey: abcdabcdabcdabcdabcdabcdabcdabcd
0:00:00.117520	LOG	AppSKey: 12345678123456781234567812345678
0:00:00.120518	LOG	End Test Step: Device activation
0:00:00.126515	LOG	Partial Verdict: PASS
0:00:00.130513	LOG	==========
0:00:00.135510	LOG	==========
0:00:00.137509	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.148502	LOG	DUT Pre-condition activation process starts
0:00:00.151501	LOG	DUT Pre-condition activation completed
0:00:00.155498	LOG	End Test Step: DUT Pre-condition settings
0:00:00.160496	LOG	Partial Verdict: PASS
0:00:00.164494	LOG	==========
0:00:00.169491	LOG	==========
0:00:00.171490	LOG	Start Test Step: Test DutyCycleReq MAC Command
0:00:00.183483	LOG	Send LinkADRReq process starts
0:00:02.333330	LOG	PULL_DATA: 02 166d 02 aa555a0000240409
0:00:02.335329	LOG	PULL_ACK: 02 166d 04
0:00:02.337327	LOG	First PULL_DATA received
0:00:05.955167	LOG	PUSH_ACK: 02 065f 01
0:00:05.957137	LOG	PUSH_DATA: Protocol version = 02, Token = 065f, Identifier = 00, JSON = {'rxpk': [{'tmst': 596696095, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAwwMB4ED3hfLj'}]}
0:00:05.959136	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 03c3, FOpts:), FPort: 01, FRMPayload: 0038, MIC: f785f2e3)
0:00:05.960136	LOG	Server <---------- DUT
0:00:05.962135	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 017d, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: 50af86cf)
0:00:05.964139	LOG	PULL_RESP: Protocol version = 02, Token = e6ee, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 598696095, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAfQEAJATmEOpQr4bP'}}
0:00:05.965138	LOG	Server ----------> DUT
0:00:05.969132	LOG	TX_ACK: 02 e6ee 05 aa555a0000240409

0:00:10.969338	LOG	PUSH_ACK: 02 0660 01
0:00:10.971336	LOG	PUSH_DATA: Protocol version = 02, Token = 0660, Identifier = 00, JSON = {'rxpk': [{'tmst': 601703815, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCxAMDBwFGod2uXOo='}]}
0:00:10.972336	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 03c4, FOpts: 0307), FPort: 01, FRMPayload: 0038, MIC: ddae5cea)
0:00:10.974335	LOG	Server <---------- DUT
0:00:10.975334	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:10.977333	LOG	Command Answer: 0307
0:00:10.983329	LOG	MAC command communication completed
0:00:10.986328	LOG	Send DutyCycleReq process starts
0:00:12.472498	LOG	PULL_DATA: 02 1191 02 aa555a0000240409
0:00:12.474497	LOG	PULL_ACK: 02 1191 04
0:00:20.992740	LOG	PUSH_ACK: 02 0661 01
0:00:20.994739	LOG	PUSH_DATA: Protocol version = 02, Token = 0661, Identifier = 00, JSON = {'rxpk': [{'tmst': 611703831, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAxQMBOhJLEXr8'}]}
0:00:20.996738	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 03c5, FOpts:), FPort: 01, FRMPayload: 0038, MIC: 4b117afc)
0:00:20.998738	LOG	Server <---------- DUT
0:00:21.000735	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 017e, FOpts:), FPort: 00, FRMPayload: 0407), MIC: d36c60bf)
0:00:21.004733	LOG	PULL_RESP: Protocol version = 02, Token = dcbc, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 613703831, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAfgEAr5LTbGC/'}}
0:00:21.006732	LOG	Server ----------> DUT
0:00:21.010731	LOG	TX_ACK: 02 dcbc 05 aa555a0000240409
0:00:22.681816	LOG	PULL_DATA: 02 443d 02 aa555a0000240409
0:00:22.683796	LOG	PULL_ACK: 02 443d 04
0:00:25.965964	LOG	PUSH_ACK: 02 0662 01
0:00:25.968961	LOG	PUSH_DATA: Protocol version = 02, Token = 0662, Identifier = 00, JSON = {'rxpk': [{'tmst': 616711528, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 16, 'data': 'QCAgICCBxgMEAXnrliY2Mw=='}]}
0:00:25.969961	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 81, FCnt: 03c6, FOpts: 04), FPort: 01, FRMPayload: 0038, MIC: 96263633)
0:00:25.971960	LOG	Server <---------- DUT
0:00:25.972959	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:25.974959	LOG	Command Answer: 04
0:00:25.979955	LOG	MAC command communication completed
0:00:25.987951	LOG	Calculated Time on air for previous uplink (in seconds): 0.051456
0:00:25.989950	LOG	Calculated Toff for previous uplink (in seconds): 6.535
0:00:25.994949	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:00:32.763168	LOG	PULL_DATA: 02 6c41 02 aa555a0000240409
0:00:32.767165	LOG	PULL_ACK: 02 6c41 04
0:00:36.002360	LOG	PUSH_ACK: 02 0664 01
0:00:36.004357	LOG	PUSH_DATA: Protocol version = 02, Token = 0664, Identifier = 00, JSON = {'rxpk': [{'tmst': 626711568, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAxwMBfJYqIGEE'}]}

0:00:36.006358	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 03c7, FOpts:), FPort: 01, FRMPayload: 0038, MIC: 2a206104)
0:00:36.008356	LOG	Server <---------- DUT
0:00:36.011355	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:00:36.017352	LOG	Calculated Time on air for previous uplink (in seconds): 0.046335999999999995
0:00:36.018350	LOG	Calculated Toff for previous uplink (in seconds): 5.885
0:00:36.027345	LOG	Send Test Command EchoPayloadReq process starts
0:00:42.842539	LOG	PULL_DATA: 02 5ff8 02 aa555a0000240409
0:00:42.844539	LOG	PULL_ACK: 02 5ff8 04
0:00:45.973790	LOG	PUSH_ACK: 02 0665 01
0:00:45.976789	LOG	PUSH_DATA: Protocol version = 02, Token = 0665, Identifier = 00, JSON = {'rxpk': [{'tmst': 636716720, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAyAMBhs5fDJ8f'}]}
0:00:45.977788	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 03c8, FOpts:), FPort: 01, FRMPayload: 0038, MIC: 5f0c9f1f)
0:00:45.979787	LOG	Server <---------- DUT
0:00:45.981786	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 017f, FOpts:), FPort: e0, FRMPayload: 08010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 79ebaa2a)
0:00:45.983785	LOG	Frame command sent to the DUT
0:00:45.984784	LOG	PULL_RESP: Protocol version = 02, Token = 56fd, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 638716720, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 53, 'data': 'YCAgICAAfwHg3Ld9ZGa5sjcOeQLO6y/dDx121p2lB3FQmIwRIsXF/mbejZJqLAMI8Hnrqio='}}
0:00:45.986801	LOG	Server ----------> DUT
0:00:45.990781	LOG	TX_ACK: 02 56fd 05 aa555a0000240409
0:00:52.922055	LOG	PULL_DATA: 02 0832 02 aa555a0000240409
0:00:52.924034	LOG	PULL_ACK: 02 0832 04
0:00:56.092266	LOG	PUSH_ACK: 02 0666 01
0:00:56.094264	LOG	PUSH_DATA: Protocol version = 02, Token = 0666, Identifier = 00, JSON = {'rxpk': [{'tmst': 646788042, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 53, 'data': 'QCAgICCAyQPgY2InqScRMzcV3btJJ5VFxAMlQcQxoP4MjwjEI07YamRZGx13YlwMgW04XKU='}]}
0:00:56.095264	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 03c9, FOpts:), FPort: e0, FRMPayload: 08020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202), MIC: 6d385ca5)
0:00:56.097262	LOG	Server <---------- DUT
0:00:56.098262	LOG	Answer in payload: 02020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202
0:00:56.100261	LOG	Frame Command Payload in the Answer: 08020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202
0:00:56.104258	LOG	Checking if the payload of the EchoPayloadAns is correct
0:00:56.108258	LOG	Send Test Command EchoPayloadReq process completed
0:00:56.115252	LOG	Calculated Time on air for previous uplink (in seconds): 0.10265600000000001
0:00:56.117251	LOG	Calculated Toff for previous uplink (in seconds): 13.037
0:00:56.124265	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:01:03.002406	LOG	PULL_DATA: 02 b499 02 aa555a0000240409
0:01:03.007404	LOG	PULL_ACK: 02 b499 04

0:01:11.005936	LOG	PUSH_ACK: 02 0668 01
0:01:11.007936	LOG	PUSH_DATA: Protocol version = 02, Token = 0668, Identifier = 00, JSON = {'rxpk': [{'tmst': 661729642, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAygMB0/Av6PPj'}]}
0:01:11.009935	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 03ca, FOpts:), FPort: 01, FRMPayload: 0039, MIC: 2fe8f3e3)
0:01:11.010935	LOG	Server <---------- DUT
0:01:11.013933	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:01:11.020931	LOG	End Test Step: Test DutyCycleReq MAC Command
0:01:11.023929	LOG	Partial Verdict: PASS
0:01:11.027927	LOG	==========
0:01:11.032922	LOG	==========
0:01:11.035920	LOG	Start Test Step: Restore default DutyCycle
0:01:11.045915	LOG	Send DutyCycleReq process starts
0:01:13.082777	LOG	PULL_DATA: 02 e234 02 aa555a0000240409
0:01:13.083777	LOG	PULL_ACK: 02 e234 04
0:01:21.029345	LOG	PUSH_ACK: 02 0669 01
0:01:21.031341	LOG	PUSH_DATA: Protocol version = 02, Token = 0669, Identifier = 00, JSON = {'rxpk': [{'tmst': 671734786, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAywMBiK2auoIH'}]}
0:01:21.033339	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 03cb, FOpts:), FPort: 01, FRMPayload: 0039, MIC: 9aba8207)
0:01:21.035338	LOG	Server <---------- DUT
0:01:21.037337	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0180, FOpts:), FPort: 00, FRMPayload: 0400), MIC: 2233b4e7)
0:01:21.039336	LOG	PULL_RESP: Protocol version = 02, Token = 7ede, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 673734786, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAgAEA8DciM7Tn'}}
0:01:21.040335	LOG	Server ----------> DUT
0:01:21.043335	LOG	TX_ACK: 02 7ede 05 aa555a0000240409
0:01:23.142161	LOG	PULL_DATA: 02 ef2a 02 aa555a0000240409
0:01:23.145158	LOG	PULL_ACK: 02 ef2a 04
0:01:31.034753	LOG	PUSH_ACK: 02 066b 01
0:01:31.036752	LOG	PUSH_DATA: Protocol version = 02, Token = 066b, Identifier = 00, JSON = {'rxpk': [{'tmst': 681745076, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -47, 'size': 16, 'data': 'QCAgICCBzAMEAUsGoX7IWg=='}]}
0:01:31.037753	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 81, FCnt: 03cc, FOpts: 04), FPort: 01, FRMPayload: 0039, MIC: a17ec85a)
0:01:31.039769	LOG	Server <---------- DUT
0:01:31.041751	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:31.043749	LOG	Command Answer: 04
0:01:31.048756	LOG	MAC command communication completed
0:01:31.052743	LOG	End Test Step: Restore default DutyCycle
0:01:31.056741	LOG	Partial Verdict: PASS
0:01:31.060739	LOG	==========
0:01:31.065735	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_013
0:01:31.068734	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_014
Verdict	PASS
Date	2021-10-18 01:41:09

Comments	DeviceTimeReq MAC Command	
Technology Version	LCTT v3.1.0_D1 | GUI v1.10.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.1	
Test Specs Version	USv1.5.1/EUv1.6/KRv1.2.1/ASv1.1.1/INv1.1.1/ALLv1.1	
Project	MLSv2.0.0	
Project Creation Date	2021-10-17 22:25:22	
Sample	DevID:SAMR34-XPRO | AppID:CertApp_EU_ABP | SW:MLSv2.0.0 | HW:SAMR34J18B	
Parameters	Conformance	TRUE

Time Stamp (ms)	Event	Summary
0:00:00.013462	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_014
0:00:00.048443	LOG	==========
0:00:00.050441	LOG	Start Test Step: Device activation
0:00:00.110408	LOG	Activation process has finished successfully
0:00:00.113406	LOG	Data stored in the DUT after Activation:
0:00:00.115406	LOG	DevAddr: 20202020
0:00:00.118403	LOG	AppEUI: abcdabcdabcdabcd
0:00:00.126399	LOG	NwkSKey: abcdabcdabcdabcdabcdabcdabcdabcd
0:00:00.129398	LOG	AppSKey: 12345678123456781234567812345678
0:00:00.131398	LOG	End Test Step: Device activation
0:00:00.135394	LOG	Partial Verdict: PASS
0:00:00.140391	LOG	==========
0:00:00.147388	LOG	==========
0:00:00.150386	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.162379	LOG	DUT Pre-condition activation process starts
0:00:00.165379	LOG	DUT Pre-condition activation completed
0:00:00.168377	LOG	End Test Step: DUT Pre-condition settings
0:00:00.172373	LOG	Partial Verdict: PASS
0:00:00.177370	LOG	==========
0:00:00.184366	LOG	==========
0:00:00.186365	LOG	Start Test Step: Test DeviceTimeReq MAC Command
0:00:00.199359	LOG	Send Test Command DeviceTimeReq process starts
0:00:07.032542	LOG	PUSH_DATA received while waiting first PULL_DATA
0:00:09.334258	LOG	PULL_DATA: 02 6910 02 aa555a0000240409
0:00:09.335258	LOG	PULL_ACK: 02 6910 04
0:00:09.337257	LOG	First PULL_DATA received
0:00:12.025754	LOG	PUSH_ACK: 02 066e 01
0:00:12.028754	LOG	PUSH_DATA: Protocol version = 02, Token = 066e, Identifier = 00, JSON = {'rxpk': [{'tmst': 696747660, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAzgMBS3FWUf9E'}]}
0:00:12.029753	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 03ce, FOpts:), FPort: 01, FRMPayload: 0039, MIC: 5651ff44)
0:00:12.030753	LOG	Server <---------- DUT
0:00:12.032751	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0181, FOpts:), FPort: e0, FRMPayload: 21), MIC: c86faef2)
0:00:12.035748	LOG	Frame command sent to the DUT
0:00:12.037749	LOG	PULL_RESP: Protocol version = 02, Token = ce1a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 698747660, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAAgQHgVshvrvI='}}
0:00:12.038747	LOG	Server ----------> DUT
0:00:12.042744	LOG	Send Test Command DeviceTimeReq process completed
0:00:12.045742	LOG	Wait a MAC command from the DUT process starts

0:00:17.022964	LOG	PUSH_ACK: 02 066f 01
0:00:17.024962	LOG	PUSH_DATA: Protocol version = 02, Token = 066f, Identifier = 00, JSON = {'rxpk': [{'tmst': 701755357, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 16, 'data': 'QCAgICCBzwMNAZN+qsiFBg=='}]}
0:00:17.026961	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 81, FCnt: 03cf, FOpts: 0d), FPort: 01, FRMPayload: 003a, MIC: aac88506)
0:00:17.028960	LOG	Server <---------- DUT
0:00:17.029960	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:17.032958	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0182, FOpts:), FPort: 00, FRMPayload: 0d87d61200e3), MIC: 96c423db)
0:00:17.035956	LOG	PULL_RESP: Protocol version = 02, Token = 7216, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 703755357, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YCAgICAAggEA33YGo0FqlsQj2w=='}}
0:00:17.037955	LOG	Server ----------> DUT
0:00:17.043952	LOG	Wait a MAC command from the DUT process completed
0:00:17.047950	LOG	End Test Step: Test DeviceTimeReq MAC Command
0:00:17.052947	LOG	Partial Verdict: PASS
0:00:17.058944	LOG	==========
0:00:17.063941	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_014
0:00:17.065939	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_015_A	
Verdict	PASS	
Date	2021-10-18 12:40:33	
Comments	RX1 Window Test (Part 1)	
Technology Version	LCTT v3.1.0_D1 | GUI v1.10.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.1	
Test Specs Version	USv1.5.1/EUv1.6/KRv1.2.1/ASv1.1.1/INv1.1.1/ALLv1.1	
Project	MLSv2.0.0	
Project Creation Date	2021-10-17 22:25:22	
Sample	DevID:SAMR34-XPRO | AppID:CertApp_EU_ABP | SW:MLSv2.0.0 | HW:SAMR34J18B	
Parameters	SF7BW250 Frequency	868.100
	FSK Frequency	868.100
	Data Rates to be measured	SF12BW125
	Conformance	False

Time Stamp (ms)	Event	Summary
0:00:00.013073	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_015_A
0:00:00.046055	LOG	WARN:TEST CASE CONFIGURATION NON CONFORMANCE
0:00:00.053050	LOG	==========
0:00:00.055049	LOG	Start Test Step: Device activation
0:00:00.069041	LOG	Activation By Personalization (ABP) process starts
0:00:00.077037	LOG	Activation process has finished successfully
0:00:00.080035	LOG	Data stored in the DUT after Activation:
0:00:00.084033	LOG	DevAddr: 20202020
0:00:00.090029	LOG	AppEUI: abcdabcdabcdabcd
0:00:00.097027	LOG	NwkSKey: abcdabcdabcdabcdabcdabcdabcdabcd
0:00:00.107020	LOG	AppSKey: 12345678123456781234567812345678
0:00:00.112017	LOG	End Test Step: Device activation
0:00:00.118013	LOG	Partial Verdict: PASS
0:00:00.123011	LOG	==========

0:00:00.130007	LOG	==========
0:00:00.134004	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.147997	LOG	DUT Pre-condition activation process starts
0:00:00.153993	LOG	Check FCntUp after reset process starts
0:00:00.158990	LOG	Check FCntUp after reset process complete
0:00:00.163988	LOG	Check minimum DR after reset (only ABP) process starts
0:00:00.171983	LOG	Check ADR bit process starts
0:00:01.289352	LOG	PUSH_DATA received while waiting first PULL_DATA
0:00:05.965708	LOG	PULL_DATA: 01 6632 02 fffeb827eb59d368
0:00:05.967707	LOG	PULL_ACK: 01 6632 04 fffeb827eb59d368
0:00:05.969707	LOG	First PULL_DATA received
0:00:06.285529	LOG	PUSH_ACK: 01 0db7 01 fffeb827eb59d368
0:00:06.290526	LOG	PUSH_DATA: Protocol version = 01, Token = 0db7, Identifier = 00, JSON = {'rxpk': [{'tmst': 53512620, 'time': '2021-10-08T04:04:30.649994Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -14, 'size': 15, 'data': 'QCAgICCAPgABqakS8GB+'}]}
0:00:06.292525	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 003e, FOpts:), FPort: 01, FRMPayload: 0000, MIC: 12f0607e)
0:00:06.293524	LOG	Server <---------- DUT
0:00:06.295523	LOG	ADR bit in FCtrl field is set
0:00:06.299521	LOG	Check previous uplink data rate process starts
0:00:06.304519	LOG	Uplink received with expected Data Rate
0:00:06.306518	LOG	Check minimum DR after reset (only ABP) process complete
0:00:06.309514	LOG	Send Test Command DutResetReq process starts
0:00:06.313512	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0001, FOpts:), FPort: e0, FRMPayload: 01), MIC: a43baa74)
0:00:06.316511	LOG	Frame command sent to the DUT
0:00:06.318509	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 55512620, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAAAQDgUKQ7qnQ='}}
0:00:06.320508	LOG	Server ----------> DUT
0:00:06.324506	LOG	Send Test Command DutResetReq process completed
0:00:06.343495	LOG	Check FCntUp after reset process starts
0:00:06.348492	LOG	Wait until a confirmed or unconfirmed uplink arrives process starts
0:00:16.126120	LOG	PULL_DATA: 01 a35a 02 fffeb827eb59d368
0:00:16.127121	LOG	PULL_ACK: 01 a35a 04 fffeb827eb59d368
0:00:17.767192	LOG	PUSH_ACK: 01 255d 01 fffeb827eb59d368
0:00:17.770191	LOG	PUSH_DATA: Protocol version = 01, Token = 255d, Identifier = 00, JSON = {'rxpk': [{'tmst': 64998404, 'time': '2021-10-08T04:04:42.132576Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.2, 'rssi': -13, 'size': 15, 'data': 'QCAgICCAPwABEZarbS8p'}]}
0:00:17.772190	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 003f, FOpts:), FPort: 01, FRMPayload: 0000, MIC: ab6d2f29)
0:00:17.774188	LOG	Server <---------- DUT
0:00:17.787181	LOG	Wait until a confirmed or unconfirmed uplink arrives tested successfully
0:00:17.796177	LOG	Check FCntUp after reset process complete
0:00:17.802172	LOG	Check minimum DR after reset (only ABP) process starts
0:00:17.810168	LOG	Check ADR bit process starts
0:00:22.773363	LOG	PUSH_ACK: 01 0517 01 fffeb827eb59d368
0:00:22.776362	LOG	PUSH_DATA: Protocol version = 01, Token = 0517, Identifier = 00, JSON = {'rxpk': [{'tmst': 70000940, 'time': '2021-10-08T04:04:47.138598Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -16, 'size': 15, 'data': 'QCAgICCAQAABSyOgP44b'}]}
0:00:22.778361	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0040, FOpts:), FPort: 01, FRMPayload: 0000, MIC: a03f8e1b)

0:00:22.780361	LOG	Server <---------- DUT
0:00:22.782360	LOG	ADR bit in FCtrl field is set
0:00:22.785358	LOG	Check previous uplink data rate process starts
0:00:22.789354	LOG	Uplink received with expected Data Rate
0:00:22.792354	LOG	Check minimum DR after reset (only ABP) process complete
0:00:22.802347	LOG	Send Test Command TxPeriodicityChange process starts
0:00:22.807344	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0002, FOpts:), FPort: e0, FRMPayload: 0601), MIC: ca951b70)
0:00:22.811342	LOG	Frame command sent to the DUT
0:00:22.813342	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 72000940, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAAgDgnIfKlRtw'}}
0:00:22.816339	LOG	Server ----------> DUT
0:00:22.821336	LOG	Send Test Command TxPeriodicityChange process completed
0:00:22.827333	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:26.215419	LOG	PULL_DATA: 01 58e9 02 fffeb827eb59d368
0:00:26.217436	LOG	PULL_ACK: 01 58e9 04 fffeb827eb59d368
0:00:32.140070	LOG	PUSH_ACK: 01 5ed4 01 fffeb827eb59d368
0:00:32.145067	LOG	PUSH_DATA: Protocol version = 01, Token = 5ed4, Identifier = 00, JSON = {'rxpk': [{'tmst': 79366916, 'time': '2021-10-08T04:04:56.504839Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -12, 'size': 15, 'data': 'QCAgICCAQQABcerJnWuF'}]}
0:00:32.147066	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0041, FOpts:), FPort: 01, FRMPayload: 0001, MIC: c99d6b85)
0:00:32.149065	LOG	Server <---------- DUT
0:00:32.151064	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0003, FOpts:), FPort: e0, FRMPayload: 0701), MIC: 4d11cd87)
0:00:32.155062	LOG	Frame command sent to the DUT
0:00:32.157061	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 81366916, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAAwDge1BNEc2H'}}
0:00:32.158060	LOG	Server ----------> DUT
0:00:32.169054	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:32.176050	LOG	Check ADR bit process starts
0:00:36.355688	LOG	PULL_DATA: 01 abb2 02 fffeb827eb59d368
0:00:36.357687	LOG	PULL_ACK: 01 abb2 04 fffeb827eb59d368
0:00:37.143243	LOG	PUSH_ACK: 01 cdc6 01 fffeb827eb59d368
0:00:37.145242	LOG	PUSH_DATA: Protocol version = 01, Token = cdc6, Identifier = 00, JSON = {'rxpk': [{'tmst': 84369556, 'time': '2021-10-08T04:05:01.507652Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -16, 'size': 15, 'data': 'QCAgICCAQgABCkS6bSE+'}]}
0:00:37.147241	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0042, FOpts:), FPort: 01, FRMPayload: 0002, MIC: ba6d213e)
0:00:37.149240	LOG	Server <---------- DUT
0:00:37.151240	LOG	ADR bit in FCtrl field is set
0:00:37.156235	LOG	Send LinkADRReq process starts
0:00:42.149414	LOG	PUSH_ACK: 01 9bb4 01 fffeb827eb59d368
0:00:42.151413	LOG	PUSH_DATA: Protocol version = 01, Token = 9bb4, Identifier = 00, JSON = {'rxpk': [{'tmst': 89372196, 'time': '2021-10-08T04:05:06.514138Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.0, 'rssi': -14, 'size': 15, 'data': 'QCAgICCAQwABPgfPi2GK'}]}
0:00:42.154411	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0043, FOpts:), FPort: 01, FRMPayload: 0002, MIC: cf8b618a)
0:00:42.155410	LOG	Server <---------- DUT

0:00:42.157409	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0004, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: cd2fb162)
0:00:42.160407	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 91372196, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAABAAA1U5WV0jNL7Fi'}}
0:00:42.162407	LOG	Server ----------> DUT
0:00:46.014230	LOG	PUSH_ACK: 01 5411 01 fffeb827eb59d368
0:00:46.017228	LOG	PUSH_DATA: Protocol version = 01, Token = 5411, Identifier = 00, JSON = {'rxpk': [{'tmst': 93271331, 'time': '2021-10-08T04:05:10.379651Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -15, 'size': 17, 'data': 'QCAgICCCRAADBwEITEU4AoM='}]}
0:00:46.018227	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0044, FOpts: 0307), FPort: 01, FRMPayload: 0002, MIC: 45380283)
0:00:46.019228	LOG	Server <---------- DUT
0:00:46.021226	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:46.022227	LOG	Command Answer: 0307
0:00:46.028222	LOG	MAC command communication completed
0:00:46.033219	LOG	Send Test Command DutVersionsReq process starts
0:00:46.366030	LOG	PULL_DATA: 01 0e82 02 fffeb827eb59d368
0:00:46.368030	LOG	PULL_ACK: 01 0e82 04 fffeb827eb59d368
0:00:51.011406	LOG	PUSH_ACK: 01 213d 01 fffeb827eb59d368
0:00:51.013407	LOG	PUSH_DATA: Protocol version = 01, Token = 213d, Identifier = 00, JSON = {'rxpk': [{'tmst': 98268819, 'time': '2021-10-08T04:05:15.375816Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -16, 'size': 15, 'data': 'QCAgICCARQABj0ePeZSW'}]}
0:00:51.015404	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0045, FOpts:), FPort: 01, FRMPayload: 0002, MIC: 8f799496)
0:00:51.016403	LOG	Server <---------- DUT
0:00:51.017404	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0005, FOpts:), FPort: e0, FRMPayload: 7f), MIC: 12c48e9b)
0:00:51.020403	LOG	Frame command sent to the DUT
0:00:51.021402	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 100268819, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAABQDgKxLEjps='}}
0:00:51.022401	LOG	Server ----------> DUT
0:00:56.041563	LOG	PUSH_ACK: 01 dc87 01 fffeb827eb59d368
0:00:56.043562	LOG	PUSH_DATA: Protocol version = 01, Token = dc87, Identifier = 00, JSON = {'rxpk': [{'tmst': 103291123, 'time': '2021-10-08T04:05:20.406554Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -16, 'size': 23, 'data': 'QCAgICCARgDgbKD+PqNL8AtMYbBbOKo='}]}
0:00:56.045561	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0046, FOpts:), FPort: e0, FRMPayload: 7f010004010004010004, MIC: b05b38aa)
0:00:56.046560	LOG	Server <---------- DUT
0:00:56.048560	LOG	Answer in payload: 010004010004010004
0:00:56.050558	LOG	Frame Command Payload in the Answer: 7f010004010004010004
0:00:56.054556	LOG	DUT Version received: 010004010004010004
0:00:56.056555	LOG	Send Test Command DutVersionsReq completed
0:00:56.059553	LOG	DUT Pre-condition activation completed
0:00:56.062552	LOG	End Test Step: DUT Pre-condition settings
0:00:56.067548	LOG	Partial Verdict: PASS
0:00:56.073545	LOG	==========
0:00:56.082540	LOG	==========

0:00:56.084539	LOG	Start Test Step: Initial settings for the test
0:00:56.095532	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:56.425461	LOG	PULL_DATA: 01 70e9 02 fffeb827eb59d368
0:00:56.427461	LOG	PULL_ACK: 01 70e9 04 fffeb827eb59d368
0:01:02.152269	LOG	PUSH_ACK: 01 3ea1 01 fffeb827eb59d368
0:01:02.157266	LOG	PUSH_DATA: Protocol version = 01, Token = 3ea1, Identifier = 00, JSON = {'rxpk': [{'tmst': 109382716, 'time': '2021-10-08T04:05:26.516511Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.0, 'rssi': -12, 'size': 15, 'data': 'QCAgICCARwABHuWq7lXq'}]}
0:01:02.159265	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0047, FOpts:), FPort: 01, FRMPayload: 0003, MIC: aaee55ea)
0:01:02.161264	LOG	Server <---------- DUT
0:01:02.168260	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0006, FOpts:), FPort: e0, FRMPayload: 0701), MIC: 7322644a)
0:01:02.171258	LOG	Frame command sent to the DUT
0:01:02.173257	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 111382716, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAABgDgbWdzImRK'}}
0:01:02.175256	LOG	Server ----------> DUT
0:01:02.179253	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:02.185254	LOG	End Test Step: Initial settings for the test
0:01:02.190247	LOG	Partial Verdict: PASS
0:01:02.197244	LOG	==========
0:01:02.207238	LOG	==========
0:01:02.209237	LOG	Start Test Step: Test packet error rate for SF12BW125 using RX1 window
0:01:02.223228	LOG	Send LinkADRReq process starts
0:01:06.575769	LOG	PULL_DATA: 01 41e1 02 fffeb827eb59d368
0:01:06.577768	LOG	PULL_ACK: 01 41e1 04 fffeb827eb59d368
0:01:07.162438	LOG	PUSH_ACK: 01 fc67 01 fffeb827eb59d368
0:01:07.165436	LOG	PUSH_DATA: Protocol version = 01, Token = fc67, Identifier = 00, JSON = {'rxpk': [{'tmst': 114385308, 'time': '2021-10-08T04:05:31.527391Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.2, 'rssi': -13, 'size': 15, 'data': 'QCAgICCASAABiNutWe6t'}]}
0:01:07.166435	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0048, FOpts:), FPort: 01, FRMPayload: 0004, MIC: ad59eead)
0:01:07.168434	LOG	Server <---------- DUT
0:01:07.170433	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0007, FOpts:), FPort: 00, FRMPayload: 0300070001), MIC: 14df7c71)
0:01:07.172432	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 116385308, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAABwAA1ttUrHQU33xx'}}
0:01:07.174431	LOG	Server ----------> DUT
0:01:12.328524	LOG	PUSH_ACK: 01 3e01 01 fffeb827eb59d368
0:01:12.332519	LOG	PUSH_DATA: Protocol version = 01, Token = 3e01, Identifier = 00, JSON = {'rxpk': [{'tmst': 119551772, 'time': '2021-10-08T04:05:36.692912Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -13, 'size': 17, 'data': 'QCAgICCCSQADBwGGQi6k4Eg='}]}
0:01:12.335520	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0049, FOpts: 0307), FPort: 01, FRMPayload: 0004, MIC: 2ea4e048)
0:01:12.338514	LOG	Server <---------- DUT
0:01:12.340512	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:12.341513	LOG	Command Answer: 0307
0:01:12.347508	LOG	MAC command communication completed

0:01:12.353504	LOG	Send RXParamSetupReq process starts
0:01:16.776004	LOG	PULL_DATA: 01 7e97 02 fffeb827eb59d368
0:01:16.778004	LOG	PULL_ACK: 01 7e97 04 fffeb827eb59d368
0:01:17.157789	LOG	PUSH_ACK: 01 eadc 01 fffeb827eb59d368
0:01:17.160787	LOG	PUSH_DATA: Protocol version = 01, Token = eadc, Identifier = 00, JSON = {'rxpk': [{'tmst': 124390532, 'time': '2021-10-08T04:05:41.522922Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.2, 'rssi': -14, 'size': 15, 'data': 'QCAgICCASgABV1TxbsdZ'}]}
0:01:17.162786	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 004a, FOpts:), FPort: 01, FRMPayload: 0004, MIC: f16ec759)
0:01:17.167783	LOG	Server <---------- DUT
0:01:17.170781	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0008, FOpts:), FPort: 00, FRMPayload: 0500d2ad84), MIC: 43db5f00)
0:01:17.173780	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 126390532, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAACAAAwExHg9pD218A'}}
0:01:17.174781	LOG	Server ----------> DUT
0:01:22.328867	LOG	PUSH_ACK: 01 6b96 01 fffeb827eb59d368
0:01:22.330865	LOG	PUSH_DATA: Protocol version = 01, Token = 6b96, Identifier = 00, JSON = {'rxpk': [{'tmst': 129557020, 'time': '2021-10-08T04:05:46.693262Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -11, 'size': 17, 'data': 'QCAgICCCSwAFBwGcnDRPeIg='}]}
0:01:22.332864	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 004b, FOpts: 0507), FPort: 01, FRMPayload: 0004, MIC: 344f7888)
0:01:22.334863	LOG	Server <---------- DUT
0:01:22.335863	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:22.361848	LOG	Command Answer: 0507
0:01:22.379838	LOG	MAC command communication completed
0:01:22.383836	LOG	Send Test Command RxAppCntReq process starts
0:01:26.976241	LOG	PULL_DATA: 01 8f38 02 fffeb827eb59d368
0:01:26.977242	LOG	PULL_ACK: 01 8f38 04 fffeb827eb59d368
0:01:27.335037	LOG	PUSH_ACK: 01 5c2a 01 fffeb827eb59d368
0:01:27.337038	LOG	PUSH_DATA: Protocol version = 01, Token = 5c2a, Identifier = 00, JSON = {'rxpk': [{'tmst': 134559644, 'time': '2021-10-08T04:05:51.700269Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.2, 'rssi': -14, 'size': 17, 'data': 'QCAgICCCTAAFBwHaG4jUFWE='}]}
0:01:27.338038	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 004c, FOpts: 0507), FPort: 01, FRMPayload: 0004, MIC: 88d41561)
0:01:27.340035	LOG	Server <---------- DUT
0:01:27.341034	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0009, FOpts:), FPort: e0, FRMPayload: 09), MIC: 65e1e7e5)
0:01:27.343035	LOG	Frame command sent to the DUT
0:01:27.345034	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 136559644, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAACQDgTGXh5+U='}}
0:01:27.346032	LOG	Server ----------> DUT
0:01:32.334218	LOG	PUSH_ACK: 01 ecb0 01 fffeb827eb59d368
0:01:32.346207	LOG	PUSH_DATA: Protocol version = 01, Token = ecb0, Identifier = 00, JSON = {'rxpk': [{'tmst': 139565180, 'time': '2021-10-08T04:05:56.698157Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -11, 'size': 16, 'data': 'QCAgICCATQDg31y2uLheOA=='}]}
0:01:32.349206	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 004d, FOpts:), FPort: e0, FRMPayload: 090500, MIC: b8b85e38)

0:01:32.351205	LOG	Server <---------- DUT
0:01:32.352204	LOG	Answer in payload: 0500
0:01:32.353204	LOG	Frame Command Payload in the Answer: 090500
0:01:32.357201	LOG	RX Count received by DUT: 5
0:01:32.359200	LOG	Send Test Command RxAppCntReq process completed
0:01:32.362214	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:01:37.146493	LOG	PULL_DATA: 01 3bfb 02 fffeb827eb59d368
0:01:37.148492	LOG	PULL_ACK: 01 3bfb 04 fffeb827eb59d368
0:01:37.171479	LOG	PUSH_ACK: 01 32af 01 fffeb827eb59d368
0:01:37.174479	LOG	PUSH_DATA: Protocol version = 01, Token = 32af, Identifier = 00, JSON = {'rxpk': [{'tmst': 144401004, 'time': '2021-10-08T04:06:01.535804Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -13, 'size': 15, 'data': 'QCAgICCATgABz1NO3EkV'}]}
0:01:37.175477	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 004e, FOpts:), FPort: 01, FRMPayload: 0005, MIC: 4edc4915)
0:01:37.177475	LOG	Server <---------- DUT
0:01:37.179476	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 000a, FOpts:), FPort: e0, FRMPayload: 0500), MIC: a1416a8a)
0:01:37.181474	LOG	Frame command sent to the DUT
0:01:37.183472	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 146401004, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAACgDgLu6hQWqK'}}
0:01:37.185471	LOG	Server ----------> DUT
0:01:37.189469	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:01:37.199464	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:42.172653	LOG	PUSH_ACK: 01 3c54 01 fffeb827eb59d368
0:01:42.174652	LOG	PUSH_DATA: Protocol version = 01, Token = 3c54, Identifier = 00, JSON = {'rxpk': [{'tmst': 149403644, 'time': '2021-10-08T04:06:06.536947Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.2, 'rssi': -11, 'size': 15, 'data': 'QCAgICCATwABQlhrdwgj'}]}
0:01:42.176650	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 004f, FOpts:), FPort: 01, FRMPayload: 0006, MIC: 6b770823)
0:01:42.178650	LOG	Server <---------- DUT
0:01:42.180648	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 000b, FOpts:), FPort: e0, FRMPayload: 0700), MIC: a8ce6295)
0:01:42.183647	LOG	Frame command sent to the DUT
0:01:42.185646	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 150403644, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAACwDgqwqozmKV'}}
0:01:42.187644	LOG	Server ----------> DUT
0:01:42.191642	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:42.195640	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:47.173826	LOG	PUSH_ACK: 01 ec18 01 fffeb827eb59d368
0:01:47.176825	LOG	PUSH_DATA: Protocol version = 01, Token = ec18, Identifier = 00, JSON = {'rxpk': [{'tmst': 154406244, 'time': '2021-10-08T04:06:11.538874Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.0, 'rssi': -13, 'size': 15, 'data': 'QCAgICCAUAAB9FNqgJPx'}]}
0:01:47.178824	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0050, FOpts:), FPort: 01, FRMPayload: 0007, MIC: 6a8093f1)
0:01:47.180823	LOG	Server <---------- DUT
0:01:47.182822	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 000c, FOpts:), FPort: e0, FRMPayload: 0700), MIC: a175c72e)
0:01:47.186819	LOG	Frame command sent to the DUT

0:01:47.188818	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 155406244, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAADADgiPOhdccu'}}
0:01:47.190817	LOG	Server ----------> DUT
0:01:47.199812	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:47.205809	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:52.180996	LOG	PUSH_ACK: 01 021a 01 fffeb827eb59d368
0:01:52.182996	LOG	PUSH_DATA: Protocol version = 01, Token = 021a, Identifier = 00, JSON = {'rxpk': [{'tmst': 159408844, 'time': '2021-10-08T04:06:16.546419Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.0, 'rssi': -12, 'size': 15, 'data': 'QCAgICCAUQABVRyD/3nw'}]}
0:01:52.184995	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0051, FOpts:), FPort: 01, FRMPayload: 0008, MIC: 83ff79f0)
0:01:52.185996	LOG	Server <---------- DUT
0:01:52.187995	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 000d, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 59341415)
0:01:52.189992	LOG	Frame command sent to the DUT
0:01:52.190993	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 160408844, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAADQDg9wpZNBQV'}}
0:01:52.191992	LOG	Server ----------> DUT
0:01:52.194989	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:52.196988	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:57.179172	LOG	PUSH_ACK: 01 fe43 01 fffeb827eb59d368
0:01:57.181171	LOG	PUSH_DATA: Protocol version = 01, Token = fe43, Identifier = 00, JSON = {'rxpk': [{'tmst': 164411444, 'time': '2021-10-08T04:06:21.543884Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 7.8, 'rssi': -13, 'size': 15, 'data': 'QCAgICCAUgABliEK+lCo'}]}
0:01:57.183170	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0052, FOpts:), FPort: 01, FRMPayload: 0009, MIC: 0afa50a8)
0:01:57.185169	LOG	Server <---------- DUT
0:01:57.187168	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 000e, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 55fc77ed)
0:01:57.189167	LOG	Frame command sent to the DUT
0:01:57.191167	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 165411444, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAADgDgwYZV/Hft'}}
0:01:57.192167	LOG	Server ----------> DUT
0:01:57.195165	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:57.207159	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:02.186343	LOG	PUSH_ACK: 01 aa3a 01 fffeb827eb59d368
0:02:02.188341	LOG	PUSH_DATA: Protocol version = 01, Token = aa3a, Identifier = 00, JSON = {'rxpk': [{'tmst': 169414052, 'time': '2021-10-08T04:06:26.551305Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -11, 'size': 15, 'data': 'QCAgICCAUwABfbRtpNTu'}]}
0:02:02.190343	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0053, FOpts:), FPort: 01, FRMPayload: 000a, MIC: 6da4d4ee)
0:02:02.191342	LOG	Server <---------- DUT
0:02:02.193340	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 000f, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: def7df90)
0:02:02.195340	LOG	Frame command sent to the DUT

0:02:02.196339	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 170414052, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'oCAgICAADwDgjOezyy3zksLsSkbDAWYCu/0E1Ho55vuC/jyF4ZyHWM40v3rIxmExC8LDXHehFewshOAm3vffkA=='}}
0:02:02.197338	LOG	Server ----------> DUT
0:02:02.202335	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:02.205332	LOG	Check previous uplink data rate process starts
0:02:02.211329	LOG	Uplink received with expected Data Rate
0:02:02.216326	LOG	Check ACK bit in next uplink starts
0:02:07.205506	LOG	PUSH_ACK: 01 fb29 01 fffeb827eb59d368
0:02:07.209504	LOG	PUSH_DATA: Protocol version = 01, Token = fb29, Identifier = 00, JSON = {'rxpk': [{'tmst': 174430604, 'time': '2021-10-08T04:06:31.570964Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -15, 'size': 15, 'data': 'QCAgICCgVAABSNJGgOjH'}]}
0:02:07.211503	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: a0, FCnt: 0054, FOpts:), FPort: 01, FRMPayload: 000b, MIC: 4680e8c7)
0:02:07.212503	LOG	Server <---------- DUT
0:02:07.215501	LOG	Check ACK bit in next uplink tested successfully
0:02:07.223496	LOG	Send Test Command RxAppCntReq process starts
0:02:07.395398	LOG	PULL_DATA: 01 d1e6 02 fffeb827eb59d368
0:02:07.397398	LOG	PULL_ACK: 01 d1e6 04 fffeb827eb59d368
0:02:12.204682	LOG	PUSH_ACK: 01 053c 01 fffeb827eb59d368
0:02:12.205681	LOG	PUSH_DATA: Protocol version = 01, Token = 053c, Identifier = 00, JSON = {'rxpk': [{'tmst': 179433180, 'time': '2021-10-08T04:06:36.569310Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -11, 'size': 15, 'data': 'QCAgICCAVQAB8IPo6HmB'}]}
0:02:12.207681	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0055, FOpts:), FPort: 01, FRMPayload: 000b, MIC: e8e87981)
0:02:12.208680	LOG	Server <---------- DUT
0:02:12.210679	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0010, FOpts:), FPort: e0, FRMPayload: 09), MIC: 27abe032)
0:02:12.212677	LOG	Frame command sent to the DUT
0:02:12.214676	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 181433180, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAAEADgPyer4DI='}}
0:02:12.216675	LOG	Server ----------> DUT
0:02:17.374760	LOG	PUSH_ACK: 01 7c94 01 fffeb827eb59d368
0:02:17.379757	LOG	PUSH_DATA: Protocol version = 01, Token = 7c94, Identifier = 00, JSON = {'rxpk': [{'tmst': 184602604, 'time': '2021-10-08T04:06:41.739177Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -12, 'size': 16, 'data': 'QCAgICCAVgDgwvaa3AuDTQ=='}]}
0:02:17.380758	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0056, FOpts:), FPort: e0, FRMPayload: 090c00, MIC: dc0b834d)
0:02:17.382755	LOG	Server <---------- DUT
0:02:17.383755	LOG	Answer in payload: 0c00
0:02:17.384755	LOG	Frame Command Payload in the Answer: 090c00
0:02:17.390750	LOG	RX Count received by DUT: 12
0:02:17.393749	LOG	Send Test Command RxAppCntReq process completed
0:02:17.402745	LOG	Send RXParamSetupReq process starts
0:02:17.415736	LOG	PULL_DATA: 01 75d8 02 fffeb827eb59d368
0:02:17.417736	LOG	PULL_ACK: 01 75d8 04 fffeb827eb59d368
0:02:22.210027	LOG	PUSH_ACK: 01 be61 01 fffeb827eb59d368

0:02:22.212026	LOG	PUSH_DATA: Protocol version = 01, Token = be61, Identifier = 00, JSON = {'rxpk': [{'tmst': 189438420, 'time': '2021-10-08T04:06:46.574809Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 7.8, 'rssi': -11, 'size': 15, 'data': 'QCAgICCAVwABzlrDGIeq'}]}
0:02:22.213027	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0057, FOpts:), FPort: 01, FRMPayload: 000c, MIC: c31887aa)
0:02:22.214027	LOG	Server <---------- DUT
0:02:22.217024	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0011, FOpts:), FPort: 00, FRMPayload: 0510d2ad84), MIC: 9317861c)
0:02:22.220022	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 191438420, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAEQAAGvOTyPWTF4Yc'}}
0:02:22.222020	LOG	Server ----------> DUT
0:02:27.379106	LOG	PUSH_ACK: 01 89f9 01 fffeb827eb59d368
0:02:27.381105	LOG	PUSH_DATA: Protocol version = 01, Token = 89f9, Identifier = 00, JSON = {'rxpk': [{'tmst': 194604900, 'time': '2021-10-08T04:06:51.744068Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -11, 'size': 17, 'data': 'QCAgICCCWAAFBwH/eDX7J2U='}]}
0:02:27.382106	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0058, FOpts: 0507), FPort: 01, FRMPayload: 000c, MIC: 35fb2765)
0:02:27.384103	LOG	Server <---------- DUT
0:02:27.385103	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:27.387101	LOG	Command Answer: 0507
0:02:27.398097	LOG	MAC command communication completed
0:02:27.401095	LOG	Send Test Command RxAppCntReq process starts
0:02:27.615519	LOG	PULL_DATA: 01 5cbb 02 fffeb827eb59d368
0:02:27.617518	LOG	PULL_ACK: 01 5cbb 04 fffeb827eb59d368
0:02:32.374903	LOG	PUSH_ACK: 01 a899 01 fffeb827eb59d368
0:02:32.376901	LOG	PUSH_DATA: Protocol version = 01, Token = a899, Identifier = 00, JSON = {'rxpk': [{'tmst': 199607532, 'time': '2021-10-08T04:06:56.739986Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -11, 'size': 17, 'data': 'QCAgICCCWQAFBwF5trxRvZE='}]}
0:02:32.378901	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0059, FOpts: 0507), FPort: 01, FRMPayload: 000c, MIC: bc51bd91)
0:02:32.380899	LOG	Server <---------- DUT
0:02:32.382898	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0012, FOpts:), FPort: e0, FRMPayload: 09), MIC: cda0c264)
0:02:32.385896	LOG	Frame command sent to the DUT
0:02:32.387895	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 201607532, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAAEgDg1s2gwmQ='}}
0:02:32.388894	LOG	Server ----------> DUT
0:02:37.387480	LOG	PUSH_ACK: 01 0f95 01 fffeb827eb59d368
0:02:37.392474	LOG	PUSH_DATA: Protocol version = 01, Token = 0f95, Identifier = 00, JSON = {'rxpk': [{'tmst': 204613092, 'time': '2021-10-08T04:07:01.752013Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -12, 'size': 16, 'data': 'QCAgICCAWgDg1LDDhw4xXg=='}]}
0:02:37.393472	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 005a, FOpts:), FPort: e0, FRMPayload: 090d00, MIC: 870e315e)
0:02:37.395472	LOG	Server <---------- DUT
0:02:37.396471	LOG	Answer in payload: 0d00
0:02:37.397471	LOG	Frame Command Payload in the Answer: 090d00
0:02:37.402466	LOG	RX Count received by DUT: 13

0:02:37.405464	LOG	Send Test Command RxAppCntReq process completed
0:02:37.409462	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:02:37.786249	LOG	PULL_DATA: 01 b1eb 02 fffeb827eb59d368
0:02:37.788248	LOG	PULL_ACK: 01 b1eb 04 fffeb827eb59d368
0:02:42.224742	LOG	PUSH_ACK: 01 f1b3 01 fffeb827eb59d368
0:02:42.226741	LOG	PUSH_DATA: Protocol version = 01, Token = f1b3, Identifier = 00, JSON = {'rxpk': [{'tmst': 209448916, 'time': '2021-10-08T04:07:06.590051Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -11, 'size': 15, 'data': 'QCAgICCAWwABAkGD4Enb'}]}
0:02:42.227741	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 005b, FOpts:), FPort: 01, FRMPayload: 000d, MIC: 83e049db)
0:02:42.229738	LOG	Server <---------- DUT
0:02:42.230739	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0013, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 28bf8723)
0:02:42.233736	LOG	Frame command sent to the DUT
0:02:42.234736	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 211448916, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAEwDgeYYov4cj'}}
0:02:42.236734	LOG	Server ----------> DUT
0:02:42.239732	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:02:42.245729	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:47.219918	LOG	PUSH_ACK: 01 05ef 01 fffeb827eb59d368
0:02:47.221918	LOG	PUSH_DATA: Protocol version = 01, Token = 05ef, Identifier = 00, JSON = {'rxpk': [{'tmst': 214451532, 'time': '2021-10-08T04:07:11.585318Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -13, 'size': 15, 'data': 'QCAgICCAXAABDnuZoq8O'}]}
0:02:47.223916	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 005c, FOpts:), FPort: 01, FRMPayload: 000e, MIC: 99a2af0e)
0:02:47.224915	LOG	Server <---------- DUT
0:02:47.225917	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0014, FOpts:), FPort: e0, FRMPayload: 0700), MIC: abbdaaa3)
0:02:47.227915	LOG	Frame command sent to the DUT
0:02:47.229912	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 215451532, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAFADgESKrvaqj'}}
0:02:47.231911	LOG	Server ----------> DUT
0:02:47.235909	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:47.239907	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:47.835570	LOG	PULL_DATA: 01 f700 02 fffeb827eb59d368
0:02:47.837569	LOG	PULL_ACK: 01 f700 04 fffeb827eb59d368
0:02:52.226090	LOG	PUSH_ACK: 01 e9a1 01 fffeb827eb59d368
0:02:52.228088	LOG	PUSH_DATA: Protocol version = 01, Token = e9a1, Identifier = 00, JSON = {'rxpk': [{'tmst': 219454164, 'time': '2021-10-08T04:07:16.590777Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -12, 'size': 15, 'data': 'QCAgICCAXQABMs4OuBbG'}]}
0:02:52.230087	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 005d, FOpts:), FPort: 01, FRMPayload: 000f, MIC: 0eb816c6)
0:02:52.231088	LOG	Server <---------- DUT
0:02:52.232087	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0015, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 8d8f2ec9)
0:02:52.235085	LOG	Frame command sent to the DUT
0:02:52.237083	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 220454164, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAFQDgHKCNjy7J'}}
0:02:52.239082	LOG	Server ----------> DUT
0:02:52.242080	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:52.247077	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:57.226264	LOG	PUSH_ACK: 01 3ae5 01 fffeb827eb59d368
0:02:57.228262	LOG	PUSH_DATA: Protocol version = 01, Token = 3ae5, Identifier = 00, JSON = {'rxpk': [{'tmst': 224456756, 'time': '2021-10-08T04:07:21.590685Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -13, 'size': 15, 'data': 'QCAgICCAXgABfSFLeXu1'}]}
0:02:57.230261	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 005e, FOpts:), FPort: 01, FRMPayload: 0010, MIC: 4b797bb5)
0:02:57.231262	LOG	Server <---------- DUT
0:02:57.233261	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0016, FOpts:), FPort: e0, FRMPayload: 0700), MIC: f5d41dcf)
0:02:57.235260	LOG	Frame command sent to the DUT
0:02:57.238257	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 225456756, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAFgDg42L11B3P'}}
0:02:57.239256	LOG	Server ----------> DUT
0:02:57.242254	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:57.246252	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:58.035889	LOG	PULL_DATA: 01 ca0b 02 fffeb827eb59d368
0:02:58.037889	LOG	PULL_ACK: 01 ca0b 04 fffeb827eb59d368
0:03:02.232572	LOG	PUSH_ACK: 01 cbd0 01 fffeb827eb59d368
0:03:02.234571	LOG	PUSH_DATA: Protocol version = 01, Token = cbd0, Identifier = 00, JSON = {'rxpk': [{'tmst': 229459364, 'time': '2021-10-08T04:07:26.597632Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.0, 'rssi': -11, 'size': 15, 'data': 'QCAgICCAXwABPfsFW9Ie'}]}
0:03:02.235570	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 005f, FOpts:), FPort: 01, FRMPayload: 0011, MIC: 055bd21e)
0:03:02.236570	LOG	Server <---------- DUT
0:03:02.238569	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0017, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 1e277385)
0:03:02.240568	LOG	Frame command sent to the DUT
0:03:02.241567	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 230459364, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAFwDggugeJ3OF'}}
0:03:02.242567	LOG	Server ----------> DUT
0:03:02.245565	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:02.253561	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:07.229740	LOG	PUSH_ACK: 01 4847 01 fffeb827eb59d368
0:03:07.231739	LOG	PUSH_DATA: Protocol version = 01, Token = 4847, Identifier = 00, JSON = {'rxpk': [{'tmst': 234461972, 'time': '2021-10-08T04:07:31.594395Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -14, 'size': 15, 'data': 'QCAgICCAYAABUyll2SxC'}]}
0:03:07.232738	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0060, FOpts:), FPort: 01, FRMPayload: 0012, MIC: 65d92c42)
0:03:07.233736	LOG	Server <---------- DUT
0:03:07.235736	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0018, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 3a7e3021)
0:03:07.238734	LOG	Frame command sent to the DUT

0:03:07.240732	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 235461972, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'oCAgICAAGADg4nWXKEkN3uCjE7CUe08E3tv/XP0he0qOTTW3ehTyw0vv0WiHeKjCRK4H20T7CLrwAUJYOn4wIQ=='}}
0:03:07.241732	LOG	Server ----------> DUT
0:03:07.245731	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:07.249727	LOG	Check previous uplink data rate process starts
0:03:07.256724	LOG	Uplink received with expected Data Rate
0:03:07.260721	LOG	Check ACK bit in next uplink starts
0:03:08.046277	LOG	PULL_DATA: 01 64bd 02 fffeb827eb59d368
0:03:08.050275	LOG	PULL_ACK: 01 64bd 04 fffeb827eb59d368
0:03:12.246905	LOG	PUSH_ACK: 01 1f23 01 fffeb827eb59d368
0:03:12.247903	LOG	PUSH_DATA: Protocol version = 01, Token = 1f23, Identifier = 00, JSON = {'rxpk': [{'tmst': 239478532, 'time': '2021-10-08T04:07:36.611313Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -13, 'size': 15, 'data': 'QCAgICCgYQABWBUSPP6J'}]}
0:03:12.249902	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: a0, FCnt: 0061, FOpts:), FPort: 01, FRMPayload: 0013, MIC: 123cfe89)
0:03:12.250903	LOG	Server <---------- DUT
0:03:12.255899	LOG	Check ACK bit in next uplink tested successfully
0:03:12.262896	LOG	Send Test Command RxAppCntReq process starts
0:03:17.253241	LOG	PUSH_ACK: 01 1ea8 01 fffeb827eb59d368
0:03:17.258238	LOG	PUSH_DATA: Protocol version = 01, Token = 1ea8, Identifier = 00, JSON = {'rxpk': [{'tmst': 244481116, 'time': '2021-10-08T04:07:41.617766Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -15, 'size': 15, 'data': 'QCAgICCAYgABJ6Jm2sqN'}]}
0:03:17.260237	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0062, FOpts:), FPort: 01, FRMPayload: 0013, MIC: 66daca8d)
0:03:17.262236	LOG	Server <---------- DUT
0:03:17.264236	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0019, FOpts:), FPort: e0, FRMPayload: 09), MIC: e480e2cf)
0:03:17.266234	LOG	Frame command sent to the DUT
0:03:17.268232	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 246481116, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAAGQDga+SA4s8='}}
0:03:17.269233	LOG	Server ----------> DUT
0:03:18.065782	LOG	PULL_DATA: 01 1c7b 02 fffeb827eb59d368
0:03:18.067781	LOG	PULL_ACK: 01 1c7b 04 fffeb827eb59d368
0:03:22.427317	LOG	PUSH_ACK: 01 64c5 01 fffeb827eb59d368
0:03:22.429318	LOG	PUSH_DATA: Protocol version = 01, Token = 64c5, Identifier = 00, JSON = {'rxpk': [{'tmst': 249650532, 'time': '2021-10-08T04:07:46.792610Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.0, 'rssi': -11, 'size': 16, 'data': 'QCAgICCAYwDggjTRdvHsUg=='}]}
0:03:22.431315	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0063, FOpts:), FPort: e0, FRMPayload: 091400, MIC: 76f1ec52)
0:03:22.432314	LOG	Server <---------- DUT
0:03:22.434313	LOG	Answer in payload: 1400
0:03:22.436313	LOG	Frame Command Payload in the Answer: 091400
0:03:22.440311	LOG	RX Count received by DUT: 20
0:03:22.443308	LOG	Send Test Command RxAppCntReq process completed
0:03:22.451303	LOG	Send RXParamSetupReq process starts
0:03:27.261585	LOG	PUSH_ACK: 01 1473 01 fffeb827eb59d368

0:03:27.263584	LOG	PUSH_DATA: Protocol version = 01, Token = 1473, Identifier = 00, JSON = {'rxpk': [{'tmst': 254486436, 'time': '2021-10-08T04:07:51.626493Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 7.8, 'rssi': -14, 'size': 15, 'data': 'QCAgICCAZAABQp+boEMw'}]}
0:03:27.265583	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0064, FOpts:), FPort: 01, FRMPayload: 0014, MIC: 9ba04330)
0:03:27.266582	LOG	Server <---------- DUT
0:03:27.268581	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 001a, FOpts:), FPort: 00, FRMPayload: 0520d2ad84), MIC: 4f340546)
0:03:27.270580	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 256486436, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAGgAA86RCOWhPNAVG'}}
0:03:27.272579	LOG	Server ----------> DUT
0:03:28.076125	LOG	PULL_DATA: 01 5ac5 02 fffeb827eb59d368
0:03:28.078124	LOG	PULL_ACK: 01 5ac5 04 fffeb827eb59d368
0:03:32.425669	LOG	PUSH_ACK: 01 5e4b 01 fffeb827eb59d368
0:03:32.427667	LOG	PUSH_DATA: Protocol version = 01, Token = 5e4b, Identifier = 00, JSON = {'rxpk': [{'tmst': 259652916, 'time': '2021-10-08T04:07:56.790368Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -13, 'size': 17, 'data': 'QCAgICCCZQAFBwHNJFQiN+4='}]}
0:03:32.430666	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0065, FOpts: 0507), FPort: 01, FRMPayload: 0014, MIC: 542237ee)
0:03:32.434663	LOG	Server <---------- DUT
0:03:32.439661	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:03:32.442657	LOG	Command Answer: 0507
0:03:32.460647	LOG	MAC command communication completed
0:03:32.463645	LOG	Send Test Command RxAppCntReq process starts
0:03:37.431843	LOG	PUSH_ACK: 01 7963 01 fffeb827eb59d368
0:03:37.435837	LOG	PUSH_DATA: Protocol version = 01, Token = 7963, Identifier = 00, JSON = {'rxpk': [{'tmst': 264655524, 'time': '2021-10-08T04:08:01.795939Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 7.8, 'rssi': -14, 'size': 17, 'data': 'QCAgICCCZgAFBwHNMYFi8CU='}]}
0:03:37.439834	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0066, FOpts: 0507), FPort: 01, FRMPayload: 0014, MIC: 8162f025)
0:03:37.442834	LOG	Server <---------- DUT
0:03:37.446831	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 001b, FOpts:), FPort: e0, FRMPayload: 09), MIC: 996762bb)
0:03:37.451827	LOG	Frame command sent to the DUT
0:03:37.452827	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 266655524, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAAGwDgcZlnYrs='}}
0:03:37.453826	LOG	Server ----------> DUT
0:03:38.256441	LOG	PULL_DATA: 01 3b70 02 fffeb827eb59d368
0:03:38.259439	LOG	PULL_ACK: 01 3b70 04 fffeb827eb59d368
0:03:42.431137	LOG	PUSH_ACK: 01 6424 01 fffeb827eb59d368
0:03:42.434135	LOG	PUSH_DATA: Protocol version = 01, Token = 6424, Identifier = 00, JSON = {'rxpk': [{'tmst': 269661068, 'time': '2021-10-08T04:08:06.795636Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -11, 'size': 16, 'data': 'QCAgICCAZwDgpWIQISZzUQ=='}]}
0:03:42.436133	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0067, FOpts:), FPort: e0, FRMPayload: 091500, MIC: 21267351)
0:03:42.440131	LOG	Server <---------- DUT
0:03:42.442131	LOG	Answer in payload: 1500

0:03:42.443129	LOG	Frame Command Payload in the Answer: 091500
0:03:42.450126	LOG	RX Count received by DUT: 21
0:03:42.457122	LOG	Send Test Command RxAppCntReq process completed
0:03:42.462119	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:03:47.267403	LOG	PUSH_ACK: 01 119e 01 fffeb827eb59d368
0:03:47.269403	LOG	PUSH_DATA: Protocol version = 01, Token = 119e, Identifier = 00, JSON = {'rxpk': [{'tmst': 274496900, 'time': '2021-10-08T04:08:11.632666Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -14, 'size': 15, 'data': 'QCAgICCAaAABmt3P6txz'}]}
0:03:47.271401	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0068, FOpts:), FPort: 01, FRMPayload: 0015, MIC: cfeadc73)
0:03:47.274400	LOG	Server <---------- DUT
0:03:47.278399	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 001c, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 97333513)
0:03:47.284394	LOG	Frame command sent to the DUT
0:03:47.288392	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 276496900, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAHADg3NiXMzUT'}}
0:03:47.291390	LOG	Server ----------> DUT
0:03:47.295388	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:03:47.300387	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:48.285943	LOG	PULL_DATA: 01 09dc 02 fffeb827eb59d368
0:03:48.287941	LOG	PULL_ACK: 01 09dc 04 fffeb827eb59d368
0:03:52.268663	LOG	PUSH_ACK: 01 aad4 01 fffeb827eb59d368
0:03:52.271691	LOG	PUSH_DATA: Protocol version = 01, Token = aad4, Identifier = 00, JSON = {'rxpk': [{'tmst': 279499508, 'time': '2021-10-08T04:08:16.633618Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -11, 'size': 15, 'data': 'QCAgICCAaQABiBsW4Uku'}]}
0:03:52.272688	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0069, FOpts:), FPort: 01, FRMPayload: 0016, MIC: 16e1492e)
0:03:52.273687	LOG	Server <---------- DUT
0:03:52.275689	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 001d, FOpts:), FPort: e0, FRMPayload: 0700), MIC: f3c69703)
0:03:52.277685	LOG	Frame command sent to the DUT
0:03:52.278685	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 280499508, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAHQDgN5jzxpcD'}}
0:03:52.279684	LOG	Server ----------> DUT
0:03:52.282684	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:52.285684	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:57.276927	LOG	PUSH_ACK: 01 acf2 01 fffeb827eb59d368
0:03:57.280922	LOG	PUSH_DATA: Protocol version = 01, Token = acf2, Identifier = 00, JSON = {'rxpk': [{'tmst': 284502116, 'time': '2021-10-08T04:08:21.641465Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -14, 'size': 15, 'data': 'QCAgICCAagABBuIvDBwc'}]}
0:03:57.281921	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 006a, FOpts:), FPort: 01, FRMPayload: 0017, MIC: 2f0c1c1c)
0:03:57.282921	LOG	Server <---------- DUT
0:03:57.284920	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 001e, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 7c5eb697)
0:03:57.286919	LOG	Frame command sent to the DUT
0:03:57.288918	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 285502116, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAHgDgxid8XraX'}}
0:03:57.290917	LOG	Server ----------> DUT
0:03:57.294914	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:57.299911	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:58.486241	LOG	PULL_DATA: 01 1b10 02 fffeb827eb59d368
0:03:58.487240	LOG	PULL_ACK: 01 1b10 04 fffeb827eb59d368
0:04:02.274100	LOG	PUSH_ACK: 01 af3b 01 fffeb827eb59d368
0:04:02.276099	LOG	PUSH_DATA: Protocol version = 01, Token = af3b, Identifier = 00, JSON = {'rxpk': [{'tmst': 289504724, 'time': '2021-10-08T04:08:26.638774Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -11, 'size': 15, 'data': 'QCAgICCAawABROHqEKKn'}]}
0:04:02.278098	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 006b, FOpts:), FPort: 01, FRMPayload: 0018, MIC: ea10a2a7)
0:04:02.281096	LOG	Server <---------- DUT
0:04:02.285094	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 001f, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 46f1ae03)
0:04:02.291097	LOG	Frame command sent to the DUT
0:04:02.293091	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 290504724, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAHwDguLRG8a4D'}}
0:04:02.294090	LOG	Server ----------> DUT
0:04:02.299087	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:02.304085	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:07.279283	LOG	PUSH_ACK: 01 33cd 01 fffeb827eb59d368
0:04:07.281280	LOG	PUSH_DATA: Protocol version = 01, Token = 33cd, Identifier = 00, JSON = {'rxpk': [{'tmst': 294507316, 'time': '2021-10-08T04:08:31.644163Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -11, 'size': 15, 'data': 'QCAgICCAbAABz4DrbM1G'}]}
0:04:07.282281	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 006c, FOpts:), FPort: 01, FRMPayload: 0019, MIC: eb6ccd46)
0:04:07.284280	LOG	Server <---------- DUT
0:04:07.285278	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0020, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 46fde1d9)
0:04:07.288277	LOG	Frame command sent to the DUT
0:04:07.290276	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 295507316, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAIADgwm9G/eHZ'}}
0:04:07.292275	LOG	Server ----------> DUT
0:04:07.296273	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:07.306236	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:08.495595	LOG	PULL_DATA: 01 e350 02 fffeb827eb59d368
0:04:08.499593	LOG	PULL_ACK: 01 e350 04 fffeb827eb59d368
0:04:12.285454	LOG	PUSH_ACK: 01 4847 01 fffeb827eb59d368
0:04:12.287453	LOG	PUSH_DATA: Protocol version = 01, Token = 4847, Identifier = 00, JSON = {'rxpk': [{'tmst': 299509916, 'time': '2021-10-08T04:08:36.650131Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.0, 'rssi': -11, 'size': 15, 'data': 'QCAgICCAbQABvSbL9RjG'}]}
0:04:12.289450	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 006d, FOpts:), FPort: 01, FRMPayload: 001a, MIC: cbf518c6)
0:04:12.291450	LOG	Server <---------- DUT
0:04:12.293449	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0021, FOpts:), FPort: e0, FRMPayload:

		07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 3259fc41)
0:04:12.296447	LOG	Frame command sent to the DUT
0:04:12.298445	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 300509916, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'oCAgICAAIQDgFoKF0NAFSkzl9pdeOjvsBBbB/B6dpCDIBXloT96IrFYuBoAx0PaUz+dQIiftg7TpGriVMln8QQ=='}}
0:04:12.299446	LOG	Server ----------> DUT
0:04:12.302444	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:12.306441	LOG	Check previous uplink data rate process starts
0:04:12.313407	LOG	Uplink received with expected Data Rate
0:04:12.316405	LOG	Check ACK bit in next uplink starts
0:04:17.300359	LOG	PUSH_ACK: 01 155c 01 fffeb827eb59d368
0:04:17.303357	LOG	PUSH_DATA: Protocol version = 01, Token = 155c, Identifier = 00, JSON = {'rxpk': [{'tmst': 304526548, 'time': '2021-10-08T04:08:41.665153Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -14, 'size': 15, 'data': 'QCAgICCgbgABGShndYDm'}]}
0:04:17.304357	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: a0, FCnt: 006e, FOpts:), FPort: 01, FRMPayload: 001b, MIC: 677580e6)
0:04:17.306356	LOG	Server <---------- DUT
0:04:17.310354	LOG	Check ACK bit in next uplink tested successfully
0:04:17.320348	LOG	Send Test Command RxAppCntReq process starts
0:04:18.696570	LOG	PULL_DATA: 01 bb6f 02 fffeb827eb59d368
0:04:18.698569	LOG	PULL_ACK: 01 bb6f 04 fffeb827eb59d368
0:04:22.306530	LOG	PUSH_ACK: 01 2219 01 fffeb827eb59d368
0:04:22.308529	LOG	PUSH_DATA: Protocol version = 01, Token = 2219, Identifier = 00, JSON = {'rxpk': [{'tmst': 309529124, 'time': '2021-10-08T04:08:46.670811Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 7.5, 'rssi': -12, 'size': 15, 'data': 'QCAgICCAbwAB3xkhKCsh'}]}
0:04:22.310528	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 006f, FOpts:), FPort: 01, FRMPayload: 001b, MIC: 21282b21)
0:04:22.312527	LOG	Server <---------- DUT
0:04:22.314525	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0022, FOpts:), FPort: e0, FRMPayload: 09), MIC: eee5f246)
0:04:22.318523	LOG	Frame command sent to the DUT
0:04:22.322521	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 311529124, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAAIgDgbu7l8kY='}}
0:04:22.326519	LOG	Server ----------> DUT
0:04:27.467612	LOG	PUSH_ACK: 01 ba9b 01 fffeb827eb59d368
0:04:27.469612	LOG	PUSH_DATA: Protocol version = 01, Token = ba9b, Identifier = 00, JSON = {'rxpk': [{'tmst': 314698548, 'time': '2021-10-08T04:08:51.832734Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -13, 'size': 16, 'data': 'QCAgICCAcADg8xe4xaFHqg=='}]}
0:04:27.471612	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0070, FOpts:), FPort: e0, FRMPayload: 091c00, MIC: c5a147aa)
0:04:27.472610	LOG	Server <---------- DUT
0:04:27.473609	LOG	Answer in payload: 1c00
0:04:27.474611	LOG	Frame Command Payload in the Answer: 091c00
0:04:27.478608	LOG	RX Count received by DUT: 28
0:04:27.481605	LOG	Send Test Command RxAppCntReq process completed
0:04:27.488601	LOG	Send RXParamSetupReq process starts
0:04:28.725649	LOG	PULL_DATA: 01 0be1 02 fffeb827eb59d368

0:04:28.727647	LOG	PULL_ACK: 01 0be1 04 fffeb827eb59d368
0:04:32.311623	LOG	PUSH_ACK: 01 1a1c 01 fffeb827eb59d368
0:04:32.313622	LOG	PUSH_DATA: Protocol version = 01, Token = 1a1c, Identifier = 00, JSON = {'rxpk': [{'tmst': 319534388, 'time': '2021-10-08T04:08:56.676372Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 7.8, 'rssi': -12, 'size': 15, 'data': 'QCAgICCAcQABa1TD0gza'}]}
0:04:32.314622	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0071, FOpts:), FPort: 01, FRMPayload: 001c, MIC: c3d20cda)
0:04:32.316621	LOG	Server <---------- DUT
0:04:32.317619	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0023, FOpts:), FPort: 00, FRMPayload: 0530d2ad84), MIC: 0715b189)
0:04:32.319619	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 321534388, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAIwAAx08aDY4HFbGJ'}}
0:04:32.320619	LOG	Server ----------> DUT
0:04:37.473704	LOG	PUSH_ACK: 01 7f23 01 fffeb827eb59d368
0:04:37.476703	LOG	PUSH_DATA: Protocol version = 01, Token = 7f23, Identifier = 00, JSON = {'rxpk': [{'tmst': 324700876, 'time': '2021-10-08T04:09:01.838881Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -14, 'size': 17, 'data': 'QCAgICCCcgAFBwFWpGClFdA='}]}
0:04:37.478702	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0072, FOpts: 0507), FPort: 01, FRMPayload: 001c, MIC: 60a515d0)
0:04:37.479701	LOG	Server <---------- DUT
0:04:37.481700	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:04:37.483698	LOG	Command Answer: 0507
0:04:37.544664	LOG	MAC command communication completed
0:04:37.547663	LOG	Send Test Command RxAppCntReq process starts
0:04:38.915889	LOG	PULL_DATA: 01 f829 02 fffeb827eb59d368
0:04:38.919887	LOG	PULL_ACK: 01 f829 04 fffeb827eb59d368
0:04:42.479876	LOG	PUSH_ACK: 01 f8a4 01 fffeb827eb59d368
0:04:42.481875	LOG	PUSH_DATA: Protocol version = 01, Token = f8a4, Identifier = 00, JSON = {'rxpk': [{'tmst': 329703500, 'time': '2021-10-08T04:09:06.844141Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -11, 'size': 17, 'data': 'QCAgICCCcwAFBwEw+ejTAwY='}]}
0:04:42.482872	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0073, FOpts: 0507), FPort: 01, FRMPayload: 001c, MIC: e8d30306)
0:04:42.484873	LOG	Server <---------- DUT
0:04:42.485873	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0024, FOpts:), FPort: e0, FRMPayload: 09), MIC: 8ab3cc9d)
0:04:42.488870	LOG	Frame command sent to the DUT
0:04:42.490869	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 331703500, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAAJADgfIqzzJ0='}}
0:04:42.491870	LOG	Server ----------> DUT
0:04:47.482066	LOG	PUSH_ACK: 01 1b13 01 fffeb827eb59d368
0:04:47.484046	LOG	PUSH_DATA: Protocol version = 01, Token = 1b13, Identifier = 00, JSON = {'rxpk': [{'tmst': 334709060, 'time': '2021-10-08T04:09:11.847294Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -14, 'size': 16, 'data': 'QCAgICCAdADg+uvgtsG1nA=='}]}
0:04:47.486047	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0074, FOpts:), FPort: e0, FRMPayload: 091d00, MIC: b6c1b59c)
0:04:47.488045	LOG	Server <---------- DUT
0:04:47.490044	LOG	Answer in payload: 1d00

0:04:47.491043	LOG	Frame Command Payload in the Answer: 091d00
0:04:47.497039	LOG	RX Count received by DUT: 29
0:04:47.500037	LOG	Send Test Command RxAppCntReq process completed
0:04:47.503035	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:04:49.096136	LOG	PULL_DATA: 01 b5ca 02 fffeb827eb59d368
0:04:49.098134	LOG	PULL_ACK: 01 b5ca 04 fffeb827eb59d368
0:04:52.315316	LOG	PUSH_ACK: 01 4ee8 01 fffeb827eb59d368
0:04:52.318314	LOG	PUSH_DATA: Protocol version = 01, Token = 4ee8, Identifier = 00, JSON = {'rxpk': [{'tmst': 339544884, 'time': '2021-10-08T04:09:16.680291Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 7.2, 'rssi': -11, 'size': 15, 'data': 'QCAgICCAdQABOck3xwhU'}]}
0:04:52.320313	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0075, FOpts:), FPort: 01, FRMPayload: 001d, MIC: 37c70854)
0:04:52.322312	LOG	Server <---------- DUT
0:04:52.325310	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0025, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 23ca0c74)
0:04:52.328308	LOG	Frame command sent to the DUT
0:04:52.330307	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 341544884, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAJQDgjeYjygx0'}}
0:04:52.332306	LOG	Server ----------> DUT
0:04:52.345299	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:04:52.357292	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:57.322486	LOG	PUSH_ACK: 01 9832 01 fffeb827eb59d368
0:04:57.325484	LOG	PUSH_DATA: Protocol version = 01, Token = 9832, Identifier = 00, JSON = {'rxpk': [{'tmst': 344547500, 'time': '2021-10-08T04:09:21.687288Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -14, 'size': 15, 'data': 'QCAgICCAdgABMNE6dwra'}]}
0:04:57.326483	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0076, FOpts:), FPort: 01, FRMPayload: 001e, MIC: 3a770ada)
0:04:57.328482	LOG	Server <---------- DUT
0:04:57.330481	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0026, FOpts:), FPort: e0, FRMPayload: 0700), MIC: ae165ed5)
0:04:57.333479	LOG	Frame command sent to the DUT
0:04:57.334479	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 345547500, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAJgDgsteuFl7V'}}
0:04:57.336477	LOG	Server ----------> DUT
0:04:57.340475	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:57.344473	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:59.136344	LOG	PULL_DATA: 01 38e0 02 fffeb827eb59d368
0:04:59.138343	LOG	PULL_ACK: 01 38e0 04 fffeb827eb59d368
0:05:02.324543	LOG	PUSH_ACK: 01 794d 01 fffeb827eb59d368
0:05:02.327540	LOG	PUSH_DATA: Protocol version = 01, Token = 794d, Identifier = 00, JSON = {'rxpk': [{'tmst': 349550100, 'time': '2021-10-08T04:09:26.689467Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -11, 'size': 15, 'data': 'QCAgICCAdwABsdzIr37F'}]}
0:05:02.329539	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0077, FOpts:), FPort: 01, FRMPayload: 001f, MIC: c8af7ec5)
0:05:02.331538	LOG	Server <---------- DUT
0:05:02.333536	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0027, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 77382eb9)
0:05:02.335535	LOG	Frame command sent to the DUT

0:05:02.337533	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 350550100, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAJwDgP4l3OC65'}}
0:05:02.339532	LOG	Server ----------> DUT
0:05:02.349529	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:02.353496	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:07.321466	LOG	PUSH_ACK: 01 3d34 01 fffeb827eb59d368
0:05:07.323466	LOG	PUSH_DATA: Protocol version = 01, Token = 3d34, Identifier = 00, JSON = {'rxpk': [{'tmst': 354552708, 'time': '2021-10-08T04:09:31.685794Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.2, 'rssi': -11, 'size': 15, 'data': 'QCAgICCAeAABlmGK3A2L'}]}
0:05:07.324464	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0078, FOpts:), FPort: 01, FRMPayload: 0020, MIC: 8adc0d8b)
0:05:07.326463	LOG	Server <---------- DUT
0:05:07.328464	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0028, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 3ec96744)
0:05:07.330462	LOG	Frame command sent to the DUT
0:05:07.331462	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 355552708, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAKADg0OM+yWdE'}}
0:05:07.332461	LOG	Server ----------> DUT
0:05:07.336459	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:07.340456	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:09.336324	LOG	PULL_DATA: 01 bc5f 02 fffeb827eb59d368
0:05:09.340356	LOG	PULL_ACK: 01 bc5f 04 fffeb827eb59d368
0:05:12.327639	LOG	PUSH_ACK: 01 4e77 01 fffeb827eb59d368
0:05:12.332636	LOG	PUSH_DATA: Protocol version = 01, Token = 4e77, Identifier = 00, JSON = {'rxpk': [{'tmst': 359555308, 'time': '2021-10-08T04:09:36.692048Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.2, 'rssi': -12, 'size': 15, 'data': 'QCAgICCAeQAB+00Gh5UK'}]}
0:05:12.335632	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0079, FOpts:), FPort: 01, FRMPayload: 0021, MIC: 0687950a)
0:05:12.338629	LOG	Server <---------- DUT
0:05:12.341626	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0029, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 9e927091)
0:05:12.344624	LOG	Frame command sent to the DUT
0:05:12.346623	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 360555308, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAKQDg6GKeknCR'}}
0:05:12.348623	LOG	Server ----------> DUT
0:05:12.352620	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:12.364612	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:17.335905	LOG	PUSH_ACK: 01 facb 01 fffeb827eb59d368
0:05:17.338903	LOG	PUSH_DATA: Protocol version = 01, Token = facb, Identifier = 00, JSON = {'rxpk': [{'tmst': 364557900, 'time': '2021-10-08T04:09:41.700310Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -13, 'size': 15, 'data': 'QCAgICCAegABuSqKe+Fk'}]}
0:05:17.340902	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 007a, FOpts:), FPort: 01, FRMPayload: 0022, MIC: 8a7be164)
0:05:17.341901	LOG	Server <---------- DUT
0:05:17.344899	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 002a, FOpts:), FPort: e0, FRMPayload:

		07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: d5b8b2d4)
0:05:17.347898	LOG	Frame command sent to the DUT
0:05:17.349897	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 365557900, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'oCAgICAAKgDg6VOxZ75FjMyjvPkqcA08hmnWArGarLmRbEIXpGEYA5ufmR0Z2nrM5FlxRHxmAT9phmTw1biy1A=='}}
0:05:17.350896	LOG	Server ----------> DUT
0:05:17.361890	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:17.369886	LOG	Check previous uplink data rate process starts
0:05:17.378880	LOG	Uplink received with expected Data Rate
0:05:17.382878	LOG	Check ACK bit in next uplink starts
0:05:19.355935	LOG	PULL_DATA: 01 6c05 02 fffeb827eb59d368
0:05:19.357935	LOG	PULL_ACK: 01 6c05 04 fffeb827eb59d368
0:05:22.342246	LOG	PUSH_ACK: 01 ac86 01 fffeb827eb59d368
0:05:22.345245	LOG	PUSH_DATA: Protocol version = 01, Token = ac86, Identifier = 00, JSON = {'rxpk': [{'tmst': 369574516, 'time': '2021-10-08T04:09:46.707453Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -11, 'size': 15, 'data': 'QCAgICCgewABsk+rzIct'}]}
0:05:22.347244	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: a0, FCnt: 007b, FOpts:), FPort: 01, FRMPayload: 0023, MIC: abcc872d)
0:05:22.348243	LOG	Server <---------- DUT
0:05:22.352241	LOG	Check ACK bit in next uplink tested successfully
0:05:22.367232	LOG	Send Test Command RxAppCntReq process starts
0:05:27.349418	LOG	PUSH_ACK: 01 212b 01 fffeb827eb59d368
0:05:27.351416	LOG	PUSH_DATA: Protocol version = 01, Token = 212b, Identifier = 00, JSON = {'rxpk': [{'tmst': 374577092, 'time': '2021-10-08T04:09:51.713772Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 7.8, 'rssi': -13, 'size': 15, 'data': 'QCAgICCAfAABR49r3P4Y'}]}
0:05:27.353414	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 007c, FOpts:), FPort: 01, FRMPayload: 0023, MIC: 6bdcfe18)
0:05:27.354413	LOG	Server <---------- DUT
0:05:27.357412	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 002b, FOpts:), FPort: e0, FRMPayload: 09), MIC: 789fb463)
0:05:27.360410	LOG	Frame command sent to the DUT
0:05:27.362409	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 376577092, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAAKwDgi3iftGM='}}
0:05:27.363408	LOG	Server ----------> DUT
0:05:29.366278	LOG	PULL_DATA: 01 aa1a 02 fffeb827eb59d368
0:05:29.367276	LOG	PULL_ACK: 01 aa1a 04 fffeb827eb59d368
0:05:32.521493	LOG	PUSH_ACK: 01 55a2 01 fffeb827eb59d368
0:05:32.523492	LOG	PUSH_DATA: Protocol version = 01, Token = 55a2, Identifier = 00, JSON = {'rxpk': [{'tmst': 379746500, 'time': '2021-10-08T04:09:56.885941Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -12, 'size': 16, 'data': 'QCAgICCAfQDgjbVj530Eow=='}]}
0:05:32.525490	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 007d, FOpts:), FPort: e0, FRMPayload: 092400, MIC: e77d04a3)
0:05:32.527490	LOG	Server <---------- DUT
0:05:32.528489	LOG	Answer in payload: 2400
0:05:32.530488	LOG	Frame Command Payload in the Answer: 092400
0:05:32.535485	LOG	RX Count received by DUT: 36
0:05:32.538484	LOG	Send Test Command RxAppCntReq process completed

0:05:32.544482	LOG	Send RXParamSetupReq process starts
0:05:37.355760	LOG	PUSH_ACK: 01 be70 01 fffeb827eb59d368
0:05:37.357760	LOG	PUSH_DATA: Protocol version = 01, Token = be70, Identifier = 00, JSON = {'rxpk': [{'tmst': 384582300, 'time': '2021-10-08T04:10:01.720489Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 7.5, 'rssi': -13, 'size': 15, 'data': 'QCAgICCAfgAB35hoU1mt'}]}
0:05:37.359758	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 007e, FOpts:), FPort: 01, FRMPayload: 0024, MIC: 685359ad)
0:05:37.361757	LOG	Server <---------- DUT
0:05:37.363756	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 002c, FOpts:), FPort: 00, FRMPayload: 0540d2ad84), MIC: 8ae406f9)
0:05:37.366754	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 386582300, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAALAAAo5J0vOOK5Ab5'}}
0:05:37.368753	LOG	Server ----------> DUT
0:05:39.565511	LOG	PULL_DATA: 01 b573 02 fffeb827eb59d368
0:05:39.570509	LOG	PULL_ACK: 01 b573 04 fffeb827eb59d368
0:05:42.525842	LOG	PUSH_ACK: 01 3b04 01 fffeb827eb59d368
0:05:42.527840	LOG	PUSH_DATA: Protocol version = 01, Token = 3b04, Identifier = 00, JSON = {'rxpk': [{'tmst': 389748780, 'time': '2021-10-08T04:10:06.890416Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -11, 'size': 17, 'data': 'QCAgICCCfwAFBwHYJrgydik='}]}
0:05:42.529837	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 007f, FOpts: 0507), FPort: 01, FRMPayload: 0024, MIC: b8327629)
0:05:42.530838	LOG	Server <---------- DUT
0:05:42.532840	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:05:42.533835	LOG	Command Answer: 0507
0:05:42.555821	LOG	MAC command communication completed
0:05:42.558819	LOG	Send Test Command RxAppCntReq process starts
0:05:47.522671	LOG	PUSH_ACK: 01 5cd3 01 fffeb827eb59d368
0:05:47.524670	LOG	PUSH_DATA: Protocol version = 01, Token = 5cd3, Identifier = 00, JSON = {'rxpk': [{'tmst': 394751412, 'time': '2021-10-08T04:10:11.886869Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -13, 'size': 17, 'data': 'QCAgICCCgAAFBwGfhQcs+yk='}]}
0:05:47.526669	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0080, FOpts: 0507), FPort: 01, FRMPayload: 0024, MIC: 072cfb29)
0:05:47.528667	LOG	Server <---------- DUT
0:05:47.530666	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 002d, FOpts:), FPort: e0, FRMPayload: 09), MIC: 3a776678)
0:05:47.532665	LOG	Frame command sent to the DUT
0:05:47.533665	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 396751412, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAALQDgmjp3Zng='}}
0:05:47.535664	LOG	Server ----------> DUT
0:05:49.736420	LOG	PULL_DATA: 01 3694 02 fffeb827eb59d368
0:05:49.738419	LOG	PULL_ACK: 01 3694 04 fffeb827eb59d368
0:05:52.529841	LOG	PUSH_ACK: 01 b3af 01 fffeb827eb59d368
0:05:52.532839	LOG	PUSH_DATA: Protocol version = 01, Token = b3af, Identifier = 00, JSON = {'rxpk': [{'tmst': 399756956, 'time': '2021-10-08T04:10:16.894387Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -11, 'size': 16, 'data': 'QCAgICCAgQDgVeAUwXJ1aA=='}]}
0:05:52.534838	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0081, FOpts:), FPort: e0, FRMPayload: 092500, MIC: c1727568)

0:05:52.536837	LOG	Server <---------- DUT
0:05:52.537836	LOG	Answer in payload: 2500
0:05:52.541835	LOG	Frame Command Payload in the Answer: 092500
0:05:52.552828	LOG	RX Count received by DUT: 37
0:05:52.558824	LOG	Send Test Command RxAppCntReq process completed
0:05:52.566820	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:05:57.363110	LOG	PUSH_ACK: 01 e2f0 01 fffeb827eb59d368
0:05:57.365109	LOG	PUSH_DATA: Protocol version = 01, Token = e2f0, Identifier = 00, JSON = {'rxpk': [{'tmst': 404592780, 'time': '2021-10-08T04:10:21.727361Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 7.8, 'rssi': -14, 'size': 15, 'data': 'QCAgICCAggABG43+S126'}]}
0:05:57.366107	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0082, FOpts:), FPort: 01, FRMPayload: 0025, MIC: fe4b5dba)
0:05:57.368106	LOG	Server <---------- DUT
0:05:57.369105	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 002e, FOpts:), FPort: e0, FRMPayload: 0500), MIC: a7fc0c01)
0:05:57.371104	LOG	Frame command sent to the DUT
0:05:57.373103	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 406592780, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAALgDguHmn/AwB'}}
0:05:57.374103	LOG	Server ----------> DUT
0:05:57.378100	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:05:57.416079	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:59.776088	LOG	PULL_DATA: 01 e49e 02 fffeb827eb59d368
0:05:59.778086	LOG	PULL_ACK: 01 e49e 04 fffeb827eb59d368
0:06:02.371973	LOG	PUSH_ACK: 01 4f32 01 fffeb827eb59d368
0:06:02.373973	LOG	PUSH_DATA: Protocol version = 01, Token = 4f32, Identifier = 00, JSON = {'rxpk': [{'tmst': 409595404, 'time': '2021-10-08T04:10:26.736341Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -11, 'size': 15, 'data': 'QCAgICCAgwABVBlYwShc'}]}
0:06:02.375972	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0083, FOpts:), FPort: 01, FRMPayload: 0026, MIC: 58c1285c)
0:06:02.377970	LOG	Server <---------- DUT
0:06:02.382967	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 002f, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 654aee99)
0:06:02.385966	LOG	Frame command sent to the DUT
0:06:02.387966	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 410595404, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAALwDgSs9lSu6Z'}}
0:06:02.388965	LOG	Server ----------> DUT
0:06:02.392962	LOG	Send Test Command TxFramesCtrlReq process completed
0:06:02.395960	LOG	Send Test Command TxFramesCtrlReq process starts
0:06:07.369231	LOG	PUSH_ACK: 01 fd82 01 fffeb827eb59d368
0:06:07.371230	LOG	PUSH_DATA: Protocol version = 01, Token = fd82, Identifier = 00, JSON = {'rxpk': [{'tmst': 414597996, 'time': '2021-10-08T04:10:31.734327Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 7.5, 'rssi': -14, 'size': 15, 'data': 'QCAgICCAhAABrekPH/1o'}]}
0:06:07.372231	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0084, FOpts:), FPort: 01, FRMPayload: 0027, MIC: 0f1ffd68)
0:06:07.374229	LOG	Server <---------- DUT
0:06:07.376228	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0030, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 8d491fae)
0:06:07.378227	LOG	Frame command sent to the DUT

0:06:07.379226	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 415597996, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAMADgpKONSR+u'}}
0:06:07.380227	LOG	Server ----------> DUT
0:06:07.383225	LOG	Send Test Command TxFramesCtrlReq process completed
0:06:07.386223	LOG	Send Test Command TxFramesCtrlReq process starts
0:06:09.975874	LOG	PULL_DATA: 01 4ea9 02 fffeb827eb59d368
0:06:09.980872	LOG	PULL_ACK: 01 4ea9 04 fffeb827eb59d368
0:06:12.375566	LOG	PUSH_ACK: 01 d4b2 01 fffeb827eb59d368
0:06:12.378564	LOG	PUSH_DATA: Protocol version = 01, Token = d4b2, Identifier = 00, JSON = {'rxpk': [{'tmst': 419600612, 'time': '2021-10-08T04:10:36.740685Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 7.2, 'rssi': -11, 'size': 15, 'data': 'QCAgICCAhQABG0hBI1NB'}]}
0:06:12.379564	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0085, FOpts:), FPort: 01, FRMPayload: 0028, MIC: 41235341)
0:06:12.380564	LOG	Server <---------- DUT
0:06:12.382562	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0031, FOpts:), FPort: e0, FRMPayload: 0700), MIC: cbdfcdf9)
0:06:12.384562	LOG	Frame command sent to the DUT
0:06:12.386559	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 420600612, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAMQDg1MbL3835'}}
0:06:12.387559	LOG	Server ----------> DUT
0:06:12.391558	LOG	Send Test Command TxFramesCtrlReq process completed
0:06:12.395554	LOG	Send Test Command TxFramesCtrlReq process starts
0:06:17.374883	LOG	PUSH_ACK: 01 8a29 01 fffeb827eb59d368
0:06:17.376880	LOG	PUSH_DATA: Protocol version = 01, Token = 8a29, Identifier = 00, JSON = {'rxpk': [{'tmst': 424603212, 'time': '2021-10-08T04:10:41.739239Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -14, 'size': 15, 'data': 'QCAgICCAhgABpnjSRU/l'}]}
0:06:17.378879	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0086, FOpts:), FPort: 01, FRMPayload: 0029, MIC: d2454fe5)
0:06:17.379878	LOG	Server <---------- DUT
0:06:17.381876	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0032, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 7a402d67)
0:06:17.383875	LOG	Frame command sent to the DUT
0:06:17.384874	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 425603212, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAMgDgiBh6QC1n'}}
0:06:17.385873	LOG	Server ----------> DUT
0:06:17.389873	LOG	Send Test Command TxFramesCtrlReq process completed
0:06:17.399866	LOG	Send Test Command TxFramesCtrlReq process starts
0:06:19.985750	LOG	PULL_DATA: 01 5448 02 fffeb827eb59d368
0:06:19.987750	LOG	PULL_ACK: 01 5448 04 fffeb827eb59d368
0:06:22.381379	LOG	PUSH_ACK: 01 9a0a 01 fffeb827eb59d368
0:06:22.383378	LOG	PUSH_DATA: Protocol version = 01, Token = 9a0a, Identifier = 00, JSON = {'rxpk': [{'tmst': 429605812, 'time': '2021-10-08T04:10:46.745858Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.0, 'rssi': -12, 'size': 15, 'data': 'QCAgICCAhwABNzgjr1oI'}]}
0:06:22.384377	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0087, FOpts:), FPort: 01, FRMPayload: 002a, MIC: 23af5a08)
0:06:22.385377	LOG	Server <---------- DUT

0:06:22.387376	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0033, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 3a74c062)
0:06:22.389375	LOG	Frame command sent to the DUT
0:06:22.390375	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 430605812, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'oCAgICAAMwDg5tJi+GRlSA8wHjTL6hY5A5MB9yGb1fbkoj6BnZMvTnM2kiFP7fqlLbdRpBXTcghzfV9fOnTAYg=='}}
0:06:22.393372	LOG	Server ----------> DUT
0:06:22.397369	LOG	Send Test Command TxFramesCtrlReq process completed
0:06:22.401368	LOG	Check previous uplink data rate process starts
0:06:22.406364	LOG	Uplink received with expected Data Rate
0:06:22.411361	LOG	Check ACK bit in next uplink starts
0:06:27.390439	LOG	PUSH_ACK: 01 bcd5 01 fffeb827eb59d368
0:06:27.393439	LOG	PUSH_DATA: Protocol version = 01, Token = bcd5, Identifier = 00, JSON = {'rxpk': [{'tmst': 434622428, 'time': '2021-10-08T04:10:51.755329Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -15, 'size': 15, 'data': 'QCAgICCgiAAB2x9E2nZO'}]}
0:06:27.394437	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: a0, FCnt: 0088, FOpts:), FPort: 01, FRMPayload: 002b, MIC: 44da764e)
0:06:27.395437	LOG	Server <---------- DUT
0:06:27.398437	LOG	Check ACK bit in next uplink tested successfully
0:06:27.405432	LOG	Send Test Command RxAppCntReq process starts
0:06:29.995968	LOG	PULL_DATA: 01 0e18 02 fffeb827eb59d368
0:06:29.997966	LOG	PULL_ACK: 01 0e18 04 fffeb827eb59d368
0:06:32.396612	LOG	PUSH_ACK: 01 a844 01 fffeb827eb59d368
0:06:32.398611	LOG	PUSH_DATA: Protocol version = 01, Token = a844, Identifier = 00, JSON = {'rxpk': [{'tmst': 439625004, 'time': '2021-10-08T04:10:56.761612Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.2, 'rssi': -11, 'size': 15, 'data': 'QCAgICCAiQAB4bT01lt7'}]}
0:06:32.400607	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0089, FOpts:), FPort: 01, FRMPayload: 002b, MIC: f4d65b7b)
0:06:32.402607	LOG	Server <---------- DUT
0:06:32.404606	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0034, FOpts:), FPort: e0, FRMPayload: 09), MIC: 2815da77)
0:06:32.407607	LOG	Frame command sent to the DUT
0:06:32.409604	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 441625004, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAANADg+igV2nc='}}
0:06:32.411576	LOG	Server ----------> DUT
0:06:37.568735	LOG	PUSH_ACK: 01 ac5b 01 fffeb827eb59d368
0:06:37.571734	LOG	PUSH_DATA: Protocol version = 01, Token = ac5b, Identifier = 00, JSON = {'rxpk': [{'tmst': 444794412, 'time': '2021-10-08T04:11:01.933881Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -15, 'size': 16, 'data': 'QCAgICCAigDgGExhY/dkMg=='}]}
0:06:37.573732	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 008a, FOpts:), FPort: e0, FRMPayload: 092c00, MIC: 63f76432)
0:06:37.575732	LOG	Server <---------- DUT
0:06:37.576731	LOG	Answer in payload: 2c00
0:06:37.578729	LOG	Frame Command Payload in the Answer: 092c00
0:06:37.585725	LOG	RX Count received by DUT: 44
0:06:37.590723	LOG	Send Test Command RxAppCntReq process completed

0:06:37.602716	LOG	Send RXParamSetupReq process starts
0:06:40.016357	LOG	PULL_DATA: 01 f38e 02 fffeb827eb59d368
0:06:40.021351	LOG	PULL_ACK: 01 f38e 04 fffeb827eb59d368
0:06:42.402003	LOG	PUSH_ACK: 01 4cd7 01 fffeb827eb59d368
0:06:42.405002	LOG	PUSH_DATA: Protocol version = 01, Token = 4cd7, Identifier = 00, JSON = {'rxpk': [{'tmst': 449630236, 'time': '2021-10-08T04:11:06.767082Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -12, 'size': 15, 'data': 'QCAgICCAiwAB/aDYBYxO'}]}
0:06:42.406003	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 008b, FOpts:), FPort: 01, FRMPayload: 002c, MIC: d8058c4e)
0:06:42.407003	LOG	Server <---------- DUT
0:06:42.408999	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0035, FOpts:), FPort: 00, FRMPayload: 0550d2ad84), MIC: 2d690ecf)
0:06:42.412997	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 451630236, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAANQAAs/12aaItaQ7P'}}
0:06:42.413996	LOG	Server ----------> DUT
0:06:47.564163	LOG	PUSH_ACK: 01 2d9b 01 fffeb827eb59d368
0:06:47.567161	LOG	PUSH_DATA: Protocol version = 01, Token = 2d9b, Identifier = 00, JSON = {'rxpk': [{'tmst': 454796708, 'time': '2021-10-08T04:11:11.929329Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -14, 'size': 17, 'data': 'QCAgICCCjAAFBwF7+FIkvBo='}]}
0:06:47.569161	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 008c, FOpts: 0507), FPort: 01, FRMPayload: 002c, MIC: 5224bc1a)
0:06:47.570159	LOG	Server <---------- DUT
0:06:47.572159	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:06:47.574157	LOG	Command Answer: 0507
0:06:47.621131	LOG	MAC command communication completed
0:06:47.624129	LOG	Send Test Command RxAppCntReq process starts
0:06:50.215465	LOG	PULL_DATA: 01 0942 02 fffeb827eb59d368
0:06:50.218464	LOG	PULL_ACK: 01 0942 04 fffeb827eb59d368
0:06:52.572133	LOG	PUSH_ACK: 01 e506 01 fffeb827eb59d368
0:06:52.575132	LOG	PUSH_DATA: Protocol version = 01, Token = e506, Identifier = 00, JSON = {'rxpk': [{'tmst': 459799316, 'time': '2021-10-08T04:11:16.936900Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -11, 'size': 17, 'data': 'QCAgICCCjQAFBwFEe1Zvqig='}]}
0:06:52.577131	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 008d, FOpts: 0507), FPort: 01, FRMPayload: 002c, MIC: 566faa28)
0:06:52.578130	LOG	Server <---------- DUT
0:06:52.580129	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0036, FOpts:), FPort: e0, FRMPayload: 09), MIC: e44ea3e0)
0:06:52.583127	LOG	Frame command sent to the DUT
0:06:52.585126	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 461799316, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAANgDgoeROo+A='}}
0:06:52.586125	LOG	Server ----------> DUT
0:06:57.579305	LOG	PUSH_ACK: 01 c433 01 fffeb827eb59d368
0:06:57.582302	LOG	PUSH_DATA: Protocol version = 01, Token = c433, Identifier = 00, JSON = {'rxpk': [{'tmst': 464804876, 'time': '2021-10-08T04:11:21.942875Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -15, 'size': 16, 'data': 'QCAgICCAjgDgKIlBsBiukA=='}]}
0:06:57.583301	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 008e, FOpts:), FPort: e0, FRMPayload: 092d00, MIC: b018ae90)

0:06:57.585300	LOG	Server <---------- DUT
0:06:57.586299	LOG	Answer in payload: 2d00
0:06:57.587299	LOG	Frame Command Payload in the Answer: 092d00
0:06:57.591299	LOG	RX Count received by DUT: 45
0:06:57.594296	LOG	Send Test Command RxAppCntReq process completed
0:06:57.599292	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:07:00.385716	LOG	PULL_DATA: 01 afcd 02 fffeb827eb59d368
0:07:00.388716	LOG	PULL_ACK: 01 afcd 04 fffeb827eb59d368
0:07:02.413572	LOG	PUSH_ACK: 01 a384 01 fffeb827eb59d368
0:07:02.415570	LOG	PUSH_DATA: Protocol version = 01, Token = a384, Identifier = 00, JSON = {'rxpk': [{'tmst': 469640692, 'time': '2021-10-08T04:11:26.778302Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.2, 'rssi': -12, 'size': 15, 'data': 'QCAgICCAjwABLqwwNTwl'}]}
0:07:02.417572	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 008f, FOpts:), FPort: 01, FRMPayload: 002d, MIC: 30353c25)
0:07:02.418568	LOG	Server <---------- DUT
0:07:02.420567	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0037, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 5a674793)
0:07:02.422567	LOG	Frame command sent to the DUT
0:07:02.424566	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 471640692, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAANwDgvilaZ0eT'}}
0:07:02.426564	LOG	Server ----------> DUT
0:07:02.430561	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:07:02.438557	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:07.414743	LOG	PUSH_ACK: 01 7f2d 01 fffeb827eb59d368
0:07:07.416744	LOG	PUSH_DATA: Protocol version = 01, Token = 7f2d, Identifier = 00, JSON = {'rxpk': [{'tmst': 474643308, 'time': '2021-10-08T04:11:31.780021Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -13, 'size': 15, 'data': 'QCAgICCAkAABh9cXjkxN'}]}
0:07:07.418742	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0090, FOpts:), FPort: 01, FRMPayload: 002e, MIC: 178e4c4d)
0:07:07.419741	LOG	Server <---------- DUT
0:07:07.420741	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0038, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 9f5eb70e)
0:07:07.422740	LOG	Frame command sent to the DUT
0:07:07.424739	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 475643308, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAOADg5bKfXrcO'}}
0:07:07.426738	LOG	Server ----------> DUT
0:07:07.431735	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:07.434733	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:10.426042	LOG	PULL_DATA: 01 add4 02 fffeb827eb59d368
0:07:10.430058	LOG	PULL_ACK: 01 add4 04 fffeb827eb59d368
0:07:12.421918	LOG	PUSH_ACK: 01 7647 01 fffeb827eb59d368
0:07:12.423915	LOG	PUSH_DATA: Protocol version = 01, Token = 7647, Identifier = 00, JSON = {'rxpk': [{'tmst': 479645900, 'time': '2021-10-08T04:11:36.786215Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.2, 'rssi': -11, 'size': 15, 'data': 'QCAgICCAkQABMXr5wLTF'}]}
0:07:12.424918	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0091, FOpts:), FPort: 01, FRMPayload: 002f, MIC: f9c0b4c5)
0:07:12.426913	LOG	Server <---------- DUT
0:07:12.428912	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0039, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 7a818c07)

0:07:12.430911	LOG	Frame command sent to the DUT
0:07:12.432908	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 480645900, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAOQDgjpZ6gYwH'}}
0:07:12.433907	LOG	Server ----------> DUT
0:07:12.436905	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:12.439904	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:17.416436	LOG	PUSH_ACK: 01 de32 01 fffeb827eb59d368
0:07:17.419417	LOG	PUSH_DATA: Protocol version = 01, Token = de32, Identifier = 00, JSON = {'rxpk': [{'tmst': 484648516, 'time': '2021-10-08T04:11:41.781661Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -14, 'size': 15, 'data': 'QCAgICCAkgABtg7usgOF'}]}
0:07:17.420415	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0092, FOpts:), FPort: 01, FRMPayload: 0030, MIC: eeb20385)
0:07:17.422414	LOG	Server <---------- DUT
0:07:17.423414	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 003a, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 00cb0d4e)
0:07:17.425413	LOG	Frame command sent to the DUT
0:07:17.427413	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 485648516, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAOgDg0XwAyw1O'}}
0:07:17.429411	LOG	Server ----------> DUT
0:07:17.433408	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:17.437406	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:20.626441	LOG	PULL_DATA: 01 1cec 02 fffeb827eb59d368
0:07:20.628440	LOG	PULL_ACK: 01 1cec 04 fffeb827eb59d368
0:07:22.425425	LOG	PUSH_ACK: 01 4ac4 01 fffeb827eb59d368
0:07:22.426424	LOG	PUSH_DATA: Protocol version = 01, Token = 4ac4, Identifier = 00, JSON = {'rxpk': [{'tmst': 489651124, 'time': '2021-10-08T04:11:46.789955Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -11, 'size': 15, 'data': 'QCAgICCAkwABp6S8gd0f'}]}
0:07:22.428422	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0093, FOpts:), FPort: 01, FRMPayload: 0031, MIC: bc81dd1f)
0:07:22.429422	LOG	Server <---------- DUT
0:07:22.431421	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 003b, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 5a857825)
0:07:22.433420	LOG	Frame command sent to the DUT
0:07:22.435418	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 490651124, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAOwDgp51ahXgl'}}
0:07:22.436418	LOG	Server ----------> DUT
0:07:22.439417	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:22.449410	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:27.431029	LOG	PUSH_ACK: 01 30f6 01 fffeb827eb59d368
0:07:27.436032	LOG	PUSH_DATA: Protocol version = 01, Token = 30f6, Identifier = 00, JSON = {'rxpk': [{'tmst': 494653724, 'time': '2021-10-08T04:11:51.796081Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -12, 'size': 15, 'data': 'QCAgICCAlAABVJm/wytV'}]}
0:07:27.438029	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0094, FOpts:), FPort: 01, FRMPayload: 0032, MIC: bfc32b55)
0:07:27.439029	LOG	Server <---------- DUT
0:07:27.440025	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 003c, FOpts:), FPort: e0, FRMPayload:

		07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 130144ad)
0:07:27.442024	LOG	Frame command sent to the DUT
0:07:27.444023	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 495653724, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'oCAgICAAPADgf3JPJTXHfomirm3DwnhymC+2gPOoEPhObuK66onccQZ8ha4UAo+gykwB1fo1M1dgOJYXEwFErQ=='}}
0:07:27.445023	LOG	Server ----------> DUT
0:07:27.449020	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:27.454018	LOG	Check previous uplink data rate process starts
0:07:27.459015	LOG	Uplink received with expected Data Rate
0:07:27.463012	LOG	Check ACK bit in next uplink starts
0:07:30.646262	LOG	PULL_DATA: 01 2023 02 fffeb827eb59d368
0:07:30.648261	LOG	PULL_ACK: 01 2023 04 fffeb827eb59d368
0:07:32.438254	LOG	PUSH_ACK: 01 856c 01 fffeb827eb59d368
0:07:32.441249	LOG	PUSH_DATA: Protocol version = 01, Token = 856c, Identifier = 00, JSON = {'rxpk': [{'tmst': 499670356, 'time': '2021-10-08T04:11:56.803199Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -11, 'size': 15, 'data': 'QCAgICCglQABHNNucNTn'}]}
0:07:32.442247	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: a0, FCnt: 0095, FOpts:), FPort: 01, FRMPayload: 0033, MIC: 6e70d4e7)
0:07:32.444247	LOG	Server <---------- DUT
0:07:32.448244	LOG	Check ACK bit in next uplink tested successfully
0:07:32.455240	LOG	Send Test Command RxAppCntReq process starts
0:07:37.444420	LOG	PUSH_ACK: 01 fbb2 01 fffeb827eb59d368
0:07:37.446419	LOG	PUSH_DATA: Protocol version = 01, Token = fbb2, Identifier = 00, JSON = {'rxpk': [{'tmst': 504672948, 'time': '2021-10-08T04:12:01.809239Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -13, 'size': 15, 'data': 'QCAgICCAlgABr9SHGb33'}]}
0:07:37.447420	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0096, FOpts:), FPort: 01, FRMPayload: 0033, MIC: 8719bdf7)
0:07:37.448419	LOG	Server <---------- DUT
0:07:37.450417	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 003d, FOpts:), FPort: e0, FRMPayload: 09), MIC: f9f0c2f2)
0:07:37.452417	LOG	Frame command sent to the DUT
0:07:37.453416	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 506672948, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAAPQDg2/nwwvI='}}
0:07:37.455414	LOG	Server ----------> DUT
0:07:40.655621	LOG	PULL_DATA: 01 0704 02 fffeb827eb59d368
0:07:40.659618	LOG	PULL_ACK: 01 0704 04 fffeb827eb59d368
0:07:42.613598	LOG	PUSH_ACK: 01 f4ec 01 fffeb827eb59d368
0:07:42.616597	LOG	PUSH_DATA: Protocol version = 01, Token = f4ec, Identifier = 00, JSON = {'rxpk': [{'tmst': 509842380, 'time': '2021-10-08T04:12:06.978533Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -12, 'size': 16, 'data': 'QCAgICCAlwDg8Bm/pUEwCQ=='}]}
0:07:42.617597	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0097, FOpts:), FPort: e0, FRMPayload: 093400, MIC: a5413009)
0:07:42.618597	LOG	Server <---------- DUT
0:07:42.620595	LOG	Answer in payload: 3400
0:07:42.621594	LOG	Frame Command Payload in the Answer: 093400
0:07:42.625593	LOG	RX Count received by DUT: 52
0:07:42.627592	LOG	Send Test Command RxAppCntReq process completed

0:07:42.634588	LOG	End Test Step: Test packet error rate for SF12BW125 using RX1 window
0:07:42.639584	LOG	Partial Verdict: PASS
0:07:42.643581	LOG	==========
0:07:42.649579	LOG	==========
0:07:42.652577	LOG	Start Test Step: Test packet error rate for SF11BW125 using RX1 window
0:07:42.667586	LOG	End Test Step: Test packet error rate for SF11BW125 using RX1 window
0:07:42.670568	LOG	TEST STEP NOT APPLICABLE
0:07:42.674564	LOG	==========
0:07:42.678580	LOG	==========
0:07:42.680560	LOG	Start Test Step: Test packet error rate for SF10BW125 using RX1 window
0:07:42.693553	LOG	End Test Step: Test packet error rate for SF10BW125 using RX1 window
0:07:42.697551	LOG	TEST STEP NOT APPLICABLE
0:07:42.701549	LOG	==========
0:07:42.706546	LOG	==========
0:07:42.708545	LOG	Start Test Step: Test packet error rate for SF9BW125 using RX1 window
0:07:42.723536	LOG	End Test Step: Test packet error rate for SF9BW125 using RX1 window
0:07:42.725535	LOG	TEST STEP NOT APPLICABLE
0:07:42.729532	LOG	==========
0:07:42.733530	LOG	==========
0:07:42.735529	LOG	Start Test Step: Test packet error rate for SF8BW125 using RX1 window
0:07:42.746525	LOG	End Test Step: Test packet error rate for SF8BW125 using RX1 window
0:07:42.750521	LOG	TEST STEP NOT APPLICABLE
0:07:42.754519	LOG	==========
0:07:42.758517	LOG	==========
0:07:42.760515	LOG	Start Test Step: Test packet error rate for SF7BW125 using RX1 window
0:07:42.777505	LOG	End Test Step: Test packet error rate for SF7BW125 using RX1 window
0:07:42.780504	LOG	TEST STEP NOT APPLICABLE
0:07:42.783502	LOG	==========
0:07:42.787501	LOG	==========
0:07:42.790499	LOG	Start Test Step: Test packet error rate for SF7BW250 using RX1 window
0:07:42.803491	LOG	End Test Step: Test packet error rate for SF7BW250 using RX1 window
0:07:42.805490	LOG	TEST STEP NOT APPLICABLE
0:07:42.808488	LOG	==========
0:07:42.813485	LOG	==========
0:07:42.815484	LOG	Start Test Step: Test packet error rate for FSK50 using RX1 window
0:07:42.826478	LOG	End Test Step: Test packet error rate for FSK50 using RX1 window
0:07:42.831475	LOG	TEST STEP NOT APPLICABLE
0:07:42.836473	LOG	==========
0:07:42.841470	LOG	==========
0:07:42.843468	LOG	Start Test Step: Restore default settings
0:07:42.857460	LOG	Send LinkADRReq process starts
0:07:47.448211	LOG	PUSH_ACK: 01 0bb9 01 fffeb827eb59d368
0:07:47.452203	LOG	PUSH_DATA: Protocol version = 01, Token = 0bb9, Identifier = 00, JSON = {'rxpk': [{'tmst': 514678220, 'time': '2021-10-08T04:12:11.812048Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -14, 'size': 15, 'data': 'QCAgICCAmAABcPPWDDUw'}]}
0:07:47.456206	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0098, FOpts:), FPort: 01, FRMPayload: 0034, MIC: d60c3530)
0:07:47.459204	LOG	Server <---------- DUT
0:07:47.464197	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 003e, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: 7740fa01)
0:07:47.469195	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 516678220, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAPgAAaWqlfGF3QPoB'}}

0:07:47.471194	LOG	Server ----------> DUT
0:07:50.666390	LOG	PULL_DATA: 01 20ba 02 fffeb827eb59d368
0:07:50.670387	LOG	PULL_ACK: 01 20ba 04 fffeb827eb59d368
0:07:51.318020	LOG	PUSH_ACK: 01 86c3 01 fffeb827eb59d368
0:07:51.320019	LOG	PUSH_DATA: Protocol version = 01, Token = 86c3, Identifier = 00, JSON = {'rxpk': [{'tmst': 518577323, 'time': '2021-10-08T04:12:15.683045Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -13, 'size': 17, 'data': 'QCAgICCCmQADBwH2ps841dI='}]}
0:07:51.322023	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0099, FOpts: 0307), FPort: 01, FRMPayload: 0034, MIC: cf38d5d2)
0:07:51.323023	LOG	Server <---------- DUT
0:07:51.324023	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:07:51.325022	LOG	Command Answer: 0307
0:07:51.338010	LOG	MAC command communication completed
0:07:51.342009	LOG	Send RXParamSetupReq process starts
0:07:56.324260	LOG	PUSH_ACK: 01 3e05 01 fffeb827eb59d368
0:07:56.330257	LOG	PUSH_DATA: Protocol version = 01, Token = 3e05, Identifier = 00, JSON = {'rxpk': [{'tmst': 523574811, 'time': '2021-10-08T04:12:20.688297Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -16, 'size': 15, 'data': 'QCAgICCAmgABrOoCA8ER'}]}
0:07:56.334254	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 009a, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 0203c111)
0:07:56.337252	LOG	Server <---------- DUT
0:07:56.341250	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 003f, FOpts:), FPort: 00, FRMPayload: 0500d2ad84), MIC: 238b229e)
0:07:56.348247	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 525574811, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAPwAAFkAmEUQjiyKe'}}
0:07:56.350245	LOG	Server ----------> DUT
0:08:00.745803	LOG	PULL_DATA: 01 f1ec 02 fffeb827eb59d368
0:08:00.747801	LOG	PULL_ACK: 01 f1ec 04 fffeb827eb59d368
0:08:01.332472	LOG	PUSH_ACK: 01 d967 01 fffeb827eb59d368
0:08:01.334471	LOG	PUSH_DATA: Protocol version = 01, Token = d967, Identifier = 00, JSON = {'rxpk': [{'tmst': 528582571, 'time': '2021-10-08T04:12:25.697061Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -16, 'size': 17, 'data': 'QCAgICCCmwAFBwERUX/sfxQ='}]}
0:08:01.335469	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 009b, FOpts: 0507), FPort: 01, FRMPayload: 0034, MIC: 7fec7f14)
0:08:01.336470	LOG	Server <---------- DUT
0:08:01.337470	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:08:01.339467	LOG	Command Answer: 0507
0:08:01.357456	LOG	MAC command communication completed
0:08:01.361455	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:08:06.330943	LOG	PUSH_ACK: 01 33b7 01 fffeb827eb59d368
0:08:06.333944	LOG	PUSH_DATA: Protocol version = 01, Token = 33b7, Identifier = 00, JSON = {'rxpk': [{'tmst': 533585187, 'time': '2021-10-08T04:12:30.695540Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -16, 'size': 17, 'data': 'QCAgICCCnAAFBwFlWAbABuY='}]}
0:08:06.334943	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 009c, FOpts: 0507), FPort: 01, FRMPayload: 0034, MIC: 06c006e6)
0:08:06.337939	LOG	Server <---------- DUT
0:08:06.341937	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0040, FOpts:), FPort: e0, FRMPayload: 0501), MIC: 180a941c)

0:08:06.344934	LOG	Frame command sent to the DUT
0:08:06.347933	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 535585187, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAQADgiwsYCpQc'}}
0:08:06.349932	LOG	Server ----------> DUT
0:08:06.353929	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:08:06.356929	LOG	End Test Step: Restore default settings
0:08:06.359927	LOG	Partial Verdict: PASS
0:08:06.366921	LOG	==========
0:08:06.373918	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_015_A
0:08:06.375918	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_015_B	
Verdict	PASS	
Date	2021-10-18 12:48:43	
Comments	RX1 Window Test (Part 2)	
Technology Version	LCTT v3.1.0_D1 | GUI v1.10.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.1	
Test Specs Version	USv1.5.1/EUv1.6/KRv1.2.1/ASv1.1.1/INv1.1.1/ALLv1.1	
Project	MLSv2.0.0	
Project Creation Date	2021-10-17 22:25:22	
Sample	DevID:SAMR34-XPRO | AppID:CertApp_EU_ABP | SW:MLSv2.0.0 | HW:SAMR34J18B	
Parameters	SF7BW250 Frequency	868.100
	FSK Frequency	868.100
	Data Rates to be measured	SF12BW125
	Conformance	False

Time Stamp (ms)	Event	Summary
0:00:00.011530	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_015_B
0:00:00.044510	LOG	WARN:TEST CASE CONFIGURATION NON CONFORMANCE
0:00:00.049508	LOG	==========
0:00:00.052506	LOG	Start Test Step: Device activation
0:00:00.111475	LOG	Activation process has finished successfully
0:00:00.113472	LOG	Data stored in the DUT after Activation:
0:00:00.116470	LOG	DevAddr: 20202020
0:00:00.118469	LOG	AppEUI: abcdabcdabcdabcd
0:00:00.121467	LOG	NwkSKey: abcdabcdabcdabcdabcdabcdabcdabcd
0:00:00.123468	LOG	AppSKey: 12345678123456781234567812345678
0:00:00.126465	LOG	End Test Step: Device activation
0:00:00.131462	LOG	Partial Verdict: PASS
0:00:00.136459	LOG	==========
0:00:00.142455	LOG	==========
0:00:00.147453	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.162444	LOG	DUT Pre-condition activation process starts
0:00:00.165443	LOG	DUT Pre-condition activation completed
0:00:00.169440	LOG	End Test Step: DUT Pre-condition settings
0:00:00.173438	LOG	Partial Verdict: PASS
0:00:00.176437	LOG	==========
0:00:00.181434	LOG	==========
0:00:00.184432	LOG	Start Test Step: Initial settings for the test
0:00:00.194426	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:00:01.177870	LOG	PULL_DATA: 01 9950 02 fffeb827eb59d368

0:00:01.179869	LOG	PULL_ACK: 01 9950 04 fffeb827eb59d368
0:00:01.181868	LOG	First PULL_DATA received
0:00:01.762542	LOG	PUSH_ACK: 01 a3e3 01 fffeb827eb59d368
0:00:01.765540	LOG	PUSH_DATA: Protocol version = 01, Token = a3e3, Identifier = 00, JSON = {'rxpk': [{'tmst': 538582651, 'time': '2021-10-08T04:12:35.693905Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -15, 'size': 15, 'data': 'QCAgICCAnQABZmCNgN+e'}]}
0:00:01.766538	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 009d, FOpts:), FPort: 01, FRMPayload: 0035, MIC: 8d80df9e)
0:00:01.767539	LOG	Server <---------- DUT
0:00:01.769536	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0041, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 9718fd6e)
0:00:01.771535	LOG	Frame command sent to the DUT
0:00:01.772536	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 540582651, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAQQDg1JGXGP1u'}}
0:00:01.773535	LOG	Server ----------> DUT
0:00:01.778531	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:00:01.782529	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:06.761714	LOG	PUSH_ACK: 01 14d3 01 fffeb827eb59d368
0:00:06.764714	LOG	PUSH_DATA: Protocol version = 01, Token = 14d3, Identifier = 00, JSON = {'rxpk': [{'tmst': 543585259, 'time': '2021-10-08T04:12:40.695703Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -15, 'size': 15, 'data': 'QCAgICCAngABrWyFTv76'}]}
0:00:06.765713	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 009e, FOpts:), FPort: 01, FRMPayload: 0036, MIC: 854efefa)
0:00:06.766713	LOG	Server <---------- DUT
0:00:06.768711	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0042, FOpts:), FPort: e0, FRMPayload: 0701), MIC: 27f3225d)
0:00:06.771708	LOG	Frame command sent to the DUT
0:00:06.772708	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 545585259, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAQgDgxE4n8yJd'}}
0:00:06.773709	LOG	Server ----------> DUT
0:00:06.777705	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:06.781722	LOG	End Test Step: Initial settings for the test
0:00:06.784720	LOG	Partial Verdict: PASS
0:00:06.788717	LOG	==========
0:00:06.794696	LOG	==========
0:00:06.797694	LOG	Start Test Step: Test packet error rate for SF7BW125 using RX1 window
0:00:06.820681	LOG	End Test Step: Test packet error rate for SF7BW125 using RX1 window
0:00:06.823681	LOG	TEST STEP NOT APPLICABLE
0:00:06.827680	LOG	==========
0:00:06.834673	LOG	==========
0:00:06.837671	LOG	Start Test Step: Test packet error rate for SF8BW125 using RX1 window
0:00:06.855661	LOG	End Test Step: Test packet error rate for SF8BW125 using RX1 window
0:00:06.858660	LOG	TEST STEP NOT APPLICABLE
0:00:06.861658	LOG	==========
0:00:06.868654	LOG	==========
0:00:06.870653	LOG	Start Test Step: Test packet error rate for SF9BW125 using RX1 window
0:00:06.886643	LOG	End Test Step: Test packet error rate for SF9BW125 using RX1 window
0:00:06.889642	LOG	TEST STEP NOT APPLICABLE
0:00:06.892640	LOG	==========
0:00:06.899639	LOG	==========

0:00:06.901638	LOG	Start Test Step: Test packet error rate for SF10BW125 using RX1 window
0:00:06.914628	LOG	End Test Step: Test packet error rate for SF10BW125 using RX1 window
0:00:06.916629	LOG	TEST STEP NOT APPLICABLE
0:00:06.920625	LOG	==========
0:00:06.925624	LOG	==========
0:00:06.928620	LOG	Start Test Step: Test packet error rate for SF11BW125 using RX1 window
0:00:06.942612	LOG	End Test Step: Test packet error rate for SF11BW125 using RX1 window
0:00:06.946610	LOG	TEST STEP NOT APPLICABLE
0:00:06.950609	LOG	==========
0:00:06.956605	LOG	==========
0:00:06.958604	LOG	Start Test Step: Test packet error rate for SF12BW125 using RX1 window
0:00:06.972595	LOG	Send LinkADRReq process starts
0:00:11.377176	LOG	PULL_DATA: 01 d934 02 fffeb827eb59d368
0:00:11.379175	LOG	PULL_ACK: 01 d934 04 fffeb827eb59d368
0:00:11.763957	LOG	PUSH_ACK: 01 f75e 01 fffeb827eb59d368
0:00:11.766957	LOG	PUSH_DATA: Protocol version = 01, Token = f75e, Identifier = 00, JSON = {'rxpk': [{'tmst': 548587867, 'time': '2021-10-08T04:12:45.697946Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -15, 'size': 15, 'data': 'QCAgICCAnwABfIZ6+nKC'}]}
0:00:11.768955	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 009f, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 7afa7282)
0:00:11.770954	LOG	Server <---------- DUT
0:00:11.772953	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0043, FOpts:), FPort: 00, FRMPayload: 0300070001), MIC: f686e1c2)
0:00:11.775951	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 550587867, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAQwAAwi78atH2huHC'}}
0:00:11.777951	LOG	Server ----------> DUT
0:00:18.069394	LOG	PUSH_ACK: 01 a0f2 01 fffeb827eb59d368
0:00:18.071393	LOG	PUSH_DATA: Protocol version = 01, Token = a0f2, Identifier = 00, JSON = {'rxpk': [{'tmst': 554862996, 'time': '2021-10-08T04:12:52.003209Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -15, 'size': 17, 'data': 'QCAgICCCoAADBwFxWYkGHx4='}]}
0:00:18.073392	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 00a0, FOpts: 0307), FPort: 01, FRMPayload: 0037, MIC: 89061f1e)
0:00:18.107372	LOG	Server <---------- DUT
0:00:18.109372	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:18.111371	LOG	Command Answer: 0307
0:00:18.120366	LOG	MAC command communication completed
0:00:18.125362	LOG	Send RXParamSetupReq process starts
0:00:21.577411	LOG	PULL_DATA: 01 10a8 02 fffeb827eb59d368
0:00:21.579410	LOG	PULL_ACK: 01 10a8 04 fffeb827eb59d368
0:00:22.909658	LOG	PUSH_ACK: 01 f605 01 fffeb827eb59d368
0:00:22.911657	LOG	PUSH_DATA: Protocol version = 01, Token = f605, Identifier = 00, JSON = {'rxpk': [{'tmst': 559701780, 'time': '2021-10-08T04:12:56.843011Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.2, 'rssi': -11, 'size': 15, 'data': 'QCAgICCAoQABDz+wYyrJ'}]}
0:00:22.912656	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00a1, FOpts:), FPort: 01, FRMPayload: 0037, MIC: b0632ac9)
0:00:22.914656	LOG	Server <---------- DUT
0:00:22.916654	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0044, FOpts:), FPort: 00, FRMPayload: 0500d2ad84), MIC: de70da29)
0:00:22.918653	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 561701780, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAARAAADpriqyzecNop'}}
0:00:22.920652	LOG	Server ----------> DUT
0:00:28.076737	LOG	PUSH_ACK: 01 9401 01 fffeb827eb59d368
0:00:28.079736	LOG	PUSH_DATA: Protocol version = 01, Token = 9401, Identifier = 00, JSON = {'rxpk': [{'tmst': 564868268, 'time': '2021-10-08T04:13:02.010432Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -14, 'size': 17, 'data': 'QCAgICCCogAFBwFgArldfBw='}]}
0:00:28.081735	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 00a2, FOpts: 0507), FPort: 01, FRMPayload: 0037, MIC: b95d7c1c)
0:00:28.082734	LOG	Server <---------- DUT
0:00:28.084733	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:28.086732	LOG	Command Answer: 0507
0:00:28.105721	LOG	MAC command communication completed
0:00:28.122712	LOG	Send Test Command RxAppCntReq process starts
0:00:31.717680	LOG	PULL_DATA: 01 beb4 02 fffeb827eb59d368
0:00:31.722677	LOG	PULL_ACK: 01 beb4 04 fffeb827eb59d368
0:00:33.074912	LOG	PUSH_ACK: 01 bc44 01 fffeb827eb59d368
0:00:33.076911	LOG	PUSH_DATA: Protocol version = 01, Token = bc44, Identifier = 00, JSON = {'rxpk': [{'tmst': 569870876, 'time': '2021-10-08T04:13:07.008680Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.2, 'rssi': -12, 'size': 17, 'data': 'QCAgICCCowAFBwFoKQMmirc='}]}
0:00:33.078912	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 00a3, FOpts: 0507), FPort: 01, FRMPayload: 0037, MIC: 03268ab7)
0:00:33.080909	LOG	Server <---------- DUT
0:00:33.082908	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0045, FOpts:), FPort: e0, FRMPayload: 09), MIC: 36ea3229)
0:00:33.085907	LOG	Frame command sent to the DUT
0:00:33.086906	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 570870876, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAARQDg0jbqMik='}}
0:00:33.088904	LOG	Server ----------> DUT
0:00:38.079084	LOG	PUSH_ACK: 01 78fa 01 fffeb827eb59d368
0:00:38.081083	LOG	PUSH_DATA: Protocol version = 01, Token = 78fa, Identifier = 00, JSON = {'rxpk': [{'tmst': 574876412, 'time': '2021-10-08T04:13:12.012629Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -13, 'size': 16, 'data': 'QCAgICCApADg+dmO4HbHNg=='}]}
0:00:38.082082	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00a4, FOpts:), FPort: e0, FRMPayload: 093800, MIC: e076c736)
0:00:38.084081	LOG	Server <---------- DUT
0:00:38.086080	LOG	Answer in payload: 3800
0:00:38.088079	LOG	Frame Command Payload in the Answer: 093800
0:00:38.093076	LOG	RX Count received by DUT: 56
0:00:38.097074	LOG	Send Test Command RxAppCntReq process completed
0:00:38.102071	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:41.886931	LOG	PULL_DATA: 01 4969 02 fffeb827eb59d368
0:00:41.888930	LOG	PULL_ACK: 01 4969 04 fffeb827eb59d368
0:00:42.914351	LOG	PUSH_ACK: 01 e623 01 fffeb827eb59d368
0:00:42.917351	LOG	PUSH_DATA: Protocol version = 01, Token = e623, Identifier = 00, JSON = {'rxpk': [{'tmst': 579712228, 'time': '2021-10-08T04:13:16.848011Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -11, 'size': 15, 'data': 'QCAgICCApQABtUyPKTb8'}]}
0:00:42.918348	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00a5, FOpts:), FPort: 01, FRMPayload: 0038, MIC: 8f2936fc)

0:00:42.920347	LOG	Server <---------- DUT
0:00:42.922346	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0046, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: ee8617bd)
0:00:42.926344	LOG	Frame command sent to the DUT
0:00:42.927343	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 580712228, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAARgDguiF5DdMXj24NlPbEpqLAi+OL33Cft6T31LhJal/+rRRGrfZmvrlomXu0pOwElSYkX0IT7oYXvQ=='}}
0:00:42.929342	LOG	Server ----------> DUT
0:00:42.933340	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:42.937338	LOG	Check previous uplink data rate process starts
0:00:42.942335	LOG	Uplink received with expected Data Rate
0:00:42.947332	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:47.935512	LOG	PUSH_ACK: 01 d01a 01 fffeb827eb59d368
0:00:47.937510	LOG	PUSH_DATA: Protocol version = 01, Token = d01a, Identifier = 00, JSON = {'rxpk': [{'tmst': 584728860, 'time': '2021-10-08T04:13:21.869115Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -13, 'size': 15, 'data': 'QCAgICCApgABxzxCDa/r'}]}
0:00:47.939509	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00a6, FOpts:), FPort: 01, FRMPayload: 0039, MIC: 420dafeb)
0:00:47.941508	LOG	Server <---------- DUT
0:00:47.943507	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0047, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: cb37d266)
0:00:47.946506	LOG	Frame command sent to the DUT
0:00:47.948505	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 585728860, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAARwDgPLckNlAQnz+7wxtP5+g8eBdgqe4WGWAf651pwXL0eq57S+Qbz65gyUhiT0CP8vBBM3MIyzfSZg=='}}
0:00:47.950503	LOG	Server ----------> DUT
0:00:47.954502	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:47.957499	LOG	Check previous uplink data rate process starts
0:00:47.962497	LOG	Uplink received with expected Data Rate
0:00:47.967494	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:51.947243	LOG	PULL_DATA: 01 da69 02 fffeb827eb59d368
0:00:51.949243	LOG	PULL_ACK: 01 da69 04 fffeb827eb59d368
0:00:52.951675	LOG	PUSH_ACK: 01 6a7e 01 fffeb827eb59d368
0:00:52.953674	LOG	PUSH_DATA: Protocol version = 01, Token = 6a7e, Identifier = 00, JSON = {'rxpk': [{'tmst': 589745492, 'time': '2021-10-08T04:13:26.885668Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -12, 'size': 15, 'data': 'QCAgICCApwABRQK7/W8Q'}]}
0:00:52.955673	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00a7, FOpts:), FPort: 01, FRMPayload: 003a, MIC: bbfd6f10)
0:00:52.957672	LOG	Server <---------- DUT
0:00:52.958672	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0048, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 5cb8572e)
0:00:52.961670	LOG	Frame command sent to the DUT

0:00:52.963670	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 590745492, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAASADgEm2teijj80ezDkM+WhxFSrJbWZ1F8ZUGltrbSRtBnVZIC9b2KO/MAX9jwyBDeeT1nO2DXLhXLg==''}}
0:00:52.965668	LOG	Server ----------> DUT
0:00:52.969665	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:52.973664	LOG	Check previous uplink data rate process starts
0:00:52.981658	LOG	Uplink received with expected Data Rate
0:00:52.986656	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:57.967839	LOG	PUSH_ACK: 01 4c7e 01 fffeb827eb59d368
0:00:57.969838	LOG	PUSH_DATA: Protocol version = 01, Token = 4c7e, Identifier = 00, JSON = {'rxpk': [{'tmst': 594762116, 'time': '2021-10-08T04:13:31.901736Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -12, 'size': 15, 'data': 'QCAgICCAqAABvFUGdjmK'}]}
0:00:57.971837	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00a8, FOpts:), FPort: 01, FRMPayload: 003b, MIC: 0676398a)
0:00:57.972836	LOG	Server <---------- DUT
0:00:57.975835	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0049, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 6ffffc02)
0:00:57.977835	LOG	Frame command sent to the DUT
0:00:57.979833	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 595762116, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAASQDgWGB+7xAYc8e9qdTCtVWiNBp8y+5eeG3ANDsHZXN/ScdhFyslWaiEHJ5K0xiH/RSGHcJPb//8Ag==''}}
0:00:57.981831	LOG	Server ----------> DUT
0:00:57.984829	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:57.987830	LOG	Check previous uplink data rate process starts
0:00:57.996823	LOG	Uplink received with expected Data Rate
0:00:58.001820	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:01.976572	LOG	PULL_DATA: 01 5125 02 fffeb827eb59d368
0:01:01.981570	LOG	PULL_ACK: 01 5125 04 fffeb827eb59d368
0:01:02.987001	LOG	PUSH_ACK: 01 b348 01 fffeb827eb59d368
0:01:02.989000	LOG	PUSH_DATA: Protocol version = 01, Token = b348, Identifier = 00, JSON = {'rxpk': [{'tmst': 599778732, 'time': '2021-10-08T04:13:36.920451Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 12.0, 'rssi': -11, 'size': 15, 'data': 'QCAgICCAqQAB7w6B7HRw'}]}
0:01:02.990000	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00a9, FOpts:), FPort: 01, FRMPayload: 003c, MIC: 81ec7470)
0:01:02.991998	LOG	Server <---------- DUT
0:01:02.993997	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 004a, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 857730c9)
0:01:02.995998	LOG	Frame command sent to the DUT
0:01:02.998995	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 600778732, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAASgDgRsDgiSmMrR5YmcIWLpmZ5KUDXwAGxcenbh7Wz8+SSBgWlJ0rIY0LyPPr+FOCBoVquNfKhXcwyQ==''}}
0:01:03.000994	LOG	Server ----------> DUT

0:01:03.004992	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:03.008989	LOG	Check previous uplink data rate process starts
0:01:03.016986	LOG	Uplink received with expected Data Rate
0:01:03.047968	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:08.002165	LOG	PUSH_ACK: 01 8453 01 fffeb827eb59d368
0:01:08.004164	LOG	PUSH_DATA: Protocol version = 01, Token = 8453, Identifier = 00, JSON = {'rxpk': [{'tmst': 604795356, 'time': '2021-10-08T04:13:41.935413Z', 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': -18.5, 'rssi': -83, 'size': 15, 'data': 'QCAgICCAqgABq0TPgwEt'}, {'tmst': 604795356, 'time': '2021-10-08T04:13:41.935413Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -13, 'size': 15, 'data': 'QCAgICCAqgABq0TPgwEt'}]}
0:01:08.006163	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00aa, FOpts:), FPort: 01, FRMPayload: 003d, MIC: cf83012d)
0:01:08.008162	LOG	Server <---------- DUT
0:01:08.010161	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 004b, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: ac978033)
0:01:08.013160	LOG	Frame command sent to the DUT
0:01:08.015159	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 605795356, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAASwDg+kPapY7hqW9Hd/7MZZZ61LPm3VcwOe+znodVwMRJKAwbQGdlQlmEZL7ykgrilymD+1W6rJeAMw=='}}
0:01:08.017157	LOG	Server ----------> DUT
0:01:08.021156	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:08.026152	LOG	Check previous uplink data rate process starts
0:01:08.031149	LOG	Uplink received with expected Data Rate
0:01:08.037146	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:12.016895	LOG	PULL_DATA: 01 3a94 02 fffeb827eb59d368
0:01:12.018894	LOG	PULL_ACK: 01 3a94 04 fffeb827eb59d368
0:01:13.018329	LOG	PUSH_ACK: 01 fb31 01 fffeb827eb59d368
0:01:13.021328	LOG	PUSH_DATA: Protocol version = 01, Token = fb31, Identifier = 00, JSON = {'rxpk': [{'tmst': 609811980, 'time': '2021-10-08T04:13:46.951930Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -11, 'size': 15, 'data': 'QCAgICCAqwABHmEgsRIv'}]}
0:01:13.022327	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00ab, FOpts:), FPort: 01, FRMPayload: 003e, MIC: 20b1122f)
0:01:13.024326	LOG	Server <---------- DUT
0:01:13.025325	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 004c, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: eef1f55e)
0:01:13.028324	LOG	Frame command sent to the DUT
0:01:13.030324	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 610811980, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAATADgA+j7b3USstEiEwEY3fnhHbPqmbVDctOiWIwjbrQ4kKM9auEvLjCihJkWoDitkg5INgAz7vH1Xg=='}}
0:01:13.032322	LOG	Server ----------> DUT
0:01:13.036320	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:13.040319	LOG	Check previous uplink data rate process starts
0:01:13.046314	LOG	Uplink received with expected Data Rate
0:01:13.050312	LOG	Send Test Command TxFramesCtrlReq process starts

0:01:18.030496	LOG	PUSH_ACK: 01 9990 01 fffeb827eb59d368
0:01:18.032494	LOG	PUSH_DATA: Protocol version = 01, Token = 9990, Identifier = 00, JSON = {'rxpk': [{'tmst': 614828604, 'time': '2021-10-08T04:13:51.964002Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 12.2, 'rssi': -15, 'size': 15, 'data': 'QCAgICCArAABHbO6Ux64'}]}
0:01:18.034493	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00ac, FOpts:), FPort: 01, FRMPayload: 003f, MIC: ba531eb8)
0:01:18.036492	LOG	Server <---------- DUT
0:01:18.038491	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 004d, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 57e38dec)
0:01:18.042489	LOG	Frame command sent to the DUT
0:01:18.044488	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 615828604, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAATQDggEAMim7wo+rLxMZ4dheD3x5z7B3E4X5FgAdPbEETodGtEt1tqvAQVJhpYlGgIUbD+XL+V+ON7A=='}}
0:01:18.045487	LOG	Server ----------> DUT
0:01:18.049485	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:18.054482	LOG	Check previous uplink data rate process starts
0:01:18.059480	LOG	Uplink received with expected Data Rate
0:01:18.064476	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:22.047223	LOG	PULL_DATA: 01 3257 02 fffeb827eb59d368
0:01:22.049222	LOG	PULL_ACK: 01 3257 04 fffeb827eb59d368
0:01:23.049658	LOG	PUSH_ACK: 01 44ee 01 fffeb827eb59d368
0:01:23.052656	LOG	PUSH_DATA: Protocol version = 01, Token = 44ee, Identifier = 00, JSON = {'rxpk': [{'tmst': 619845236, 'time': '2021-10-08T04:13:56.983368Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -12, 'size': 15, 'data': 'QCAgICCArQAB5pMQFaHF'}]}
0:01:23.053655	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00ad, FOpts:), FPort: 01, FRMPayload: 0040, MIC: 1015a1c5)
0:01:23.055654	LOG	Server <---------- DUT
0:01:23.057653	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 004e, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 6a4025ca)
0:01:23.059652	LOG	Frame command sent to the DUT
0:01:23.061651	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 620845236, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAATgDg/nlptfnuTtjI0s3mCKrslwKgPAev1lwi2vAlxeLxpsLvTzmH4bXSO1xGQj+h/1CqbTdWakAlyg=='}}
0:01:23.062650	LOG	Server ----------> DUT
0:01:23.067647	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:23.071646	LOG	Check previous uplink data rate process starts
0:01:23.078641	LOG	Uplink received with expected Data Rate
0:01:23.083638	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:28.069819	LOG	PUSH_ACK: 01 9bbc 01 fffeb827eb59d368
0:01:28.071818	LOG	PUSH_DATA: Protocol version = 01, Token = 9bbc, Identifier = 00, JSON = {'rxpk': [{'tmst': 624861876, 'time': '2021-10-08T04:14:02.003225Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -15, 'size': 15, 'data': 'QCAgICCArgAB3bAzgWXr'}]}
0:01:28.073816	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00ae, FOpts:), FPort: 01, FRMPayload: 0041, MIC: 338165eb)

0:01:28.074816	LOG	Server <---------- DUT
0:01:28.076815	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 004f, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: abc59b19)
0:01:28.080813	LOG	Frame command sent to the DUT
0:01:28.082812	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 625861876, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAATwDgHgLj+vUJU/kV2EqQovzC+OgK4Mz8LoyBcuY9jFDJLKDPSPCfz3oIxEfbXYL15K+REgQhq8WbGQ==''}}
0:01:28.084810	LOG	Server ----------> DUT
0:01:28.088809	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:28.092806	LOG	Check previous uplink data rate process starts
0:01:28.099802	LOG	Uplink received with expected Data Rate
0:01:28.103800	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:32.087547	LOG	PULL_DATA: 01 e9e5 02 fffeb827eb59d368
0:01:32.091545	LOG	PULL_ACK: 01 e9e5 04 fffeb827eb59d368
0:01:33.078987	LOG	PUSH_ACK: 01 25cf 01 fffeb827eb59d368
0:01:33.080986	LOG	PUSH_DATA: Protocol version = 01, Token = 25cf, Identifier = 00, JSON = {'rxpk': [{'tmst': 629878516, 'time': '2021-10-08T04:14:07.012580Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -11, 'size': 15, 'data': 'QCAgICCArwABkUGd+qq3'}]}
0:01:33.082985	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00af, FOpts:), FPort: 01, FRMPayload: 0042, MIC: 9dfaaab7)
0:01:33.083984	LOG	Server <---------- DUT
0:01:33.085983	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0050, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 5ab4a9ee)
0:01:33.088981	LOG	Frame command sent to the DUT
0:01:33.090980	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 630878516, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAUADgRiIKU15+uS390/Xg/uFxJx8RR+F3oFB2TN5OXhsI8qdlHdcMaQ6gEnaV1WhA6hYmrdcBWrSp7g==''}}
0:01:33.092979	LOG	Server ----------> DUT
0:01:33.096977	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:33.100975	LOG	Check previous uplink data rate process starts
0:01:33.107971	LOG	Uplink received with expected Data Rate
0:01:33.112968	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:38.099148	LOG	PUSH_ACK: 01 08f5 01 fffeb827eb59d368
0:01:38.101147	LOG	PUSH_DATA: Protocol version = 01, Token = 08f5, Identifier = 00, JSON = {'rxpk': [{'tmst': 634895148, 'time': '2021-10-08T04:14:12.032696Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -14, 'size': 15, 'data': 'QCAgICCAsAABTZAtvb0J'}]}
0:01:38.103146	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00b0, FOpts:), FPort: 01, FRMPayload: 0043, MIC: 2dbdbd09)
0:01:38.104146	LOG	Server <---------- DUT
0:01:38.106144	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0051, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 86f8f76c)
0:01:38.108143	LOG	Frame command sent to the DUT

0:01:38.110143	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 635895148, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAUQDgs+6u1ARtNxp84kCrbFlMy5NwgHBBiyKEXeVOfoUY0sClb8Ga3SKIaKlS9/K+2xmIVH6qhvj3bA==''}}
0:01:38.111142	LOG	Server ----------> DUT
0:01:38.115140	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:38.119137	LOG	Check previous uplink data rate process starts
0:01:38.126133	LOG	Uplink received with expected Data Rate
0:01:38.129131	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:42.106901	LOG	PULL_DATA: 01 e9e2 02 fffeb827eb59d368
0:01:42.108899	LOG	PULL_ACK: 01 e9e2 04 fffeb827eb59d368
0:01:43.117311	LOG	PUSH_ACK: 01 60aa 01 fffeb827eb59d368
0:01:43.119310	LOG	PUSH_DATA: Protocol version = 01, Token = 60aa, Identifier = 00, JSON = {'rxpk': [{'tmst': 639911772, 'time': '2021-10-08T04:14:17.050783Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -11, 'size': 15, 'data': 'QCAgICCAsQABA3RTJmMa'}]}
0:01:43.121309	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00b1, FOpts:), FPort: 01, FRMPayload: 0044, MIC: 5326631a)
0:01:43.123308	LOG	Server <---------- DUT
0:01:43.125307	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0052, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 27fabb93)
0:01:43.128305	LOG	Frame command sent to the DUT
0:01:43.130304	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 640911772, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAUgDgEQHH9HyKC7stinN/+RKAl0YgYFVnqhDgMzDjEJ+rwjvahZ+E9V/ERyIo6ViK6SMajsYHJ/q7kw==''}}
0:01:43.133302	LOG	Server ----------> DUT
0:01:43.137300	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:43.142297	LOG	Check previous uplink data rate process starts
0:01:43.146294	LOG	Uplink received with expected Data Rate
0:01:43.153290	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:48.134474	LOG	PUSH_ACK: 01 d2b2 01 fffeb827eb59d368
0:01:48.136473	LOG	PUSH_DATA: Protocol version = 01, Token = d2b2, Identifier = 00, JSON = {'rxpk': [{'tmst': 644928388, 'time': '2021-10-08T04:14:22.068403Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -12, 'size': 15, 'data': 'QCAgICCAsgAB7RDYXrXa'}]}
0:01:48.138472	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00b2, FOpts:), FPort: 01, FRMPayload: 0045, MIC: d85eb5da)
0:01:48.139471	LOG	Server <---------- DUT
0:01:48.141470	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0053, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 8844905a)
0:01:48.144468	LOG	Frame command sent to the DUT
0:01:48.146468	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 645928388, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAUwDgy/oajyTmM5wC2MossNg8tZBh9VQtCIm1Z0asPQQrulG+z2bvpURstLYVXfmDGuU2VKwAiESQWg==''}}
0:01:48.148467	LOG	Server ----------> DUT

0:01:48.152464	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:48.157461	LOG	Check previous uplink data rate process starts
0:01:48.166456	LOG	Uplink received with expected Data Rate
0:01:48.171453	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:52.147205	LOG	PULL_DATA: 01 d085 02 fffeb827eb59d368
0:01:52.149204	LOG	PULL_ACK: 01 d085 04 fffeb827eb59d368
0:01:53.151637	LOG	PUSH_ACK: 01 fa54 01 fffeb827eb59d368
0:01:53.153636	LOG	PUSH_DATA: Protocol version = 01, Token = fa54, Identifier = 00, JSON = {'rxpk': [{'tmst': 649945004, 'time': '2021-10-08T04:14:27.085317Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -11, 'size': 15, 'data': 'QCAgICCAswABpFkN8hmh'}]}
0:01:53.155635	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00b3, FOpts:), FPort: 01, FRMPayload: 0046, MIC: 0df219a1)
0:01:53.157634	LOG	Server <---------- DUT
0:01:53.159633	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0054, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c567ff0e)
0:01:53.162632	LOG	Frame command sent to the DUT
0:01:53.164631	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 650945004, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAVADg9cPXAyeDzDXkkHF1fjbNCQ2Iakj24ltD5K/ZTSohNcHhyw4WzefnjD+I4tx/9JjmdboexWf/Dg==''}}
0:01:53.167629	LOG	Server ----------> DUT
0:01:53.171626	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:53.174625	LOG	Check previous uplink data rate process starts
0:01:53.180622	LOG	Uplink received with expected Data Rate
0:01:53.185618	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:58.163803	LOG	PUSH_ACK: 01 d835 01 fffeb827eb59d368
0:01:58.166802	LOG	PUSH_DATA: Protocol version = 01, Token = d835, Identifier = 00, JSON = {'rxpk': [{'tmst': 654961644, 'time': '2021-10-08T04:14:32.097736Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -12, 'size': 15, 'data': 'QCAgICCAtAABngnoCGNx'}]}
0:01:58.168801	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00b4, FOpts:), FPort: 01, FRMPayload: 0047, MIC: e8086371)
0:01:58.169800	LOG	Server <---------- DUT
0:01:58.172799	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0055, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: f473cbea)
0:01:58.174797	LOG	Frame command sent to the DUT
0:01:58.176796	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 655961644, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAVQDgK0ALJBCV1mWjDqGGZb4X5/r/7bOrDAqUBuuFr3FNPndCGuOzxiUXFnmyxL6EIz985Rts9HPL6g==''}}
0:01:58.178795	LOG	Server ----------> DUT
0:01:58.182792	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:58.186790	LOG	Check previous uplink data rate process starts
0:01:58.191788	LOG	Uplink received with expected Data Rate
0:01:58.195785	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:02.177569	LOG	PULL_DATA: 01 e8d4 02 fffeb827eb59d368
0:02:02.181567	LOG	PULL_ACK: 01 e8d4 04 fffeb827eb59d368

0:02:03.181001	LOG	PUSH_ACK: 01 6682 01 fffeb827eb59d368
0:02:03.183999	LOG	PUSH_DATA: Protocol version = 01, Token = 6682, Identifier = 00, JSON = {'rxpk': [{'tmst': 659978268, 'time': '2021-10-08T04:14:37.114673Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -11, 'size': 15, 'data': 'QCAgICCAtQABGdARV/oS'}]}
0:02:03.185998	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00b5, FOpts:), FPort: 01, FRMPayload: 0048, MIC: 1157fa12)
0:02:03.187997	LOG	Server <---------- DUT
0:02:03.189996	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0056, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: be42ba41)
0:02:03.192994	LOG	Frame command sent to the DUT
0:02:03.194993	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 660978268, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAVgDgLlMu+VfgtSPjPJkU9ohNGZ8tPMrO2QdBXYeqJxS89sMW3UUlYr2jYAZVSEN/KpnCRt1MvkK6QQ=='}}
0:02:03.196992	LOG	Server ----------> DUT
0:02:03.204987	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:03.220978	LOG	Check previous uplink data rate process starts
0:02:03.226975	LOG	Uplink received with expected Data Rate
0:02:03.231972	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:08.201162	LOG	PUSH_ACK: 01 6498 01 fffeb827eb59d368
0:02:08.204160	LOG	PUSH_DATA: Protocol version = 01, Token = 6498, Identifier = 00, JSON = {'rxpk': [{'tmst': 664994900, 'time': '2021-10-08T04:14:42.134885Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 12.5, 'rssi': -12, 'size': 15, 'data': 'QCAgICCAtgABfRASQ1/K'}]}
0:02:08.206159	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00b6, FOpts:), FPort: 01, FRMPayload: 0049, MIC: 12435fca)
0:02:08.207159	LOG	Server <---------- DUT
0:02:08.209158	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0057, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 99d56aef)
0:02:08.212156	LOG	Frame command sent to the DUT
0:02:08.214156	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 665994900, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAVwDg9uf3P1Zp0v3cQh/ghHEfluEQfn7kg/RNAu1dMRK5HWzqCQSFpIqYLN7Ba2mMzA6hoBaRmdVq7w=='}}
0:02:08.217153	LOG	Server ----------> DUT
0:02:08.223150	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:08.233144	LOG	Check previous uplink data rate process starts
0:02:08.239140	LOG	Uplink received with expected Data Rate
0:02:08.242139	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:12.216892	LOG	PULL_DATA: 01 d9a8 02 fffeb827eb59d368
0:02:12.218890	LOG	PULL_ACK: 01 d9a8 04 fffeb827eb59d368
0:02:13.212329	LOG	PUSH_ACK: 01 8775 01 fffeb827eb59d368
0:02:13.215327	LOG	PUSH_DATA: Protocol version = 01, Token = 8775, Identifier = 00, JSON = {'rxpk': [{'tmst': 670011540, 'time': '2021-10-08T04:14:47.146028Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -12, 'size': 15, 'data': 'QCAgICCAtwABqFZan/Yd'}]}
0:02:13.217326	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00b7, FOpts:), FPort: 01, FRMPayload: 004a, MIC: 5a9ff61d)

0:02:13.219325	LOG	Server <---------- DUT
0:02:13.221324	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0058, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: b9f5b0d3)
0:02:13.223323	LOG	Frame command sent to the DUT
0:02:13.225321	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 671011540, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAWADgZ68AHZ1Q0D5CmN91FznqgKEKemBzlsxPYLS9SNnyqU1AkRE0GwQmfymFTIoVRy7thlx0ufWw0w=='}}
0:02:13.227320	LOG	Server ----------> DUT
0:02:13.235316	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:13.244311	LOG	Check previous uplink data rate process starts
0:02:13.251309	LOG	Uplink received with expected Data Rate
0:02:13.256304	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:18.228492	LOG	PUSH_ACK: 01 6570 01 fffeb827eb59d368
0:02:18.230492	LOG	PUSH_DATA: Protocol version = 01, Token = 6570, Identifier = 00, JSON = {'rxpk': [{'tmst': 675028172, 'time': '2021-10-08T04:14:52.162571Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 12.2, 'rssi': -11, 'size': 15, 'data': 'QCAgICCAuAABpEpYGSS3'}]}
0:02:18.232490	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00b8, FOpts:), FPort: 01, FRMPayload: 004b, MIC: 581924b7)
0:02:18.234489	LOG	Server <---------- DUT
0:02:18.236488	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0059, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 00debb4e)
0:02:18.238487	LOG	Frame command sent to the DUT
0:02:18.240486	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 676028172, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAWQDgrZYbL551DIBYfwlmY23qx0YIBBLN6U/cuh1P1FYbozez3VQBQl6d56CNdKvtH4R6U22kAN67Tg=='}}
0:02:18.242487	LOG	Server ----------> DUT
0:02:18.245483	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:18.249481	LOG	Check previous uplink data rate process starts
0:02:18.257476	LOG	Uplink received with expected Data Rate
0:02:18.263473	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:22.237226	LOG	PULL_DATA: 01 5a8a 02 fffeb827eb59d368
0:02:22.239227	LOG	PULL_ACK: 01 5a8a 04 fffeb827eb59d368
0:02:23.244656	LOG	PUSH_ACK: 01 3f62 01 fffeb827eb59d368
0:02:23.247655	LOG	PUSH_DATA: Protocol version = 01, Token = 3f62, Identifier = 00, JSON = {'rxpk': [{'tmst': 680044796, 'time': '2021-10-08T04:14:57.178653Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -12, 'size': 15, 'data': 'QCAgICCAuQABv6MtdHhN'}]}
0:02:23.249654	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00b9, FOpts:), FPort: 01, FRMPayload: 004c, MIC: 2d74784d)
0:02:23.251653	LOG	Server <---------- DUT
0:02:23.253651	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 005a, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 7ee597ec)
0:02:23.256650	LOG	Frame command sent to the DUT

0:02:23.258648	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 681044796, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAWgDgwU+hubMDApjD10gkBfnRCHSPgWPPq07m2osmmSZkK8sXZeonsd+Oov5xGRDnMMto1Y3LfuWX7A=='}}
0:02:23.260647	LOG	Server ----------> DUT
0:02:23.269642	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:23.290630	LOG	Check previous uplink data rate process starts
0:02:23.295627	LOG	Uplink received with expected Data Rate
0:02:23.300624	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:28.262819	LOG	PUSH_ACK: 01 8029 01 fffeb827eb59d368
0:02:28.264818	LOG	PUSH_DATA: Protocol version = 01, Token = 8029, Identifier = 00, JSON = {'rxpk': [{'tmst': 685061420, 'time': '2021-10-08T04:15:02.196407Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -12, 'size': 15, 'data': 'QCAgICCAugABva9ZCkgE'}, {'tmst': 685061420, 'time': '2021-10-08T04:15:02.196407Z', 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': -19.0, 'rssi': -83, 'size': 15, 'data': 'QCAgICCAugABva9ZCkgE'}]}
0:02:28.266817	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00ba, FOpts:), FPort: 01, FRMPayload: 004d, MIC: 590a4804)
0:02:28.268815	LOG	Server <---------- DUT
0:02:28.270814	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 005b, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c2af66ec)
0:02:28.273813	LOG	Frame command sent to the DUT
0:02:28.275812	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 686061420, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAWwDghC6+e2ei9UwciUeDbUGjLV0o0Zl+ZjU4RtUt4pNxjv08yp54qcGJfsGAbiO+9NlK03m9wq9m7A=='}}
0:02:28.277811	LOG	Server ----------> DUT
0:02:28.285806	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:28.304795	LOG	Check previous uplink data rate process starts
0:02:28.309793	LOG	Uplink received with expected Data Rate
0:02:28.313790	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:32.277549	LOG	PULL_DATA: 01 44de 02 fffeb827eb59d368
0:02:32.281547	LOG	PULL_ACK: 01 44de 04 fffeb827eb59d368
0:02:33.280982	LOG	PUSH_ACK: 01 7ca5 01 fffeb827eb59d368
0:02:33.283980	LOG	PUSH_DATA: Protocol version = 01, Token = 7ca5, Identifier = 00, JSON = {'rxpk': [{'tmst': 690078044, 'time': '2021-10-08T04:15:07.214632Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -12, 'size': 15, 'data': 'QCAgICCAuwABxiYKGu3N'}]}
0:02:33.284980	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00bb, FOpts:), FPort: 01, FRMPayload: 004e, MIC: 0a1aedcd)
0:02:33.286978	LOG	Server <---------- DUT
0:02:33.287978	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 005c, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 24d6c2dd)
0:02:33.290976	LOG	Frame command sent to the DUT
0:02:33.292975	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 691078044, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data':

		'YCAgICAAXADg3Dd3qKSsymL5BeIIQaWlUiR+Ik6MB+E/tc2WJEUpsZKkcKUQ0A7nNgxTMSNZ9zXZEY7cJNbC3Q=='}}
0:02:33.293975	LOG	Server ----------> DUT
0:02:33.296973	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:33.300971	LOG	Check previous uplink data rate process starts
0:02:33.308966	LOG	Uplink received with expected Data Rate
0:02:33.311964	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:38.303142	LOG	PUSH_ACK: 01 894e 01 fffeb827eb59d368
0:02:38.306140	LOG	PUSH_DATA: Protocol version = 01, Token = 894e, Identifier = 00, JSON = {'rxpk': [{'tmst': 695094676, 'time': '2021-10-08T04:15:12.236752Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -14, 'size': 15, 'data': 'QCAgICCAvAABP3aLMKWW'}]}
0:02:38.308140	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00bc, FOpts:), FPort: 01, FRMPayload: 004f, MIC: 8b30a596)
0:02:38.310138	LOG	Server <---------- DUT
0:02:38.312137	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 005d, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: f25fef25)
0:02:38.320132	LOG	Frame command sent to the DUT
0:02:38.323131	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 696094676, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAXQDgug0Zwx3teZF4LC7a1Qo7GDaI89Kjbeh0DTSMzBMW15BLlCOVFp4H2j1382b744+9HMtU8l/vJQ=='}}
0:02:38.326130	LOG	Server ----------> DUT
0:02:38.330127	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:38.335124	LOG	Check previous uplink data rate process starts
0:02:38.341121	LOG	Uplink received with expected Data Rate
0:02:38.344118	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:42.326867	LOG	PULL_DATA: 01 5759 02 fffeb827eb59d368
0:02:42.328866	LOG	PULL_ACK: 01 5759 04 fffeb827eb59d368
0:02:43.319306	LOG	PUSH_ACK: 01 d351 01 fffeb827eb59d368
0:02:43.321305	LOG	PUSH_DATA: Protocol version = 01, Token = d351, Identifier = 00, JSON = {'rxpk': [{'tmst': 700111300, 'time': '2021-10-08T04:15:17.252311Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -12, 'size': 15, 'data': 'QCAgICCAvQABb/8ezoiS'}]}
0:02:43.323304	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00bd, FOpts:), FPort: 01, FRMPayload: 0050, MIC: 1ece8892)
0:02:43.325303	LOG	Server <---------- DUT
0:02:43.327302	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 005e, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: badb72c5)
0:02:43.329300	LOG	Frame command sent to the DUT
0:02:43.331299	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 701111300, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAXgDgcoA7kRdbNaejiuIoyFY+s0H37Unnc1K7COC2VDuClxzn1rNqoGhUxMnmZXVJAWIk0jjRuttyxQ=='}}
0:02:43.333299	LOG	Server ----------> DUT
0:02:43.337296	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:43.341293	LOG	Check previous uplink data rate process starts
0:02:43.347290	LOG	Uplink received with expected Data Rate

0:02:43.353287	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:48.334470	LOG	PUSH_ACK: 01 adac 01 fffeb827eb59d368
0:02:48.337469	LOG	PUSH_DATA: Protocol version = 01, Token = adac, Identifier = 00, JSON = {'rxpk': [{'tmst': 705127908, 'time': '2021-10-08T04:15:22.268185Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -13, 'size': 15, 'data': 'QCAgICCAvgABxQR3ZZki'}]}
0:02:48.338468	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00be, FOpts:), FPort: 01, FRMPayload: 0051, MIC: 77659922)
0:02:48.340467	LOG	Server <---------- DUT
0:02:48.342466	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 005f, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 55837741)
0:02:48.345464	LOG	Frame command sent to the DUT
0:02:48.346464	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 706127908, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAXwDgn4AN8BhldBpdLMQF44R+XEx8Gw8I4f+9EmUDe6ao36l4G5Im/KDlts8hJYFLrBaNTK50VYN3QQ=='}}
0:02:48.348462	LOG	Server ----------> DUT
0:02:48.351461	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:48.354459	LOG	Check previous uplink data rate process starts
0:02:48.361455	LOG	Uplink received with expected Data Rate
0:02:48.364453	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:52.347202	LOG	PULL_DATA: 01 8695 02 fffeb827eb59d368
0:02:52.351200	LOG	PULL_ACK: 01 8695 04 fffeb827eb59d368
0:02:53.344637	LOG	PUSH_ACK: 01 80ec 01 fffeb827eb59d368
0:02:53.347636	LOG	PUSH_DATA: Protocol version = 01, Token = 80ec, Identifier = 00, JSON = {'rxpk': [{'tmst': 710144548, 'time': '2021-10-08T04:15:27.278511Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -12, 'size': 15, 'data': 'QCAgICCAvwABttIiN34s'}]}
0:02:53.349635	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00bf, FOpts:), FPort: 01, FRMPayload: 0052, MIC: 22377e2c)
0:02:53.351634	LOG	Server <---------- DUT
0:02:53.354632	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0060, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 61148ecf)
0:02:53.360628	LOG	Frame command sent to the DUT
0:02:53.363627	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 711144548, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAYADgj7iOPJvtmXS9sUzO8wpPkKGNtz7oWNvgzH/iILj7Ajauj61uw1vnv5NseosR/4XLeY+AYRSOzw=='}}
0:02:53.368624	LOG	Server ----------> DUT
0:02:53.374621	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:53.378618	LOG	Check previous uplink data rate process starts
0:02:53.383615	LOG	Uplink received with expected Data Rate
0:02:53.386616	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:58.360801	LOG	PUSH_ACK: 01 17e4 01 fffeb827eb59d368
0:02:58.363800	LOG	PUSH_DATA: Protocol version = 01, Token = 17e4, Identifier = 00, JSON = {'rxpk': [{'tmst': 715161180, 'time': '2021-10-08T04:15:32.294602Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -15, 'size': 15, 'data': 'QCAgICCAwAABFpWqeilA'}]}

0:02:58.364801	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00c0, FOpts:), FPort: 01, FRMPayload: 0053, MIC: aa7a2940)
0:02:58.366799	LOG	Server <---------- DUT
0:02:58.368797	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0061, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 8feacdec)
0:02:58.371795	LOG	Frame command sent to the DUT
0:02:58.373795	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 716161180, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAYQDgYWUKFIvjMjqTEYDFbVLS5aPFT4Y3v/R56WC/LKNYMlqrjaisc1TwCWcY4yM+DH0Pfo53j+rN7A=='}}
0:02:58.374794	LOG	Server ----------> DUT
0:02:58.378791	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:58.382789	LOG	Check previous uplink data rate process starts
0:02:58.387787	LOG	Uplink received with expected Data Rate
0:02:58.391785	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:02.377441	LOG	PULL_DATA: 01 85f1 02 fffeb827eb59d368
0:03:02.381439	LOG	PULL_ACK: 01 85f1 04 fffeb827eb59d368
0:03:03.377875	LOG	PUSH_ACK: 01 8c0c 01 fffeb827eb59d368
0:03:03.379874	LOG	PUSH_DATA: Protocol version = 01, Token = 8c0c, Identifier = 00, JSON = {'rxpk': [{'tmst': 720177812, 'time': '2021-10-08T04:15:37.311058Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -11, 'size': 15, 'data': 'QCAgICCAwQABIWVL7lWD'}]}
0:03:03.381873	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00c1, FOpts:), FPort: 01, FRMPayload: 0054, MIC: 4bee5583)
0:03:03.382873	LOG	Server <---------- DUT
0:03:03.384871	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0062, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: b460b206)
0:03:03.387870	LOG	Frame command sent to the DUT
0:03:03.389869	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 721177812, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAYgDgVNZEYXDt9+F3TqlTpEzt89sIvR65EtHrCiderz944s70QMFb7p+9ITjK6w6mUFd8QcU2tGCyBg=='}}
0:03:03.390868	LOG	Server ----------> DUT
0:03:03.394866	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:03.403861	LOG	Check previous uplink data rate process starts
0:03:03.408858	LOG	Uplink received with expected Data Rate
0:03:03.412857	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:08.394041	LOG	PUSH_ACK: 01 66f1 01 fffeb827eb59d368
0:03:08.397042	LOG	PUSH_DATA: Protocol version = 01, Token = 66f1, Identifier = 00, JSON = {'rxpk': [{'tmst': 725194452, 'time': '2021-10-08T04:15:42.327514Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -14, 'size': 15, 'data': 'QCAgICCAwgABVbupWlRu'}]}
0:03:08.398038	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00c2, FOpts:), FPort: 01, FRMPayload: 0055, MIC: a95a546e)
0:03:08.399041	LOG	Server <---------- DUT
0:03:08.401037	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0063, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 8076bdc9)

0:03:08.404038	LOG	Frame command sent to the DUT
0:03:08.405037	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 726194452, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAYwDgEM2OrdFIKh1d/fWos1sXsMkZJD+FHc6L9hOdv2XYY/siqtQWoQCYl7Uy5dWn3IUXrYKIgHa9yQ=='}}
0:03:08.406038	LOG	Server ----------> DUT
0:03:08.409036	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:08.412035	LOG	Check previous uplink data rate process starts
0:03:08.416027	LOG	Uplink received with expected Data Rate
0:03:08.421024	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:12.407371	LOG	PULL_DATA: 01 7cc0 02 fffeb827eb59d368
0:03:12.409371	LOG	PULL_ACK: 01 7cc0 04 fffeb827eb59d368
0:03:13.410804	LOG	PUSH_ACK: 01 7cbb 01 fffeb827eb59d368
0:03:13.412803	LOG	PUSH_DATA: Protocol version = 01, Token = 7cbb, Identifier = 00, JSON = {'rxpk': [{'tmst': 730211084, 'time': '2021-10-08T04:15:47.344659Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 12.0, 'rssi': -11, 'size': 15, 'data': 'QCAgICCAwwABm3cFq0QE'}]}
0:03:13.413802	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00c3, FOpts:), FPort: 01, FRMPayload: 0056, MIC: 05ab4404)
0:03:13.415801	LOG	Server <---------- DUT
0:03:13.417802	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0064, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: ff88ba83)
0:03:13.420798	LOG	Frame command sent to the DUT
0:03:13.422797	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 731211084, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAZADgXRPcaLJbhbfsQPBT5fQo/4YuRs5zl/k5c6fBS3CYEdXYK7kDmsqg1VgJBaPVu/dAI6ag/4i6gw=='}}
0:03:13.424797	LOG	Server ----------> DUT
0:03:13.428794	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:13.433792	LOG	Check previous uplink data rate process starts
0:03:13.438788	LOG	Uplink received with expected Data Rate
0:03:13.442786	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:18.426257	LOG	PUSH_ACK: 01 22fc 01 fffeb827eb59d368
0:03:18.429256	LOG	PUSH_DATA: Protocol version = 01, Token = 22fc, Identifier = 00, JSON = {'rxpk': [{'tmst': 735227804, 'time': '2021-10-08T04:15:52.360419Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -12, 'size': 15, 'data': 'QCAgICCAxAABK5eMubT3'}]}
0:03:18.431255	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00c4, FOpts:), FPort: 01, FRMPayload: 0057, MIC: 8cb9b4f7)
0:03:18.433254	LOG	Server <---------- DUT
0:03:18.436252	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0065, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: b81fa2cf)
0:03:18.439250	LOG	Frame command sent to the DUT
0:03:18.441250	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 736227804, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAZQDgMS8TqgijkzvCqExApHFWNAKcXhj26aB8QWRJjkcmcObbq7QSA3AR3USMF1HBajIZft08uB+izw=='}}

0:03:18.443249	LOG	Server ----------> DUT
0:03:18.447246	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:18.451245	LOG	Check previous uplink data rate process starts
0:03:18.459240	LOG	Uplink received with expected Data Rate
0:03:18.463237	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:22.447217	LOG	PULL_DATA: 01 e466 02 fffeb827eb59d368
0:03:22.449217	LOG	PULL_ACK: 01 e466 04 fffeb827eb59d368
0:03:23.452554	LOG	PUSH_ACK: 01 da61 01 fffeb827eb59d368
0:03:23.454553	LOG	PUSH_DATA: Protocol version = 01, Token = da61, Identifier = 00, JSON = {'rxpk': [{'tmst': 740244508, 'time': '2021-10-08T04:15:57.385776Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -11, 'size': 15, 'data': 'QCAgICCAxQABy5zF0kC4'}]}
0:03:23.456552	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00c5, FOpts:), FPort: 01, FRMPayload: 0058, MIC: c5d240b8)
0:03:23.458551	LOG	Server <---------- DUT
0:03:23.460549	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0066, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: b7b268fe)
0:03:23.463548	LOG	Frame command sent to the DUT
0:03:23.465547	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 741244508, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAZgDgnls19N6F38ao3ocbWibT6Xj1Ws7ylJ9lPJKBaMyLSwqSdtHSobaFohcwmedh9wkwGyX5t7Jo/g=='}}
0:03:23.466546	LOG	Server ----------> DUT
0:03:23.473542	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:23.478540	LOG	Check previous uplink data rate process starts
0:03:23.484537	LOG	Uplink received with expected Data Rate
0:03:23.491532	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:28.468718	LOG	PUSH_ACK: 01 0b63 01 fffeb827eb59d368
0:03:28.471716	LOG	PUSH_DATA: Protocol version = 01, Token = 0b63, Identifier = 00, JSON = {'rxpk': [{'tmst': 745261228, 'time': '2021-10-08T04:16:02.402702Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -16, 'size': 15, 'data': 'QCAgICCAxgABJ3z4+Bl6'}]}
0:03:28.473716	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00c6, FOpts:), FPort: 01, FRMPayload: 0059, MIC: f8f8197a)
0:03:28.474714	LOG	Server <---------- DUT
0:03:28.477713	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0067, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: ab6921a6)
0:03:28.479712	LOG	Frame command sent to the DUT
0:03:28.481711	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 746261228, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAZwDgXKWAhj2Po/Lsqb1G+Zme5GFRY48sveWyGQ9ceNOaVFsC5J8m0g+3AKAduzUsrGneZrpBq2khpg=='}}
0:03:28.482710	LOG	Server ----------> DUT
0:03:28.487708	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:28.491706	LOG	Check previous uplink data rate process starts
0:03:28.496702	LOG	Uplink received with expected Data Rate
0:03:28.499700	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:32.486619	LOG	PULL_DATA: 01 af62 02 fffeb827eb59d368

0:03:32.491615	LOG	PULL_ACK: 01 af62 04 fffeb827eb59d368
0:03:33.482055	LOG	PUSH_ACK: 01 bc83 01 fffeb827eb59d368
0:03:33.484055	LOG	PUSH_DATA: Protocol version = 01, Token = bc83, Identifier = 00, JSON = {'rxpk': [{'tmst': 750277948, 'time': '2021-10-08T04:16:07.415292Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -11, 'size': 15, 'data': 'QCAgICCAxwABgg4EiFC7'}, {'tmst': 750277956, 'time': '2021-10-08T04:16:07.415292Z', 'chan': 6, 'rfch': 0, 'freq': 867.7, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': -18.0, 'rssi': -87, 'size': 15, 'data': 'QCAgICCAxwABgg4EiFC7'}]}
0:03:33.487053	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00c7, FOpts:), FPort: 01, FRMPayload: 005a, MIC: 048850bb)
0:03:33.488052	LOG	Server <---------- DUT
0:03:33.490051	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0068, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: e792e001)
0:03:33.493049	LOG	Frame command sent to the DUT
0:03:33.495048	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 751277948, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAaADg7fvAJtf34PtQJ8JB0xPh3NDCUYpJQfC8oQ/ecc4N6Ox4WC18b5CTHl5uwPlbTYHXr8Sd55LgAQ=='}}
0:03:33.496047	LOG	Server ----------> DUT
0:03:33.500045	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:33.504043	LOG	Check previous uplink data rate process starts
0:03:33.509040	LOG	Uplink received with expected Data Rate
0:03:33.512038	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:38.502217	LOG	PUSH_ACK: 01 b469 01 fffeb827eb59d368
0:03:38.504216	LOG	PUSH_DATA: Protocol version = 01, Token = b469, Identifier = 00, JSON = {'rxpk': [{'tmst': 755294668, 'time': '2021-10-08T04:16:12.435561Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -13, 'size': 15, 'data': 'QCAgICCAyAABi8H5v+WL'}]}
0:03:38.505217	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00c8, FOpts:), FPort: 01, FRMPayload: 005b, MIC: f9bfe58b)
0:03:38.507214	LOG	Server <---------- DUT
0:03:38.508213	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0069, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 7ef1122f)
0:03:38.510212	LOG	Frame command sent to the DUT
0:03:38.511212	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 756294668, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAaQDg8ky644Gl7ZnBnEY67k4PzlOLvp6E619ksUpHPpp4Ybut8Wehf1dga4qGZ2QOsmyPYmZZfvESLw=='}}
0:03:38.513211	LOG	Server ----------> DUT
0:03:38.516210	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:38.521206	LOG	Check previous uplink data rate process starts
0:03:38.526203	LOG	Uplink received with expected Data Rate
0:03:38.529203	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:42.517198	LOG	PULL_DATA: 01 2f3a 02 fffeb827eb59d368
0:03:42.519197	LOG	PULL_ACK: 01 2f3a 04 fffeb827eb59d368
0:03:43.512635	LOG	PUSH_ACK: 01 ffaf 01 fffeb827eb59d368
0:03:43.514634	LOG	PUSH_DATA: Protocol version = 01, Token = ffaf, Identifier = 00, JSON = {'rxpk': [{'tmst': 760311396, 'time': '2021-10-08T04:16:17.446014Z', 'chan': 2, 'rfch': 1,

		'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -11, 'size': 15, 'data': 'QCAgICCAyQAB1nYu5uvi'}]}
0:03:43.516633	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00c9, FOpts:), FPort: 01, FRMPayload: 005c, MIC: 2ee6ebe2)
0:03:43.518632	LOG	Server <---------- DUT
0:03:43.520631	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 006a, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: fe3f97fd)
0:03:43.524628	LOG	Frame command sent to the DUT
0:03:43.525628	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 761311396, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAagDgiob38tlVf/zpQx4C+DRet4P/RhvzHk9Dy6wT8AS87HSuRUY83kxOBCqvk4obYEefd7Dm/j+X/Q=='}}
0:03:43.527627	LOG	Server ----------> DUT
0:03:43.542618	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:43.546616	LOG	Check previous uplink data rate process starts
0:03:43.552613	LOG	Uplink received with expected Data Rate
0:03:43.555611	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:48.531030	LOG	PUSH_ACK: 01 2716 01 fffeb827eb59d368
0:03:48.533029	LOG	PUSH_DATA: Protocol version = 01, Token = 2716, Identifier = 00, JSON = {'rxpk': [{'tmst': 765328116, 'time': '2021-10-08T04:16:22.464313Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -15, 'size': 15, 'data': 'QCAgICCAygABNVI9Kk02'}]}
0:03:48.536028	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00ca, FOpts:), FPort: 01, FRMPayload: 005d, MIC: 3d2a4d36)
0:03:48.537027	LOG	Server <---------- DUT
0:03:48.539025	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 006b, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 25dc802e)
0:03:48.542024	LOG	Frame command sent to the DUT
0:03:48.544023	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 766328116, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAawDgJOPnOcA7e7Kkd19xmgmyXaIyN42qvt96vUGu8phmovswkBv1OK6s9oaQ0fwdoAoKK5FyJdyALg=='}}
0:03:48.545022	LOG	Server ----------> DUT
0:03:48.550019	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:48.554018	LOG	Check previous uplink data rate process starts
0:03:48.561013	LOG	Uplink received with expected Data Rate
0:03:48.566010	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:52.546760	LOG	PULL_DATA: 01 93ac 02 fffeb827eb59d368
0:03:52.549758	LOG	PULL_ACK: 01 93ac 04 fffeb827eb59d368
0:03:53.551191	LOG	PUSH_ACK: 01 071f 01 fffeb827eb59d368
0:03:53.553190	LOG	PUSH_DATA: Protocol version = 01, Token = 071f, Identifier = 00, JSON = {'rxpk': [{'tmst': 770344820, 'time': '2021-10-08T04:16:27.484282Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -11, 'size': 15, 'data': 'QCAgICCAywABi04+LIkr'}]}
0:03:53.555189	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00cb, FOpts:), FPort: 01, FRMPayload: 005e, MIC: 3e2c892b)
0:03:53.557188	LOG	Server <---------- DUT
0:03:53.559187	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 006c, FOpts:), FPort: e0, FRMPayload:

		07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 2dbeb9d5)
0:03:53.562185	LOG	Frame command sent to the DUT
0:03:53.564184	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 771344820, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAbADgySVWZ2g0u5Ho+oztVuBjnP67iWOPEfHISXrkbQWQuedmIx9brQrm/Q5SavZX2oSg5oxtLb651Q=='}}
0:03:53.565184	LOG	Server ----------> DUT
0:03:53.570181	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:53.578176	LOG	Check previous uplink data rate process starts
0:03:53.583175	LOG	Uplink received with expected Data Rate
0:03:53.589170	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:58.565325	LOG	PUSH_ACK: 01 b86d 01 fffeb827eb59d368
0:03:58.568324	LOG	PUSH_DATA: Protocol version = 01, Token = b86d, Identifier = 00, JSON = {'rxpk': [{'tmst': 775361532, 'time': '2021-10-08T04:16:32.499125Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -14, 'size': 15, 'data': 'QCAgICCAzAABKB6IakqV'}]}
0:03:58.570322	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00cc, FOpts:), FPort: 01, FRMPayload: 005f, MIC: 886a4a95)
0:03:58.571322	LOG	Server <---------- DUT
0:03:58.573320	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 006d, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: e99bcc9a)
0:03:58.576320	LOG	Frame command sent to the DUT
0:03:58.577319	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 776361532, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAbQDgac6simDof9QmnkjOXbW68WQtFdn3K6DbR3S9/B/Oz/wPD94oe90PzgBa42HTn26puTyS6ZvMmg=='}}
0:03:58.578319	LOG	Server ----------> DUT
0:03:58.581316	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:58.585314	LOG	Check previous uplink data rate process starts
0:03:58.590311	LOG	Uplink received with expected Data Rate
0:03:58.594309	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:02.577136	LOG	PULL_DATA: 01 2d8d 02 fffeb827eb59d368
0:04:02.582134	LOG	PULL_ACK: 01 2d8d 04 fffeb827eb59d368
0:04:03.582600	LOG	PUSH_ACK: 01 ef4f 01 fffeb827eb59d368
0:04:03.584598	LOG	PUSH_DATA: Protocol version = 01, Token = ef4f, Identifier = 00, JSON = {'rxpk': [{'tmst': 780378252, 'time': '2021-10-08T04:16:37.515626Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -12, 'size': 15, 'data': 'QCAgICCAzQABLsnsu/ke'}]}
0:04:03.586566	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00cd, FOpts:), FPort: 01, FRMPayload: 0060, MIC: ecbbf91e)
0:04:03.587565	LOG	Server <---------- DUT
0:04:03.589564	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 006e, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 79a66b26)
0:04:03.591563	LOG	Frame command sent to the DUT
0:04:03.592563	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 781378252, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data':

		'YCAgICAAbgDgSdPKYnNpjC3PRDNm5WD1fA/0K3AH+MbD5h9reffmufUDmG4tz1Z64wIBzsemppiFvNJ5eaZrJg=='}}
0:04:03.594562	LOG	Server ----------> DUT
0:04:03.597560	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:03.601558	LOG	Check previous uplink data rate process starts
0:04:03.606555	LOG	Uplink received with expected Data Rate
0:04:03.609553	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:08.600263	LOG	PUSH_ACK: 01 89d4 01 fffeb827eb59d368
0:04:08.602262	LOG	PUSH_DATA: Protocol version = 01, Token = 89d4, Identifier = 00, JSON = {'rxpk': [{'tmst': 785394988, 'time': '2021-10-08T04:16:42.533450Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 12.2, 'rssi': -15, 'size': 15, 'data': 'QCAgICCAzgABG7ubKlf7'}]}
0:04:08.604261	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00ce, FOpts:), FPort: 01, FRMPayload: 0061, MIC: 9b2a57fb)
0:04:08.606260	LOG	Server <---------- DUT
0:04:08.608258	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 006f, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 140f8a87)
0:04:08.638242	LOG	Frame command sent to the DUT
0:04:08.640240	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 786394988, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAbwDgP+lTQKVC0hYKIglfelgYbpVLgd8YwcX41OYWMstHMuUrEtjjums6VmyJxjMbP/edf7OWFA+Khw=='}}
0:04:08.641239	LOG	Server ----------> DUT
0:04:08.646237	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:08.649235	LOG	Check previous uplink data rate process starts
0:04:08.656231	LOG	Uplink received with expected Data Rate
0:04:08.660229	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:12.637108	LOG	PULL_DATA: 01 b663 02 fffeb827eb59d368
0:04:12.639108	LOG	PULL_ACK: 01 b663 04 fffeb827eb59d368
0:04:13.618553	LOG	PUSH_ACK: 01 35c1 01 fffeb827eb59d368
0:04:13.620552	LOG	PUSH_DATA: Protocol version = 01, Token = 35c1, Identifier = 00, JSON = {'rxpk': [{'tmst': 790411708, 'time': '2021-10-08T04:16:47.551807Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -12, 'size': 15, 'data': 'QCAgICCAzwABzs7xQqp1'}]}
0:04:13.622551	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00cf, FOpts:), FPort: 01, FRMPayload: 0062, MIC: f142aa75)
0:04:13.624550	LOG	Server <---------- DUT
0:04:13.626549	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0070, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: deafbf77)
0:04:13.629548	LOG	Frame command sent to the DUT
0:04:13.631546	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 791411708, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAcADgFB458ihcRHJ0qPLJBnqFBJSjGzpZ85X94cWiXs8Nm13Z5x3EdGe5wR8ygyFFDfpo2GN+3q+/dw=='}}
0:04:13.632546	LOG	Server ----------> DUT
0:04:13.640541	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:13.643539	LOG	Check previous uplink data rate process starts
0:04:13.647536	LOG	Uplink received with expected Data Rate

0:04:13.650535	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:18.628184	LOG	PUSH_ACK: 01 c7e4 01 fffeb827eb59d368
0:04:18.630184	LOG	PUSH_DATA: Protocol version = 01, Token = c7e4, Identifier = 00, JSON = {'rxpk': [{'tmst': 795428420, 'time': '2021-10-08T04:16:52.561160Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -14, 'size': 15, 'data': 'QCAgICCA0AABKZpYPK4g'}]}
0:04:18.632182	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00d0, FOpts:), FPort: 01, FRMPayload: 0063, MIC: 583cae20)
0:04:18.634181	LOG	Server <---------- DUT
0:04:18.636181	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0071, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: e83053d5)
0:04:18.639179	LOG	Frame command sent to the DUT
0:04:18.641178	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 796428420, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAcQDg4FhlFjJ0LTcE16PQaod9KRLw40PrYzZxcopgHENrl8iVdOUxQk6UCQRWY+AB2fAgzNnh6DBT1Q=='}}
0:04:18.643176	LOG	Server ----------> DUT
0:04:18.647174	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:18.650172	LOG	Check previous uplink data rate process starts
0:04:18.659167	LOG	Uplink received with expected Data Rate
0:04:18.664164	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:22.646942	LOG	PULL_DATA: 01 2483 02 fffeb827eb59d368
0:04:22.649915	LOG	PULL_ACK: 01 2483 04 fffeb827eb59d368
0:04:23.645348	LOG	PUSH_ACK: 01 67d8 01 fffeb827eb59d368
0:04:23.647347	LOG	PUSH_DATA: Protocol version = 01, Token = 67d8, Identifier = 00, JSON = {'rxpk': [{'tmst': 800445148, 'time': '2021-10-08T04:16:57.578803Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -12, 'size': 15, 'data': 'QCAgICCA0QABK6rxAk5f'}]}
0:04:23.649346	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00d1, FOpts:), FPort: 01, FRMPayload: 0064, MIC: f1024e5f)
0:04:23.651344	LOG	Server <---------- DUT
0:04:23.653344	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0072, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 7c4584a2)
0:04:23.656342	LOG	Frame command sent to the DUT
0:04:23.657341	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 801445148, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAcgDgY0RUmt/WDIVm6rH7HvsysgXrY5wKtcwhfee0Aqt/20fO4NnSWAGHuo7zI0hg5T+HGCkAfEWEog=='}}
0:04:23.659340	LOG	Server ----------> DUT
0:04:23.663338	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:23.667335	LOG	Check previous uplink data rate process starts
0:04:23.674331	LOG	Uplink received with expected Data Rate
0:04:23.678329	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:28.665606	LOG	PUSH_ACK: 01 ed96 01 fffeb827eb59d368
0:04:28.668603	LOG	PUSH_DATA: Protocol version = 01, Token = ed96, Identifier = 00, JSON = {'rxpk': [{'tmst': 805461876, 'time': '2021-10-08T04:17:02.599624Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -13, 'size': 15, 'data': 'QCAgICCA0gABDJNs5swC'}]}

0:04:28.670601	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00d2, FOpts:), FPort: 01, FRMPayload: 0065, MIC: 6ce6cc02)
0:04:28.672601	LOG	Server <---------- DUT
0:04:28.675600	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0073, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 649d10fe)
0:04:28.678597	LOG	Frame command sent to the DUT
0:04:28.680597	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 806461876, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAcwDga6Jn432O96DnnMVSECrmcPiuWEMEQR3m/vBl96DhNPbyt6hQKV7KK6uS5dPiS0q0Na6yZJ0Q/g=='}}
0:04:28.681596	LOG	Server ----------> DUT
0:04:28.691590	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:28.696556	LOG	Check previous uplink data rate process starts
0:04:28.708549	LOG	Uplink received with expected Data Rate
0:04:28.711548	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:32.677434	LOG	PULL_DATA: 01 12ec 02 fffeb827eb59d368
0:04:32.680432	LOG	PULL_ACK: 01 12ec 04 fffeb827eb59d368
0:04:33.682865	LOG	PUSH_ACK: 01 4539 01 fffeb827eb59d368
0:04:33.684865	LOG	PUSH_DATA: Protocol version = 01, Token = 4539, Identifier = 00, JSON = {'rxpk': [{'tmst': 810478612, 'time': '2021-10-08T04:17:07.616237Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -11, 'size': 15, 'data': 'QCAgICCA0wABdsNGBrQJ'}]}
0:04:33.686863	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00d3, FOpts:), FPort: 01, FRMPayload: 0066, MIC: 4606b409)
0:04:33.688862	LOG	Server <---------- DUT
0:04:33.690861	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0074, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: bcb5d18d)
0:04:33.693859	LOG	Frame command sent to the DUT
0:04:33.695858	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 811478612, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAdADgMP8Rflv1lzAVkmq9jExWepVaK6/UpSzr7PX6VAV1Hqv0RJzChRFvtRIoFbC/P/zzn4bWvLXRjQ=='}}
0:04:33.696857	LOG	Server ----------> DUT
0:04:33.701854	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:33.707851	LOG	Check previous uplink data rate process starts
0:04:33.712849	LOG	Uplink received with expected Data Rate
0:04:33.715847	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:38.699029	LOG	PUSH_ACK: 01 02d8 01 fffeb827eb59d368
0:04:38.702028	LOG	PUSH_DATA: Protocol version = 01, Token = 02d8, Identifier = 00, JSON = {'rxpk': [{'tmst': 815495332, 'time': '2021-10-08T04:17:12.632822Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -14, 'size': 15, 'data': 'QCAgICCA1AABgDfdYGP+'}]}
0:04:38.704026	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00d4, FOpts:), FPort: 01, FRMPayload: 0067, MIC: dd6063fe)
0:04:38.706025	LOG	Server <---------- DUT
0:04:38.708024	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0075, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 802bda47)

0:04:38.711022	LOG	Frame command sent to the DUT
0:04:38.712022	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 816495332, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAdQDgyDBvI4Eh40nMgruHjtvw2jw5Bz9ICcmPm2Nj12wpOe8kpDKK9siwn7nEelxmKIgayj1LgCvaRw=='}}
0:04:38.714020	LOG	Server ----------> DUT
0:04:38.717019	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:38.720018	LOG	Check previous uplink data rate process starts
0:04:38.728012	LOG	Uplink received with expected Data Rate
0:04:38.731013	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:42.716775	LOG	PULL_DATA: 01 e50a 02 fffeb827eb59d368
0:04:42.718757	LOG	PULL_ACK: 01 e50a 04 fffeb827eb59d368
0:04:43.716192	LOG	PUSH_ACK: 01 f89d 01 fffeb827eb59d368
0:04:43.719191	LOG	PUSH_DATA: Protocol version = 01, Token = f89d, Identifier = 00, JSON = {'rxpk': [{'tmst': 820512060, 'time': '2021-10-08T04:17:17.649885Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -12, 'size': 15, 'data': 'QCAgICCA1QABnozH8W13'}]}
0:04:43.721190	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00d5, FOpts:), FPort: 01, FRMPayload: 0068, MIC: c7f16d77)
0:04:43.722189	LOG	Server <---------- DUT
0:04:43.724188	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0076, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 91ea8e3f)
0:04:43.727186	LOG	Frame command sent to the DUT
0:04:43.729185	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 821512060, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAdgDgHi0R6cnb4tpZXA0C6N+ZWaZn3nB9yFCRQ7rCcjWWP9iYjGiCB1Hx2JIpx/GH2ZcQ1w8ukeqOPw=='}}
0:04:43.730184	LOG	Server ----------> DUT
0:04:43.733183	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:43.737181	LOG	Check previous uplink data rate process starts
0:04:43.743177	LOG	Uplink received with expected Data Rate
0:04:43.747175	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:48.732356	LOG	PUSH_ACK: 01 7709 01 fffeb827eb59d368
0:04:48.734354	LOG	PUSH_DATA: Protocol version = 01, Token = 7709, Identifier = 00, JSON = {'rxpk': [{'tmst': 825528772, 'time': '2021-10-08T04:17:22.666012Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -14, 'size': 15, 'data': 'QCAgICCA1gAB8Q8WvhqA'}]}
0:04:48.736354	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00d6, FOpts:), FPort: 01, FRMPayload: 0069, MIC: 16be1a80)
0:04:48.738354	LOG	Server <---------- DUT
0:04:48.740351	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0077, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 48166bc9)
0:04:48.743350	LOG	Frame command sent to the DUT
0:04:48.744349	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 826528772, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAdwDgXtasCd1sHTwnH7OgWtGcfLt+A1T0qxlOtCFQptGq5ctvizBB9+iBndyhUDzee9FfmA8NSBZryQ=='}}

0:04:48.746349	LOG	Server ----------> DUT
0:04:48.750347	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:48.753346	LOG	Check previous uplink data rate process starts
0:04:48.759341	LOG	Uplink received with expected Data Rate
0:04:48.764338	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:52.746851	LOG	PULL_DATA: 01 d1a5 02 fffeb827eb59d368
0:04:52.748820	LOG	PULL_ACK: 01 d1a5 04 fffeb827eb59d368
0:04:53.747256	LOG	PUSH_ACK: 01 96c1 01 fffeb827eb59d368
0:04:53.750254	LOG	PUSH_DATA: Protocol version = 01, Token = 96c1, Identifier = 00, JSON = {'rxpk': [{'tmst': 830545492, 'time': '2021-10-08T04:17:27.681406Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 12.0, 'rssi': -11, 'size': 15, 'data': 'QCAgICCA1wAB5vVLCEXh'}]}
0:04:53.752253	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00d7, FOpts:), FPort: 01, FRMPayload: 006a, MIC: 4b0845e1)
0:04:53.753253	LOG	Server <---------- DUT
0:04:53.756251	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0078, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 5b0e3fd7)
0:04:53.759249	LOG	Frame command sent to the DUT
0:04:53.761248	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 831545492, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAeADgp70n2/VuB5kMBOiLHRo0EYZKiwsHAPR/IirX/Npan4B3U8q3s4LWiL9eSa8iH5DgMpotWw4/1w=='}}
0:04:53.763247	LOG	Server ----------> DUT
0:04:53.769243	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:53.777239	LOG	Check previous uplink data rate process starts
0:04:53.782236	LOG	Uplink received with expected Data Rate
0:04:53.786236	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:58.766418	LOG	PUSH_ACK: 01 f41f 01 fffeb827eb59d368
0:04:58.768417	LOG	PUSH_DATA: Protocol version = 01, Token = f41f, Identifier = 00, JSON = {'rxpk': [{'tmst': 835562220, 'time': '2021-10-08T04:17:32.699226Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -13, 'size': 15, 'data': 'QCAgICCA2AABst5sEOxY'}]}
0:04:58.771415	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00d8, FOpts:), FPort: 01, FRMPayload: 006b, MIC: 6c10ec58)
0:04:58.772414	LOG	Server <---------- DUT
0:04:58.775413	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0079, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: d348ccd2)
0:04:58.777412	LOG	Frame command sent to the DUT
0:04:58.779411	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 836562220, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAeQDgdtcDY7/i3u7u1L8sIfA8EBbeJpwAYvGDfWXJqE0vYa5zZrtFDMGjZhajHEoeh7stmvq800jM0g=='}}
0:04:58.780410	LOG	Server ----------> DUT
0:04:58.784408	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:58.790404	LOG	Check previous uplink data rate process starts
0:04:58.795402	LOG	Uplink received with expected Data Rate
0:04:58.799399	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:02.777180	LOG	PULL_DATA: 01 95aa 02 fffeb827eb59d368

0:05:02.782149	LOG	PULL_ACK: 01 95aa 04 fffeb827eb59d368
0:05:03.783581	LOG	PUSH_ACK: 01 82ca 01 fffeb827eb59d368
0:05:03.785580	LOG	PUSH_DATA: Protocol version = 01, Token = 82ca, Identifier = 00, JSON = {'rxpk': [{'tmst': 840578940, 'time': '2021-10-08T04:17:37.716989Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -11, 'size': 15, 'data': 'QCAgICCA2QABL9kMIQzp'}]}
0:05:03.787579	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00d9, FOpts:), FPort: 01, FRMPayload: 006c, MIC: 0c210ce9)
0:05:03.789578	LOG	Server <---------- DUT
0:05:03.791577	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 007a, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 973c66fb)
0:05:03.794575	LOG	Frame command sent to the DUT
0:05:03.795574	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 841578940, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAegDglFEp+spmRsz2ZYFkbUe3kEB+RbagUKr4aGaPj5PvvumDb6sRH7P/+pJpOvC3/807ajFxlzxm+w=='}}
0:05:03.796576	LOG	Server ----------> DUT
0:05:03.798574	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:03.801572	LOG	Check previous uplink data rate process starts
0:05:03.804570	LOG	Uplink received with expected Data Rate
0:05:03.808567	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:08.802729	LOG	PUSH_ACK: 01 6c49 01 fffeb827eb59d368
0:05:08.805728	LOG	PUSH_DATA: Protocol version = 01, Token = 6c49, Identifier = 00, JSON = {'rxpk': [{'tmst': 845595652, 'time': '2021-10-08T04:17:42.736688Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 12.0, 'rssi': -11, 'size': 15, 'data': 'QCAgICCA2gABSizhZDkK'}]}
0:05:08.807726	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00da, FOpts:), FPort: 01, FRMPayload: 006d, MIC: e164390a)
0:05:08.809725	LOG	Server <---------- DUT
0:05:08.811724	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 007b, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: ba182469)
0:05:08.814722	LOG	Frame command sent to the DUT
0:05:08.815722	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 846595652, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAewDgjYJKEUmwINDWXBLQkVwhWHyLZxbeRlO1ZCtpTa35jFNdMtaUZY6MPaSpAi3qieM1X5mNuhgkaQ=='}}
0:05:08.817721	LOG	Server ----------> DUT
0:05:08.824717	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:08.834711	LOG	Check previous uplink data rate process starts
0:05:08.845705	LOG	Uplink received with expected Data Rate
0:05:08.850703	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:12.827454	LOG	PULL_DATA: 01 ae90 02 fffeb827eb59d368
0:05:12.828471	LOG	PULL_ACK: 01 ae90 04 fffeb827eb59d368
0:05:13.820892	LOG	PUSH_ACK: 01 cd16 01 fffeb827eb59d368
0:05:13.822891	LOG	PUSH_DATA: Protocol version = 01, Token = cd16, Identifier = 00, JSON = {'rxpk': [{'tmst': 850612364, 'time': '2021-10-08T04:17:47.754180Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -11, 'size': 15, 'data': 'QCAgICCA2wABovG2crma'}]}

0:05:13.825889	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00db, FOpts:), FPort: 01, FRMPayload: 006e, MIC: b672b99a)
0:05:13.827888	LOG	Server <---------- DUT
0:05:13.829887	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 007c, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: ac59b01b)
0:05:13.831886	LOG	Frame command sent to the DUT
0:05:13.833885	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 851612364, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAfADgad06OtNhEiWkf3gGE+/sYq/BY60GL1d6/lQr4w5tWkq8JxCMG+k5xVe5nc3ov7TwXAWtrFmwGw=='}}
0:05:13.834884	LOG	Server ----------> DUT
0:05:13.841880	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:13.845878	LOG	Check previous uplink data rate process starts
0:05:13.851874	LOG	Uplink received with expected Data Rate
0:05:13.858871	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:18.838229	LOG	PUSH_ACK: 01 68ba 01 fffeb827eb59d368
0:05:18.840229	LOG	PUSH_DATA: Protocol version = 01, Token = 68ba, Identifier = 00, JSON = {'rxpk': [{'tmst': 855629076, 'time': '2021-10-08T04:17:52.771661Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -13, 'size': 15, 'data': 'QCAgICCA3AABYB3Ognr8'}]}
0:05:18.841227	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00dc, FOpts:), FPort: 01, FRMPayload: 006f, MIC: ce827afc)
0:05:18.843226	LOG	Server <---------- DUT
0:05:18.844225	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 007d, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 17dbe5e2)
0:05:18.846224	LOG	Frame command sent to the DUT
0:05:18.848223	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 856629076, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAfQDguN+DQrCJQXTnTiDfi/HQzswAI2lsbnmea8i9Vv4yhoDskpjxMYg8c6nbetwa2qfDMKOrF9vl4g=='}}
0:05:18.849222	LOG	Server ----------> DUT
0:05:18.853220	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:18.856220	LOG	Check previous uplink data rate process starts
0:05:18.860216	LOG	Uplink received with expected Data Rate
0:05:18.864214	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:22.847467	LOG	PULL_DATA: 01 ac7a 02 fffeb827eb59d368
0:05:22.848468	LOG	PULL_ACK: 01 ac7a 04 fffeb827eb59d368
0:05:23.844903	LOG	PUSH_ACK: 01 a6f2 01 fffeb827eb59d368
0:05:23.847901	LOG	PUSH_DATA: Protocol version = 01, Token = a6f2, Identifier = 00, JSON = {'rxpk': [{'tmst': 860645796, 'time': '2021-10-08T04:17:57.778790Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -11, 'size': 15, 'data': 'QCAgICCA3QABm9TbUcJn'}]}
0:05:23.849900	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00dd, FOpts:), FPort: 01, FRMPayload: 0070, MIC: db51c267)
0:05:23.850900	LOG	Server <---------- DUT
0:05:23.853898	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 007e, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: dd358e12)

0:05:23.855897	LOG	Frame command sent to the DUT
0:05:23.858895	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 861645796, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAfgDgXh3pAu97ds5bqlXwz/MwLDBmQVUU67H1YIqcAuirF3VZQMWAadvqyhsiMqISWUA8vqdF3TWOEg=='}}
0:05:23.859894	LOG	Server ----------> DUT
0:05:23.864892	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:23.868890	LOG	Check previous uplink data rate process starts
0:05:23.874886	LOG	Uplink received with expected Data Rate
0:05:23.879883	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:28.862600	LOG	PUSH_ACK: 01 b4a8 01 fffeb827eb59d368
0:05:28.864598	LOG	PUSH_DATA: Protocol version = 01, Token = b4a8, Identifier = 00, JSON = {'rxpk': [{'tmst': 865662516, 'time': '2021-10-08T04:18:02.796022Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -14, 'size': 15, 'data': 'QCAgICCA3gABRXPPyps9'}]}
0:05:28.866597	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00de, FOpts:), FPort: 01, FRMPayload: 0071, MIC: cfca9b3d)
0:05:28.868596	LOG	Server <---------- DUT
0:05:28.870595	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 007f, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: f512b285)
0:05:28.873595	LOG	Frame command sent to the DUT
0:05:28.877591	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 866662516, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAfwDgNxJGCqSLEDgIhI4Ap4fd+BzT/sEJ32B8iGd/ogofRGSmpG5XZLFye8kYyGE2ABud6QbD9RKyhQ=='}}
0:05:28.882591	LOG	Server ----------> DUT
0:05:28.895582	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:28.902579	LOG	Check previous uplink data rate process starts
0:05:28.907577	LOG	Uplink received with expected Data Rate
0:05:28.911575	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:32.887350	LOG	PULL_DATA: 01 ca99 02 fffeb827eb59d368
0:05:32.891347	LOG	PULL_ACK: 01 ca99 04 fffeb827eb59d368
0:05:33.887783	LOG	PUSH_ACK: 01 b2c2 01 fffeb827eb59d368
0:05:33.890781	LOG	PUSH_DATA: Protocol version = 01, Token = b2c2, Identifier = 00, JSON = {'rxpk': [{'tmst': 870679220, 'time': '2021-10-08T04:18:07.821442Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 12.2, 'rssi': -11, 'size': 15, 'data': 'QCAgICCA3wABat9exQod'}]}
0:05:33.892780	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00df, FOpts:), FPort: 01, FRMPayload: 0072, MIC: 5ec50a1d)
0:05:33.893779	LOG	Server <---------- DUT
0:05:33.895778	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0080, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: db24a8d0)
0:05:33.899776	LOG	Frame command sent to the DUT
0:05:33.901775	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 871679220, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAgADgRSjua63EvrsDajTJpbZU+KRtQ6q5kSg5+VOO1IaD1r8WqlSs+COESD5FVk9KPIj+9hc02ySo0A=='}}

0:05:33.903774	LOG	Server ----------> DUT
0:05:33.912769	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:33.918767	LOG	Check previous uplink data rate process starts
0:05:33.927760	LOG	Uplink received with expected Data Rate
0:05:33.933757	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:38.898949	LOG	PUSH_ACK: 01 372a 01 fffeb827eb59d368
0:05:38.901948	LOG	PUSH_DATA: Protocol version = 01, Token = 372a, Identifier = 00, JSON = {'rxpk': [{'tmst': 875695932, 'time': '2021-10-08T04:18:12.832862Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -14, 'size': 15, 'data': 'QCAgICCA4AABy5zU+uQc'}]}
0:05:38.903946	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00e0, FOpts:), FPort: 01, FRMPayload: 0073, MIC: d4fae41c)
0:05:38.904946	LOG	Server <---------- DUT
0:05:38.907944	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0081, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: ec8fbe85)
0:05:38.910942	LOG	Frame command sent to the DUT
0:05:38.912941	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 876695932, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAgQDgPr3Rt6HBs1c5O23k1+Hvu64/2JDN/tV8aeYzp0bYoG2bCX/00i18x3sQeLNVlTefAurR7I++hQ=='}}
0:05:38.914941	LOG	Server ----------> DUT
0:05:38.918938	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:38.925934	LOG	Check previous uplink data rate process starts
0:05:38.932931	LOG	Uplink received with expected Data Rate
0:05:38.936928	LOG	Send Test Command RxAppCntReq process starts
0:05:42.917779	LOG	PULL_DATA: 01 cb08 02 fffeb827eb59d368
0:05:42.919783	LOG	PULL_ACK: 01 cb08 04 fffeb827eb59d368
0:05:43.917212	LOG	PUSH_ACK: 01 cf61 01 fffeb827eb59d368
0:05:43.919211	LOG	PUSH_DATA: Protocol version = 01, Token = cf61, Identifier = 00, JSON = {'rxpk': [{'tmst': 880712652, 'time': '2021-10-08T04:18:17.850143Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -11, 'size': 15, 'data': 'QCAgICCA4QABBaLiOdjh'}]}
0:05:43.921210	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00e1, FOpts:), FPort: 01, FRMPayload: 0074, MIC: e239d8e1)
0:05:43.923209	LOG	Server <---------- DUT
0:05:43.925208	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0082, FOpts:), FPort: e0, FRMPayload: 09), MIC: 66c3bf02)
0:05:43.927207	LOG	Frame command sent to the DUT
0:05:43.929206	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 881712652, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAAggDgpWbDvwI='}}
0:05:43.931204	LOG	Server ----------> DUT
0:05:49.087000	LOG	PUSH_ACK: 01 c9c3 01 fffeb827eb59d368
0:05:49.088997	LOG	PUSH_DATA: Protocol version = 01, Token = c9c3, Identifier = 00, JSON = {'rxpk': [{'tmst': 885882012, 'time': '2021-10-08T04:18:23.020525Z', 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -16, 'size': 16, 'data': 'QCAgICCA4gDgaYle1+pA2w=='}]}
0:05:49.089997	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00e2, FOpts:), FPort: e0, FRMPayload: 097500, MIC: d7ea40db)
0:05:49.091996	LOG	Server <---------- DUT
0:05:49.092997	LOG	Answer in payload: 7500

0:05:49.094994	LOG	Frame Command Payload in the Answer: 097500
0:05:49.099991	LOG	RX Count received by DUT: 117
0:05:49.101990	LOG	Send Test Command RxAppCntReq process completed
0:05:49.114983	LOG	End Test Step: Test packet error rate for SF12BW125 using RX1 window
0:05:49.120979	LOG	Partial Verdict: PASS
0:05:49.125976	LOG	==========
0:05:49.131973	LOG	==========
0:05:49.134971	LOG	Start Test Step: Test packet error rate for SF7BW250 using RX1 window
0:05:49.148981	LOG	End Test Step: Test packet error rate for SF7BW250 using RX1 window
0:05:49.152962	LOG	TEST STEP NOT APPLICABLE
0:05:49.155960	LOG	==========
0:05:49.161956	LOG	==========
0:05:49.164954	LOG	Start Test Step: Test packet error rate for FSK50 using RX1 window
0:05:49.177946	LOG	End Test Step: Test packet error rate for FSK50 using RX1 window
0:05:49.179946	LOG	TEST STEP NOT APPLICABLE
0:05:49.183944	LOG	==========
0:05:49.190940	LOG	==========
0:05:49.192939	LOG	Start Test Step: Restore default settings
0:05:49.205932	LOG	Send LinkADRReq process starts
0:05:52.927292	LOG	PULL_DATA: 01 805e 02 fffeb827eb59d368
0:05:52.928291	LOG	PULL_ACK: 01 805e 04 fffeb827eb59d368
0:05:53.920730	LOG	PUSH_ACK: 01 6e03 01 fffeb827eb59d368
0:05:53.922729	LOG	PUSH_DATA: Protocol version = 01, Token = 6e03, Identifier = 00, JSON = {'rxpk': [{'tmst': 890717820, 'time': '2021-10-08T04:18:27.853973Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.0, 'rssi': -11, 'size': 15, 'data': 'QCAgICCA4wABnkVsaqKc'}]}
0:05:53.924727	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00e3, FOpts:), FPort: 01, FRMPayload: 0075, MIC: 6c6aa29c)
0:05:53.926727	LOG	Server <---------- DUT
0:05:53.928725	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0083, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: 46176e81)
0:05:53.930724	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 892717820, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAgwAA6Lt2Y6JGF26B'}}
0:05:53.932723	LOG	Server ----------> DUT
0:05:57.793539	LOG	PUSH_ACK: 01 28da 01 fffeb827eb59d368
0:05:57.796538	LOG	PUSH_DATA: Protocol version = 01, Token = 28da, Identifier = 00, JSON = {'rxpk': [{'tmst': 894616947, 'time': '2021-10-08T04:18:31.727269Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -13, 'size': 17, 'data': 'QCAgICCC5AADBwHn1uNZ1UY='}]}
0:05:57.798538	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 00e4, FOpts: 0307), FPort: 01, FRMPayload: 0075, MIC: e359d546)
0:05:57.799536	LOG	Server <---------- DUT
0:05:57.800537	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:05:57.801536	LOG	Command Answer: 0307
0:05:57.809531	LOG	MAC command communication completed
0:05:57.813529	LOG	Send RXParamSetupReq process starts
0:06:02.789904	LOG	PUSH_ACK: 01 4cd7 01 fffeb827eb59d368
0:06:02.792902	LOG	PUSH_DATA: Protocol version = 01, Token = 4cd7, Identifier = 00, JSON = {'rxpk': [{'tmst': 899614411, 'time': '2021-10-08T04:18:36.723784Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -14, 'size': 15, 'data': 'QCAgICCA5QABFinDRLPG'}]}
0:06:02.793901	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00e5, FOpts:), FPort: 01, FRMPayload: 0075, MIC: c344b3c6)

0:06:02.795901	LOG	Server <---------- DUT
0:06:02.796900	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0084, FOpts:), FPort: 00, FRMPayload: 0500d2ad84), MIC: 49aafc56)
0:06:02.798898	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 901614411, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAhAAAy5jn8ihJqvxW'}}
0:06:02.799897	LOG	Server ----------> DUT
0:06:02.997790	LOG	PULL_DATA: 01 6a19 02 fffeb827eb59d368
0:06:03.005786	LOG	PULL_ACK: 01 6a19 04 fffeb827eb59d368
0:06:07.800160	LOG	PUSH_ACK: 01 edd2 01 fffeb827eb59d368
0:06:07.802155	LOG	PUSH_DATA: Protocol version = 01, Token = edd2, Identifier = 00, JSON = {'rxpk': [{'tmst': 904622163, 'time': '2021-10-08T04:18:41.733133Z', 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -14, 'size': 17, 'data': 'QCAgICCC5gAFBwHv9BPBHgI='}]}
0:06:07.803159	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 00e6, FOpts: 0507), FPort: 01, FRMPayload: 0075, MIC: 13c11e02)
0:06:07.805153	LOG	Server <---------- DUT
0:06:07.806153	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:06:07.810151	LOG	Command Answer: 0507
0:06:07.827140	LOG	MAC command communication completed
0:06:07.831138	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:06:12.799327	LOG	PUSH_ACK: 01 d399 01 fffeb827eb59d368
0:06:12.801326	LOG	PUSH_DATA: Protocol version = 01, Token = d399, Identifier = 00, JSON = {'rxpk': [{'tmst': 909624803, 'time': '2021-10-08T04:18:46.732516Z', 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -14, 'size': 17, 'data': 'QCAgICCC5wAFBwG6+QUDDj8='}]}
0:06:12.802325	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 00e7, FOpts: 0507), FPort: 01, FRMPayload: 0075, MIC: 05030e3f)
0:06:12.803325	LOG	Server <---------- DUT
0:06:12.805324	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0085, FOpts:), FPort: e0, FRMPayload: 0501), MIC: 3dceb2ed)
0:06:12.807323	LOG	Frame command sent to the DUT
0:06:12.809322	LOG	PULL_RESP: Protocol version = 01, Token = 0000, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 911624803, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAhQDg7tM9zrLt'}}
0:06:12.813320	LOG	Server ----------> DUT
0:06:12.823315	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:06:12.829310	LOG	End Test Step: Restore default settings
0:06:12.834308	LOG	Partial Verdict: PASS
0:06:12.842303	LOG	==========
0:06:12.849299	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_015_B
0:06:12.851299	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_016
Verdict	PASS
Date	2021-10-18 09:41:39
Comments	RX2 Receive Window Test
Technology Version	LCTT v3.1.0_D1 | GUI v1.10.0
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.1
Test Specs Version	USv1.5.1/EUv1.6/KRv1.2.1/ASv1.1.1/INv1.1.1/ALLv1.1
Project	MLSv2.0.0
Project Creation Date	2021-10-17 22:25:22

Sample	DevID:SAMR34-XPRO | AppID:CertApp_EU_ABP | SW:MLSv2.0.0 | HW:SAMR34J18B	
Parameters	Data Rates to be measured	ALL
	Conformance	TRUE

Time Stamp (ms)	Event	Summary
0:00:00.012169	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_016
0:00:00.053146	LOG	==========
0:00:00.055147	LOG	Start Test Step: Device activation
0:00:00.112114	LOG	Activation process has finished successfully
0:00:00.114113	LOG	Data stored in the DUT after Activation:
0:00:00.116110	LOG	DevAddr: 20202020
0:00:00.119109	LOG	AppEUI: abcdabcdabcdabcd
0:00:00.122107	LOG	NwkSKey: abcdabcdabcdabcdabcdabcdabcdabcd
0:00:00.125105	LOG	AppSKey: 12345678123456781234567812345678
0:00:00.129103	LOG	End Test Step: Device activation
0:00:00.134100	LOG	Partial Verdict: PASS
0:00:00.138099	LOG	==========
0:00:00.143097	LOG	==========
0:00:00.145095	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.155090	LOG	DUT Pre-condition activation process starts
0:00:00.158108	LOG	DUT Pre-condition activation completed
0:00:00.161084	LOG	End Test Step: DUT Pre-condition settings
0:00:00.164083	LOG	Partial Verdict: PASS
0:00:00.167081	LOG	==========
0:00:00.173079	LOG	==========
0:00:00.175078	LOG	Start Test Step: Initial settings for the test
0:00:00.188069	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:00:02.246906	LOG	PULL_DATA: 02 d6c4 02 aa555a0000240409
0:00:02.248901	LOG	PULL_ACK: 02 d6c4 04
0:00:02.249905	LOG	First PULL_DATA received
0:00:04.431662	LOG	PUSH_ACK: 02 1881 01
0:00:04.435659	LOG	PUSH_DATA: Protocol version = 02, Token = 1881, Identifier = 00, JSON = {'rxpk': [{'tmst': 3749825500, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -1, 'size': 15, 'data': 'QCAgICCABgABQejARNfn'}]}
0:00:04.436659	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0006, FOpts:), FPort: 01, FRMPayload: 0001, MIC: c044d7e7)
0:00:04.438658	LOG	Server <---------- DUT
0:00:04.440657	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 035d, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 41547465)
0:00:04.442656	LOG	Frame command sent to the DUT
0:00:04.443655	LOG	PULL_RESP: Protocol version = 02, Token = 51dd, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3751825500, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAXQPgK7pBVHRl'}}
0:00:04.445654	LOG	Server ----------> DUT
0:00:04.449651	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:00:04.453649	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:09.428828	LOG	PUSH_ACK: 02 1882 01
0:00:09.430827	LOG	PUSH_DATA: Protocol version = 02, Token = 1882, Identifier = 00, JSON = {'rxpk': [{'tmst': 3754828095, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -1, 'size': 15, 'data': 'QCAgICCABwABfRh/VYEq'}]}

0:00:09.431827	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0007, FOpts:), FPort: 01, FRMPayload: 0002, MIC: 7f55812a)
0:00:09.432826	LOG	Server <---------- DUT
0:00:09.434824	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 035e, FOpts:), FPort: e0, FRMPayload: 0701), MIC: 67d8d7d5)
0:00:09.437821	LOG	Frame command sent to the DUT
0:00:09.438821	LOG	PULL_RESP: Protocol version = 02, Token = 39ac, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3756828095, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAXgPgrYtn2NfV'}}
0:00:09.440820	LOG	Server ----------> DUT
0:00:09.443819	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:09.447816	LOG	End Test Step: Initial settings for the test
0:00:09.451815	LOG	Partial Verdict: PASS
0:00:09.457811	LOG	==========
0:00:09.465806	LOG	==========
0:00:09.469804	LOG	Start Test Step: Test packet error rate for SF12BW125 using RX2 window
0:00:09.484795	LOG	Send RXParamSetupReq process starts
0:00:12.377156	LOG	PULL_DATA: 02 c326 02 aa555a0000240409
0:00:12.378156	LOG	PULL_ACK: 02 c326 04
0:00:14.430990	LOG	PUSH_ACK: 02 1883 01
0:00:14.432988	LOG	PUSH_DATA: Protocol version = 02, Token = 1883, Identifier = 00, JSON = {'rxpk': [{'tmst': 3759830722, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -1, 'size': 15, 'data': 'QCAgICCACAABdSdbSHxN'}]}
0:00:14.434988	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0008, FOpts:), FPort: 01, FRMPayload: 0003, MIC: 5b487c4d)
0:00:14.435986	LOG	Server <---------- DUT
0:00:14.436988	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 035f, FOpts:), FPort: 00, FRMPayload: 0500d2ad84), MIC: 54944a34)
0:00:14.439986	LOG	PULL_RESP: Protocol version = 02, Token = fe73, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3761830722, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAXwMAV6nRBU1UlEo0'}}
0:00:14.440984	LOG	Server ----------> DUT
0:00:14.446980	LOG	TX_ACK: 02 fe73 05 aa555a0000240409
0:00:19.443147	LOG	PUSH_ACK: 02 1884 01
0:00:19.446151	LOG	PUSH_DATA: Protocol version = 02, Token = 1884, Identifier = 00, JSON = {'rxpk': [{'tmst': 3764838494, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -3, 'size': 17, 'data': 'QCAgICCCCQAFBwGf8rw1n2o='}]}
0:00:19.447144	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0009, FOpts: 0507), FPort: 01, FRMPayload: 0003, MIC: bc359f6a)
0:00:19.448144	LOG	Server <---------- DUT
0:00:19.450142	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:19.451142	LOG	Command Answer: 0507
0:00:19.465133	LOG	MAC command communication completed
0:00:19.474128	LOG	Send Test Command RxAppCntReq process starts
0:00:22.426453	LOG	PULL_DATA: 02 2128 02 aa555a0000240409
0:00:22.428452	LOG	PULL_ACK: 02 2128 04
0:00:24.483288	LOG	PUSH_ACK: 02 1885 01
0:00:24.485286	LOG	PUSH_DATA: Protocol version = 02, Token = 1885, Identifier = 00, JSON = {'rxpk': [{'tmst': 3769841214, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -1, 'size': 17, 'data': 'QCAgICCCCgAFBwHAwyz5icI='}]}

0:00:24.486286	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 000a, FOpts: 0507), FPort: 01, FRMPayload: 0003, MIC: 2cf989c2)
0:00:24.487286	LOG	Server <---------- DUT
0:00:24.489285	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0360, FOpts:), FPort: e0, FRMPayload: 09), MIC: 669764cf)
0:00:24.491284	LOG	Frame command sent to the DUT
0:00:24.493282	LOG	PULL_RESP: Protocol version = 02, Token = 83a5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3771841214, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAAYAPg8GaXZM8='}}
0:00:24.494282	LOG	Server ----------> DUT
0:00:24.497280	LOG	TX_ACK: 02 83a5 05 aa555a0000240409
0:00:29.444471	LOG	PUSH_ACK: 02 1886 01
0:00:29.448469	LOG	PUSH_DATA: Protocol version = 02, Token = 1886, Identifier = 00, JSON = {'rxpk': [{'tmst': 3774846767, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -1, 'size': 16, 'data': 'QCAgICCACwDgiDDc/y72Cw=='}]}
0:00:29.449470	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 000b, FOpts:), FPort: e0, FRMPayload: 090400, MIC: ff2ef60b)
0:00:29.451486	LOG	Server <---------- DUT
0:00:29.453466	LOG	Answer in payload: 0400
0:00:29.454467	LOG	Frame Command Payload in the Answer: 090400
0:00:29.459463	LOG	RX Count received by DUT: 4
0:00:29.461462	LOG	Send Test Command RxAppCntReq process completed
0:00:29.466459	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:32.476751	LOG	PULL_DATA: 02 d558 02 aa555a0000240409
0:00:32.478751	LOG	PULL_ACK: 02 d558 04
0:00:34.448058	LOG	PUSH_ACK: 02 1888 01
0:00:34.450058	LOG	PUSH_DATA: Protocol version = 02, Token = 1888, Identifier = 00, JSON = {'rxpk': [{'tmst': 3779841311, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -3, 'size': 15, 'data': 'QCAgICCADAABsKTxKmy4'}]}
0:00:34.452056	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 000c, FOpts:), FPort: 01, FRMPayload: 0004, MIC: f12a6cb8)
0:00:34.453056	LOG	Server <---------- DUT
0:00:34.455054	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0361, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: d8ffda52)
0:00:34.458053	LOG	Frame command sent to the DUT
0:00:34.460052	LOG	PULL_RESP: Protocol version = 02, Token = 3aa8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3781841311, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAYQPgFFARXqo3dS8tCL+5wPjcvlvedAOyWSlMtUpqHxeZ+mLRHUeigVHOQI1LDVXha0o+fvTI2P/aUg=='}}
0:00:34.461051	LOG	Server ----------> DUT
0:00:34.464050	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:34.469047	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:39.438228	LOG	PUSH_ACK: 02 1889 01
0:00:39.440227	LOG	PUSH_DATA: Protocol version = 02, Token = 1889, Identifier = 00, JSON = {'rxpk': [{'tmst': 3784843914, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -2, 'size': 15, 'data': 'QCAgICCADQABQcXjSNuz'}]}
0:00:39.442227	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 000d, FOpts:), FPort: 01, FRMPayload: 0005, MIC: e348dbb3)

0:00:39.443225	LOG	Server <---------- DUT
0:00:39.445224	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0362, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 43c5e1a2)
0:00:39.448222	LOG	Frame command sent to the DUT
0:00:39.449222	LOG	PULL_RESP: Protocol version = 02, Token = 7dd8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3786843914, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAYgPgqiaY5uS2R//cxVbG/p1ulTzPyBlmFjDa3FebChAOdBHvm8Sk4q4NkVCiEK6tvxYZctPSQ8Xhog=='}}
0:00:39.451221	LOG	Server ----------> DUT
0:00:39.455218	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:39.460217	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:42.596437	LOG	PULL_DATA: 02 d0bf 02 aa555a0000240409
0:00:42.598435	LOG	PULL_ACK: 02 d0bf 04
0:00:44.440390	LOG	PUSH_ACK: 02 188a 01
0:00:44.443388	LOG	PUSH_DATA: Protocol version = 02, Token = 188a, Identifier = 00, JSON = {'rxpk': [{'tmst': 3789846541, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -4, 'size': 15, 'data': 'QCAgICCADgABf+32QQ2Y'}]}
0:00:44.445387	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 000e, FOpts:), FPort: 01, FRMPayload: 0006, MIC: f6410d98)
0:00:44.446387	LOG	Server <---------- DUT
0:00:44.448386	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0363, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: ed6e357c)
0:00:44.451385	LOG	Frame command sent to the DUT
0:00:44.452385	LOG	PULL_RESP: Protocol version = 02, Token = dc3f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3791846541, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAYwPg1c5rUxa87CDoOkRu9Wg6WGxfD8ex4YgZGR8vwVG68CslPNtZfDhaIkEzuDG1OwY/MMQb7W41fA=='}}
0:00:44.453384	LOG	Server ----------> DUT
0:00:44.456381	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:44.459379	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:49.445550	LOG	PUSH_ACK: 02 188b 01
0:00:49.451547	LOG	PUSH_DATA: Protocol version = 02, Token = 188b, Identifier = 00, JSON = {'rxpk': [{'tmst': 3794849157, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -3, 'size': 15, 'data': 'QCAgICCADwABderd0MVm'}]}
0:00:49.454545	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 000f, FOpts:), FPort: 01, FRMPayload: 0007, MIC: ddd0c566)
0:00:49.457544	LOG	Server <---------- DUT
0:00:49.458543	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0364, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 0c16a65a)
0:00:49.460542	LOG	Frame command sent to the DUT
0:00:49.461541	LOG	PULL_RESP: Protocol version = 02, Token = 1b1b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3796849157, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data':

		'YCAgICAAZAPgE59FkQrMIvPxGsEutWlbub2fwXcGgW0M8IFa5t3yJYplLnt71i2TehLrORzjHqMzMbS/DBamWg==''}}
0:00:49.463541	LOG	Server ----------> DUT
0:00:49.466539	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:49.469537	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:52.616751	LOG	PULL_DATA: 02 a78c 02 aa555a0000240409
0:00:52.618751	LOG	PULL_ACK: 02 a78c 04
0:00:54.447713	LOG	PUSH_ACK: 02 188c 01
0:00:54.449711	LOG	PUSH_DATA: Protocol version = 02, Token = 188c, Identifier = 00, JSON = {'rxpk': [{'tmst': 3799851776, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAEAAB4YjuXOqQ'}]}
0:00:54.451710	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0010, FOpts:), FPort: 01, FRMPayload: 0008, MIC: ee5cea90)
0:00:54.452710	LOG	Server <---------- DUT
0:00:54.454709	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0365, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 93a80f7c)
0:00:54.457707	LOG	Frame command sent to the DUT
0:00:54.459706	LOG	PULL_RESP: Protocol version = 02, Token = 048d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3801851776, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAZQPg3xELBfoxRyWDnQNikqwsjKvT+c22rlDY2IOJF8AyTxLGefymFrJHJoElUVnJWVRb59H6k6gPfA==''}}
0:00:54.460706	LOG	Server ----------> DUT
0:00:54.466702	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:54.471699	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:59.448876	LOG	PUSH_ACK: 02 188d 01
0:00:59.450875	LOG	PUSH_DATA: Protocol version = 02, Token = 188d, Identifier = 00, JSON = {'rxpk': [{'tmst': 3804854409, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAEQABYP3PaA9p'}]}
0:00:59.452875	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0011, FOpts:), FPort: 01, FRMPayload: 0009, MIC: cf680f69)
0:00:59.453873	LOG	Server <---------- DUT
0:00:59.454872	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0366, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: f681be5d)
0:00:59.458871	LOG	Frame command sent to the DUT
0:00:59.460869	LOG	PULL_RESP: Protocol version = 02, Token = 6142, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3806854409, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAZgPgz9lZqGt72jmhdpgmFMn3JqSL3tRSiGc2m7u736QafWEEfxkwNCXhX22IS2MRq9AWX3OV9oG+XQ==''}}
0:00:59.462869	LOG	Server ----------> DUT
0:00:59.465866	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:59.468866	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:02.826959	LOG	PULL_DATA: 02 d42b 02 aa555a0000240409
0:01:02.828958	LOG	PULL_ACK: 02 d42b 04
0:01:04.451038	LOG	PUSH_ACK: 02 188f 01
0:01:04.454036	LOG	PUSH_DATA: Protocol version = 02, Token = 188f, Identifier = 00, JSON = {'rxpk': [{'tmst': 3809857036, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': 0, 'size': 15, 'data': 'QCAgICCAEgABHz+PAnWB'}]}
0:01:04.456035	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0012, FOpts:), FPort: 01, FRMPayload: 000a, MIC: 8f027581)
0:01:04.457034	LOG	Server <---------- DUT
0:01:04.459033	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0367, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 4426b092)
0:01:04.461032	LOG	Frame command sent to the DUT
0:01:04.463031	LOG	PULL_RESP: Protocol version = 02, Token = 961e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3811857036, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAZwPgTYC/N+12jp8wG2kV+47Y9be/wISmUrDwCley8QnQYEitTLjPC4g+hR1VpqiwTRFEL9F4RCawkg=='}}
0:01:04.464031	LOG	Server ----------> DUT
0:01:04.468028	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:04.472026	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:09.455199	LOG	PUSH_ACK: 02 1890 01
0:01:09.457198	LOG	PUSH_DATA: Protocol version = 02, Token = 1890, Identifier = 00, JSON = {'rxpk': [{'tmst': 3814859654, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAEwABrp4PQeap'}]}
0:01:09.459197	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0013, FOpts:), FPort: 01, FRMPayload: 000b, MIC: 0f41e6a9)
0:01:09.460196	LOG	Server <---------- DUT
0:01:09.463194	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0368, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 44865ff5)
0:01:09.465193	LOG	Frame command sent to the DUT
0:01:09.468192	LOG	PULL_RESP: Protocol version = 02, Token = d739, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3816859654, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAaAPgi591MS1BJzI9gg429O2l717jjpUD4f4taHj8BsnOTCuKFLYjqJktAu3w1yvnubDa/7c8RIZf9Q=='}}
0:01:09.469191	LOG	Server ----------> DUT
0:01:09.473189	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:09.477187	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:13.036167	LOG	PULL_DATA: 02 67d6 02 aa555a0000240409
0:01:13.039165	LOG	PULL_ACK: 02 67d6 04
0:01:14.457361	LOG	PUSH_ACK: 02 1891 01
0:01:14.459360	LOG	PUSH_DATA: Protocol version = 02, Token = 1891, Identifier = 00, JSON = {'rxpk': [{'tmst': 3819862279, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -4, 'size': 15, 'data': 'QCAgICCAFAABfyylUEeI'}]}
0:01:14.461358	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0014, FOpts:), FPort: 01, FRMPayload: 000c, MIC: a5504788)
0:01:14.463358	LOG	Server <---------- DUT
0:01:14.465356	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0369, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 554f3160)
0:01:14.468355	LOG	Frame command sent to the DUT

0:01:14.470353	LOG	PULL_RESP: Protocol version = 02, Token = 4bad, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3821862279, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAaQPguXb8aiCpV0vbRrU9XYhoK/+fqItLPWW8Zg9wTaAMME5lKvI6nFiwWaTmc+NLQMLCgLrFVU8xYA=='}}
0:01:14.471353	LOG	Server ----------> DUT
0:01:14.476350	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:14.480348	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:19.459523	LOG	PUSH_ACK: 02 1892 01
0:01:19.461522	LOG	PUSH_DATA: Protocol version = 02, Token = 1892, Identifier = 00, JSON = {'rxpk': [{'tmst': 3824864896, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -1, 'size': 15, 'data': 'QCAgICCAFQABkjUWvIUN'}]}
0:01:19.464520	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0015, FOpts:), FPort: 01, FRMPayload: 000d, MIC: 16bc850d)
0:01:19.465520	LOG	Server <---------- DUT
0:01:19.468518	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 036a, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: b4f0998e)
0:01:19.470517	LOG	Frame command sent to the DUT
0:01:19.472516	LOG	PULL_RESP: Protocol version = 02, Token = 0067, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3826864896, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAagPgFtl+A1gbP2rHCuWs+C8WemQFrb2ZwYRpLjmJZfZTwbfFbOTaA+x8VvARBcFq+xU5BhtdtPCZjg=='}}
0:01:19.474515	LOG	Server ----------> DUT
0:01:19.478512	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:19.486508	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:23.046489	LOG	PULL_DATA: 02 02d9 02 aa555a0000240409
0:01:23.050492	LOG	PULL_ACK: 02 02d9 04
0:01:24.462685	LOG	PUSH_ACK: 02 1893 01
0:01:24.465683	LOG	PUSH_DATA: Protocol version = 02, Token = 1893, Identifier = 00, JSON = {'rxpk': [{'tmst': 3829867521, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAFgABJiw5dHvm'}]}
0:01:24.466683	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0016, FOpts:), FPort: 01, FRMPayload: 000e, MIC: 39747be6)
0:01:24.468681	LOG	Server <---------- DUT
0:01:24.470681	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 036b, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 3fd8bbcf)
0:01:24.473679	LOG	Frame command sent to the DUT
0:01:24.475677	LOG	PULL_RESP: Protocol version = 02, Token = 3624, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3831867521, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAawPg/L64GBGpSEHRNzMNsLNdyFM2lSC/LwbhuCwZHjHqykwxTz1d5H3Q9dSzvSHwpdYHJH7SP9i7zw=='}}
0:01:24.477676	LOG	Server ----------> DUT
0:01:24.484672	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:24.489670	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:29.464847	LOG	PUSH_ACK: 02 1894 01

0:01:29.467845	LOG	PUSH_DATA: Protocol version = 02, Token = 1894, Identifier = 00, JSON = {'rxpk': [{'tmst': 3834870147, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAFwABxb0NP93d'}]}
0:01:29.468845	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0017, FOpts:), FPort: 01, FRMPayload: 000f, MIC: 0d3fdddd)
0:01:29.470843	LOG	Server <---------- DUT
0:01:29.475841	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 036c, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 71bba349)
0:01:29.477840	LOG	Frame command sent to the DUT
0:01:29.479838	LOG	PULL_RESP: Protocol version = 02, Token = 9479, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3836870147, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAbAPgxSTlGnujA7y3k6XJibyJNqsNXc/jkWFd8AcKS3AQTMuWLcqSK6YtgtAWZa95HGXX+6lacbujSQ==''}}
0:01:29.480838	LOG	Server ----------> DUT
0:01:29.484836	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:29.488833	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:33.256697	LOG	PULL_DATA: 02 a5ec 02 aa555a0000240409
0:01:33.258696	LOG	PULL_ACK: 02 a5ec 04
0:01:34.469008	LOG	PUSH_ACK: 02 1896 01
0:01:34.472006	LOG	PUSH_DATA: Protocol version = 02, Token = 1896, Identifier = 00, JSON = {'rxpk': [{'tmst': 3839872781, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAGAAB2YyX95Rs'}]}
0:01:34.473006	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0018, FOpts:), FPort: 01, FRMPayload: 0010, MIC: 97f7946c)
0:01:34.475005	LOG	Server <---------- DUT
0:01:34.476004	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 036d, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: b99886de)
0:01:34.478003	LOG	Frame command sent to the DUT
0:01:34.479002	LOG	PULL_RESP: Protocol version = 02, Token = 43c7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3841872781, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAbQPggJzRVftc6/QJwyY9Y8gRvUjHORdHDm3HR4i2HSMTUKaK55ovbBz3+ImG0kw5s/cKFRcQuZiG3g==''}}
0:01:34.481001	LOG	Server ----------> DUT
0:01:34.484999	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:34.487998	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:39.471170	LOG	PUSH_ACK: 02 1897 01
0:01:39.473169	LOG	PUSH_DATA: Protocol version = 02, Token = 1897, Identifier = 00, JSON = {'rxpk': [{'tmst': 3844875397, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -4, 'size': 15, 'data': 'QCAgICCAGQABqZJ9AAjI'}]}
0:01:39.475170	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0019, FOpts:), FPort: 01, FRMPayload: 0011, MIC: 7d0008c8)
0:01:39.476167	LOG	Server <---------- DUT
0:01:39.477167	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 036e, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: efe2a075)

0:01:39.479167	LOG	Frame command sent to the DUT
0:01:39.481165	LOG	PULL_RESP: Protocol version = 02, Token = 9c42, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3846875397, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAbgPgW394Xb6Z6SdzAmjbTFjheIWr/0oFidTRJrnz6drvgBZRXOyVwLkkNC+ej8oECJO8x6cb7+KgdQ=='}}
0:01:39.483164	LOG	Server ----------> DUT
0:01:39.487161	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:39.491159	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:43.266017	LOG	PULL_DATA: 02 143d 02 aa555a0000240409
0:01:43.268016	LOG	PULL_ACK: 02 143d 04
0:01:44.474332	LOG	PUSH_ACK: 02 1898 01
0:01:44.476331	LOG	PUSH_DATA: Protocol version = 02, Token = 1898, Identifier = 00, JSON = {'rxpk': [{'tmst': 3849878022, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -4, 'size': 15, 'data': 'QCAgICCAGgAB5FU3/IH8'}]}
0:01:44.478330	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 001a, FOpts:), FPort: 01, FRMPayload: 0012, MIC: 37fc81fc)
0:01:44.479329	LOG	Server <---------- DUT
0:01:44.482327	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 036f, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 9792a4d3)
0:01:44.484327	LOG	Frame command sent to the DUT
0:01:44.486325	LOG	PULL_RESP: Protocol version = 02, Token = 690b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3851878022, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAbwPgwvzWA5yhqnhAsIfRTZpjrDtHt6Pq5MXmPhD2/qHo5pFar1LqGt+pxPQQYCqk2zIZWL0Hl5Kk0w=='}}
0:01:44.488324	LOG	Server ----------> DUT
0:01:44.493321	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:44.501317	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:49.477100	LOG	PUSH_ACK: 02 1899 01
0:01:49.479098	LOG	PUSH_DATA: Protocol version = 02, Token = 1899, Identifier = 00, JSON = {'rxpk': [{'tmst': 3854880642, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAGwABhkgIepl4'}]}
0:01:49.481097	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 001b, FOpts:), FPort: 01, FRMPayload: 0013, MIC: 087a9978)
0:01:49.483096	LOG	Server <---------- DUT
0:01:49.485095	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0370, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 8168e06c)
0:01:49.488094	LOG	Frame command sent to the DUT
0:01:49.489092	LOG	PULL_RESP: Protocol version = 02, Token = 2bbf, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3856880642, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAcAPgdXZ1aF3qAMjvktoOGqvZua9vy9NIYv414RpM+R9JGX1aF1IHtOPMbhGyfEchTRp6RuyzgWjgbA=='}}
0:01:49.490092	LOG	Server ----------> DUT
0:01:49.494090	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:49.497088	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:53.475832	LOG	PULL_DATA: 02 cf75 02 aa555a0000240409

0:01:53.478829	LOG	PULL_ACK: 02 cf75 04
0:01:54.479262	LOG	PUSH_ACK: 02 189a 01
0:01:54.481261	LOG	PUSH_DATA: Protocol version = 02, Token = 189a, Identifier = 00, JSON = {'rxpk': [{'tmst': 3859883261, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAHAABd4DFQcMV'}]}
0:01:54.483259	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 001c, FOpts:), FPort: 01, FRMPayload: 0014, MIC: c541c315)
0:01:54.485258	LOG	Server <---------- DUT
0:01:54.487257	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0371, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: bc5de345)
0:01:54.489256	LOG	Frame command sent to the DUT
0:01:54.491255	LOG	PULL_RESP: Protocol version = 02, Token = 759b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3861883261, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAcQPgEDNDIPCD1fwLJJyYlucjqH0//2wWM55oKz+mPiZl2jqcm4r4Q2OYrbnaJPEwJcwmUMpXvF3jRQ==''}}
0:01:54.493254	LOG	Server ----------> DUT
0:01:54.498251	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:54.502248	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:59.482571	LOG	PUSH_ACK: 02 189b 01
0:01:59.485570	LOG	PUSH_DATA: Protocol version = 02, Token = 189b, Identifier = 00, JSON = {'rxpk': [{'tmst': 3864885879, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAHQABaRhbLLoH'}]}
0:01:59.486569	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 001d, FOpts:), FPort: 01, FRMPayload: 0015, MIC: 5b2cba07)
0:01:59.491566	LOG	Server <---------- DUT
0:01:59.493565	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0372, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: f92bd726)
0:01:59.495564	LOG	Frame command sent to the DUT
0:01:59.497563	LOG	PULL_RESP: Protocol version = 02, Token = 2376, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3866885879, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAcgPg+EoAPFgKCWkjWhi/Zj+tHo0GjzaLRfcHqv+fuCR6dg71Rvc1aXIM184ZEXDS2FlhoKNC+SvXJg==''}}
0:01:59.498562	LOG	Server ----------> DUT
0:01:59.503560	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:59.508557	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:03.486300	LOG	PULL_DATA: 02 9b31 02 aa555a0000240409
0:02:03.488299	LOG	PULL_ACK: 02 9b31 04
0:02:04.484734	LOG	PUSH_ACK: 02 189d 01
0:02:04.486732	LOG	PUSH_DATA: Protocol version = 02, Token = 189d, Identifier = 00, JSON = {'rxpk': [{'tmst': 3869888497, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -4, 'size': 15, 'data': 'QCAgICCAHgABGO/+CIDu'}]}
0:02:04.488731	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 001e, FOpts:), FPort: 01, FRMPayload: 0016, MIC: fe0880ee)
0:02:04.489731	LOG	Server <---------- DUT
0:02:04.492729	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0373, FOpts:), FPort: e0, FRMPayload:

		07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: f9319ca7)
0:02:04.494728	LOG	Frame command sent to the DUT
0:02:04.496727	LOG	PULL_RESP: Protocol version = 02, Token = c91b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3871888497, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAcwPgR7DMdiLmHMh2f4Q17MbRkN0RoBSjePR+bOq9E0BJWCwLL0iVB+vM91sKY/z4ckiYiroK+TGcpw=='}}
0:02:04.498726	LOG	Server ----------> DUT
0:02:04.504722	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:04.517715	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:09.487895	LOG	PUSH_ACK: 02 189e 01
0:02:09.489894	LOG	PUSH_DATA: Protocol version = 02, Token = 189e, Identifier = 00, JSON = {'rxpk': [{'tmst': 3874891107, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAHwAB66O8TCQI'}]}
0:02:09.491893	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 001f, FOpts:), FPort: 01, FRMPayload: 0017, MIC: bc4c2408)
0:02:09.493892	LOG	Server <---------- DUT
0:02:09.495891	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0374, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 0d14c889)
0:02:09.498890	LOG	Frame command sent to the DUT
0:02:09.500888	LOG	PULL_RESP: Protocol version = 02, Token = e9ed, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3876891107, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAdAPg/YaG7mtnoeQbV6Xveiuf6Bd+ghN048j5txxWfFkt09ljY2Cn+v1Ic3BhI2foDUwPozWIDRTIiQ=='}}
0:02:09.501888	LOG	Server ----------> DUT
0:02:09.504885	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:09.508883	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:13.496621	LOG	PULL_DATA: 02 0056 02 aa555a0000240409
0:02:13.498620	LOG	PULL_ACK: 02 0056 04
0:02:14.488058	LOG	PUSH_ACK: 02 189f 01
0:02:14.491057	LOG	PUSH_DATA: Protocol version = 02, Token = 189f, Identifier = 00, JSON = {'rxpk': [{'tmst': 3879893735, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -4, 'size': 15, 'data': 'QCAgICCAIAABRAivK8e6'}]}
0:02:14.493056	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0020, FOpts:), FPort: 01, FRMPayload: 0018, MIC: af2bc7ba)
0:02:14.494055	LOG	Server <---------- DUT
0:02:14.496054	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0375, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c58b5f81)
0:02:14.499053	LOG	Frame command sent to the DUT
0:02:14.501051	LOG	PULL_RESP: Protocol version = 02, Token = 9bec, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3881893735, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAdQPgPFw+5DrC86n8X+O9mOpcmPyrSlNTbdr/7P+FFK6qTTJiM50izta6WJNj8LyM6W69juetxYtfgQ=='}}
0:02:14.503050	LOG	Server ----------> DUT
0:02:14.507048	LOG	Send Test Command TxFramesCtrlReq process completed

0:02:14.511045	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:19.490221	LOG	PUSH_ACK: 02 18a0 01
0:02:19.493219	LOG	PUSH_DATA: Protocol version = 02, Token = 18a0, Identifier = 00, JSON = {'rxpk': [{'tmst': 3884896343, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAIQABhndQ/Rlw'}]}
0:02:19.495218	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0021, FOpts:), FPort: 01, FRMPayload: 0019, MIC: 50fd1970)
0:02:19.496217	LOG	Server <---------- DUT
0:02:19.498216	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0376, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 010ad600)
0:02:19.502214	LOG	Frame command sent to the DUT
0:02:19.503213	LOG	PULL_RESP: Protocol version = 02, Token = 90bb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3886896343, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAdgPgU2TRVI5YZnygWB8ObF3Blw5bi07SDkFjsMwMxTehM0UIsrPtI2gvhiHzRZ9t8djEYrhEAQrWAA=='}}
0:02:19.505212	LOG	Server ----------> DUT
0:02:19.511209	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:19.517205	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:23.705829	LOG	PULL_DATA: 02 814f 02 aa555a0000240409
0:02:23.707827	LOG	PULL_ACK: 02 814f 04
0:02:24.494382	LOG	PUSH_ACK: 02 18a1 01
0:02:24.496381	LOG	PUSH_DATA: Protocol version = 02, Token = 18a1, Identifier = 00, JSON = {'rxpk': [{'tmst': 3889898951, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -1, 'size': 15, 'data': 'QCAgICCAIgAB6ZXAyCr+'}]}
0:02:24.499379	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0022, FOpts:), FPort: 01, FRMPayload: 001a, MIC: c0c82afe)
0:02:24.500378	LOG	Server <---------- DUT
0:02:24.503377	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0377, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 6e3cdb6e)
0:02:24.505375	LOG	Frame command sent to the DUT
0:02:24.507374	LOG	PULL_RESP: Protocol version = 02, Token = 4dd3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3891898951, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAdwPgSHs0a28G9R8v3PR4ER8aj6YUtiOFZ+CsxGstoLNLSe3mc4P1KISa7oKfWIVmPC8ZW5Rvbjzbbg=='}}
0:02:24.509373	LOG	Server ----------> DUT
0:02:24.514371	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:24.521366	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:29.496544	LOG	PUSH_ACK: 02 18a2 01
0:02:29.498543	LOG	PUSH_DATA: Protocol version = 02, Token = 18a2, Identifier = 00, JSON = {'rxpk': [{'tmst': 3894901576, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAIwABx1fvz27k'}]}
0:02:29.500541	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0023, FOpts:), FPort: 01, FRMPayload: 001b, MIC: efcf6ee4)
0:02:29.501541	LOG	Server <---------- DUT
0:02:29.507538	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0378, FOpts:), FPort: e0, FRMPayload:

		07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 1fa6f3a3)
0:02:29.509536	LOG	Frame command sent to the DUT
0:02:29.510536	LOG	PULL_RESP: Protocol version = 02, Token = 43ee, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3896901576, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAeAPgnQR0TPWnBa2w1nKGo4/o4cBDm7zoZsU58vm/XV5wYCCdFqIa4P0WxqRE8LMCjkXPqeaeH6bzow=='}}
0:02:29.511536	LOG	Server ----------> DUT
0:02:29.514534	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:29.517532	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:33.716150	LOG	PULL_DATA: 02 7557 02 aa555a0000240409
0:02:33.718149	LOG	PULL_ACK: 02 7557 04
0:02:34.497707	LOG	PUSH_ACK: 02 18a4 01
0:02:34.500705	LOG	PUSH_DATA: Protocol version = 02, Token = 18a4, Identifier = 00, JSON = {'rxpk': [{'tmst': 3899904202, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAJAABkvRSq6fS'}]}
0:02:34.501704	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0024, FOpts:), FPort: 01, FRMPayload: 001c, MIC: 52aba7d2)
0:02:34.503703	LOG	Server <---------- DUT
0:02:34.505702	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0379, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 1702be5c)
0:02:34.508701	LOG	Frame command sent to the DUT
0:02:34.510700	LOG	PULL_RESP: Protocol version = 02, Token = e5db, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3901904202, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAeQPgXb+BberHgb9GH0xL4u/QDJioxiJ44S4VMruYMxFgp3R0WPJhjq2K5fRvm8JURyBrUuNXFwK+XA=='}}
0:02:34.511699	LOG	Server ----------> DUT
0:02:34.517695	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:34.521693	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:39.500868	LOG	PUSH_ACK: 02 18a5 01
0:02:39.502867	LOG	PUSH_DATA: Protocol version = 02, Token = 18a5, Identifier = 00, JSON = {'rxpk': [{'tmst': 3904906812, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -4, 'size': 15, 'data': 'QCAgICCAJQABzufd1yKE'}]}
0:02:39.504866	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0025, FOpts:), FPort: 01, FRMPayload: 001d, MIC: ddd72284)
0:02:39.532850	LOG	Server <---------- DUT
0:02:39.534849	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 037a, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 6867f116)
0:02:39.536848	LOG	Frame command sent to the DUT
0:02:39.537847	LOG	PULL_RESP: Protocol version = 02, Token = 19c3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3906906812, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAegPgC3bttzVL6IgW/UN4DFE+9C2xyH8iNh1rRIgCNExCcw8XmNu+Rmvj+0QuaMwbxqXFI7l1aGfxFg=='}}
0:02:39.538847	LOG	Server ----------> DUT
0:02:39.542844	LOG	Send Test Command TxFramesCtrlReq process completed

0:02:39.546842	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:43.736466	LOG	PULL_DATA: 02 1338 02 aa555a0000240409
0:02:43.738465	LOG	PULL_ACK: 02 1338 04
0:02:44.504030	LOG	PUSH_ACK: 02 18a6 01
0:02:44.506029	LOG	PUSH_DATA: Protocol version = 02, Token = 18a6, Identifier = 00, JSON = {'rxpk': [{'tmst': 3909909437, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -4, 'size': 15, 'data': 'QCAgICCAJgABsY4knojE'}]}
0:02:44.508028	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0026, FOpts:), FPort: 01, FRMPayload: 001e, MIC: 249e88c4)
0:02:44.509027	LOG	Server <---------- DUT
0:02:44.511026	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 037b, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 83631e67)
0:02:44.514024	LOG	Frame command sent to the DUT
0:02:44.516023	LOG	PULL_RESP: Protocol version = 02, Token = 9bf3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3911909437, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAewPgxMW5OKT7vpWcQMqG+HOnUUcxqTkTsBIFd+vww3grRYGl3LLHvxfX19A+saWNwdNaRVdng2MeZw==''}}
0:02:44.518022	LOG	Server ----------> DUT
0:02:44.527017	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:44.537012	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:49.507192	LOG	PUSH_ACK: 02 18a7 01
0:02:49.509191	LOG	PUSH_DATA: Protocol version = 02, Token = 18a7, Identifier = 00, JSON = {'rxpk': [{'tmst': 3914912054, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -4, 'size': 15, 'data': 'QCAgICCAJwABvnoop12G'}]}
0:02:49.511189	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0027, FOpts:), FPort: 01, FRMPayload: 001f, MIC: 28a75d86)
0:02:49.513188	LOG	Server <---------- DUT
0:02:49.515187	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 037c, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c90cc41e)
0:02:49.518185	LOG	Frame command sent to the DUT
0:02:49.519185	LOG	PULL_RESP: Protocol version = 02, Token = 2f98, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3916912054, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAfAPgtws215FeFAgC/VwEMuATV8z5imgcIYJmUsJM5QOxO6R2ZbBI01iiIdl9mmg6TE48CnN1yQzEHg==''}}
0:02:49.521183	LOG	Server ----------> DUT
0:02:49.524182	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:49.528179	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:53.935679	LOG	PULL_DATA: 02 7e34 02 aa555a0000240409
0:02:53.938678	LOG	PULL_ACK: 02 7e34 04
0:02:54.510353	LOG	PUSH_ACK: 02 18a8 01
0:02:54.512352	LOG	PUSH_DATA: Protocol version = 02, Token = 18a8, Identifier = 00, JSON = {'rxpk': [{'tmst': 3919914681, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -4, 'size': 15, 'data': 'QCAgICCAKAABqXhXUcwZ'}]}
0:02:54.514351	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0028, FOpts:), FPort: 01, FRMPayload: 0020, MIC: 5751cc19)
0:02:54.515350	LOG	Server <---------- DUT

0:02:54.517349	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 037d, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 0b10857e)
0:02:54.520347	LOG	Frame command sent to the DUT
0:02:54.521347	LOG	PULL_RESP: Protocol version = 02, Token = ad23, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3921914681, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAfQPgRAGzfgCRHfk6NU15mGmaEtlDrlUIhlt8593OkpCZT0pCGbGtKaEBFRXN8qI6HG6s3VTTCxCFg=='}}
0:02:54.523346	LOG	Server ----------> DUT
0:02:54.528343	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:54.532341	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:59.511516	LOG	PUSH_ACK: 02 18a9 01
0:02:59.513515	LOG	PUSH_DATA: Protocol version = 02, Token = 18a9, Identifier = 00, JSON = {'rxpk': [{'tmst': 3924917297, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAKQABF+LT/mG/'}]}
0:02:59.515514	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0029, FOpts:), FPort: 01, FRMPayload: 0021, MIC: d3fe61bf)
0:02:59.517513	LOG	Server <---------- DUT
0:02:59.519512	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 037e, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 2907319d)
0:02:59.524509	LOG	Frame command sent to the DUT
0:02:59.526507	LOG	PULL_RESP: Protocol version = 02, Token = 5b78, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3926917297, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAfgPgMvkzOOYu2liWL32tj39mwH0U9EnmpLe/61GrPwTvktsokdNk0X/mmXOTR/8I/PaQXjhJKQcxnQ=='}}
0:02:59.527507	LOG	Server ----------> DUT
0:02:59.532504	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:59.537502	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:04.145891	LOG	PULL_DATA: 02 6053 02 aa555a0000240409
0:03:04.147888	LOG	PULL_ACK: 02 6053 04
0:03:04.514678	LOG	PUSH_ACK: 02 18ab 01
0:03:04.516676	LOG	PUSH_DATA: Protocol version = 02, Token = 18ab, Identifier = 00, JSON = {'rxpk': [{'tmst': 3929919909, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -4, 'size': 15, 'data': 'QCAgICCAKgABXDg4l1Cs'}]}
0:03:04.518676	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 002a, FOpts:), FPort: 01, FRMPayload: 0022, MIC: 389750ac)
0:03:04.519675	LOG	Server <---------- DUT
0:03:04.521674	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 037f, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: af53c23b)
0:03:04.524672	LOG	Frame command sent to the DUT
0:03:04.526671	LOG	PULL_RESP: Protocol version = 02, Token = 5c55, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3931919909, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAfwPgGYfbYr431IsomhOvj1tljP1G9rwVmPAepjhj6f0e0zl3rcucYgK7YzKqj4ivDVVwfTACr1PCOw=='}}

0:03:04.527670	LOG	Server ----------> DUT
0:03:04.543661	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:04.549658	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:09.516410	LOG	PUSH_ACK: 02 18ac 01
0:03:09.518407	LOG	PUSH_DATA: Protocol version = 02, Token = 18ac, Identifier = 00, JSON = {'rxpk': [{'tmst': 3934922545, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -4, 'size': 15, 'data': 'QCAgICCAKwABzU0SvW8a'}]}
0:03:09.519408	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 002b, FOpts:), FPort: 01, FRMPayload: 0023, MIC: 12bd6f1a)
0:03:09.520408	LOG	Server <---------- DUT
0:03:09.522408	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0380, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 7a7fd2d1)
0:03:09.524405	LOG	Frame command sent to the DUT
0:03:09.526404	LOG	PULL_RESP: Protocol version = 02, Token = d3c2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3936922545, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAgAPgbMJB5nZKFVC+BLfS7u6OQ9QJMl3UfQe/bgWniUDUoebfSmUURvrz4ywv5ipLqTY9gVosen/S0Q=='}}
0:03:09.527403	LOG	Server ----------> DUT
0:03:09.531401	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:09.535399	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:14.355663	LOG	PULL_DATA: 02 8c30 02 aa555a0000240409
0:03:14.357662	LOG	PULL_ACK: 02 8c30 04
0:03:14.519570	LOG	PUSH_ACK: 02 18ad 01
0:03:14.521571	LOG	PUSH_DATA: Protocol version = 02, Token = 18ad, Identifier = 00, JSON = {'rxpk': [{'tmst': 3939925163, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -3, 'size': 15, 'data': 'QCAgICCALAABGA0mGNPP'}]}
0:03:14.522569	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 002c, FOpts:), FPort: 01, FRMPayload: 0024, MIC: 2618d3cf)
0:03:14.523570	LOG	Server <---------- DUT
0:03:14.525569	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0381, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 0fb8404b)
0:03:14.527568	LOG	Frame command sent to the DUT
0:03:14.529567	LOG	PULL_RESP: Protocol version = 02, Token = 7f80, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3941925163, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAgQPglTUbuSPpVuL35oS3cErsNS5ASDjWpNwgxwp6TEmZeUXAXxUrxZ0AaMdBAlbcGKdNbPRBD7hASw=='}}
0:03:14.530565	LOG	Server ----------> DUT
0:03:14.533563	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:14.538560	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:19.521732	LOG	PUSH_ACK: 02 18ae 01
0:03:19.524731	LOG	PUSH_DATA: Protocol version = 02, Token = 18ae, Identifier = 00, JSON = {'rxpk': [{'tmst': 3944927780, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -1, 'size': 15, 'data': 'QCAgICCALQABq/R/8lTY'}]}
0:03:19.526730	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 002d, FOpts:), FPort: 01, FRMPayload: 0025, MIC: 7ff254d8)
0:03:19.527729	LOG	Server <---------- DUT

0:03:19.529728	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0382, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: df5f4c72)
0:03:19.532726	LOG	Frame command sent to the DUT
0:03:19.534726	LOG	PULL_RESP: Protocol version = 02, Token = 0b68, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3946927780, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAggPgr+aSL2HJ3Xdqga2jCKfZ/Q0HgCHgq44PNKPhN+5HL1bhhsaB2kXE8bdclHpOhmD/WsG7319Mcg=='}}
0:03:19.535725	LOG	Server ----------> DUT
0:03:19.549717	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:19.555713	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:24.366129	LOG	PULL_DATA: 02 1234 02 aa555a0000240409
0:03:24.368128	LOG	PULL_ACK: 02 1234 04
0:03:24.525039	LOG	PUSH_ACK: 02 18af 01
0:03:24.529038	LOG	PUSH_DATA: Protocol version = 02, Token = 18af, Identifier = 00, JSON = {'rxpk': [{'tmst': 3949930413, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -3, 'size': 15, 'data': 'QCAgICCALgAB+0ByAMxX'}]}
0:03:24.531037	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 002e, FOpts:), FPort: 01, FRMPayload: 0026, MIC: 7200cc57)
0:03:24.532037	LOG	Server <---------- DUT
0:03:24.534035	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0383, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: bf824481)
0:03:24.537032	LOG	Frame command sent to the DUT
0:03:24.538033	LOG	PULL_RESP: Protocol version = 02, Token = 5768, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3951930413, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAgwPgSSaaNx9nBS950CmLVLmk0ZMj/zNZDPLw/AZIQzSvGlzbYLu3QqVBKRJXvkpAkNJl6M8Lv4JEgQ=='}}
0:03:24.540032	LOG	Server ----------> DUT
0:03:24.543029	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:24.547027	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:29.527371	LOG	PUSH_ACK: 02 18b0 01
0:03:29.530370	LOG	PUSH_DATA: Protocol version = 02, Token = 18b0, Identifier = 00, JSON = {'rxpk': [{'tmst': 3954933038, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCALwABTuX5lxxI'}]}
0:03:29.532369	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 002f, FOpts:), FPort: 01, FRMPayload: 0027, MIC: f9971c48)
0:03:29.533368	LOG	Server <---------- DUT
0:03:29.538365	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0384, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: dc47fbef)
0:03:29.541365	LOG	Frame command sent to the DUT
0:03:29.542363	LOG	PULL_RESP: Protocol version = 02, Token = 5d7e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3956933038, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAhAPgtiFOfj9n5UeO6mXSNeXG8jXBMuBncuom/zQ/auMa7IQuFo8eNPmNJJBByaTHi+SU58aC3Ef77w=='}}

0:03:29.543364	LOG	Server ----------> DUT
0:03:29.547360	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:29.550358	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:34.375621	LOG	PULL_DATA: 02 bde6 02 aa555a0000240409
0:03:34.377620	LOG	PULL_ACK: 02 bde6 04
0:03:34.529551	LOG	PUSH_ACK: 02 18b2 01
0:03:34.531532	LOG	PUSH_DATA: Protocol version = 02, Token = 18b2, Identifier = 00, JSON = {'rxpk': [{'tmst': 3959935663, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAMAAB8xrLvoKv'}]}
0:03:34.532533	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0030, FOpts:), FPort: 01, FRMPayload: 0028, MIC: cbbe82af)
0:03:34.534532	LOG	Server <---------- DUT
0:03:34.536531	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0385, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: b31cba20)
0:03:34.538528	LOG	Frame command sent to the DUT
0:03:34.540527	LOG	PULL_RESP: Protocol version = 02, Token = ea92, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3961935663, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAhQPg7DNay1VzAQq7r5wqRg7B2/nHjmPdIQyyhNaySFR3sIWiSnCprKiTaE+UKpkoDw2dshFmsxy6IA=='}}
0:03:34.541528	LOG	Server ----------> DUT
0:03:34.544526	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:34.547541	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:39.532574	LOG	PUSH_ACK: 02 18b3 01
0:03:39.534573	LOG	PUSH_DATA: Protocol version = 02, Token = 18b3, Identifier = 00, JSON = {'rxpk': [{'tmst': 3964938281, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -4, 'size': 15, 'data': 'QCAgICCAMQABC8kBYi+a'}]}
0:03:39.535572	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0031, FOpts:), FPort: 01, FRMPayload: 0029, MIC: 01622f9a)
0:03:39.536572	LOG	Server <---------- DUT
0:03:39.538571	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0386, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: e493e653)
0:03:39.540569	LOG	Frame command sent to the DUT
0:03:39.541569	LOG	PULL_RESP: Protocol version = 02, Token = 7df4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3966938281, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAhgPgZQ4caggld2VkmBkdKpTxoYuWZxfdCYQZoqo2QI1BWtr2HWbMehJT14t5ZBwNkciL23Rq5JPmUw=='}}
0:03:39.543568	LOG	Server ----------> DUT
0:03:39.546566	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:39.549565	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:44.535736	LOG	PUSH_ACK: 02 18b4 01
0:03:44.537735	LOG	PUSH_DATA: Protocol version = 02, Token = 18b4, Identifier = 00, JSON = {'rxpk': [{'tmst': 3969940897, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAMgABnA+e1Mlq'}]}
0:03:44.539734	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0032, FOpts:), FPort: 01, FRMPayload: 002a, MIC: 9ed4c96a)
0:03:44.540733	LOG	Server <---------- DUT

0:03:44.543731	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0387, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: be02e72a)
0:03:44.545730	LOG	Frame command sent to the DUT
0:03:44.547729	LOG	PULL_RESP: Protocol version = 02, Token = b40a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3971940897, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAhwPgiBW9sSoJH5Jv1QZydJa6q+pyB7+NMecNAOzTH4yDRb7olNTXzU/PAZF25BdA8t1X2rarvgLnKg==''}}
0:03:44.549728	LOG	Server ----------> DUT
0:03:44.556724	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:44.561721	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:49.536898	LOG	PUSH_ACK: 02 18b5 01
0:03:49.539897	LOG	PUSH_DATA: Protocol version = 02, Token = 18b5, Identifier = 00, JSON = {'rxpk': [{'tmst': 3974943522, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -1, 'size': 15, 'data': 'QCAgICCAMwABS4vjiBF1'}]}
0:03:49.541896	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0033, FOpts:), FPort: 01, FRMPayload: 002b, MIC: e3881175)
0:03:49.542895	LOG	Server <---------- DUT
0:03:49.544895	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0388, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c87de383)
0:03:49.547892	LOG	Frame command sent to the DUT
0:03:49.548892	LOG	PULL_RESP: Protocol version = 02, Token = 09d9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3976943522, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAiAPgneQv1s4du3FYNbq4ZIT1SpB+V2NdApSY1CQeYHdV9qwcrMOsbflDOJGssY4HSyRYzYqmyH3jgw==''}}
0:03:49.550892	LOG	Server ----------> DUT
0:03:49.554888	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:49.557887	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:54.541060	LOG	PUSH_ACK: 02 18b6 01
0:03:54.543059	LOG	PUSH_DATA: Protocol version = 02, Token = 18b6, Identifier = 00, JSON = {'rxpk': [{'tmst': 3979946138, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCANAAB5CNeNJo8'}]}
0:03:54.544058	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0034, FOpts:), FPort: 01, FRMPayload: 002c, MIC: 5e349a3c)
0:03:54.546057	LOG	Server <---------- DUT
0:03:54.550054	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0389, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 7db828a6)
0:03:54.556051	LOG	Frame command sent to the DUT
0:03:54.559050	LOG	PULL_RESP: Protocol version = 02, Token = 36fe, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3981946138, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAiQPgr/BD5Yhb2qN5Hj3c6r22nUb2WWdE631onjEr44inlHFn8DIGAjijRTcuRxLpZVlko8i9fbgopg==''}}
0:03:54.561049	LOG	Server ----------> DUT
0:03:54.564046	LOG	Send Test Command TxFramesCtrlReq process completed

0:03:54.567045	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:59.543200	LOG	PUSH_ACK: 02 18b7 01
0:03:59.545199	LOG	PUSH_DATA: Protocol version = 02, Token = 18b7, Identifier = 00, JSON = {'rxpk': [{'tmst': 3984948757, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -4, 'size': 15, 'data': 'QCAgICCANQABGTeULFyr'}]}
0:03:59.547197	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0035, FOpts:), FPort: 01, FRMPayload: 002d, MIC: 942c5cab)
0:03:59.548197	LOG	Server <---------- DUT
0:03:59.554194	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 038a, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c796a8bd)
0:03:59.557195	LOG	Frame command sent to the DUT
0:03:59.559192	LOG	PULL_RESP: Protocol version = 02, Token = f1dd, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3986948757, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAigPgT87W0Ki5w3EDE5B4AQuWGMpRMZw6tkRgb9ZtIMD8mk+6bPfH0/EG6ZjmzGKecPgrupycx5aovQ=='}}
0:03:59.560189	LOG	Server ----------> DUT
0:03:59.565189	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:59.570185	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:04.545403	LOG	PUSH_ACK: 02 18b9 01
0:04:04.548402	LOG	PUSH_DATA: Protocol version = 02, Token = 18b9, Identifier = 00, JSON = {'rxpk': [{'tmst': 3989951366, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -3, 'size': 15, 'data': 'QCAgICCANgABGSTucwFd'}]}
0:04:04.550401	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0036, FOpts:), FPort: 01, FRMPayload: 002e, MIC: ee73015d)
0:04:04.551400	LOG	Server <---------- DUT
0:04:04.554398	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 038b, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 19d99a72)
0:04:04.556397	LOG	Frame command sent to the DUT
0:04:04.558396	LOG	PULL_RESP: Protocol version = 02, Token = 7da4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3991951366, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAiwPgZIRYCZ2kswHXBAQnclwV2jlPlC+Q//ET1ZcihVPvgN0tDAuqfdicc3yGbrP+A5RzrUZWGdmacg=='}}
0:04:04.560395	LOG	Server ----------> DUT
0:04:04.564392	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:04.574387	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:04.765823	LOG	PULL_DATA: 02 fd62 02 aa555a0000240409
0:04:04.766825	LOG	PULL_ACK: 02 fd62 04
0:04:09.548110	LOG	PUSH_ACK: 02 18bb 01
0:04:09.550110	LOG	PUSH_DATA: Protocol version = 02, Token = 18bb, Identifier = 00, JSON = {'rxpk': [{'tmst': 3994953982, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -1, 'size': 15, 'data': 'QCAgICCANwAB6sBRm4Bg'}]}
0:04:09.551109	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0037, FOpts:), FPort: 01, FRMPayload: 002f, MIC: 519b8060)
0:04:09.553108	LOG	Server <---------- DUT
0:04:09.555107	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 038c, FOpts:), FPort: e0, FRMPayload:

		07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 4158620e)
0:04:09.557106	LOG	Frame command sent to the DUT
0:04:09.559105	LOG	PULL_RESP: Protocol version = 02, Token = 3089, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3996953982, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAjAPgOkEZJljhaW7yNAJAawvYLo44rKmX4lQsOlyenSzZN3x8udfft0yhAJ7K4+ycZMKS/7vkQVhiDg==''}}
0:04:09.560104	LOG	Server ----------> DUT
0:04:09.563102	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:09.566100	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:14.550042	LOG	PUSH_ACK: 02 18bc 01
0:04:14.553040	LOG	PUSH_DATA: Protocol version = 02, Token = 18bc, Identifier = 00, JSON = {'rxpk': [{'tmst': 3999956593, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAOAAB1GyYM9C0'}]}
0:04:14.555039	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0038, FOpts:), FPort: 01, FRMPayload: 0030, MIC: 9833d0b4)
0:04:14.556039	LOG	Server <---------- DUT
0:04:14.558038	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 038d, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: d904c692)
0:04:14.561036	LOG	Frame command sent to the DUT
0:04:14.563035	LOG	PULL_RESP: Protocol version = 02, Token = 749b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4001956593, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAjQPgwnHhlgBiAOyi+kMtTi9nNtRHoIdkpv2jF0LROCOXHmf/fP5J7oYA9x2Z3kMZynxjaZN/2QTGkg==''}}
0:04:14.564034	LOG	Server ----------> DUT
0:04:14.571030	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:14.575029	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:14.775915	LOG	PULL_DATA: 02 4e11 02 aa555a0000240409
0:04:14.776913	LOG	PULL_ACK: 02 4e11 04
0:04:19.554107	LOG	PUSH_ACK: 02 18bd 01
0:04:19.556105	LOG	PUSH_DATA: Protocol version = 02, Token = 18bd, Identifier = 00, JSON = {'rxpk': [{'tmst': 4004959228, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAOQABwI4VOQQu'}]}
0:04:19.558104	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0039, FOpts:), FPort: 01, FRMPayload: 0031, MIC: 1539042e)
0:04:19.560103	LOG	Server <---------- DUT
0:04:19.588088	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 038e, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 80e10b12)
0:04:19.590087	LOG	Frame command sent to the DUT
0:04:19.592085	LOG	PULL_RESP: Protocol version = 02, Token = dead, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4006959228, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAjgPgppArXRT3FeIPPDhcshShY4qIJqRBDik5Wp8y48dLu5EUztvNK07i9ApO+qkGBkyVgVKxgOELEg==''}}
0:04:19.594086	LOG	Server ----------> DUT
0:04:19.598082	LOG	Send Test Command TxFramesCtrlReq process completed

0:04:19.602080	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:24.556269	LOG	PUSH_ACK: 02 18be 01
0:04:24.558268	LOG	PUSH_DATA: Protocol version = 02, Token = 18be, Identifier = 00, JSON = {'rxpk': [{'tmst': 4009961852, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -1, 'size': 15, 'data': 'QCAgICCAOgABk66wjIjA'}]}
0:04:24.559267	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 003a, FOpts:), FPort: 01, FRMPayload: 0032, MIC: b08c88c0)
0:04:24.561266	LOG	Server <---------- DUT
0:04:24.562265	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 038f, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 5c8cf8a5)
0:04:24.564264	LOG	Frame command sent to the DUT
0:04:24.566263	LOG	PULL_RESP: Protocol version = 02, Token = afa7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4011961852, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAjwPgfdvdEVv3mCcVH3zS1HSyrAbEXWYsn8KhaPjkcYwDsxJOwmQWfBTIi0wWvDJmlcliQniNXIz4pQ=='}}
0:04:24.567263	LOG	Server ----------> DUT
0:04:24.572260	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:24.578256	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:24.985025	LOG	PULL_DATA: 02 9f1e 02 aa555a0000240409
0:04:24.988024	LOG	PULL_ACK: 02 9f1e 04
0:04:29.558431	LOG	PUSH_ACK: 02 18bf 01
0:04:29.560430	LOG	PUSH_DATA: Protocol version = 02, Token = 18bf, Identifier = 00, JSON = {'rxpk': [{'tmst': 4014964478, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.2, 'rssi': -1, 'size': 15, 'data': 'QCAgICCAOwABax4TJrwu'}]}
0:04:29.562429	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 003b, FOpts:), FPort: 01, FRMPayload: 0033, MIC: 1326bc2e)
0:04:29.564428	LOG	Server <---------- DUT
0:04:29.566427	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0390, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 8991acf4)
0:04:29.571424	LOG	Frame command sent to the DUT
0:04:29.574422	LOG	PULL_RESP: Protocol version = 02, Token = f969, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4016964478, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAkAPgXmjKYdt3mD+z6Wl1XyjYa0AX2VTCoBxHV+9iFQsBHAsd9gL86wgB3g4Vs2e5UaxrzX+QiZGs9A=='}}
0:04:29.575421	LOG	Server ----------> DUT
0:04:29.579419	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:29.582417	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:34.560934	LOG	PUSH_ACK: 02 18c1 01
0:04:34.563932	LOG	PUSH_DATA: Protocol version = 02, Token = 18c1, Identifier = 00, JSON = {'rxpk': [{'tmst': 4019967105, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAPAABMzR6YYv3'}]}
0:04:34.565931	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 003c, FOpts:), FPort: 01, FRMPayload: 0034, MIC: 7a618bf7)
0:04:34.566930	LOG	Server <---------- DUT
0:04:34.568929	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0391, FOpts:), FPort: e0, FRMPayload:

		07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 26b5daab)
0:04:34.571928	LOG	Frame command sent to the DUT
0:04:34.573926	LOG	PULL_RESP: Protocol version = 02, Token = b2bf, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4021967105, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAkQPgJhVjNWreZcNntJjsnSjX53z+MaAE/CvubX0KvgoLehMKWm3sYTgNb9/ATcGwb3m+9OUuJrXaqw==''}}
0:04:34.574926	LOG	Server ----------> DUT
0:04:34.579923	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:34.583921	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:34.995679	LOG	PULL_DATA: 02 863b 02 aa555a0000240409
0:04:34.997678	LOG	PULL_ACK: 02 863b 04
0:04:39.563088	LOG	PUSH_ACK: 02 18c2 01
0:04:39.566088	LOG	PUSH_DATA: Protocol version = 02, Token = 18c2, Identifier = 00, JSON = {'rxpk': [{'tmst': 4024969737, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -4, 'size': 15, 'data': 'QCAgICCAPQABRFNlZgeW''}]}
0:04:39.567086	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 003d, FOpts:), FPort: 01, FRMPayload: 0035, MIC: 65660796)
0:04:39.568087	LOG	Server <---------- DUT
0:04:39.570085	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0392, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: fb0ae6da)
0:04:39.573082	LOG	Frame command sent to the DUT
0:04:39.574083	LOG	PULL_RESP: Protocol version = 02, Token = 49f7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4026969737, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAkgPgolfh81nxsE/Vwrnur7xYmjGAdvI72NOtBuKHOxJwGUnD1EB8yIJHUAvFqTen94dTT9FI+wrm2g==''}}
0:04:39.576082	LOG	Server ----------> DUT
0:04:39.579079	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:39.582077	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:44.567248	LOG	PUSH_ACK: 02 18c3 01
0:04:44.569247	LOG	PUSH_DATA: Protocol version = 02, Token = 18c3, Identifier = 00, JSON = {'rxpk': [{'tmst': 4029972352, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAPgABqZ+NQAYG''}]}
0:04:44.570247	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 003e, FOpts:), FPort: 01, FRMPayload: 0036, MIC: 8d400606)
0:04:44.572248	LOG	Server <---------- DUT
0:04:44.573245	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0393, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 5c52a3a4)
0:04:44.575246	LOG	Frame command sent to the DUT
0:04:44.577243	LOG	PULL_RESP: Protocol version = 02, Token = 8734, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4031972352, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAkwPgux0XXfa7KN4ZNMyFLfwbEPK/M1Sg4HZQrWQAQ1RvoxiEofijggWamnlUS5XlmHaxYYF1XFKjpA==''}}
0:04:44.579242	LOG	Server ----------> DUT
0:04:44.582240	LOG	Send Test Command TxFramesCtrlReq process completed

0:04:44.584240	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:45.204886	LOG	PULL_DATA: 02 4f86 02 aa555a0000240409
0:04:45.206886	LOG	PULL_ACK: 02 4f86 04
0:04:49.569410	LOG	PUSH_ACK: 02 18c4 01
0:04:49.571409	LOG	PUSH_DATA: Protocol version = 02, Token = 18c4, Identifier = 00, JSON = {'rxpk': [{'tmst': 4034974964, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAPwABEaENfjWN'}]}
0:04:49.573408	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 003f, FOpts:), FPort: 01, FRMPayload: 0037, MIC: 0d7e358d)
0:04:49.574408	LOG	Server <---------- DUT
0:04:49.577406	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0394, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: d242e30a)
0:04:49.579407	LOG	Frame command sent to the DUT
0:04:49.580406	LOG	PULL_RESP: Protocol version = 02, Token = 554c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4036974964, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAlAPgOwQqeNvkqJ+ZG37B9W1tlqVgzkx90s9iJ/Mv2E5cTO3N0TD68RWwMFBbwbCb6VJXjL+B0kLjCg=='}}
0:04:49.582403	LOG	Server ----------> DUT
0:04:49.585401	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:49.589400	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:54.570722	LOG	PUSH_ACK: 02 18c5 01
0:04:54.572721	LOG	PUSH_DATA: Protocol version = 02, Token = 18c5, Identifier = 00, JSON = {'rxpk': [{'tmst': 4039977591, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAQAABSxuh9ygk'}]}
0:04:54.574720	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0040, FOpts:), FPort: 01, FRMPayload: 0038, MIC: a1f72824)
0:04:54.575719	LOG	Server <---------- DUT
0:04:54.577718	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0395, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c6ccd719)
0:04:54.579718	LOG	Frame command sent to the DUT
0:04:54.581717	LOG	PULL_RESP: Protocol version = 02, Token = d7b0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4041977591, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAlQPg0j3ZeNN9datks1gce4NOQ9C8DDcFpvGPS58ctXBFcqsWVblaqHbk+U2NjIjj+i2tM0ulxszXGQ=='}}
0:04:54.582716	LOG	Server ----------> DUT
0:04:54.585714	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:54.589712	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:55.215010	LOG	PULL_DATA: 02 91d0 02 aa555a0000240409
0:04:55.216994	LOG	PULL_ACK: 02 91d0 04
0:04:59.574503	LOG	PUSH_ACK: 02 18c6 01
0:04:59.576502	LOG	PUSH_DATA: Protocol version = 02, Token = 18c6, Identifier = 00, JSON = {'rxpk': [{'tmst': 4044980208, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -1, 'size': 15, 'data': 'QCAgICCAQQABcdLeaanm'}]}
0:04:59.578501	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0041, FOpts:), FPort: 01, FRMPayload: 0039, MIC: de69a9e6)
0:04:59.580500	LOG	Server <---------- DUT

0:04:59.582499	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0396, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 6d9c8166)
0:04:59.587496	LOG	Frame command sent to the DUT
0:04:59.590494	LOG	PULL_RESP: Protocol version = 02, Token = 918d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4046980208, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAlgPgXTwcDBJukUVfieQsGafa63dH/s8cnYnUZ4C/y1KxJ3+uvhqOFB4aHr7zxNHdr1WDlAzrbZyBZg==''}}
0:04:59.591494	LOG	Server ----------> DUT
0:04:59.597490	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:59.602487	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:04.576665	LOG	PUSH_ACK: 02 18c8 01
0:05:04.578664	LOG	PUSH_DATA: Protocol version = 02, Token = 18c8, Identifier = 00, JSON = {'rxpk': [{'tmst': 4049982827, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -1, 'size': 15, 'data': 'QCAgICCAQgABCnxQfw0r'}]}
0:05:04.580663	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0042, FOpts:), FPort: 01, FRMPayload: 003a, MIC: 507f0d2b)
0:05:04.581662	LOG	Server <---------- DUT
0:05:04.583661	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0397, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: a09e360c)
0:05:04.586660	LOG	Frame command sent to the DUT
0:05:04.588658	LOG	PULL_RESP: Protocol version = 02, Token = 81ed, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4051982827, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAlwPgu5advi05ApF/jDSJT2JKa5xMdYstujAfGLG/anbSpiJ3323m2NgYPZxHosJrHypmjnHyoJ42DA==''}}
0:05:04.590657	LOG	Server ----------> DUT
0:05:04.594655	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:04.599652	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:05.425677	LOG	PULL_DATA: 02 d606 02 aa555a0000240409
0:05:05.427675	LOG	PULL_ACK: 02 d606 04
0:05:09.579320	LOG	PUSH_ACK: 02 18c9 01
0:05:09.582318	LOG	PUSH_DATA: Protocol version = 02, Token = 18c9, Identifier = 00, JSON = {'rxpk': [{'tmst': 4054985443, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAQwABPj7eolE2'}]}
0:05:09.583318	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0043, FOpts:), FPort: 01, FRMPayload: 003b, MIC: dea25136)
0:05:09.585317	LOG	Server <---------- DUT
0:05:09.587316	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0398, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 6464f922)
0:05:09.589314	LOG	Frame command sent to the DUT
0:05:09.591314	LOG	PULL_RESP: Protocol version = 02, Token = 514d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4056985443, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAmAPgGpT4e++6brbTbv0T6avVsAs5e+qEze6RiHL5rJpmeOOiDmKtzuXLF84KD3XBP93tA4+qZGT5Ig==''}}

0:05:09.592313	LOG	Server ----------> DUT
0:05:09.595311	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:09.598309	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:14.582575	LOG	PUSH_ACK: 02 18ca 01
0:05:14.584574	LOG	PUSH_DATA: Protocol version = 02, Token = 18ca, Identifier = 00, JSON = {'rxpk': [{'tmst': 4059988070, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -4, 'size': 15, 'data': 'QCAgICCARAABCHIkSTgm'}]}
0:05:14.586572	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0044, FOpts:), FPort: 01, FRMPayload: 003c, MIC: 24493826)
0:05:14.591570	LOG	Server <---------- DUT
0:05:14.593569	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0399, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 541f20d0)
0:05:14.595567	LOG	Frame command sent to the DUT
0:05:14.597567	LOG	PULL_RESP: Protocol version = 02, Token = 088c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4061988070, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAmQPgIA7mB/k+cgfP/UEb4WhX2inJH2m79+SLM64AmvFywhj8doB9QhGyOBy7wxJeyHSEZZ9BVB8g0A=='}}
0:05:14.599567	LOG	Server ----------> DUT
0:05:14.602563	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:14.606562	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:15.435091	LOG	PULL_DATA: 02 27e9 02 aa555a0000240409
0:05:15.438090	LOG	PULL_ACK: 02 27e9 04
0:05:19.584736	LOG	PUSH_ACK: 02 18cb 01
0:05:19.587735	LOG	PUSH_DATA: Protocol version = 02, Token = 18cb, Identifier = 00, JSON = {'rxpk': [{'tmst': 4064990697, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -1, 'size': 15, 'data': 'QCAgICCARQABj3j/Vz3w'}]}
0:05:19.588734	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0045, FOpts:), FPort: 01, FRMPayload: 003d, MIC: ff573df0)
0:05:19.590733	LOG	Server <---------- DUT
0:05:19.591733	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 039a, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: ad3131bc)
0:05:19.594731	LOG	Frame command sent to the DUT
0:05:19.596730	LOG	PULL_RESP: Protocol version = 02, Token = 0b4f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4066990697, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAmgPgTCLHCIuOyH3fzgM19LAhegnvLBYRihJV9efY7I7lcJwkhL8F/OXmpx8vwB8WQJyn9ocmrTExvA=='}}
0:05:19.598729	LOG	Server ----------> DUT
0:05:19.602726	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:19.606724	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:24.587897	LOG	PUSH_ACK: 02 18cc 01
0:05:24.589897	LOG	PUSH_DATA: Protocol version = 02, Token = 18cc, Identifier = 00, JSON = {'rxpk': [{'tmst': 4069993314, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -2, 'size': 15, 'data': 'QCAgICCARgABE5+XG7M0'}]}
0:05:24.591896	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0046, FOpts:), FPort: 01, FRMPayload: 003e, MIC: 971bb334)
0:05:24.592895	LOG	Server <---------- DUT

0:05:24.594894	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 039b, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 9fb1fb26)
0:05:24.597892	LOG	Frame command sent to the DUT
0:05:24.599891	LOG	PULL_RESP: Protocol version = 02, Token = 5138, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4071993314, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAmwPgKE+QQfLEKgYfrogbxBl1i+NQKJXpwfJriyWjyAQJI7CZ8GYlt7UyT5HjllwkpGekuSf6n7H7Jg==''}}
0:05:24.600890	LOG	Server ----------> DUT
0:05:24.609885	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:24.613883	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:25.445563	LOG	PULL_DATA: 02 3ea5 02 aa555a0000240409
0:05:25.447562	LOG	PULL_ACK: 02 3ea5 04
0:05:29.589212	LOG	PUSH_ACK: 02 18cd 01
0:05:29.592211	LOG	PUSH_DATA: Protocol version = 02, Token = 18cd, Identifier = 00, JSON = {'rxpk': [{'tmst': 4074995941, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -4, 'size': 15, 'data': 'QCAgICCARwABHtnVsFeR''}]}
0:05:29.593210	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0047, FOpts:), FPort: 01, FRMPayload: 003f, MIC: d5b05791)
0:05:29.595209	LOG	Server <---------- DUT
0:05:29.597208	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 039c, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 49bbbd87)
0:05:29.602205	LOG	Frame command sent to the DUT
0:05:29.604204	LOG	PULL_RESP: Protocol version = 02, Token = 1ca7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4076995941, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAnAPgkk9aFRO8ZN4Mp1TZYJGiH9pknHa5VngHf26vPxSwvg+stIcekivnNjgjvDNfbWEZKfowSbu9hw==''}}
0:05:29.605203	LOG	Server ----------> DUT
0:05:29.608201	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:29.612199	LOG	Send Test Command RxAppCntReq process starts
0:05:34.592790	LOG	PUSH_ACK: 02 18cf 01
0:05:34.594789	LOG	PUSH_DATA: Protocol version = 02, Token = 18cf, Identifier = 00, JSON = {'rxpk': [{'tmst': 4079998560, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -2, 'size': 15, 'data': 'QCAgICCASAABiJ8WXd0j''}]}
0:05:34.596788	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0048, FOpts:), FPort: 01, FRMPayload: 0040, MIC: 165ddd23)
0:05:34.597787	LOG	Server <---------- DUT
0:05:34.599786	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 039d, FOpts:), FPort: e0, FRMPayload: 09), MIC: 52be6451)
0:05:34.602785	LOG	Frame command sent to the DUT
0:05:34.604783	LOG	PULL_RESP: Protocol version = 02, Token = 93ca, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4081998560, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAAnQPg6lK+ZFE=''}}
0:05:34.605783	LOG	Server ----------> DUT
0:05:34.609780	LOG	TX_ACK: 02 93ca 05 aa555a0000240409
0:05:35.655188	LOG	PULL_DATA: 02 1e9f 02 aa555a0000240409
0:05:35.656189	LOG	PULL_ACK: 02 1e9f 04

0:05:39.653053	LOG	PUSH_ACK: 02 18d0 01
0:05:39.655052	LOG	PUSH_DATA: Protocol version = 02, Token = 18d0, Identifier = 00, JSON = {'rxpk': [{'tmst': 4085009259, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -3, 'size': 16, 'data': 'QCAgICCASQDgjwccRUtfnQ=='}]}
0:05:39.657051	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0049, FOpts:), FPort: e0, FRMPayload: 094100, MIC: 454b5f9d)
0:05:39.658051	LOG	Server <---------- DUT
0:05:39.660050	LOG	Answer in payload: 4100
0:05:39.662048	LOG	Frame Command Payload in the Answer: 094100
0:05:39.670044	LOG	RX Count received by DUT: 65
0:05:39.676041	LOG	Send Test Command RxAppCntReq process completed
0:05:39.688034	LOG	End Test Step: Test packet error rate for SF12BW125 using RX2 window
0:05:39.693031	LOG	Partial Verdict: PASS
0:05:39.699028	LOG	==========
0:05:39.712020	LOG	==========
0:05:39.716018	LOG	Start Test Step: Test packet error rate for SF11BW125 using RX2 window
0:05:39.738005	LOG	Send RXParamSetupReq process starts
0:05:44.641612	LOG	PUSH_ACK: 02 18d1 01
0:05:44.643611	LOG	PUSH_DATA: Protocol version = 02, Token = 18d1, Identifier = 00, JSON = {'rxpk': [{'tmst': 4090003819, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -1, 'size': 15, 'data': 'QCAgICCASgABVxHF6UFM'}]}
0:05:44.645609	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 004a, FOpts:), FPort: 01, FRMPayload: 0041, MIC: c5e9414c)
0:05:44.646609	LOG	Server <---------- DUT
0:05:44.648608	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 039e, FOpts:), FPort: 00, FRMPayload: 0501d2ad84), MIC: 95c8cbd4)
0:05:44.651606	LOG	PULL_RESP: Protocol version = 02, Token = a36d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4092003819, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAngMAQsbpXUmVyMvU'}}
0:05:44.653605	LOG	Server ----------> DUT
0:05:44.658602	LOG	TX_ACK: 02 a36d 05 aa555a0000240409
0:05:45.705008	LOG	PULL_DATA: 02 f8aa 02 aa555a0000240409
0:05:45.707007	LOG	PULL_ACK: 02 f8aa 04
0:05:49.615789	LOG	PUSH_ACK: 02 18d2 01
0:05:49.618787	LOG	PUSH_DATA: Protocol version = 02, Token = 18d2, Identifier = 00, JSON = {'rxpk': [{'tmst': 4095011589, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -3, 'size': 17, 'data': 'QCAgICCCSwAFBwGc2Sn8mdM='}]}
0:05:49.619787	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 004b, FOpts: 0507), FPort: 01, FRMPayload: 0041, MIC: 29fc99d3)
0:05:49.621786	LOG	Server <---------- DUT
0:05:49.623785	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:05:49.624784	LOG	Command Answer: 0507
0:05:49.642774	LOG	MAC command communication completed
0:05:49.650769	LOG	Send Test Command RxAppCntReq process starts
0:05:54.656194	LOG	PUSH_ACK: 02 18d3 01
0:05:54.658195	LOG	PUSH_DATA: Protocol version = 02, Token = 18d3, Identifier = 00, JSON = {'rxpk': [{'tmst': 4100014213, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -1, 'size': 17, 'data': 'QCAgICCCTAAFBwHaXkDcrrY='}]}
0:05:54.660193	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 004c, FOpts: 0507), FPort: 01, FRMPayload: 0041, MIC: 40dcaeb6)

0:05:54.661194	LOG	Server <---------- DUT
0:05:54.663191	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 039f, FOpts:), FPort: e0, FRMPayload: 09), MIC: dd4b8cdb)
0:05:54.666188	LOG	Frame command sent to the DUT
0:05:54.667187	LOG	PULL_RESP: Protocol version = 02, Token = 6a37, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4102014213, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAAnwPg/t1LjNs='}}
0:05:54.669186	LOG	Server ----------> DUT
0:05:54.672186	LOG	TX_ACK: 02 6a37 05 aa555a0000240409
0:05:55.714952	LOG	PULL_DATA: 02 cf0b 02 aa555a0000240409
0:05:55.718950	LOG	PULL_ACK: 02 cf0b 04
0:05:59.654717	LOG	PUSH_ACK: 02 18d5 01
0:05:59.659714	LOG	PUSH_DATA: Protocol version = 02, Token = 18d5, Identifier = 00, JSON = {'rxpk': [{'tmst': 4105019758, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -1, 'size': 16, 'data': 'QCAgICCATQDg3xu2R2eD8A=='}]}
0:05:59.661714	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 004d, FOpts:), FPort: e0, FRMPayload: 094200, MIC: 476783f0)
0:05:59.662713	LOG	Server <---------- DUT
0:05:59.664712	LOG	Answer in payload: 4200
0:05:59.666711	LOG	Frame Command Payload in the Answer: 094200
0:05:59.674706	LOG	RX Count received by DUT: 66
0:05:59.677704	LOG	Send Test Command RxAppCntReq process completed
0:05:59.682701	LOG	Send Test Command TxFramesCtrlReq process starts
0:06:04.612061	LOG	PUSH_ACK: 02 18d7 01
0:06:04.614060	LOG	PUSH_DATA: Protocol version = 02, Token = 18d7, Identifier = 00, JSON = {'rxpk': [{'tmst': 4110014294, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -3, 'size': 15, 'data': 'QCAgICCATgABzxRT+0wK'}]}
0:06:04.616058	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 004e, FOpts:), FPort: 01, FRMPayload: 0042, MIC: 53fb4c0a)
0:06:04.617058	LOG	Server <---------- DUT
0:06:04.619057	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03a0, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: ca5893ce)
0:06:04.622055	LOG	Frame command sent to the DUT
0:06:04.624054	LOG	PULL_RESP: Protocol version = 02, Token = ebe9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4112014294, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAoAPg9ZOOeFzx3r6PPxjUoAR7qoUIo3guIQCmkfz0uXiYAdHb7JfpyTaDTswtjrnCxlNAJiAeyliTzg=='}}
0:06:04.626053	LOG	Server ----------> DUT
0:06:04.632049	LOG	Send Test Command TxFramesCtrlReq process completed
0:06:04.637047	LOG	Send Test Command TxFramesCtrlReq process starts
0:06:05.884527	LOG	PULL_DATA: 02 de8c 02 aa555a0000240409
0:06:05.886526	LOG	PULL_ACK: 02 de8c 04
0:06:09.632402	LOG	PUSH_ACK: 02 18d8 01
0:06:09.634404	LOG	PUSH_DATA: Protocol version = 02, Token = 18d8, Identifier = 00, JSON = {'rxpk': [{'tmst': 4115016921, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 7.0, 'rssi': -1, 'size': 15, 'data': 'QCAgICCATwABQh0egaLu'}]}
0:06:09.636400	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 004f, FOpts:), FPort: 01, FRMPayload: 0043, MIC: 1e81a2ee)

0:06:09.637403	LOG	Server <---------- DUT
0:06:09.639398	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03a1, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 93273b3f)
0:06:09.642397	LOG	Frame command sent to the DUT
0:06:09.643395	LOG	PULL_RESP: Protocol version = 02, Token = 1f29, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4117016921, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAoQPgbwGby6jZ9uRdcjkIX4k484VNM9taR4vaX3caVDMs/rvGbty5YVx0oLvWkMd9aBlLdi4akyc7Pw=='}}
0:06:09.645400	LOG	Server ----------> DUT
0:06:09.648422	LOG	Send Test Command TxFramesCtrlReq process completed
0:06:09.652405	LOG	Send Test Command TxFramesCtrlReq process starts
0:06:14.635353	LOG	PUSH_ACK: 02 18da 01
0:06:14.638351	LOG	PUSH_DATA: Protocol version = 02, Token = 18da, Identifier = 00, JSON = {'rxpk': [{'tmst': 4120019554, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAUAAB9BDNt2Yj'}]}
0:06:14.639351	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0050, FOpts:), FPort: 01, FRMPayload: 0044, MIC: cdb76623)
0:06:14.641348	LOG	Server <---------- DUT
0:06:14.643346	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03a2, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 4d93bbe4)
0:06:14.645347	LOG	Frame command sent to the DUT
0:06:14.647345	LOG	PULL_RESP: Protocol version = 02, Token = 7e54, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4122019554, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAogPg6IDsVTdZWiXv0yNwzpDACt7rg01TT6fGVEQwS2vl7Bu2bZ/65jHA5m2OQG7xSZAnwywLTZO75A=='}}
0:06:14.649345	LOG	Server ----------> DUT
0:06:14.653341	LOG	Send Test Command TxFramesCtrlReq process completed
0:06:14.659339	LOG	Send Test Command TxFramesCtrlReq process starts
0:06:15.905191	LOG	PULL_DATA: 02 f13e 02 aa555a0000240409
0:06:15.907190	LOG	PULL_ACK: 02 f13e 04
0:06:19.637074	LOG	PUSH_ACK: 02 18db 01
0:06:19.639073	LOG	PUSH_DATA: Protocol version = 02, Token = 18db, Identifier = 00, JSON = {'rxpk': [{'tmst': 4125022175, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAUQABVVERBOK4'}]}
0:06:19.640072	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0051, FOpts:), FPort: 01, FRMPayload: 0045, MIC: 1104e2b8)
0:06:19.642071	LOG	Server <---------- DUT
0:06:19.644071	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03a3, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: cbaf83cf)
0:06:19.646069	LOG	Frame command sent to the DUT
0:06:19.648068	LOG	PULL_RESP: Protocol version = 02, Token = 330a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4127022175, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data':

		'YCAgICAAowPgqSm49i6ec71BS2+guY6LIA3tgRWZvBKLnPW07zImomIGYA nZJrDbHgX8TAmQo3OcZReCy6+Dzw=='}}
0:06:19.650067	LOG	Server ----------> DUT
0:06:19.654064	LOG	Send Test Command TxFramesCtrlReq process completed
0:06:19.658062	LOG	Send Test Command TxFramesCtrlReq process starts
0:06:24.640235	LOG	PUSH_ACK: 02 18dc 01
0:06:24.643233	LOG	PUSH_DATA: Protocol version = 02, Token = 18dc, Identifier = 00, JSON = {'rxpk': [{'tmst': 4130024807, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAUgABlm5xglwr'}]}
0:06:24.644233	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0052, FOpts:), FPort: 01, FRMPayload: 0046, MIC: 71825c2b)
0:06:24.646232	LOG	Server <---------- DUT
0:06:24.648230	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03a4, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101), MIC: 39b6a024)
0:06:24.650229	LOG	Frame command sent to the DUT
0:06:24.651229	LOG	PULL_RESP: Protocol version = 02, Token = 1684, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4132024807, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAApAPga4fdbm/94BTVnmIw2KjBUHTZ+RKg+01iU3kaC7EG5XZiozo VlB00ETS0dNcG+RLeTIO0ObagJA=='}}
0:06:24.653228	LOG	Server ----------> DUT
0:06:24.656226	LOG	Send Test Command TxFramesCtrlReq process completed
0:06:24.661223	LOG	Send Test Command TxFramesCtrlReq process starts
0:06:25.914531	LOG	PULL_DATA: 02 b0ae 02 aa555a0000240409
0:06:25.916530	LOG	PULL_ACK: 02 b0ae 04
0:06:29.642397	LOG	PUSH_ACK: 02 18dd 01
0:06:29.645396	LOG	PUSH_DATA: Protocol version = 02, Token = 18dd, Identifier = 00, JSON = {'rxpk': [{'tmst': 4135027440, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAUwABffl4ldtQ'}]}
0:06:29.647394	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0053, FOpts:), FPort: 01, FRMPayload: 0047, MIC: 7895db50)
0:06:29.648393	LOG	Server <---------- DUT
0:06:29.650392	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03a5, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 101010101010101010101010101010101010101), MIC: fe6ba4a6)
0:06:29.653391	LOG	Frame command sent to the DUT
0:06:29.654390	LOG	PULL_RESP: Protocol version = 02, Token = 276b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4137027440, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAApQPgQT3F4F/cBnMTGpP7j68Uwm6y5tlsOX+WblTnEPIoo9WL20A mJ24TqCOjwvJSbwMqc2dM/mukpg=='}}
0:06:29.656389	LOG	Server ----------> DUT
0:06:29.660387	LOG	Send Test Command TxFramesCtrlReq process completed
0:06:29.667383	LOG	Send Test Command TxFramesCtrlReq process starts
0:06:34.645558	LOG	PUSH_ACK: 02 18df 01
0:06:34.647557	LOG	PUSH_DATA: Protocol version = 02, Token = 18df, Identifier = 00, JSON = {'rxpk': [{'tmst': 4140030050, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -1, 'size': 15, 'data': 'QCAgICCAVAABSJEg7GoZ'}]}

0:06:34.649555	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0054, FOpts:), FPort: 01, FRMPayload: 0048, MIC: 20ec6a19)
0:06:34.650555	LOG	Server <---------- DUT
0:06:34.653553	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03a6, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: b5e877aa)
0:06:34.655552	LOG	Frame command sent to the DUT
0:06:34.657551	LOG	PULL_RESP: Protocol version = 02, Token = e662, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4142030050, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAApgPgjzyu4rqlfo9T/jwuHIHVWymEWBCtIL6Xpa/+NhrV4xpK9tDnUTXMidGBLL2zRb5f3sKjteh3qg=='}}
0:06:34.659550	LOG	Server ----------> DUT
0:06:34.665547	LOG	Send Test Command TxFramesCtrlReq process completed
0:06:34.669544	LOG	Send Test Command TxFramesCtrlReq process starts
0:06:36.124459	LOG	PULL_DATA: 02 a0ad 02 aa555a0000240409
0:06:36.126458	LOG	PULL_ACK: 02 a0ad 04
0:06:39.647461	LOG	PUSH_ACK: 02 18e0 01
0:06:39.649459	LOG	PUSH_DATA: Protocol version = 02, Token = 18e0, Identifier = 00, JSON = {'rxpk': [{'tmst': 4145032677, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAVQAB8MF8PEsl'}]}
0:06:39.651458	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0055, FOpts:), FPort: 01, FRMPayload: 0049, MIC: 7c3c4b25)
0:06:39.652457	LOG	Server <---------- DUT
0:06:39.654456	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03a7, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: e194d5b2)
0:06:39.657454	LOG	Frame command sent to the DUT
0:06:39.660453	LOG	PULL_RESP: Protocol version = 02, Token = 5b37, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4147032677, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAApwPgfcLhOE2lwYmCuyEpJGYw/SJXwVlc/8c+/g0eqe6IW8rp1dT+rQ9T6ahDkBz8+AuApkf04ZTVsg=='}}
0:06:39.661452	LOG	Server ----------> DUT
0:06:39.668448	LOG	Send Test Command TxFramesCtrlReq process completed
0:06:39.677443	LOG	Send Test Command TxFramesCtrlReq process starts
0:06:44.650222	LOG	PUSH_ACK: 02 18e1 01
0:06:44.652220	LOG	PUSH_DATA: Protocol version = 02, Token = 18e1, Identifier = 00, JSON = {'rxpk': [{'tmst': 4150035294, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAVgABy7CT/VZP'}]}
0:06:44.654219	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0056, FOpts:), FPort: 01, FRMPayload: 004a, MIC: 93fd564f)
0:06:44.655218	LOG	Server <---------- DUT
0:06:44.658217	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03a8, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c1b229e9)
0:06:44.660216	LOG	Frame command sent to the DUT
0:06:44.662215	LOG	PULL_RESP: Protocol version = 02, Token = 51b5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4152035294, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True,

		'size': 64, 'data': 'YCAgICAAqAPg4zZQFkcJPf/8PRN4Xq/Uv1m427zU2JO/NSLz+B4zBpSLs+T8NVBAJn7qE9QV7QvWV1MHwbIp6Q=='}}
0:06:44.663214	LOG	Server ----------> DUT
0:06:44.666212	LOG	Send Test Command TxFramesCtrlReq process completed
0:06:44.669210	LOG	Send Test Command TxFramesCtrlReq process starts
0:06:46.134968	LOG	PULL_DATA: 02 10ee 02 aa555a0000240409
0:06:46.135969	LOG	PULL_ACK: 02 10ee 04
0:06:49.652972	LOG	PUSH_ACK: 02 18e2 01
0:06:49.654971	LOG	PUSH_DATA: Protocol version = 02, Token = 18e2, Identifier = 00, JSON = {'rxpk': [{'tmst': 4155037928, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -1, 'size': 15, 'data': 'QCAgICCAVwABzh1WMSv3'}]}
0:06:49.656970	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0057, FOpts:), FPort: 01, FRMPayload: 004b, MIC: 56312bf7)
0:06:49.658969	LOG	Server <---------- DUT
0:06:49.660968	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03a9, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: f8d52dc0)
0:06:49.662966	LOG	Frame command sent to the DUT
0:06:49.664965	LOG	PULL_RESP: Protocol version = 02, Token = 2034, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4157037928, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAqQPgLoJ6bRD/jBCb7rcGu7gkiRojt0YeI7wHe4nMV2Dpn8IFrLP2rGTOu4a9Iqpi15N9PB8k+NUtwA=='}}
0:06:49.665965	LOG	Server ----------> DUT
0:06:49.669962	LOG	Send Test Command TxFramesCtrlReq process completed
0:06:49.673960	LOG	Send Test Command TxFramesCtrlReq process starts
0:06:54.655311	LOG	PUSH_ACK: 02 18e3 01
0:06:54.658309	LOG	PUSH_DATA: Protocol version = 02, Token = 18e3, Identifier = 00, JSON = {'rxpk': [{'tmst': 4160040537, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAWAAB/zhGI50y'}]}
0:06:54.660308	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0058, FOpts:), FPort: 01, FRMPayload: 004c, MIC: 46239d32)
0:06:54.661308	LOG	Server <---------- DUT
0:06:54.663307	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03aa, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 11b47b80)
0:06:54.666305	LOG	Frame command sent to the DUT
0:06:54.667305	LOG	PULL_RESP: Protocol version = 02, Token = 9acd, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4162040537, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAqgPghU7wEafW2Ygxm4LVCF8DWySLvXyYGWSctn8j0xP0cwsYMk/ALhvFinOFfg2kbD2GN+gLEbR7gA=='}}
0:06:54.669303	LOG	Server ----------> DUT
0:06:54.673301	LOG	Send Test Command TxFramesCtrlReq process completed
0:06:54.678298	LOG	Send Test Command TxFramesCtrlReq process starts
0:06:56.344455	LOG	PULL_DATA: 02 bfaf 02 aa555a0000240409
0:06:56.346453	LOG	PULL_ACK: 02 bfaf 04
0:06:59.657575	LOG	PUSH_ACK: 02 18e4 01
0:06:59.659574	LOG	PUSH_DATA: Protocol version = 02, Token = 18e4, Identifier = 00, JSON = {'rxpk': [{'tmst': 4165043166, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -4, 'size': 15, 'data': 'QCAgICCAWQABeffRzsrV'}]}
0:06:59.662572	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0059, FOpts:), FPort: 01, FRMPayload: 004d, MIC: d1cecad5)
0:06:59.663571	LOG	Server <---------- DUT
0:06:59.665570	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03ab, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: d2930ea4)
0:06:59.668569	LOG	Frame command sent to the DUT
0:06:59.670567	LOG	PULL_RESP: Protocol version = 02, Token = 023a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4167043166, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAqwPg0Km2Bdch9Z1pYz48+fyt+ZAR6sur4EqJNw34CK5DazC71kwZArtz0yRAOCu67t+Qyoa80pMOpA=='}}
0:06:59.671567	LOG	Server ----------> DUT
0:06:59.678563	LOG	Send Test Command TxFramesCtrlReq process completed
0:06:59.685559	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:04.659736	LOG	PUSH_ACK: 02 18e6 01
0:07:04.661735	LOG	PUSH_DATA: Protocol version = 02, Token = 18e6, Identifier = 00, JSON = {'rxpk': [{'tmst': 4170045783, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': 0, 'size': 15, 'data': 'QCAgICCAWgAB3fMwniVc'}]}
0:07:04.663734	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 005a, FOpts:), FPort: 01, FRMPayload: 004e, MIC: 309e255c)
0:07:04.665733	LOG	Server <---------- DUT
0:07:04.667732	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03ac, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: ddd86733)
0:07:04.669733	LOG	Frame command sent to the DUT
0:07:04.670732	LOG	PULL_RESP: Protocol version = 02, Token = f25a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4172045783, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAArAPgqssFqcrIBoG/txoJ/y0dlhKBqaDEwQbPRMpUnIfrOMlYSqsoOaCbNfhdb2Wmr/uikh2r3dhnMw=='}}
0:07:04.672729	LOG	Server ----------> DUT
0:07:04.675727	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:04.680724	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:06.355201	LOG	PULL_DATA: 02 0c45 02 aa555a0000240409
0:07:06.357199	LOG	PULL_ACK: 02 0c45 04
0:07:09.662323	LOG	PUSH_ACK: 02 18e7 01
0:07:09.664322	LOG	PUSH_DATA: Protocol version = 02, Token = 18e7, Identifier = 00, JSON = {'rxpk': [{'tmst': 4175048409, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -1, 'size': 15, 'data': 'QCAgICCAWwABAgNY4raR'}]}
0:07:09.666321	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 005b, FOpts:), FPort: 01, FRMPayload: 004f, MIC: 58e2b691)
0:07:09.667320	LOG	Server <---------- DUT
0:07:09.669319	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03ad, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 20c049ca)
0:07:09.671318	LOG	Frame command sent to the DUT

0:07:09.672318	LOG	PULL_RESP: Protocol version = 02, Token = d291, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4177048409, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAArQPgvtJAGWx//WkF+beqwrcTG7QXlaBjZGQvDWOWhTz87k3FcT0hAuSfR9mt5M3VX2/5CggdIMBJyg==''}}
0:07:09.674317	LOG	Server ----------> DUT
0:07:09.678314	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:09.682312	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:14.666264	LOG	PUSH_ACK: 02 18e8 01
0:07:14.668263	LOG	PUSH_DATA: Protocol version = 02, Token = 18e8, Identifier = 00, JSON = {'rxpk': [{'tmst': 4180051026, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAXAABDiUAwDcS'}]}
0:07:14.670262	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 005c, FOpts:), FPort: 01, FRMPayload: 0050, MIC: 00c03712)
0:07:14.671261	LOG	Server <---------- DUT
0:07:14.673259	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03ae, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 6e4674e1)
0:07:14.676258	LOG	Frame command sent to the DUT
0:07:14.678257	LOG	PULL_RESP: Protocol version = 02, Token = ae7c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4182051026, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAArgPgMlOLWHll/AvmD6Bjw8a4hbgAfsSFmYH4jzWhNXEOndjpRqSozVEhKretIajG2ctmdp9+bkZ04Q==''}}
0:07:14.679256	LOG	Server ----------> DUT
0:07:14.685253	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:14.689251	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:16.364301	LOG	PULL_DATA: 02 ea5b 02 aa555a0000240409
0:07:16.366299	LOG	PULL_ACK: 02 ea5b 04
0:07:19.668425	LOG	PUSH_ACK: 02 18e9 01
0:07:19.670424	LOG	PUSH_DATA: Protocol version = 02, Token = 18e9, Identifier = 00, JSON = {'rxpk': [{'tmst': 4185053660, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAXQABMpDx7xDx'}]}
0:07:19.672423	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 005d, FOpts:), FPort: 01, FRMPayload: 0051, MIC: f1ef10f1)
0:07:19.673423	LOG	Server <---------- DUT
0:07:19.676421	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03af, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 4b92131a)
0:07:19.678420	LOG	Frame command sent to the DUT
0:07:19.680418	LOG	PULL_RESP: Protocol version = 02, Token = 81e1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4187053660, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAArwPgin0BxLn+VJHTZqbVxT4H0nm1hBd1cXE1t0yJ0+BNXWrZZU/5GSdWmgwVyd6NMvslXYR4S5ITGg==''}}
0:07:19.682417	LOG	Server ----------> DUT
0:07:19.687415	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:19.692412	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:24.670587	LOG	PUSH_ACK: 02 18ea 01

0:07:24.672586	LOG	PUSH_DATA: Protocol version = 02, Token = 18ea, Identifier = 00, JSON = {'rxpk': [{'tmst': 4190056279, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAXgABfWP6s/rt'}]}
0:07:24.674585	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 005e, FOpts:), FPort: 01, FRMPayload: 0052, MIC: fab3faed)
0:07:24.676583	LOG	Server <---------- DUT
0:07:24.678582	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03b0, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 65269fd8)
0:07:24.680581	LOG	Frame command sent to the DUT
0:07:24.682580	LOG	PULL_RESP: Protocol version = 02, Token = 989f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4192056279, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAsAPgRrZiDD6rXRI2Gj/oN2AXopCUW2xQvVZQ4/x3CYlOBfHDGV7+6+VaNj8oElvrjsIcXIirZSaf2A=='}}
0:07:24.684579	LOG	Server ----------> DUT
0:07:24.688577	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:24.690576	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:26.574506	LOG	PULL_DATA: 02 cc7b 02 aa555a0000240409
0:07:26.576505	LOG	PULL_ACK: 02 cc7b 04
0:07:29.673748	LOG	PUSH_ACK: 02 18eb 01
0:07:29.675747	LOG	PUSH_DATA: Protocol version = 02, Token = 18eb, Identifier = 00, JSON = {'rxpk': [{'tmst': 4195058905, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -1, 'size': 15, 'data': 'QCAgICCAXwABPbkPKATH'}]}
0:07:29.677746	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 005f, FOpts:), FPort: 01, FRMPayload: 0053, MIC: 0f2804c7)
0:07:29.678745	LOG	Server <---------- DUT
0:07:29.680744	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03b1, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 3a24e61c)
0:07:29.682743	LOG	Frame command sent to the DUT
0:07:29.684742	LOG	PULL_RESP: Protocol version = 02, Token = 6cbd, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4197058905, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAsQPgpxwIWRqSwnwfH08WW7nOdntrzrlNqnEVqYpDCyZlgeFGFPtsOGoR102r10Hqby+U84DQOiTmHA=='}}
0:07:29.686741	LOG	Server ----------> DUT
0:07:29.689739	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:29.696735	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:34.675544	LOG	PUSH_ACK: 02 18ed 01
0:07:34.678542	LOG	PUSH_DATA: Protocol version = 02, Token = 18ed, Identifier = 00, JSON = {'rxpk': [{'tmst': 4200061531, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAYAABU2/A4iqP'}]}
0:07:34.680541	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0060, FOpts:), FPort: 01, FRMPayload: 0054, MIC: c0e22a8f)
0:07:34.681541	LOG	Server <---------- DUT
0:07:34.683539	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03b2, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c2dbec2b)

0:07:34.686538	LOG	Frame command sent to the DUT
0:07:34.687537	LOG	PULL_RESP: Protocol version = 02, Token = f167, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4202061531, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAsgPgJtnkyV8tEC0rxYky21f0Ze7yQYfq4HNvTzyxTUK6rbzOvLI7NpyzqE1NO/Pqqdgs+4OFwtvsKw==''}}
0:07:34.689536	LOG	Server ----------> DUT
0:07:34.696532	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:34.700530	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:36.785062	LOG	PULL_DATA: 02 2ba2 02 aa555a0000240409
0:07:36.787061	LOG	PULL_ACK: 02 2ba2 04
0:07:39.679419	LOG	PUSH_ACK: 02 18ee 01
0:07:39.681418	LOG	PUSH_DATA: Protocol version = 02, Token = 18ee, Identifier = 00, JSON = {'rxpk': [{'tmst': 4205064148, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -4, 'size': 15, 'data': 'QCAgICCAYQABWFNxpbB9''}]}
0:07:39.683417	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0061, FOpts:), FPort: 01, FRMPayload: 0055, MIC: 71a5b07d)
0:07:39.685416	LOG	Server <---------- DUT
0:07:39.687415	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03b3, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: aed16a0e)
0:07:39.689414	LOG	Frame command sent to the DUT
0:07:39.691413	LOG	PULL_RESP: Protocol version = 02, Token = 834a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4207064148, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAswPgXsl9Q86iU5N6Gd6ImVVhtVJj1Vo0jSZaATzwmfnpmkit/8boO4LahlaKzO4NI3yvL9b5rtFqDg==''}}
0:07:39.692412	LOG	Server ----------> DUT
0:07:39.698409	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:39.703406	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:44.681811	LOG	PUSH_ACK: 02 18ef 01
0:07:44.684810	LOG	PUSH_DATA: Protocol version = 02, Token = 18ef, Identifier = 00, JSON = {'rxpk': [{'tmst': 4210066775, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAYgABJ+c/YOIY''}]}
0:07:44.686809	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0062, FOpts:), FPort: 01, FRMPayload: 0056, MIC: 3f60e218)
0:07:44.687809	LOG	Server <---------- DUT
0:07:44.689807	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03b4, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 89b7fbda)
0:07:44.691806	LOG	Frame command sent to the DUT
0:07:44.693805	LOG	PULL_RESP: Protocol version = 02, Token = df27, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4212066775, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAtAPgpQCqODBo/Cj2s/HcQpTUYfpVpYUcP32ICw8bad5IyjvcOHkDKGGyLVaFjSvCP81l8WwHibf72g==''}}
0:07:44.695804	LOG	Server ----------> DUT
0:07:44.699801	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:44.707797	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:46.794414	LOG	PULL_DATA: 02 8153 02 aa555a0000240409

0:07:46.796413	LOG	PULL_ACK: 02 8153 04
0:07:49.683775	LOG	PUSH_ACK: 02 18f0 01
0:07:49.685774	LOG	PUSH_DATA: Protocol version = 02, Token = 18f0, Identifier = 00, JSON = {'rxpk': [{'tmst': 4215069402, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAYwABi3feCB+t'}]}
0:07:49.687773	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0063, FOpts:), FPort: 01, FRMPayload: 0057, MIC: de081fad)
0:07:49.688772	LOG	Server <---------- DUT
0:07:49.690771	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03b5, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 13b9a4af)
0:07:49.693769	LOG	Frame command sent to the DUT
0:07:49.695770	LOG	PULL_RESP: Protocol version = 02, Token = 6429, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4217069402, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAtQPg7Ync7rv7zTMNpd9rr/7O3TcAR8kqaGFizLaefR66C78ZV8U2IHtnpgO6F5EN+szC8QWWE7mkrw==''}}
0:07:49.696769	LOG	Server ----------> DUT
0:07:49.699767	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:49.703764	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:54.686241	LOG	PUSH_ACK: 02 18f1 01
0:07:54.688240	LOG	PUSH_DATA: Protocol version = 02, Token = 18f1, Identifier = 00, JSON = {'rxpk': [{'tmst': 4220072107, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAZAABQtOxZ1/7'}]}
0:07:54.690239	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0064, FOpts:), FPort: 01, FRMPayload: 0058, MIC: b1675ffb)
0:07:54.692238	LOG	Server <---------- DUT
0:07:54.694236	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03b6, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 50af3f5d)
0:07:54.697235	LOG	Frame command sent to the DUT
0:07:54.698235	LOG	PULL_RESP: Protocol version = 02, Token = 3f99, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4222072107, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAtgPgjoPD5nwKdSsPOloIrOy/Er9I1Du908Ac2KjFbcWLj+NGYJBJN3HzyyPsOxnT7y+vo8o3UK8/XQ==''}}
0:07:54.700233	LOG	Server ----------> DUT
0:07:54.708229	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:54.712228	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:56.804028	LOG	PULL_DATA: 02 8bc0 02 aa555a0000240409
0:07:56.806028	LOG	PULL_ACK: 02 8bc0 04
0:07:59.688409	LOG	PUSH_ACK: 02 18f2 01
0:07:59.691408	LOG	PUSH_DATA: Protocol version = 02, Token = 18f2, Identifier = 00, JSON = {'rxpk': [{'tmst': 4225074726, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAZQABzWn/bAVg'}]}
0:07:59.693407	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0065, FOpts:), FPort: 01, FRMPayload: 0059, MIC: ff6c0560)
0:07:59.694406	LOG	Server <---------- DUT
0:07:59.696405	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03b7, FOpts:), FPort: e0, FRMPayload:

		07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 4efc0b67)
0:07:59.699403	LOG	Frame command sent to the DUT
0:07:59.701402	LOG	PULL_RESP: Protocol version = 02, Token = 0781, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4227074726, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAtwPgRCcpv6Wr9wCO4JGBWxSniZ+s8/i81GU2nN5agmv5CmDBwvXXA+I2MYrD+GaEvXe+s2pQTvwLZw=='}}
0:07:59.702402	LOG	Server ----------> DUT
0:07:59.707398	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:59.712396	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:04.691807	LOG	PUSH_ACK: 02 18f4 01
0:08:04.693805	LOG	PUSH_DATA: Protocol version = 02, Token = 18f4, Identifier = 00, JSON = {'rxpk': [{'tmst': 4230077351, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -4, 'size': 15, 'data': 'QCAgICCAZgABzX+09DWP'}]}
0:08:04.695805	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0066, FOpts:), FPort: 01, FRMPayload: 005a, MIC: b4f4358f)
0:08:04.696804	LOG	Server <---------- DUT
0:08:04.698803	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03b8, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 6bb755ae)
0:08:04.701801	LOG	Frame command sent to the DUT
0:08:04.702800	LOG	PULL_RESP: Protocol version = 02, Token = e53a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4232077351, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAuAPgArn4P44yTYYuC0V0GRZQ1WsT1mil27O5vB/25QI/YrTRJzKhs3yRTltCRfjce9rirZOha7dVrg=='}}
0:08:04.704800	LOG	Server ----------> DUT
0:08:04.707797	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:04.712795	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:07.014123	LOG	PULL_DATA: 02 f8a9 02 aa555a0000240409
0:08:07.016123	LOG	PULL_ACK: 02 f8a9 04
0:08:09.694619	LOG	PUSH_ACK: 02 18f5 01
0:08:09.696618	LOG	PUSH_DATA: Protocol version = 02, Token = 18f5, Identifier = 00, JSON = {'rxpk': [{'tmst': 4235079960, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAZwABrCyKglc7'}]}
0:08:09.697617	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0067, FOpts:), FPort: 01, FRMPayload: 005b, MIC: 8a82573b)
0:08:09.698616	LOG	Server <---------- DUT
0:08:09.700616	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03b9, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 3e39318f)
0:08:09.701615	LOG	Frame command sent to the DUT
0:08:09.703614	LOG	PULL_RESP: Protocol version = 02, Token = 4b5a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4237079960, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAuQPgjIpIhnGuSFIGk5x7Y+8ksBKy4RsJfsjvAe1+1J6gSTS0YEXCg3F1hcUmifiY70W7vN5qPjkxjw=='}}
0:08:09.704613	LOG	Server ----------> DUT
0:08:09.707611	LOG	Send Test Command TxFramesCtrlReq process completed

0:08:09.712609	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:14.696852	LOG	PUSH_ACK: 02 18f6 01
0:08:14.699850	LOG	PUSH_DATA: Protocol version = 02, Token = 18f6, Identifier = 00, JSON = {'rxpk': [{'tmst': 4240082592, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAaAABmpRGGlCY'}]}
0:08:14.701849	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0068, FOpts:), FPort: 01, FRMPayload: 005c, MIC: 461a5098)
0:08:14.702849	LOG	Server <---------- DUT
0:08:14.704847	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03ba, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: b275c8d9)
0:08:14.707846	LOG	Frame command sent to the DUT
0:08:14.709845	LOG	PULL_RESP: Protocol version = 02, Token = 9dc8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4242082592, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAugPgjkOosMjyKO9iiqeEXrEmP3snf7zItQP6d1YfnhCJzFaHU6cT++qz6iV9N3J1vbG6mlxgsnXI2Q=='}}
0:08:14.711843	LOG	Server ----------> DUT
0:08:14.717840	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:14.726835	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:17.024575	LOG	PULL_DATA: 02 5ff1 02 aa555a0000240409
0:08:17.026574	LOG	PULL_ACK: 02 5ff1 04
0:08:19.700064	LOG	PUSH_ACK: 02 18f7 01
0:08:19.702063	LOG	PUSH_DATA: Protocol version = 02, Token = 18f7, Identifier = 00, JSON = {'rxpk': [{'tmst': 4245085210, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -1, 'size': 15, 'data': 'QCAgICCAaQABiFD2OOs0'}]}
0:08:19.704061	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0069, FOpts:), FPort: 01, FRMPayload: 005d, MIC: f638eb34)
0:08:19.706061	LOG	Server <---------- DUT
0:08:19.708060	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03bb, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 1a0769d0)
0:08:19.710058	LOG	Frame command sent to the DUT
0:08:19.712057	LOG	PULL_RESP: Protocol version = 02, Token = 0d4a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4247085210, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAuwPgbt8TFzAKtHwLWQYah+LBP/pFglQ45jB2pLp+pRM52aLQQibVYmkhEi0SX7hminlp1UElGgdp0A=='}}
0:08:19.714056	LOG	Server ----------> DUT
0:08:19.720053	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:19.724050	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:24.701433	LOG	PUSH_ACK: 02 18f8 01
0:08:24.704431	LOG	PUSH_DATA: Protocol version = 02, Token = 18f8, Identifier = 00, JSON = {'rxpk': [{'tmst': 4250087818, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -1, 'size': 15, 'data': 'QCAgICCAagABBqvWtq2l'}]}
0:08:24.706430	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 006a, FOpts:), FPort: 01, FRMPayload: 005e, MIC: d6b6ada5)
0:08:24.707430	LOG	Server <---------- DUT
0:08:24.709428	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03bc, FOpts:), FPort: e0, FRMPayload:

		07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 705a0c91)
0:08:24.711429	LOG	Frame command sent to the DUT
0:08:24.712429	LOG	PULL_RESP: Protocol version = 02, Token = bc1d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4252087818, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAvAPgJzMNqyjdzxeVP9pMsRH+h8d9WRtnhnT844dux2lffJ4rB6t6SLO47fXwkVj2WEc5YaTicFoMkQ=='}}
0:08:24.714426	LOG	Server ----------> DUT
0:08:24.718423	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:24.725421	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:27.234139	LOG	PULL_DATA: 02 542e 02 aa555a0000240409
0:08:27.236138	LOG	PULL_ACK: 02 542e 04
0:08:29.704737	LOG	PUSH_ACK: 02 18f9 01
0:08:29.706736	LOG	PUSH_DATA: Protocol version = 02, Token = 18f9, Identifier = 00, JSON = {'rxpk': [{'tmst': 4255090435, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAawABRKaoE6nS'}]}
0:08:29.708735	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 006b, FOpts:), FPort: 01, FRMPayload: 005f, MIC: a813a9d2)
0:08:29.710734	LOG	Server <---------- DUT
0:08:29.712733	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03bd, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c1ccf7d9)
0:08:29.715731	LOG	Frame command sent to the DUT
0:08:29.716731	LOG	PULL_RESP: Protocol version = 02, Token = 9af6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4257090435, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAvQPgUx1FN8JnEAs14E0W4IDpAzjAnafBODc5hZISfrixbK+WTR8O7X35z1SIxsYatPSqdoIuwcz32Q=='}}
0:08:29.718729	LOG	Server ----------> DUT
0:08:29.721727	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:29.729723	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:34.707117	LOG	PUSH_ACK: 02 18fb 01
0:08:34.710115	LOG	PUSH_DATA: Protocol version = 02, Token = 18fb, Identifier = 00, JSON = {'rxpk': [{'tmst': 4260093053, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAbAABz/kfVaCF'}]}
0:08:34.712114	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 006c, FOpts:), FPort: 01, FRMPayload: 0060, MIC: 1f55a085)
0:08:34.713113	LOG	Server <---------- DUT
0:08:34.715112	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03be, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 69d46f17)
0:08:34.718111	LOG	Frame command sent to the DUT
0:08:34.719110	LOG	PULL_RESP: Protocol version = 02, Token = 6eb2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4262093053, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAvgPgMYB6eWXwY6txvo9e5dBz/z4F6ekaDOXiFMn7Ve04FB7zLjz0Y+9dXvkstArSbrKyJ6QDadRvFw=='}}
0:08:34.721109	LOG	Server ----------> DUT
0:08:34.726106	LOG	Send Test Command TxFramesCtrlReq process completed

0:08:34.736100	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:37.244529	LOG	PULL_DATA: 02 fc32 02 aa555a0000240409
0:08:37.245528	LOG	PULL_ACK: 02 fc32 04
0:08:39.710129	LOG	PUSH_ACK: 02 18fc 01
0:08:39.713128	LOG	PUSH_DATA: Protocol version = 02, Token = 18fc, Identifier = 00, JSON = {'rxpk': [{'tmst': 4265095672, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 6.2, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAbQABvV1nwqVm'}]}
0:08:39.714127	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 006d, FOpts:), FPort: 01, FRMPayload: 0061, MIC: 67c2a566)
0:08:39.716126	LOG	Server <---------- DUT
0:08:39.718125	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03bf, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: a8ece024)
0:08:39.721123	LOG	Frame command sent to the DUT
0:08:39.722123	LOG	PULL_RESP: Protocol version = 02, Token = e10e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4267095672, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAvwPgBu7E9n/d21Z4nuY2djUhVsOnr7IfeiUB2A8DPgutY7DzwLGCU/RNrbuGJ4WuaVNelCDuqOzgJA=='}}
0:08:39.724122	LOG	Server ----------> DUT
0:08:39.731117	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:39.735115	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:44.713430	LOG	PUSH_ACK: 02 18fd 01
0:08:44.715429	LOG	PUSH_DATA: Protocol version = 02, Token = 18fd, Identifier = 00, JSON = {'rxpk': [{'tmst': 4270098298, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAbgABGVG8mSCY'}]}
0:08:44.717427	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 006e, FOpts:), FPort: 01, FRMPayload: 0062, MIC: bc992098)
0:08:44.719426	LOG	Server <---------- DUT
0:08:44.721425	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03c0, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 34db5c94)
0:08:44.723424	LOG	Frame command sent to the DUT
0:08:44.725422	LOG	PULL_RESP: Protocol version = 02, Token = b8bd, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4272098298, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAwAPgw+NUl7AiaaCgmQ/tsFvuMdvH55X+EJVjiRD1OkRkHFkNVH4rMn7ABA7lCGaCtWV23clNNNtclA=='}}
0:08:44.726422	LOG	Server ----------> DUT
0:08:44.732419	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:44.736417	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:47.454826	LOG	PULL_DATA: 02 bbed 02 aa555a0000240409
0:08:47.455824	LOG	PULL_ACK: 02 bbed 04
0:08:49.714584	LOG	PUSH_ACK: 02 18fe 01
0:08:49.717583	LOG	PUSH_DATA: Protocol version = 02, Token = 18fe, Identifier = 00, JSON = {'rxpk': [{'tmst': 4275100924, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAbwAB32Exyx/i'}]}
0:08:49.719582	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 006f, FOpts:), FPort: 01, FRMPayload: 0063, MIC: 31cb1fe2)
0:08:49.720581	LOG	Server <---------- DUT

0:08:49.722580	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03c1, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 70eb6260)
0:08:49.725578	LOG	Frame command sent to the DUT
0:08:49.727577	LOG	PULL_RESP: Protocol version = 02, Token = d02b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4277100924, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAwQPgv12AKorW2mtsREE6K7rfIfeqRWhb5zfzfiJQakjozFsfWtFMiIVcUhMOv+rCffshGSMrcOtiYA=='}}
0:08:49.728577	LOG	Server ----------> DUT
0:08:49.734573	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:49.738571	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:54.717806	LOG	PUSH_ACK: 02 18ff 01
0:08:54.720804	LOG	PUSH_DATA: Protocol version = 02, Token = 18ff, Identifier = 00, JSON = {'rxpk': [{'tmst': 4280103542, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAcAAB+m/sB3+L'}]}
0:08:54.722803	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0070, FOpts:), FPort: 01, FRMPayload: 0064, MIC: ec077f8b)
0:08:54.723803	LOG	Server <---------- DUT
0:08:54.725801	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03c2, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: b1d21754)
0:08:54.731798	LOG	Frame command sent to the DUT
0:08:54.733797	LOG	PULL_RESP: Protocol version = 02, Token = 065f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4282103542, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAwgPgXidrNzM8PYP8Sb+R2KQ6/cd4c/jaV9uk2hNKToLBE6QzYQvI5MmLfBEkC/OjrtTcowJgsdIXVA=='}}
0:08:54.734796	LOG	Server ----------> DUT
0:08:54.739793	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:54.742793	LOG	Send Test Command TxFramesCtrlReq process starts
0:08:57.464333	LOG	PULL_DATA: 02 706b 02 aa555a0000240409
0:08:57.466337	LOG	PULL_ACK: 02 706b 04
0:08:59.720630	LOG	PUSH_ACK: 02 1901 01
0:08:59.723629	LOG	PUSH_DATA: Protocol version = 02, Token = 1901, Identifier = 00, JSON = {'rxpk': [{'tmst': 4285106153, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAcQABay09GEt+'}]}
0:08:59.724628	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0071, FOpts:), FPort: 01, FRMPayload: 0065, MIC: 3d184b7e)
0:08:59.726627	LOG	Server <---------- DUT
0:08:59.729625	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03c3, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 58ba4259)
0:08:59.731624	LOG	Frame command sent to the DUT
0:08:59.733623	LOG	PULL_RESP: Protocol version = 02, Token = c019, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4287106153, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAwwPgdNu7fzOBBlx7TnOrdMij8EoU+ZgY/lzviDWKg8CmrcoB7qDt70iXGIRTiz3HVhLu+aU1WLpCWQ=='}}

0:08:59.735622	LOG	Server ----------> DUT
0:08:59.739619	LOG	Send Test Command TxFramesCtrlReq process completed
0:08:59.748615	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:04.723791	LOG	PUSH_ACK: 02 1903 01
0:09:04.725790	LOG	PUSH_DATA: Protocol version = 02, Token = 1903, Identifier = 00, JSON = {'rxpk': [{'tmst': 4290108786, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAcgABVt5dirKz'}]}
0:09:04.727789	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0072, FOpts:), FPort: 01, FRMPayload: 0066, MIC: 5d8ab2b3)
0:09:04.729788	LOG	Server <---------- DUT
0:09:04.731789	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03c4, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 538d4ce4)
0:09:04.733786	LOG	Frame command sent to the DUT
0:09:04.734785	LOG	PULL_RESP: Protocol version = 02, Token = 2ed0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 4292108786, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAxAPgcb6a5+86P4I1js2yMsHEa1OoHYqfjryPIOAcTGyUBprcGVXqXq6uh+pO/qOdy/R14MbRU41M5A=='}}
0:09:04.736784	LOG	Server ----------> DUT
0:09:04.739782	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:04.744780	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:07.674497	LOG	PULL_DATA: 02 9b10 02 aa555a0000240409
0:09:07.676495	LOG	PULL_ACK: 02 9b10 04
0:09:09.725388	LOG	PUSH_ACK: 02 1904 01
0:09:09.727387	LOG	PUSH_DATA: Protocol version = 02, Token = 1904, Identifier = 00, JSON = {'rxpk': [{'tmst': 144115, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAcwABMIKRTQKZ'}]}
0:09:09.729385	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0073, FOpts:), FPort: 01, FRMPayload: 0067, MIC: 914d0299)
0:09:09.731385	LOG	Server <---------- DUT
0:09:09.733383	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03c5, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: d1773507)
0:09:09.736382	LOG	Frame command sent to the DUT
0:09:09.737381	LOG	PULL_RESP: Protocol version = 02, Token = 9dbe, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2144115, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAxQPgrzHmUU4ZLoyOAPMaaGeQp839tuoetdjJuRxr0uAkdgcZDS8jik0Tq3IwWYDQI03JYsNF0Xc1Bw=='}}
0:09:09.740380	LOG	Server ----------> DUT
0:09:09.746377	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:09.751374	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:14.729423	LOG	PUSH_ACK: 02 1905 01
0:09:14.732421	LOG	PUSH_DATA: Protocol version = 02, Token = 1905, Identifier = 00, JSON = {'rxpk': [{'tmst': 5146733, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -1, 'size': 15, 'data': 'QCAgICCAdAAB854g4gXe'}]}
0:09:14.733421	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0074, FOpts:), FPort: 01, FRMPayload: 0068, MIC: 20e205de)
0:09:14.735420	LOG	Server <---------- DUT

0:09:14.737419	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03c6, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: a1074ca2)
0:09:14.739417	LOG	Frame command sent to the DUT
0:09:14.741416	LOG	PULL_RESP: Protocol version = 02, Token = e3d6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 7146733, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAxgPgsoU8Tqa+HhJDdcayKFOMVIAIl+eNiZUUzW6qqFhWfN+bIijJ2VlnMpE06YE9g0O1cm7SoQdMog==''}}
0:09:14.743415	LOG	Server ----------> DUT
0:09:14.749412	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:14.753410	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:17.684573	LOG	PULL_DATA: 02 19ab 02 aa555a0000240409
0:09:17.686571	LOG	PULL_ACK: 02 19ab 04
0:09:19.732419	LOG	PUSH_ACK: 02 1906 01
0:09:19.734418	LOG	PUSH_DATA: Protocol version = 02, Token = 1906, Identifier = 00, JSON = {'rxpk': [{'tmst': 10149364, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -4, 'size': 15, 'data': 'QCAgICCAdQABOb3LFBne''}]}
0:09:19.736417	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0075, FOpts:), FPort: 01, FRMPayload: 0069, MIC: cb1419de)
0:09:19.737416	LOG	Server <---------- DUT
0:09:19.739415	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03c7, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 39226e3d)
0:09:19.742413	LOG	Frame command sent to the DUT
0:09:19.744412	LOG	PULL_RESP: Protocol version = 02, Token = 0169, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 12149364, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAxwPgwBBuIIBkLpwikpuoQaxdi7zrDS1Z9bnNAgQHxr9BEVeYo1Xb2gJK3ffqQiJbFC0OaKAEOSJuPQ==''}}
0:09:19.745411	LOG	Server ----------> DUT
0:09:19.750409	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:19.754406	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:24.734768	LOG	PUSH_ACK: 02 1907 01
0:09:24.736766	LOG	PUSH_DATA: Protocol version = 02, Token = 1907, Identifier = 00, JSON = {'rxpk': [{'tmst': 15151983, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': 0, 'size': 15, 'data': 'QCAgICCAdgABMKXOAv20''}]}
0:09:24.738766	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0076, FOpts:), FPort: 01, FRMPayload: 006a, MIC: ce02fdb4)
0:09:24.739765	LOG	Server <---------- DUT
0:09:24.741764	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03c8, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: b0c6e7a7)
0:09:24.743763	LOG	Frame command sent to the DUT
0:09:24.744762	LOG	PULL_RESP: Protocol version = 02, Token = f00b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 17151983, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAyAPgn78QNqFfydiMJ5zBBC8fFjRgPMfH8ySwkgYUzacObwpsfFJS14ODBTiCwEQctNp2vdNXsMbnpw==''}}

0:09:24.746761	LOG	Server ----------> DUT
0:09:24.749759	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:24.753757	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:27.894350	LOG	PULL_DATA: 02 ffd8 02 aa555a0000240409
0:09:27.896348	LOG	PULL_ACK: 02 ffd8 04
0:09:29.737304	LOG	PUSH_ACK: 02 1908 01
0:09:29.739303	LOG	PUSH_DATA: Protocol version = 02, Token = 1908, Identifier = 00, JSON = {'rxpk': [{'tmst': 20154616, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -4, 'size': 15, 'data': 'QCAgICCAdwABsagWolVp'}]}
0:09:29.741302	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0077, FOpts:), FPort: 01, FRMPayload: 006b, MIC: 16a25569)
0:09:29.743301	LOG	Server <---------- DUT
0:09:29.745300	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03c9, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 77c227c8)
0:09:29.748298	LOG	Frame command sent to the DUT
0:09:29.750297	LOG	PULL_RESP: Protocol version = 02, Token = f2a8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 22154616, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAyQPge2gfns5D6wOBwUZa+hl2k+8Iu6cyIVx016uY5hNw/ETQFTiuVWJ+xEVTj+5QfBezdRwJd8InyA=='}}
0:09:29.751296	LOG	Server ----------> DUT
0:09:29.755294	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:29.760291	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:34.739651	LOG	PUSH_ACK: 02 190a 01
0:09:34.742649	LOG	PUSH_DATA: Protocol version = 02, Token = 190a, Identifier = 00, JSON = {'rxpk': [{'tmst': 25157240, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAeAABli0fj8OO'}]}
0:09:34.743648	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0078, FOpts:), FPort: 01, FRMPayload: 006c, MIC: 1f8fc38e)
0:09:34.745647	LOG	Server <---------- DUT
0:09:34.748646	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03ca, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 84dca2b0)
0:09:34.750645	LOG	Frame command sent to the DUT
0:09:34.752644	LOG	PULL_RESP: Protocol version = 02, Token = 8bef, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 27157240, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAygPgpWw8OgWUXYroCDwS+Wo2sbqxHyVggdkVU0pEnJxUGwxqeY86fn/EeBwrdIBZCa9VyZpAhNyisA=='}}
0:09:34.753643	LOG	Server ----------> DUT
0:09:34.758640	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:34.762638	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:37.904317	LOG	PULL_DATA: 02 5b0b 02 aa555a0000240409
0:09:37.906316	LOG	PULL_ACK: 02 5b0b 04
0:09:39.742275	LOG	PUSH_ACK: 02 190b 01
0:09:39.745272	LOG	PUSH_DATA: Protocol version = 02, Token = 190b, Identifier = 00, JSON = {'rxpk': [{'tmst': 30159857, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAeQAB+wHtD7mS'}]}

0:09:39.747271	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0079, FOpts:), FPort: 01, FRMPayload: 006d, MIC: ed0fb992)
0:09:39.748270	LOG	Server <---------- DUT
0:09:39.750269	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03cb, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c884b1a0)
0:09:39.753267	LOG	Frame command sent to the DUT
0:09:39.755266	LOG	PULL_RESP: Protocol version = 02, Token = 47fb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 32159857, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAywPgAn1GgkleWY8fVXcNwkXyZo8BzGCaeYkEfb4cu5TIrGQiIwrTcamCbnUUiZTTRtQ1FksqyISxoA=='}}
0:09:39.756266	LOG	Server ----------> DUT
0:09:39.761263	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:39.767259	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:44.745434	LOG	PUSH_ACK: 02 190c 01
0:09:44.748433	LOG	PUSH_DATA: Protocol version = 02, Token = 190c, Identifier = 00, JSON = {'rxpk': [{'tmst': 35162490, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAegABuWYTWGAn'}]}
0:09:44.750431	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 007a, FOpts:), FPort: 01, FRMPayload: 006e, MIC: 13586027)
0:09:44.751431	LOG	Server <---------- DUT
0:09:44.753430	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03cc, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 82f07ae9)
0:09:44.756428	LOG	Frame command sent to the DUT
0:09:44.757428	LOG	PULL_RESP: Protocol version = 02, Token = 40e2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 37162490, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAzAPgLIfE7uFdapoUFGP588KsslZ3j+YBoo3B5K1w3EA0NxN2vRznyNXXyQHaQSU7T9kJCB9ggvB66Q=='}}
0:09:44.759426	LOG	Server ----------> DUT
0:09:44.765423	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:44.770420	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:47.914636	LOG	PULL_DATA: 02 1d45 02 aa555a0000240409
0:09:47.916635	LOG	PULL_ACK: 02 1d45 04
0:09:49.748595	LOG	PUSH_ACK: 02 190d 01
0:09:49.750594	LOG	PUSH_DATA: Protocol version = 02, Token = 190d, Identifier = 00, JSON = {'rxpk': [{'tmst': 40165109, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAewABsgPvYAUY'}]}
0:09:49.752593	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 007b, FOpts:), FPort: 01, FRMPayload: 006f, MIC: ef600518)
0:09:49.754592	LOG	Server <---------- DUT
0:09:49.756591	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03cd, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 2a23429f)
0:09:49.758589	LOG	Frame command sent to the DUT
0:09:49.760588	LOG	PULL_RESP: Protocol version = 02, Token = 666a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 42165109, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True,

		'size': 64, 'data': 'YCAgICAAzQPg5HONykRf29JAAWS3NKkT9k+DXvK3+VS3Uthh2Q0Q3EH0G6zmcmnmfXKg2YLb3/98U85DKiNCnw=='}}
0:09:49.761588	LOG	Server ----------> DUT
0:09:49.765585	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:49.769585	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:54.749757	LOG	PUSH_ACK: 02 190e 01
0:09:54.752755	LOG	PUSH_DATA: Protocol version = 02, Token = 190e, Identifier = 00, JSON = {'rxpk': [{'tmst': 45167725, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': 0, 'size': 15, 'data': 'QCAgICCAfAABR9xxIKYj'}]}
0:09:54.753755	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 007c, FOpts:), FPort: 01, FRMPayload: 0070, MIC: 7120a623)
0:09:54.755754	LOG	Server <---------- DUT
0:09:54.757752	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03ce, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: e87b4315)
0:09:54.759751	LOG	Frame command sent to the DUT
0:09:54.761751	LOG	PULL_RESP: Protocol version = 02, Token = 9e62, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 47167725, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAzgPgNWoyP9Q/qN5ELQU4xPfmqyjM3e4i0qrCLuz8yUNlNaiHdjiTbWf+ibn85/5ZgXLYp6RM6HtDFQ=='}}
0:09:54.762750	LOG	Server ----------> DUT
0:09:54.767746	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:54.772744	LOG	Send Test Command TxFramesCtrlReq process starts
0:09:58.123842	LOG	PULL_DATA: 02 67e9 02 aa555a0000240409
0:09:58.125841	LOG	PULL_ACK: 02 67e9 04
0:09:59.750919	LOG	PUSH_ACK: 02 190f 01
0:09:59.753917	LOG	PUSH_DATA: Protocol version = 02, Token = 190f, Identifier = 00, JSON = {'rxpk': [{'tmst': 50170335, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAfQABhOBmd7ev'}]}
0:09:59.754916	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 007d, FOpts:), FPort: 01, FRMPayload: 0071, MIC: 6677b7af)
0:09:59.756915	LOG	Server <---------- DUT
0:09:59.758914	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03cf, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 5108f098)
0:09:59.761912	LOG	Frame command sent to the DUT
0:09:59.762912	LOG	PULL_RESP: Protocol version = 02, Token = 3487, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 52170335, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAzwPg3bVrVMYQ+28X/E9QFl04T6Yp2VNVSFihKNn0wPUehlXVe5tbDZ4NGCOAnLcj2hGdsGdOUQjwmA=='}}
0:09:59.764911	LOG	Server ----------> DUT
0:09:59.768908	LOG	Send Test Command TxFramesCtrlReq process completed
0:09:59.797892	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:04.753290	LOG	PUSH_ACK: 02 1911 01
0:10:04.755290	LOG	PUSH_DATA: Protocol version = 02, Token = 1911, Identifier = 00, JSON = {'rxpk': [{'tmst': 55172961, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAfgAB384wUfAZ'}]}

0:10:04.757290	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 007e, FOpts:), FPort: 01, FRMPayload: 0072, MIC: 3051f019)
0:10:04.758287	LOG	Server <---------- DUT
0:10:04.759289	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03d0, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 1565f092)
0:10:04.761284	LOG	Frame command sent to the DUT
0:10:04.763282	LOG	PULL_RESP: Protocol version = 02, Token = 5df7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 57172961, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA0APgmqlLg3Vf0eVgGiJ6r9XLZ9pLIUJeYb7e48wjJRoW47/NtgdPwxB6/XLbCDoeYw16+I7pFWXwkg==''}}
0:10:04.764281	LOG	Server ----------> DUT
0:10:04.768279	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:04.772276	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:08.333302	LOG	PULL_DATA: 02 c192 02 aa555a0000240409
0:10:08.335301	LOG	PULL_ACK: 02 c192 04
0:10:09.757493	LOG	PUSH_ACK: 02 1912 01
0:10:09.760493	LOG	PUSH_DATA: Protocol version = 02, Token = 1912, Identifier = 00, JSON = {'rxpk': [{'tmst': 60175589, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAfwAB2HFy+kLS''}]}
0:10:09.761492	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 007f, FOpts:), FPort: 01, FRMPayload: 0073, MIC: 72fa42d2)
0:10:09.763490	LOG	Server <---------- DUT
0:10:09.765489	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03d1, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 80994a33)
0:10:09.767490	LOG	Frame command sent to the DUT
0:10:09.769487	LOG	PULL_RESP: Protocol version = 02, Token = 0943, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 62175589, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA0QPgL1w0qKfq570iB0MtILDLJOLjvBuD7tImiiv3pmzej76j7cz33tapPoEYHgIZm65vS+sQgJlKMw==''}}
0:10:09.771486	LOG	Server ----------> DUT
0:10:09.774485	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:09.777483	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:14.759654	LOG	PUSH_ACK: 02 1913 01
0:10:14.762653	LOG	PUSH_DATA: Protocol version = 02, Token = 1913, Identifier = 00, JSON = {'rxpk': [{'tmst': 65178206, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': 0, 'size': 15, 'data': 'QCAgICCAgAABn9UHMfPO''}]}
0:10:14.763652	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0080, FOpts:), FPort: 01, FRMPayload: 0074, MIC: 0731f3ce)
0:10:14.765651	LOG	Server <---------- DUT
0:10:14.769649	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03d2, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 179e7622)
0:10:14.775645	LOG	Frame command sent to the DUT
0:10:14.779643	LOG	PULL_RESP: Protocol version = 02, Token = b617, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 67178206, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True,

		'size': 64, 'data': 'YCAgICAA0gPgoR7XYDiQTcF0bjRJBp0XKu2ZF3tqdHCdoYI6v3Yh8vGgVBWftuNriWCQLwQ3HPBioYFsF552Ig=='}}
0:10:14.781643	LOG	Server ----------> DUT
0:10:14.784640	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:14.789637	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:18.353632	LOG	PULL_DATA: 02 8b42 02 aa555a0000240409
0:10:18.356613	LOG	PULL_ACK: 02 8b42 04
0:10:19.762815	LOG	PUSH_ACK: 02 1914 01
0:10:19.764814	LOG	PUSH_DATA: Protocol version = 02, Token = 1914, Identifier = 00, JSON = {'rxpk': [{'tmst': 70180816, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -1, 'size': 15, 'data': 'QCAgICCAgQABXLByVER0'}]}
0:10:19.766812	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0081, FOpts:), FPort: 01, FRMPayload: 0075, MIC: 72544474)
0:10:19.767812	LOG	Server <---------- DUT
0:10:19.769811	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03d3, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: fccc0585)
0:10:19.772809	LOG	Frame command sent to the DUT
0:10:19.773809	LOG	PULL_RESP: Protocol version = 02, Token = 66e7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 72180816, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA0wPgiiOwn8WUw8TpYbRBhE13BRVrS0u/EcQ0b3UAZnsb9OGK9w5x37B68EflY6m9Dk6gWRXw/MwFhQ=='}}
0:10:19.775808	LOG	Server ----------> DUT
0:10:19.779805	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:19.785802	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:24.764518	LOG	PUSH_ACK: 02 1915 01
0:10:24.766498	LOG	PUSH_DATA: Protocol version = 02, Token = 1915, Identifier = 00, JSON = {'rxpk': [{'tmst': 75183434, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.0, 'rssi': -1, 'size': 15, 'data': 'QCAgICCAggABG94tchFU'}]}
0:10:24.767499	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0082, FOpts:), FPort: 01, FRMPayload: 0076, MIC: 2d721154)
0:10:24.769497	LOG	Server <---------- DUT
0:10:24.771496	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03d4, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 22134e45)
0:10:24.774495	LOG	Frame command sent to the DUT
0:10:24.775512	LOG	PULL_RESP: Protocol version = 02, Token = c5c9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 77183434, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA1APgAiZpEbXxr8Yw0afrzfxjJ2tgGv74eiaBkzajD25x7K0bYXhgIBWeqHSux8scRm/9K4tsIhNORQ=='}}
0:10:24.777494	LOG	Server ----------> DUT
0:10:24.780490	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:24.785487	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:28.553201	LOG	PULL_DATA: 02 e517 02 aa555a0000240409
0:10:28.555199	LOG	PULL_ACK: 02 e517 04
0:10:29.766511	LOG	PUSH_ACK: 02 1916 01
0:10:29.769510	LOG	PUSH_DATA: Protocol version = 02, Token = 1916, Identifier = 00, JSON = {'rxpk': [{'tmst': 80186051, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA',

		'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAgwABVEgwLCwq'}]}
0:10:29.770509	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0083, FOpts:), FPort: 01, FRMPayload: 0077, MIC: 302c2c2a)
0:10:29.771508	LOG	Server <---------- DUT
0:10:29.773507	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03d5, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: bf5bc847)
0:10:29.776506	LOG	Frame command sent to the DUT
0:10:29.777506	LOG	PULL_RESP: Protocol version = 02, Token = b62a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 82186051, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA1QPgWlWULWi6dVyaZ4mw8pqNm5cSKbxt5nN31avGaxG+WXBGC3eGgDUnYA9j4Y7zCWwoobbyv1vIRw==''}}
0:10:29.778506	LOG	Server ----------> DUT
0:10:29.782502	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:29.786500	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:34.769163	LOG	PUSH_ACK: 02 1918 01
0:10:34.773162	LOG	PUSH_DATA: Protocol version = 02, Token = 1918, Identifier = 00, JSON = {'rxpk': [{'tmst': 85188694, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAhAABrbZPTXaq'}]}
0:10:34.775160	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0084, FOpts:), FPort: 01, FRMPayload: 0078, MIC: 4f4d76aa)
0:10:34.776159	LOG	Server <---------- DUT
0:10:34.778158	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03d6, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 6067d867)
0:10:34.781157	LOG	Frame command sent to the DUT
0:10:34.783155	LOG	PULL_RESP: Protocol version = 02, Token = 552f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 87188694, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA1gPg325w37HB9kXCmObVOh001AtIl3qveT8pW5HNxR/+2BVBQzug9RfpamA/vLRWa+SJQo7FYGfYZw==''}}
0:10:34.784174	LOG	Server ----------> DUT
0:10:34.788154	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:34.791152	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:38.564086	LOG	PULL_DATA: 02 02de 02 aa555a0000240409
0:10:38.566085	LOG	PULL_ACK: 02 02de 04
0:10:39.772402	LOG	PUSH_ACK: 02 1919 01
0:10:39.774401	LOG	PUSH_DATA: Protocol version = 02, Token = 1919, Identifier = 00, JSON = {'rxpk': [{'tmst': 90191318, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAhQABGxmiHxQ6'}]}
0:10:39.776400	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0085, FOpts:), FPort: 01, FRMPayload: 0079, MIC: a21f143a)
0:10:39.777403	LOG	Server <---------- DUT
0:10:39.779398	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03d7, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 91739745)
0:10:39.782397	LOG	Frame command sent to the DUT

0:10:39.784395	LOG	PULL_RESP: Protocol version = 02, Token = a498, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 92191318, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA1wPgvNgIblkEwsh3ZASVkx1U3FbaMfHHvrMYylcr+3TwztIoLgzn6yyFWfnPYEO6POgsehxYkXOXRQ==''}}
0:10:39.785394	LOG	Server ----------> DUT
0:10:39.789392	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:39.794389	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:44.775148	LOG	PUSH_ACK: 02 191a 01
0:10:44.778148	LOG	PUSH_DATA: Protocol version = 02, Token = 191a, Identifier = 00, JSON = {'rxpk': [{'tmst': 95193936, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAhgABpisZJR/C'}]}
0:10:44.779147	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0086, FOpts:), FPort: 01, FRMPayload: 007a, MIC: 19251fc2)
0:10:44.780147	LOG	Server <---------- DUT
0:10:44.782144	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03d8, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: e4fdb64a)
0:10:44.785142	LOG	Frame command sent to the DUT
0:10:44.787142	LOG	PULL_RESP: Protocol version = 02, Token = 698d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 97193936, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA2APgONhnGmgCA8bYxBjeKBoV+Z8Rbsf3xyvT3JlXrbBvm0kPfUlz/aE3ZyKU9umq6w1ez0pC5P22Sg==''}}
0:10:44.788141	LOG	Server ----------> DUT
0:10:44.792139	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:44.795136	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:48.773094	LOG	PULL_DATA: 02 c061 02 aa555a0000240409
0:10:48.775093	LOG	PULL_ACK: 02 c061 04
0:10:49.778324	LOG	PUSH_ACK: 02 191b 01
0:10:49.781322	LOG	PUSH_DATA: Protocol version = 02, Token = 191b, Identifier = 00, JSON = {'rxpk': [{'tmst': 100196562, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAhwABN2l386kq'}]}
0:10:49.782321	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0087, FOpts:), FPort: 01, FRMPayload: 007b, MIC: 77f3a92a)
0:10:49.784320	LOG	Server <---------- DUT
0:10:49.786319	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03d9, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 250b81ce)
0:10:49.788318	LOG	Frame command sent to the DUT
0:10:49.790317	LOG	PULL_RESP: Protocol version = 02, Token = bdd8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 102196562, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA2QPgHYH8OUbWJ1nIsMUvXxfT//N7uzmIOpqfeoQAMVUWPskSxitzKDQeCbEmiaL+QIyY6t/qJQuBzg==''}}
0:10:49.791316	LOG	Server ----------> DUT
0:10:49.794316	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:49.797314	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:54.780062	LOG	PUSH_ACK: 02 191c 01

0:10:54.782061	LOG	PUSH_DATA: Protocol version = 02, Token = 191c, Identifier = 00, JSON = {'rxpk': [{'tmst': 105199181, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 12.0, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAiAAB20gKNprx'}]}
0:10:54.783060	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0088, FOpts:), FPort: 01, FRMPayload: 007c, MIC: 0a369af1)
0:10:54.784060	LOG	Server <---------- DUT
0:10:54.786059	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03da, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 2100b2e4)
0:10:54.788058	LOG	Frame command sent to the DUT
0:10:54.790056	LOG	PULL_RESP: Protocol version = 02, Token = b507, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 107199181, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA2gPg2JEvtMpB1tKykD8XDocEdWAG8F9fZEXwQn2F15NU5mKUd45aHlQrae3TqFWIRxtTvZHKIQCy5A=='}}
0:10:54.791056	LOG	Server ----------> DUT
0:10:54.795053	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:54.798052	LOG	Send Test Command TxFramesCtrlReq process starts
0:10:58.783877	LOG	PULL_DATA: 02 cf14 02 aa555a0000240409
0:10:58.785875	LOG	PULL_ACK: 02 cf14 04
0:10:59.782309	LOG	PUSH_ACK: 02 191d 01
0:10:59.784307	LOG	PUSH_DATA: Protocol version = 02, Token = 191d, Identifier = 00, JSON = {'rxpk': [{'tmst': 110201806, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAiQAB4eKAlWoJ'}]}
0:10:59.786308	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0089, FOpts:), FPort: 01, FRMPayload: 007d, MIC: 80956a09)
0:10:59.787306	LOG	Server <---------- DUT
0:10:59.788305	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03db, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 203cbf29)
0:10:59.790304	LOG	Frame command sent to the DUT
0:10:59.792303	LOG	PULL_RESP: Protocol version = 02, Token = 1df1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 112201806, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA2wPg8hB6ZXbm4VSxORR/TwZECTfQl7lzQ42oJ/0LaTlPN5ccGk5kjF2gNL5N3RzGTu+ItzD3IDy/KQ=='}}
0:10:59.793304	LOG	Server ----------> DUT
0:10:59.796300	LOG	Send Test Command TxFramesCtrlReq process completed
0:10:59.800299	LOG	Send Test Command RxAppCntReq process starts
0:11:04.785759	LOG	PUSH_ACK: 02 191f 01
0:11:04.788757	LOG	PUSH_DATA: Protocol version = 02, Token = 191f, Identifier = 00, JSON = {'rxpk': [{'tmst': 115204425, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAigABER4MLvJE'}]}
0:11:04.790755	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 008a, FOpts:), FPort: 01, FRMPayload: 007e, MIC: 0c2ef244)
0:11:04.791755	LOG	Server <---------- DUT
0:11:04.793755	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03dc, FOpts:), FPort: e0, FRMPayload: 09), MIC: e7283369)
0:11:04.795754	LOG	Frame command sent to the DUT

0:11:04.797752	LOG	PULL_RESP: Protocol version = 02, Token = 1847, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 117204425, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAA3APg6OcoM2k='}}
0:11:04.798769	LOG	Server ----------> DUT
0:11:04.802748	LOG	TX_ACK: 02 1847 05 aa555a0000240409
0:11:08.993687	LOG	PULL_DATA: 02 90cb 02 aa555a0000240409
0:11:08.994687	LOG	PULL_ACK: 02 90cb 04
0:11:09.811947	LOG	PUSH_ACK: 02 1920 01
0:11:09.813946	LOG	PUSH_DATA: Protocol version = 02, Token = 1920, Identifier = 00, JSON = {'rxpk': [{'tmst': 120215124, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -3, 'size': 16, 'data': 'QCAgICCAiwDg9PMSYxy9rw=='}]}
0:11:09.814947	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 008b, FOpts:), FPort: e0, FRMPayload: 097f00, MIC: 631cbdaf)
0:11:09.815947	LOG	Server <---------- DUT
0:11:09.817946	LOG	Answer in payload: 7f00
0:11:09.819943	LOG	Frame Command Payload in the Answer: 097f00
0:11:09.824940	LOG	RX Count received by DUT: 127
0:11:09.826941	LOG	Send Test Command RxAppCntReq process completed
0:11:09.833936	LOG	End Test Step: Test packet error rate for SF11BW125 using RX2 window
0:11:09.836933	LOG	Partial Verdict: PASS
0:11:09.841930	LOG	==========
0:11:09.847927	LOG	==========
0:11:09.850925	LOG	Start Test Step: Test packet error rate for SF10BW125 using RX2 window
0:11:09.865916	LOG	Send RXParamSetupReq process starts
0:11:14.799382	LOG	PUSH_ACK: 02 1921 01
0:11:14.801385	LOG	PUSH_DATA: Protocol version = 02, Token = 1921, Identifier = 00, JSON = {'rxpk': [{'tmst': 125209668, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAjAABe6sSt5GJ'}]}
0:11:14.803379	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 008c, FOpts:), FPort: 01, FRMPayload: 007f, MIC: 12b79189)
0:11:14.804381	LOG	Server <---------- DUT
0:11:14.806378	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03dd, FOpts:), FPort: 00, FRMPayload: 0502d2ad84), MIC: 6e305f7a)
0:11:14.809377	LOG	PULL_RESP: Protocol version = 02, Token = de31, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 127209668, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAA3QMAZD0VRlJuMF96'}}
0:11:14.810377	LOG	Server ----------> DUT
0:11:14.813374	LOG	TX_ACK: 02 de31 05 aa555a0000240409
0:11:19.013612	LOG	PULL_DATA: 02 474b 02 aa555a0000240409
0:11:19.017609	LOG	PULL_ACK: 02 474b 04
0:11:19.796948	LOG	PUSH_ACK: 02 1922 01
0:11:19.797947	LOG	PUSH_DATA: Protocol version = 02, Token = 1922, Identifier = 00, JSON = {'rxpk': [{'tmst': 130217447, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -3, 'size': 17, 'data': 'QCAgICCCjQAFBwFEKJ2mS3s='}]}
0:11:19.799946	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 008d, FOpts: 0507), FPort: 01, FRMPayload: 007f, MIC: 9da64b7b)
0:11:19.801946	LOG	Server <---------- DUT
0:11:19.802945	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:11:19.804944	LOG	Command Answer: 0507
0:11:19.820936	LOG	MAC command communication completed

0:11:19.827931	LOG	Send Test Command RxAppCntReq process starts
0:11:24.784197	LOG	PUSH_ACK: 02 1923 01
0:11:24.786197	LOG	PUSH_DATA: Protocol version = 02, Token = 1923, Identifier = 00, JSON = {'rxpk': [{'tmst': 135220071, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -3, 'size': 17, 'data': 'QCAgICCCjgAFBwEh23iO4wA='}]}
0:11:24.787196	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 008e, FOpts: 0507), FPort: 01, FRMPayload: 007f, MIC: 788ee300)
0:11:24.789195	LOG	Server <---------- DUT
0:11:24.791194	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03de, FOpts:), FPort: e0, FRMPayload: 09), MIC: 3d0683e8)
0:11:24.793193	LOG	Frame command sent to the DUT
0:11:24.794192	LOG	PULL_RESP: Protocol version = 02, Token = c8aa, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 137220071, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAA3gPguj0Gg+g='}}
0:11:24.795191	LOG	Server ----------> DUT
0:11:24.799189	LOG	TX_ACK: 02 c8aa 05 aa555a0000240409
0:11:29.203334	LOG	PULL_DATA: 02 b8b7 02 aa555a0000240409
0:11:29.205333	LOG	PULL_ACK: 02 b8b7 04
0:11:29.795998	LOG	PUSH_ACK: 02 1924 01
0:11:29.797996	LOG	PUSH_DATA: Protocol version = 02, Token = 1924, Identifier = 00, JSON = {'rxpk': [{'tmst': 140225623, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -2, 'size': 16, 'data': 'QCAgICCAjwDgJwGGXo3hJw=='}]}
0:11:29.799995	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 008f, FOpts:), FPort: e0, FRMPayload: 098000, MIC: 5e8de127)
0:11:29.801994	LOG	Server <---------- DUT
0:11:29.803993	LOG	Answer in payload: 8000
0:11:29.804993	LOG	Frame Command Payload in the Answer: 098000
0:11:29.808992	LOG	RX Count received by DUT: 128
0:11:29.810991	LOG	Send Test Command RxAppCntReq process completed
0:11:29.814987	LOG	Send Test Command TxFramesCtrlReq process starts
0:11:34.794426	LOG	PUSH_ACK: 02 1926 01
0:11:34.796425	LOG	PUSH_DATA: Protocol version = 02, Token = 1926, Identifier = 00, JSON = {'rxpk': [{'tmst': 145220175, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAkAABh3lZXHiC'}]}
0:11:34.798424	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0090, FOpts:), FPort: 01, FRMPayload: 0080, MIC: 595c7882)
0:11:34.800422	LOG	Server <---------- DUT
0:11:34.802422	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03df, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 27a9778e)
0:11:34.807419	LOG	Frame command sent to the DUT
0:11:34.809417	LOG	PULL_RESP: Protocol version = 02, Token = f20c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 147220175, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA3wPgog55VzWkgWNW3WQy2aXAwJCajlgtaoVpTiwkZwfbCSIA6/VSYvv71xnUaD/C9bgg1JmfJ6l3jg=='}}
0:11:34.811416	LOG	Server ----------> DUT
0:11:34.815414	LOG	Send Test Command TxFramesCtrlReq process completed
0:11:34.821411	LOG	Send Test Command TxFramesCtrlReq process starts
0:11:39.223202	LOG	PULL_DATA: 02 b654 02 aa555a0000240409

0:11:39.225200	LOG	PULL_ACK: 02 b654 04
0:11:39.794878	LOG	PUSH_ACK: 02 1928 01
0:11:39.795878	LOG	PUSH_DATA: Protocol version = 02, Token = 1928, Identifier = 00, JSON = {'rxpk': [{'tmst': 150222808, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAkQABMdSasYY6'}]}
0:11:39.797875	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0091, FOpts:), FPort: 01, FRMPayload: 0081, MIC: 9ab1863a)
0:11:39.798876	LOG	Server <---------- DUT
0:11:39.802874	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03e0, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 5fd566b7)
0:11:39.808871	LOG	Frame command sent to the DUT
0:11:39.811869	LOG	PULL_RESP: Protocol version = 02, Token = 4d48, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 152222808, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA4APgXyq++MZ5WJcxYFMao091yzEJGdU1UCrlTOdHEYUc7bbvODw3Y77yQifx8hTerOe0mW7BX9Vmtw==''}}
0:11:39.814867	LOG	Server ----------> DUT
0:11:39.822862	LOG	Send Test Command TxFramesCtrlReq process completed
0:11:39.827859	LOG	Send Test Command TxFramesCtrlReq process starts
0:11:44.797059	LOG	PUSH_ACK: 02 1929 01
0:11:44.799058	LOG	PUSH_DATA: Protocol version = 02, Token = 1929, Identifier = 00, JSON = {'rxpk': [{'tmst': 155225432, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAkgABtrx2aeXh'}]}
0:11:44.801057	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0092, FOpts:), FPort: 01, FRMPayload: 0082, MIC: 7669e5e1)
0:11:44.803056	LOG	Server <---------- DUT
0:11:44.805055	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03e1, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 8f7b1864)
0:11:44.807054	LOG	Frame command sent to the DUT
0:11:44.809052	LOG	PULL_RESP: Protocol version = 02, Token = 644d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 157225432, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA4QPgXtjfQeYo+/+Og///9dCPEgepw2x2x9DWCVf9b9eefY/yGj1qozMDVY7PP9mZx8rI4wwkj3sYZA==''}}
0:11:44.810052	LOG	Server ----------> DUT
0:11:44.815049	LOG	Send Test Command TxFramesCtrlReq process completed
0:11:44.821046	LOG	Send Test Command TxFramesCtrlReq process starts
0:11:49.432827	LOG	PULL_DATA: 02 c8cf 02 aa555a0000240409
0:11:49.434825	LOG	PULL_ACK: 02 c8cf 04
0:11:49.799618	LOG	PUSH_ACK: 02 192a 01
0:11:49.801617	LOG	PUSH_DATA: Protocol version = 02, Token = 192a, Identifier = 00, JSON = {'rxpk': [{'tmst': 160228051, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -1, 'size': 15, 'data': 'QCAgICCAkwABpxZ67l9U'}]}
0:11:49.803616	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0093, FOpts:), FPort: 01, FRMPayload: 0083, MIC: 7aee5f54)
0:11:49.804616	LOG	Server <---------- DUT
0:11:49.806614	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03e2, FOpts:), FPort: e0, FRMPayload:

		07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 5c574831)
0:11:49.809613	LOG	Frame command sent to the DUT
0:11:49.810612	LOG	PULL_RESP: Protocol version = 02, Token = 7949, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 162228051, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA4gPgr8CKcff6fNJMmEk86vnwPxGKaqe1mNDAgzkmfEWAdhUnIdJtb6ZUI4aSJeWE2cJ1nSh/XFdIMQ=='}}
0:11:49.812611	LOG	Server ----------> DUT
0:11:49.816608	LOG	Send Test Command TxFramesCtrlReq process completed
0:11:49.822605	LOG	Send Test Command TxFramesCtrlReq process starts
0:11:54.802779	LOG	PUSH_ACK: 02 192b 01
0:11:54.804778	LOG	PUSH_DATA: Protocol version = 02, Token = 192b, Identifier = 00, JSON = {'rxpk': [{'tmst': 165230666, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAlAABVC8czzLx'}]}
0:11:54.805777	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0094, FOpts:), FPort: 01, FRMPayload: 0084, MIC: 1ccf32f1)
0:11:54.806777	LOG	Server <---------- DUT
0:11:54.808775	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03e3, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 8e196105)
0:11:54.811773	LOG	Frame command sent to the DUT
0:11:54.813773	LOG	PULL_RESP: Protocol version = 02, Token = bd3a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 167230666, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA4wPgZiPTeiAfHSOnxDaS337X5UxDPfy6wfDbnLDGT+MjNl3wBKTP9sr5ZvUxH+Wi6AMN8jtQjhlhBQ=='}}
0:11:54.814772	LOG	Server ----------> DUT
0:11:54.819769	LOG	Send Test Command TxFramesCtrlReq process completed
0:11:54.827765	LOG	Send Test Command TxFramesCtrlReq process starts
0:11:59.643032	LOG	PULL_DATA: 02 ffc7 02 aa555a0000240409
0:11:59.645031	LOG	PULL_ACK: 02 ffc7 04
0:11:59.804940	LOG	PUSH_ACK: 02 192c 01
0:11:59.806939	LOG	PUSH_DATA: Protocol version = 02, Token = 192c, Identifier = 00, JSON = {'rxpk': [{'tmst': 170233293, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -4, 'size': 15, 'data': 'QCAgICCAlQABHGWsyqD7'}]}
0:11:59.807940	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0095, FOpts:), FPort: 01, FRMPayload: 0085, MIC: accaa0fb)
0:11:59.808940	LOG	Server <---------- DUT
0:11:59.812942	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03e4, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 5fca7520)
0:11:59.817939	LOG	Frame command sent to the DUT
0:11:59.822932	LOG	PULL_RESP: Protocol version = 02, Token = daae, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 172233293, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA5APgB6Ki9zsSQh3GG36jYkUpcuEEPQ8h1+tbpk/950B3N49zKwBYpzr6uH+SFMeaxAu4HLvyX8p1IA=='}}
0:11:59.825930	LOG	Server ----------> DUT
0:11:59.834925	LOG	Send Test Command TxFramesCtrlReq process completed

0:11:59.839926	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:04.806855	LOG	PUSH_ACK: 02 192e 01
0:12:04.808854	LOG	PUSH_DATA: Protocol version = 02, Token = 192e, Identifier = 00, JSON = {'rxpk': [{'tmst': 175235909, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAlgABr2Fegz5P'}]}
0:12:04.809853	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0096, FOpts:), FPort: 01, FRMPayload: 0086, MIC: 5e833e4f)
0:12:04.811852	LOG	Server <---------- DUT
0:12:04.812851	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03e5, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 386ef4df)
0:12:04.815849	LOG	Frame command sent to the DUT
0:12:04.816850	LOG	PULL_RESP: Protocol version = 02, Token = e613, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 177235909, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA5QPgjlt6LYLpOMyFK7YGBp8e+K5S8WS8jWQ83QNxcptRCb3pa6k++JaENERCWe366OuNhxuJOG703w=='}}
0:12:04.820847	LOG	Server ----------> DUT
0:12:04.824844	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:04.828841	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:09.652956	LOG	PULL_DATA: 02 a75a 02 aa555a0000240409
0:12:09.654980	LOG	PULL_ACK: 02 a75a 04
0:12:09.809893	LOG	PUSH_ACK: 02 192f 01
0:12:09.811893	LOG	PUSH_DATA: Protocol version = 02, Token = 192f, Identifier = 00, JSON = {'rxpk': [{'tmst': 180238534, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAlwAB+arVy62x'}]}
0:12:09.813892	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0097, FOpts:), FPort: 01, FRMPayload: 0087, MIC: d5cbadb1)
0:12:09.814889	LOG	Server <---------- DUT
0:12:09.815889	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03e6, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: d9c2e7d5)
0:12:09.818889	LOG	Frame command sent to the DUT
0:12:09.820886	LOG	PULL_RESP: Protocol version = 02, Token = c8fd, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 182238534, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA5gPgErmLRUyLNjdUFIC15Hv7KJmdlaTi/GmDc8ToldBSEir0SHzZgTwaIA9HROHq6WwAWIsz2cLn1Q=='}}
0:12:09.821886	LOG	Server ----------> DUT
0:12:09.824886	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:09.827883	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:14.812419	LOG	PUSH_ACK: 02 1930 01
0:12:14.815435	LOG	PUSH_DATA: Protocol version = 02, Token = 1930, Identifier = 00, JSON = {'rxpk': [{'tmst': 185241159, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAmAABcE+P1Fed'}]}
0:12:14.816416	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0098, FOpts:), FPort: 01, FRMPayload: 0088, MIC: 8fd4579d)
0:12:14.817415	LOG	Server <---------- DUT
0:12:14.819415	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03e7, FOpts:), FPort: e0, FRMPayload:

		07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 50b5efb4)
0:12:14.822413	LOG	Frame command sent to the DUT
0:12:14.823412	LOG	PULL_RESP: Protocol version = 02, Token = 9118, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 187241159, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA5wPgbwqtuR0MW57yETFyrklfE6d3+qkqRc7O+7BfFF0McfdWj4M34hE5sLMSZ+/QoGUPnaP3ULXvtA=='}}
0:12:14.824412	LOG	Server ----------> DUT
0:12:14.828409	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:14.832407	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:19.815554	LOG	PUSH_ACK: 02 1931 01
0:12:19.817553	LOG	PUSH_DATA: Protocol version = 02, Token = 1931, Identifier = 00, JSON = {'rxpk': [{'tmst': 190243786, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAmQAB9hvzkVOT'}]}
0:12:19.819552	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0099, FOpts:), FPort: 01, FRMPayload: 0089, MIC: f3915393)
0:12:19.820551	LOG	Server <---------- DUT
0:12:19.822550	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03e8, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 8c4acaf3)
0:12:19.825548	LOG	Frame command sent to the DUT
0:12:19.827547	LOG	PULL_RESP: Protocol version = 02, Token = 3649, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 192243786, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA6APg5KjnuC7tU0aUAV4f+bHocDPHqZroz+ehGZiKFStrs4cHL8BaWh446UOUlEHFsI14+338jErK8w=='}}
0:12:19.828546	LOG	Server ----------> DUT
0:12:19.842539	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:19.847536	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:24.817715	LOG	PUSH_ACK: 02 1932 01
0:12:24.819714	LOG	PUSH_DATA: Protocol version = 02, Token = 1932, Identifier = 00, JSON = {'rxpk': [{'tmst': 195246404, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAmgABrFTIxpQB'}]}
0:12:24.821713	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 009a, FOpts:), FPort: 01, FRMPayload: 008a, MIC: c8c69401)
0:12:24.823712	LOG	Server <---------- DUT
0:12:24.825711	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03e9, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 2639cd30)
0:12:24.827709	LOG	Frame command sent to the DUT
0:12:24.829708	LOG	PULL_RESP: Protocol version = 02, Token = 01a8, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 197246404, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA6QPggjRKfzpZLWqivsnayMdv+dNQTLiec8gltzGnwUKuTAHxqZOIE7Tymm6TKHzGg5uAXVCZJjnNMA=='}}
0:12:24.830708	LOG	Server ----------> DUT
0:12:24.833706	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:24.837704	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:29.820879	LOG	PUSH_ACK: 02 1933 01

0:12:29.823878	LOG	PUSH_DATA: Protocol version = 02, Token = 1933, Identifier = 00, JSON = {'rxpk': [{'tmst': 200249022, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -1, 'size': 15, 'data': 'QCAgICCAmwABEe4USnQH'}]}
0:12:29.824877	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 009b, FOpts:), FPort: 01, FRMPayload: 008b, MIC: 144a7407)
0:12:29.826876	LOG	Server <---------- DUT
0:12:29.828875	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03ea, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 782564ed)
0:12:29.831873	LOG	Frame command sent to the DUT
0:12:29.832873	LOG	PULL_RESP: Protocol version = 02, Token = 41cc, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 202249022, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA6gPgzLhGuhVIvLhrCOIKdNsyArGl7QW1/8BHCI7tom/rlqFYDqtmF95F/Uq229k5EnLX57o5eCVk7Q==''}}
0:12:29.834872	LOG	Server ----------> DUT
0:12:29.839869	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:29.842868	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:34.822511	LOG	PUSH_ACK: 02 1935 01
0:12:34.825509	LOG	PUSH_DATA: Protocol version = 02, Token = 1935, Identifier = 00, JSON = {'rxpk': [{'tmst': 205251662, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -4, 'size': 15, 'data': 'QCAgICCAnAABZeCuRGRA'}]}
0:12:34.827508	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 009c, FOpts:), FPort: 01, FRMPayload: 008c, MIC: ae446440)
0:12:34.828508	LOG	Server <---------- DUT
0:12:34.830506	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03eb, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 0b89f28c)
0:12:34.835503	LOG	Frame command sent to the DUT
0:12:34.838502	LOG	PULL_RESP: Protocol version = 02, Token = 0f20, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 207251662, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA6wPg/qo5mhB+ZrtRdiDZtMs5HlPtxT2igbhZJoUpI2weGIhC8JMOb8biMKQ6D/7WB7ftvM+TC4nyjA==''}}
0:12:34.839501	LOG	Server ----------> DUT
0:12:34.844498	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:34.849495	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:39.825589	LOG	PUSH_ACK: 02 1936 01
0:12:39.827587	LOG	PUSH_DATA: Protocol version = 02, Token = 1936, Identifier = 00, JSON = {'rxpk': [{'tmst': 210254298, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAnQABZtj+vtTG'}]}
0:12:39.828588	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 009d, FOpts:), FPort: 01, FRMPayload: 008d, MIC: febed4c6)
0:12:39.829588	LOG	Server <---------- DUT
0:12:39.831585	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03ec, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 8a625853)
0:12:39.833586	LOG	Frame command sent to the DUT

0:12:39.835583	LOG	PULL_RESP: Protocol version = 02, Token = 83e3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 212254298, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA7APgsQqeQCfVX6WIGajPXFicc0flqI+Gbq/V6iMwUhcLSmu4wocKOyybpSVJrUh6y8ZF0j70imJYUw==\'}}
0:12:39.836582	LOG	Server ----------> DUT
0:12:39.840580	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:39.844579	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:44.828497	LOG	PUSH_ACK: 02 1937 01
0:12:44.831496	LOG	PUSH_DATA: Protocol version = 02, Token = 1937, Identifier = 00, JSON = {'rxpk': [{'tmst': 215256900, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -1, 'size': 15, 'data': 'QCAgICCAngABrdR1S4GF'}]}
0:12:44.833495	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 009e, FOpts:), FPort: 01, FRMPayload: 008e, MIC: 754b8185)
0:12:44.834494	LOG	Server <---------- DUT
0:12:44.837492	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03ed, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 8887a9e5)
0:12:44.839491	LOG	Frame command sent to the DUT
0:12:44.841490	LOG	PULL_RESP: Protocol version = 02, Token = af48, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 217256900, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA7QPgwnPeUd6EcBxXvSjRnpkzpWHL16d2ldrvoe9JrO49gt2stAAtVGlNmcxyP/tfXttLUiCeiIep5Q==\'}}
0:12:44.842489	LOG	Server ----------> DUT
0:12:44.845488	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:44.849485	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:49.830937	LOG	PUSH_ACK: 02 1938 01
0:12:49.832935	LOG	PUSH_DATA: Protocol version = 02, Token = 1938, Identifier = 00, JSON = {'rxpk': [{'tmst': 220259527, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAnwABfD79VEck'}]}
0:12:49.833934	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 009f, FOpts:), FPort: 01, FRMPayload: 008f, MIC: fd544724)
0:12:49.834934	LOG	Server <---------- DUT
0:12:49.837933	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03ee, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 85831bf7)
0:12:49.839931	LOG	Frame command sent to the DUT
0:12:49.840930	LOG	PULL_RESP: Protocol version = 02, Token = a9bd, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 222259527, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA7gPgmQZPg0HGwf8J2qkW0PEuwy31iL8uK7pj225Yra8Xqn+rgSjSJ1Fr7pWe5NvHGkdJFfnvhYMb9w==\'}}
0:12:49.841930	LOG	Server ----------> DUT
0:12:49.844929	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:49.848928	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:54.832747	LOG	PUSH_ACK: 02 1939 01
0:12:54.835745	LOG	PUSH_DATA: Protocol version = 02, Token = 1939, Identifier = 00, JSON = {'rxpk': [{'tmst': 225262146, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAoAABcf5mnQuw'}]}
0:12:54.837745	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00a0, FOpts:), FPort: 01, FRMPayload: 0090, MIC: 669d0bb0)
0:12:54.838744	LOG	Server <---------- DUT
0:12:54.840743	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03ef, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 24a0737d)
0:12:54.843741	LOG	Frame command sent to the DUT
0:12:54.844740	LOG	PULL_RESP: Protocol version = 02, Token = dbe9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 227262146, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA7wPgDdykzH2YgykVOIbsa8kD7v4wy7SbdVNKKSOvjGVADcSemo2cxHzsfdq+pCN1mvuubtXDJKBzfQ==''}}
0:12:54.846739	LOG	Server ----------> DUT
0:12:54.858732	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:54.862732	LOG	Send Test Command TxFramesCtrlReq process starts
0:12:59.836909	LOG	PUSH_ACK: 02 193a 01
0:12:59.837907	LOG	PUSH_DATA: Protocol version = 02, Token = 193a, Identifier = 00, JSON = {'rxpk': [{'tmst': 230264770, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAoQABD5mgzK/G'}]}
0:12:59.839906	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00a1, FOpts:), FPort: 01, FRMPayload: 0091, MIC: a0ccafc6)
0:12:59.840905	LOG	Server <---------- DUT
0:12:59.841906	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03f0, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 9047e6fa)
0:12:59.844903	LOG	Frame command sent to the DUT
0:12:59.845902	LOG	PULL_RESP: Protocol version = 02, Token = 83b2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 232264770, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA8APgMp/iTghKmPvHjVNdL/n1olEUlQhEjZRdM7mq4OvGUrUsGQ6cSKjoXU8Ps6FxkfQfYIxDkEfm+g==''}}
0:12:59.846901	LOG	Server ----------> DUT
0:12:59.849901	LOG	Send Test Command TxFramesCtrlReq process completed
0:12:59.854897	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:04.838603	LOG	PUSH_ACK: 02 193c 01
0:13:04.841601	LOG	PUSH_DATA: Protocol version = 02, Token = 193c, Identifier = 00, JSON = {'rxpk': [{'tmst': 235267403, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAogABYKdooK9u'}]}
0:13:04.842601	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00a2, FOpts:), FPort: 01, FRMPayload: 0092, MIC: 68a0af6e)
0:13:04.844600	LOG	Server <---------- DUT
0:13:04.846599	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03f1, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c8d6d6d5)
0:13:04.851596	LOG	Frame command sent to the DUT
0:13:04.853595	LOG	PULL_RESP: Protocol version = 02, Token = 561d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 237267403, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True,

		'size': 64, 'data': 'YCAgICAA8QPg5Zsbj1/9pv1Cm/fYWsBhWhnbMxACYlEhIai5RduNH7IhRSpxF7oTwuJ/k27i9rGViO6JyNbW1Q==''}}
0:13:04.855594	LOG	Server ----------> DUT
0:13:04.858593	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:04.862590	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:09.840764	LOG	PUSH_ACK: 02 193d 01
0:13:09.843763	LOG	PUSH_DATA: Protocol version = 02, Token = 193d, Identifier = 00, JSON = {'rxpk': [{'tmst': 240270027, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAowABaI1uX2pa'}]}
0:13:09.845762	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00a3, FOpts:), FPort: 01, FRMPayload: 0093, MIC: 6e5f6a5a)
0:13:09.846761	LOG	Server <---------- DUT
0:13:09.848760	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03f2, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: fbba7056)
0:13:09.851758	LOG	Frame command sent to the DUT
0:13:09.852758	LOG	PULL_RESP: Protocol version = 02, Token = 33ac, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 242270027, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA8gPgsF4k36EOlpU63K6XtlDB2cq7pJlq9hGAjMS81WQUGqakZND22JIUYAag0prza95Tartj+7pwVg==''}}
0:13:09.854757	LOG	Server ----------> DUT
0:13:09.859754	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:09.863752	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:14.843056	LOG	PUSH_ACK: 02 193e 01
0:13:14.845055	LOG	PUSH_DATA: Protocol version = 02, Token = 193e, Identifier = 00, JSON = {'rxpk': [{'tmst': 245272644, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': 0, 'size': 15, 'data': 'QCAgICCApAAB8HVW5JC5'}]}
0:13:14.846054	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00a4, FOpts:), FPort: 01, FRMPayload: 0094, MIC: 56e490b9)
0:13:14.848053	LOG	Server <---------- DUT
0:13:14.849053	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03f3, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 0d328d29)
0:13:14.851051	LOG	Frame command sent to the DUT
0:13:14.853050	LOG	PULL_RESP: Protocol version = 02, Token = 8b6a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 247272644, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA8wPg0mzunbvGTY2YF665CKk/E52ohqQ4+1oocQNTZBRNhrOE4lI11um70DtwZ94f2cHPEKeVDTKNKQ==''}}
0:13:14.855049	LOG	Server ----------> DUT
0:13:14.858048	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:14.862045	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:19.847309	LOG	PUSH_ACK: 02 193f 01
0:13:19.849306	LOG	PUSH_DATA: Protocol version = 02, Token = 193f, Identifier = 00, JSON = {'rxpk': [{'tmst': 250275262, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -1, 'size': 15, 'data': 'QCAgICCApQABteF4egT2'}]}
0:13:19.851307	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00a5, FOpts:), FPort: 01, FRMPayload: 0095, MIC: 787a04f6)

0:13:19.852306	LOG	Server <---------- DUT
0:13:19.854305	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03f4, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: a2b4a466)
0:13:19.857304	LOG	Frame command sent to the DUT
0:13:19.858303	LOG	PULL_RESP: Protocol version = 02, Token = 833c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 252275262, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA9APgBgAOq08iXOWnzP/M37l8t4iqBXNJOfZWDUlqcdG/0uwf0Gww0YZmTo3DLv/l1CM9LJwrorSkZg==''}}
0:13:19.860302	LOG	Server ----------> DUT
0:13:19.863300	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:19.866297	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:24.849469	LOG	PUSH_ACK: 02 1940 01
0:13:24.851469	LOG	PUSH_DATA: Protocol version = 02, Token = 1940, Identifier = 00, JSON = {'rxpk': [{'tmst': 255277881, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -1, 'size': 15, 'data': 'QCAgICCApgABx5NrgUKB''}]}
0:13:24.853468	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00a6, FOpts:), FPort: 01, FRMPayload: 0096, MIC: 6b814281)
0:13:24.855465	LOG	Server <---------- DUT
0:13:24.857464	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03f5, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 454526d4)
0:13:24.860464	LOG	Frame command sent to the DUT
0:13:24.861463	LOG	PULL_RESP: Protocol version = 02, Token = c99f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 257277881, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA9QPg8ukzXNyRkIOgKQIhUAEk4yk8tIXMq/UI6BugKrZOBLQzG97MY1cLZn4AnEMOU+l/9FGgRUUm1A==''}}
0:13:24.863463	LOG	Server ----------> DUT
0:13:24.866459	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:24.869458	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:29.851984	LOG	PUSH_ACK: 02 1942 01
0:13:29.853983	LOG	PUSH_DATA: Protocol version = 02, Token = 1942, Identifier = 00, JSON = {'rxpk': [{'tmst': 260280500, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -1, 'size': 15, 'data': 'QCAgICCApwABRa9Xqy+8''}]}
0:13:29.855982	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00a7, FOpts:), FPort: 01, FRMPayload: 0097, MIC: 57ab2fbc)
0:13:29.857981	LOG	Server <---------- DUT
0:13:29.859980	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03f6, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: a2c6f07f)
0:13:29.861979	LOG	Frame command sent to the DUT
0:13:29.863978	LOG	PULL_RESP: Protocol version = 02, Token = e27d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 262280500, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA9gPgcLU4qcGZ0yl7qZ7fIMbzWvSVcJxn28BDM6Q+mWLd0pRiUrVMSudDJDMapxd7AzoHmqovosbwfw==''}}
0:13:29.865977	LOG	Server ----------> DUT

0:13:29.869974	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:29.873972	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:34.854962	LOG	PUSH_ACK: 02 1944 01
0:13:34.856961	LOG	PUSH_DATA: Protocol version = 02, Token = 1944, Identifier = 00, JSON = {'rxpk': [{'tmst': 265283111, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -1, 'size': 15, 'data': 'QCAgICCAqAABvPZmbtM/'}]}
0:13:34.858959	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00a8, FOpts:), FPort: 01, FRMPayload: 0098, MIC: 666ed33f)
0:13:34.860958	LOG	Server <---------- DUT
0:13:34.862957	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03f7, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 493e3a20)
0:13:34.867954	LOG	Frame command sent to the DUT
0:13:34.869953	LOG	PULL_RESP: Protocol version = 02, Token = bb6c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 267283111, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA9wPgwkxpbJ49wIXW3Lq3Ck+XPJOkR2xy7N18oIYT1lMM2I6edLJmu2kW+WAltpOEyvEuOmEIST46IA=='}}
0:13:34.872952	LOG	Server ----------> DUT
0:13:34.877948	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:34.881947	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:39.857124	LOG	PUSH_ACK: 02 1945 01
0:13:39.859122	LOG	PUSH_DATA: Protocol version = 02, Token = 1945, Identifier = 00, JSON = {'rxpk': [{'tmst': 270285727, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAqQAB76v2M5a2'}]}
0:13:39.861127	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00a9, FOpts:), FPort: 01, FRMPayload: 0099, MIC: f63396b6)
0:13:39.862125	LOG	Server <---------- DUT
0:13:39.864123	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03f8, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 1ede7cb0)
0:13:39.866123	LOG	Frame command sent to the DUT
0:13:39.868123	LOG	PULL_RESP: Protocol version = 02, Token = 9b15, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 272285727, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA+APgh0jGRZYS5Fl8usrmZxVOprIqnB5u8JSMRWf2w9NzhVjDBjcmxdnuLO9ZiKTpijyehH/pHt58sA=='}}
0:13:39.869120	LOG	Server ----------> DUT
0:13:39.873116	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:39.882114	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:44.859968	LOG	PUSH_ACK: 02 1946 01
0:13:44.861967	LOG	PUSH_DATA: Protocol version = 02, Token = 1946, Identifier = 00, JSON = {'rxpk': [{'tmst': 275288352, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAqgABq+M2J2UP'}]}
0:13:44.863966	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00aa, FOpts:), FPort: 01, FRMPayload: 009a, MIC: 3627650f)
0:13:44.864966	LOG	Server <---------- DUT
0:13:44.866964	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03f9, FOpts:), FPort: e0, FRMPayload:

		07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 98036d2a)
0:13:44.869962	LOG	Frame command sent to the DUT
0:13:44.871962	LOG	PULL_RESP: Protocol version = 02, Token = f3f5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 277288352, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA+QPgcjyHgeXbIT5CuXgiLIGOZhj5M28qyS+w2YZRZab4un5rjZdEQQbYCwQDa9vys6/Q3APpmANtKg=='}}
0:13:44.872961	LOG	Server ----------> DUT
0:13:44.876959	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:44.879974	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:49.862123	LOG	PUSH_ACK: 02 1947 01
0:13:49.864117	LOG	PUSH_DATA: Protocol version = 02, Token = 1947, Identifier = 00, JSON = {'rxpk': [{'tmst': 280290976, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAqwABHsS1D+w9'}]}
0:13:49.865117	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00ab, FOpts:), FPort: 01, FRMPayload: 009b, MIC: b50fec3d)
0:13:49.866117	LOG	Server <---------- DUT
0:13:49.868116	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03fa, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: a81af576)
0:13:49.869116	LOG	Frame command sent to the DUT
0:13:49.871114	LOG	PULL_RESP: Protocol version = 02, Token = c984, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 282290976, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA+gPg3DWR5J8eWIRMr3oji/hLkMeAWmmK3cAJfPomLuDnmxLGdf4uTZTaVuivoJ3DTTQeTFY4qBr1dg=='}}
0:13:49.872114	LOG	Server ----------> DUT
0:13:49.876111	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:49.880109	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:54.865279	LOG	PUSH_ACK: 02 1948 01
0:13:54.867278	LOG	PUSH_DATA: Protocol version = 02, Token = 1948, Identifier = 00, JSON = {'rxpk': [{'tmst': 285293605, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -2, 'size': 15, 'data': 'QCAgICCArAABHRCEyLut'}]}
0:13:54.869276	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00ac, FOpts:), FPort: 01, FRMPayload: 009c, MIC: 84c8bbad)
0:13:54.871275	LOG	Server <---------- DUT
0:13:54.874273	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03fb, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 70e79d68)
0:13:54.877271	LOG	Frame command sent to the DUT
0:13:54.878271	LOG	PULL_RESP: Protocol version = 02, Token = ad55, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 287293605, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA+wPgsPsbKCAxuXjs5tGJDQYsXXSoeDxP43NbZWGYcsk+TsUaYx2T+Tvk8c25s/wtXKP5sSNKcOedaA=='}}
0:13:54.880270	LOG	Server ----------> DUT
0:13:54.885267	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:54.889265	LOG	Send Test Command TxFramesCtrlReq process starts
0:13:59.869574	LOG	PUSH_ACK: 02 1949 01

0:13:59.871572	LOG	PUSH_DATA: Protocol version = 02, Token = 1949, Identifier = 00, JSON = {'rxpk': [{'tmst': 290296221, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -3, 'size': 15, 'data': 'QCAgICCArQAB5k67h1Wi'}]}
0:13:59.873572	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00ad, FOpts:), FPort: 01, FRMPayload: 009d, MIC: bb8755a2)
0:13:59.875571	LOG	Server <---------- DUT
0:13:59.877570	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03fc, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 9022dfb9)
0:13:59.879568	LOG	Frame command sent to the DUT
0:13:59.881566	LOG	PULL_RESP: Protocol version = 02, Token = 576c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 292296221, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA/APgZTYZ4p++Rw5nmUttFSkVqe+BLHCGOUWuirhrgD8pbWrBinOuMrTfyRPcQKoLNTMaclVnkCLfuQ==''}}
0:13:59.883564	LOG	Server ----------> DUT
0:13:59.889562	LOG	Send Test Command TxFramesCtrlReq process completed
0:13:59.894560	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:04.870953	LOG	PUSH_ACK: 02 194b 01
0:14:04.873951	LOG	PUSH_DATA: Protocol version = 02, Token = 194b, Identifier = 00, JSON = {'rxpk': [{'tmst': 295298854, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -2, 'size': 15, 'data': 'QCAgICCArgAB3W+KYY1m'}]}
0:14:04.875950	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00ae, FOpts:), FPort: 01, FRMPayload: 009e, MIC: 8a618d66)
0:14:04.876950	LOG	Server <---------- DUT
0:14:04.878948	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03fd, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 05c66f2e)
0:14:04.883946	LOG	Frame command sent to the DUT
0:14:04.885945	LOG	PULL_RESP: Protocol version = 02, Token = 226a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 297298854, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA/QPgrZMKlnbuam78KObNuyXX5CWtP0BpB1xRAbS+AhLNl7KcfKqi1WCsXH71yDh7BI4beTTkBcZvLg==''}}
0:14:04.886944	LOG	Server ----------> DUT
0:14:04.890941	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:04.894940	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:09.874417	LOG	PUSH_ACK: 02 194c 01
0:14:09.877416	LOG	PUSH_DATA: Protocol version = 02, Token = 194c, Identifier = 00, JSON = {'rxpk': [{'tmst': 300301482, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -4, 'size': 15, 'data': 'QCAgICCArwABkZws5t8/'}]}
0:14:09.879414	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00af, FOpts:), FPort: 01, FRMPayload: 009f, MIC: 2ce6df3f)
0:14:09.880414	LOG	Server <---------- DUT
0:14:09.882413	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03fe, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 11e1acf8)
0:14:09.885411	LOG	Frame command sent to the DUT

0:14:09.886411	LOG	PULL_RESP: Protocol version = 02, Token = 0628, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 302301482, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA/gPg4VRm6umcjC3SN0rDiwGII8OrMSXMFQS5kqixPwLQzFSriNl35gwUNxx8vJMX/epyho+SEeGs+A=='}}
0:14:09.888409	LOG	Server ----------> DUT
0:14:09.892407	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:09.896405	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:14.877137	LOG	PUSH_ACK: 02 194d 01
0:14:14.879135	LOG	PUSH_DATA: Protocol version = 02, Token = 194d, Identifier = 00, JSON = {'rxpk': [{'tmst': 305304099, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': 0, 'size': 15, 'data': 'QCAgICCAsAABTXMYOnMq'}]}
0:14:14.881134	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00b0, FOpts:), FPort: 01, FRMPayload: 00a0, MIC: 183a732a)
0:14:14.883133	LOG	Server <---------- DUT
0:14:14.885132	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 03ff, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 7e979e86)
0:14:14.887131	LOG	Frame command sent to the DUT
0:14:14.889130	LOG	PULL_RESP: Protocol version = 02, Token = eb21, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 307304099, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAA/wPgM5Hl1lCtFXzRW+1Oxo8XDfxKdnIyvLmeVXa4kfC5tq4fvEubgQadA6lhsE0vDLpiZK6sfpeehg=='}}
0:14:14.891128	LOG	Server ----------> DUT
0:14:14.897125	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:14.901123	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:19.879521	LOG	PUSH_ACK: 02 194e 01
0:14:19.881520	LOG	PUSH_DATA: Protocol version = 02, Token = 194e, Identifier = 00, JSON = {'rxpk': [{'tmst': 310306709, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -1, 'size': 15, 'data': 'QCAgICCAsQABA5Hj/ANz'}]}
0:14:19.883519	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00b1, FOpts:), FPort: 01, FRMPayload: 00a1, MIC: e3fc0373)
0:14:19.885518	LOG	Server <---------- DUT
0:14:19.887517	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0400, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 4c258168)
0:14:19.890515	LOG	Frame command sent to the DUT
0:14:19.892514	LOG	PULL_RESP: Protocol version = 02, Token = b250, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 312306709, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAAATgS8lwiWJkF2FDj8IDOjukLk5p8ri4qRrdHZR2gXX3Zq1ZvDzdqI3qBjX6LsQ5VwO8dXXjTCWBaA=='}}
0:14:19.893514	LOG	Server ----------> DUT
0:14:19.899510	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:19.904507	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:24.879689	LOG	PUSH_ACK: 02 194f 01
0:14:24.882688	LOG	PUSH_DATA: Protocol version = 02, Token = 194f, Identifier = 00, JSON = {'rxpk': [{'tmst': 315309326, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -4, 'size': 15, 'data': 'QCAgICCAsgAB7fdZvSiC'}]}
0:14:24.883687	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00b2, FOpts:), FPort: 01, FRMPayload: 00a2, MIC: 59bd2882)
0:14:24.885686	LOG	Server <---------- DUT
0:14:24.887685	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0401, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 98843b1c)
0:14:24.890684	LOG	Frame command sent to the DUT
0:14:24.892682	LOG	PULL_RESP: Protocol version = 02, Token = 66b6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 317309326, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAAQTgYVNcLSpa6UwHk+JKi1ImI8Xgt5dzciPwey14ILWb86xZ2Xa7AHFImESw2+YmezBm5+9PmIQ7HA==''}}
0:14:24.893681	LOG	Server ----------> DUT
0:14:24.896680	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:24.900679	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:29.885312	LOG	PUSH_ACK: 02 1950 01
0:14:29.887312	LOG	PUSH_DATA: Protocol version = 02, Token = 1950, Identifier = 00, JSON = {'rxpk': [{'tmst': 320311960, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -4, 'size': 15, 'data': 'QCAgICCAswABpLx6x9jk'}]}
0:14:29.889310	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00b3, FOpts:), FPort: 01, FRMPayload: 00a3, MIC: 7ac7d8e4)
0:14:29.891315	LOG	Server <---------- DUT
0:14:29.893309	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0402, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 73ad4a21)
0:14:29.896306	LOG	Frame command sent to the DUT
0:14:29.897306	LOG	PULL_RESP: Protocol version = 02, Token = 2b1b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 322311960, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAAgTgF1jXt5CdQtwN8yDAPm/f2sc8c61fwFPUpuSkFVTrgh/hsHLDKzzqPb827xRkCiS0gSs6c61KIQ==''}}
0:14:29.899305	LOG	Server ----------> DUT
0:14:29.902272	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:29.906270	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:34.887670	LOG	PUSH_ACK: 02 1952 01
0:14:34.889669	LOG	PUSH_DATA: Protocol version = 02, Token = 1952, Identifier = 00, JSON = {'rxpk': [{'tmst': 325314585, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAtAABnup0LheM'}]}
0:14:34.891669	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00b4, FOpts:), FPort: 01, FRMPayload: 00a4, MIC: 742e178c)
0:14:34.893667	LOG	Server <---------- DUT
0:14:34.895666	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0403, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 5072d9dc)
0:14:34.900663	LOG	Frame command sent to the DUT
0:14:34.902662	LOG	PULL_RESP: Protocol version = 02, Token = 6c1e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 327314585, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True,

		'size': 64, 'data': 'YCAgICAAAwTgoTYFaMIVd3Y8/pMNR1/Z66NIvfIiAr4rjQlSDw28XjnbbK3kH3IoJTK0sV8QhsnA0cHvUHLZ3A=='}}
0:14:34.904661	LOG	Server ----------> DUT
0:14:34.910657	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:34.914656	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:39.889782	LOG	PUSH_ACK: 02 1953 01
0:14:39.891780	LOG	PUSH_DATA: Protocol version = 02, Token = 1953, Identifier = 00, JSON = {'rxpk': [{'tmst': 330317203, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -4, 'size': 15, 'data': 'QCAgICCAtQABGT3EvLSV'}]}
0:14:39.893780	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00b5, FOpts:), FPort: 01, FRMPayload: 00a5, MIC: c4bcb495)
0:14:39.895776	LOG	Server <---------- DUT
0:14:39.897777	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0404, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: cab878f6)
0:14:39.899774	LOG	Frame command sent to the DUT
0:14:39.901774	LOG	PULL_RESP: Protocol version = 02, Token = 5fd1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 332317203, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAABATgJTaoVaxtEpQeKESZaKbcieXWrIFPnajSsdeMBfCIoxwUrRnnbSXQxH6weDgMSKX1Sg0ryrh49g=='}}
0:14:39.902774	LOG	Server ----------> DUT
0:14:39.909770	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:39.913767	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:44.893187	LOG	PUSH_ACK: 02 1954 01
0:14:44.895186	LOG	PUSH_DATA: Protocol version = 02, Token = 1954, Identifier = 00, JSON = {'rxpk': [{'tmst': 335319815, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAtgABff+kkpW1'}]}
0:14:44.897185	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00b6, FOpts:), FPort: 01, FRMPayload: 00a6, MIC: a49295b5)
0:14:44.899184	LOG	Server <---------- DUT
0:14:44.901182	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0405, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: a034260c)
0:14:44.904181	LOG	Frame command sent to the DUT
0:14:44.905199	LOG	PULL_RESP: Protocol version = 02, Token = 7a5c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 337319815, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAABQTgNWYbo7L2HBDxFR2ehJrMm3qASQmKPFadE6LUvi2Nr1nXNEiFYdI3dMMAkGHrOMCmYeNgoDQmDA=='}}
0:14:44.907180	LOG	Server ----------> DUT
0:14:44.910177	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:44.914175	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:49.895461	LOG	PUSH_ACK: 02 1955 01
0:14:49.897460	LOG	PUSH_DATA: Protocol version = 02, Token = 1955, Identifier = 00, JSON = {'rxpk': [{'tmst': 340322439, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAtwABqLvJ0TdT'}]}
0:14:49.899459	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00b7, FOpts:), FPort: 01, FRMPayload: 00a7, MIC: c9d13753)

0:14:49.900458	LOG	Server <---------- DUT
0:14:49.902457	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0406, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: b80b9b38)
0:14:49.905456	LOG	Frame command sent to the DUT
0:14:49.907455	LOG	PULL_RESP: Protocol version = 02, Token = 8791, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 342322439, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAABgTguDzxZVPwPq3YXZjK3JsySVOutMpklPbnr2LttUq3elMcusf7Abq6Kwo0OhARBUJd+79MuAubOA=='}}
0:14:49.909453	LOG	Server ----------> DUT
0:14:49.912451	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:49.915450	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:54.897536	LOG	PUSH_ACK: 02 1956 01
0:14:54.899536	LOG	PUSH_DATA: Protocol version = 02, Token = 1956, Identifier = 00, JSON = {'rxpk': [{'tmst': 345325073, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAuAABpKnMRF/Q'}]}
0:14:54.901535	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00b8, FOpts:), FPort: 01, FRMPayload: 00a8, MIC: cc445fd0)
0:14:54.903533	LOG	Server <---------- DUT
0:14:54.905532	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0407, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: b346aed6)
0:14:54.908531	LOG	Frame command sent to the DUT
0:14:54.909530	LOG	PULL_RESP: Protocol version = 02, Token = 0b19, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 347325073, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAABwTgy5rxEqKuU16vC9fU1JDHfoZSX69YGF2oI3bd7Hw1k+ShqqkmfsOdMD8DzV0qZ2Zi8v5Ps0au1g=='}}
0:14:54.911529	LOG	Server ----------> DUT
0:14:54.917525	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:54.922491	LOG	Send Test Command TxFramesCtrlReq process starts
0:14:59.900910	LOG	PUSH_ACK: 02 1957 01
0:14:59.902909	LOG	PUSH_DATA: Protocol version = 02, Token = 1957, Identifier = 00, JSON = {'rxpk': [{'tmst': 350327675, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAuQABv0aGrSq+'}]}
0:14:59.904908	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00b9, FOpts:), FPort: 01, FRMPayload: 00a9, MIC: 86ad2abe)
0:14:59.906907	LOG	Server <---------- DUT
0:14:59.909905	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0408, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 66671c4a)
0:14:59.912903	LOG	Frame command sent to the DUT
0:14:59.914902	LOG	PULL_RESP: Protocol version = 02, Token = b6f6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 352327675, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAACATghVtLg/3GFkRj+77HGsUQ0lv5QJcjiZldP1maI2Z9lFPMu2Tey1zJ9YIBMyoLy/tgQDTBZmccSg=='}}
0:14:59.916901	LOG	Server ----------> DUT

0:14:59.920899	LOG	Send Test Command TxFramesCtrlReq process completed
0:14:59.926895	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:04.901334	LOG	PUSH_ACK: 02 1959 01
0:15:04.903333	LOG	PUSH_DATA: Protocol version = 02, Token = 1959, Identifier = 00, JSON = {'rxpk': [{'tmst': 355330325, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -1, 'size': 15, 'data': 'QCAgICCAugABvUjFidd2'}]}
0:15:04.905331	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00ba, FOpts:), FPort: 01, FRMPayload: 00aa, MIC: c589d776)
0:15:04.907331	LOG	Server <---------- DUT
0:15:04.909329	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0409, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 0c1b1ccd)
0:15:04.913327	LOG	Frame command sent to the DUT
0:15:04.915326	LOG	PULL_RESP: Protocol version = 02, Token = e22b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 357330325, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAACQTg4Y3w3aVJT80r1qDfuhw5vSnxZ7yfvKVSHk5nie3bsNnEWK99WrVXJwGJQbT9iHNpgGTfDBsczQ=='}}
0:15:04.916325	LOG	Server ----------> DUT
0:15:04.920323	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:04.923321	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:09.904905	LOG	PUSH_ACK: 02 195a 01
0:15:09.906906	LOG	PUSH_DATA: Protocol version = 02, Token = 195a, Identifier = 00, JSON = {'rxpk': [{'tmst': 360332943, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -1, 'size': 15, 'data': 'QCAgICCAuwABxsNsDcAU'}]}
0:15:09.907904	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00bb, FOpts:), FPort: 01, FRMPayload: 00ab, MIC: 6c0dc014)
0:15:09.909903	LOG	Server <---------- DUT
0:15:09.911901	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 040a, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 4cf0fc00)
0:15:09.913902	LOG	Frame command sent to the DUT
0:15:09.914902	LOG	PULL_RESP: Protocol version = 02, Token = b891, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 362332943, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAACgTgbObMndn/zL8IBogSyRLAaKJHPLaCHuhvp4Rh0BWnSGZ0CuMxt5LOZNWuwqHf2dC2oHejTPD8AA=='}}
0:15:09.916899	LOG	Server ----------> DUT
0:15:09.919899	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:09.922897	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:14.908938	LOG	PUSH_ACK: 02 195b 01
0:15:14.910937	LOG	PUSH_DATA: Protocol version = 02, Token = 195b, Identifier = 00, JSON = {'rxpk': [{'tmst': 365335575, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAvAABP5UJ3iXC'}]}
0:15:14.912935	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00bc, FOpts:), FPort: 01, FRMPayload: 00ac, MIC: 09de25c2)
0:15:14.914934	LOG	Server <---------- DUT
0:15:14.916933	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 040b, FOpts:), FPort: e0, FRMPayload:

		07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 9289bf80)
0:15:14.918932	LOG	Frame command sent to the DUT
0:15:14.920931	LOG	PULL_RESP: Protocol version = 02, Token = 58be, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 367335575, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAACwTgscjJt9OZfKdzovhoi8+bMPFtHdVyPiSmCPLVeOFb4/TgdLhuMUud7JTh8zgSFEJdJfdRkom/gA=='}}
0:15:14.922930	LOG	Server ----------> DUT
0:15:14.927927	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:14.936923	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:19.911274	LOG	PUSH_ACK: 02 195c 01
0:15:19.913273	LOG	PUSH_DATA: Protocol version = 02, Token = 195c, Identifier = 00, JSON = {'rxpk': [{'tmst': 370338192, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -1, 'size': 15, 'data': 'QCAgICCAvQABbwLufd44'}]}
0:15:19.915271	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00bd, FOpts:), FPort: 01, FRMPayload: 00ad, MIC: ee7dde38)
0:15:19.917270	LOG	Server <---------- DUT
0:15:19.919269	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 040c, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: e7c0107a)
0:15:19.921268	LOG	Frame command sent to the DUT
0:15:19.923267	LOG	PULL_RESP: Protocol version = 02, Token = 5b16, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 372338192, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAADATg7v9bMZG7RD86/eGxlKJxB3WJRCzMfNd81tvDviXopMVduIUNOEY4xJGMWs7b0U/w8gt858AQeg=='}}
0:15:19.924267	LOG	Server ----------> DUT
0:15:19.929263	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:19.934261	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:24.914110	LOG	PUSH_ACK: 02 195e 01
0:15:24.916108	LOG	PUSH_DATA: Protocol version = 02, Token = 195e, Identifier = 00, JSON = {'rxpk': [{'tmst': 375340817, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAvgABxfvS1EhS'}]}
0:15:24.918108	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00be, FOpts:), FPort: 01, FRMPayload: 00ae, MIC: d2d44852)
0:15:24.919106	LOG	Server <---------- DUT
0:15:24.922075	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 040d, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 6bf545db)
0:15:24.924073	LOG	Frame command sent to the DUT
0:15:24.926072	LOG	PULL_RESP: Protocol version = 02, Token = 52c3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 377340817, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAADQTgxGBtvezM31vLfyJHBlgOtnQyksjUoOqQD1l6+17sO08iCJxoLG1CMwfELi3j7z0Cj7sxa/VF2w=='}}
0:15:24.927071	LOG	Server ----------> DUT
0:15:24.931069	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:24.934067	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:29.915684	LOG	PUSH_ACK: 02 195f 01

0:15:29.918682	LOG	PUSH_DATA: Protocol version = 02, Token = 195f, Identifier = 00, JSON = {'rxpk': [{'tmst': 380343444, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAvwABti/KIJ2C'}]}
0:15:29.919681	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00bf, FOpts:), FPort: 01, FRMPayload: 00af, MIC: ca209d82)
0:15:29.921680	LOG	Server <---------- DUT
0:15:29.923679	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 040e, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 67fdb066)
0:15:29.926677	LOG	Frame command sent to the DUT
0:15:29.928676	LOG	PULL_RESP: Protocol version = 02, Token = fc27, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 382343444, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAADgTgXqS/eggeQyoS4BesSSzu+PYdG0b6B/8ajdAzxwXLKFE2Zk6h6MYju8GHb/fWVBfO6is3Z/2wZg==''}}
0:15:29.929676	LOG	Server ----------> DUT
0:15:29.933673	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:29.938671	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:34.918844	LOG	PUSH_ACK: 02 1961 01
0:15:34.920843	LOG	PUSH_DATA: Protocol version = 02, Token = 1961, Identifier = 00, JSON = {'rxpk': [{'tmst': 385346039, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAwAABFnY2wxZC'}]}
0:15:34.922841	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00c0, FOpts:), FPort: 01, FRMPayload: 00b0, MIC: 36c31642)
0:15:34.923841	LOG	Server <---------- DUT
0:15:34.926839	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 040f, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 287dd398)
0:15:34.932836	LOG	Frame command sent to the DUT
0:15:34.933835	LOG	PULL_RESP: Protocol version = 02, Token = 2615, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 387346039, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAADwTgtQnHfiJTcisS8TC39pklP7QEGFQepebxMP4RWMO1Peqg0Joy/5pDeczLSF80MRE6LMjgKH3TmA==''}}
0:15:34.935834	LOG	Server ----------> DUT
0:15:34.939832	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:34.944829	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:39.920970	LOG	PUSH_ACK: 02 1962 01
0:15:39.922969	LOG	PUSH_DATA: Protocol version = 02, Token = 1962, Identifier = 00, JSON = {'rxpk': [{'tmst': 390348657, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': 0, 'size': 15, 'data': 'QCAgICCAwQABIYAV/+Fk'}]}
0:15:39.923970	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00c1, FOpts:), FPort: 01, FRMPayload: 00b1, MIC: 15ffe164)
0:15:39.925968	LOG	Server <---------- DUT
0:15:39.926967	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0410, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: f09efefb)
0:15:39.928965	LOG	Frame command sent to the DUT

0:15:39.929965	LOG	PULL_RESP: Protocol version = 02, Token = 6dcc, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 392348657, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAEATgWzkRN9ky8iMTIY786SpRQOBDH1Gkn2JraCn0IK0MOq4zYA45T0N80A8Fu5t7y8T3t5/b8J7++w=='}}
0:15:39.931963	LOG	Server ----------> DUT
0:15:39.935961	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:39.939959	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:44.923220	LOG	PUSH_ACK: 02 1963 01
0:15:44.926218	LOG	PUSH_DATA: Protocol version = 02, Token = 1963, Identifier = 00, JSON = {'rxpk': [{'tmst': 395351290, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAwgABVVxCDVCY'}]}
0:15:44.928217	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00c2, FOpts:), FPort: 01, FRMPayload: 00b2, MIC: 420d5098)
0:15:44.929216	LOG	Server <---------- DUT
0:15:44.932215	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0411, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 0a9525d8)
0:15:44.935213	LOG	Frame command sent to the DUT
0:15:44.936212	LOG	PULL_RESP: Protocol version = 02, Token = 9949, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 397351290, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAEQTgBeIYffSubjN7CoJJBYjx4mJw+CkY1IIVdCqY1Tyf6IEO/m5yEpJvN16TD6y0vcRb86t6CpUl2A=='}}
0:15:44.938211	LOG	Server ----------> DUT
0:15:44.944208	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:44.949205	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:49.925462	LOG	PUSH_ACK: 02 1964 01
0:15:49.927460	LOG	PUSH_DATA: Protocol version = 02, Token = 1964, Identifier = 00, JSON = {'rxpk': [{'tmst': 400353898, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -1, 'size': 15, 'data': 'QCAgICCAwwABm5IVGO/K'}]}
0:15:49.929459	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00c3, FOpts:), FPort: 01, FRMPayload: 00b3, MIC: 1518efca)
0:15:49.931458	LOG	Server <---------- DUT
0:15:49.933457	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0412, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 7a4e50bf)
0:15:49.935456	LOG	Frame command sent to the DUT
0:15:49.937455	LOG	PULL_RESP: Protocol version = 02, Token = 3c52, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 402353898, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAEgTg72DnTpQ/605c+tg3HgOQUyE6IenZun+uzhrzflV+gbDP++kdfdSQT6/G3K/F7+H9NpnAek5Qvw=='}}
0:15:49.938454	LOG	Server ----------> DUT
0:15:49.945450	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:49.950447	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:54.927293	LOG	PUSH_ACK: 02 1965 01
0:15:54.930291	LOG	PUSH_DATA: Protocol version = 02, Token = 1965, Identifier = 00, JSON = {'rxpk': [{'tmst': 405356500, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -4, 'size': 15, 'data': 'QCAgICCAxAABK3TE8sPA'}]}
0:15:54.931290	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00c4, FOpts:), FPort: 01, FRMPayload: 00b4, MIC: c4f2c3c0)
0:15:54.933289	LOG	Server <---------- DUT
0:15:54.935288	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0413, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 8e226979)
0:15:54.937287	LOG	Frame command sent to the DUT
0:15:54.939286	LOG	PULL_RESP: Protocol version = 02, Token = c439, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 407356500, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAEwTgw+FQ8GsAzr+KBpandhmfupN9YnkXZWPV9jAOk44uMtZeHUcYJF6vxi5nWqhv8oLcinRfjiJpeQ=='}}
0:15:54.940285	LOG	Server ----------> DUT
0:15:54.945282	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:54.950279	LOG	Send Test Command TxFramesCtrlReq process starts
0:15:59.931257	LOG	PUSH_ACK: 02 1966 01
0:15:59.934258	LOG	PUSH_DATA: Protocol version = 02, Token = 1966, Identifier = 00, JSON = {'rxpk': [{'tmst': 410359135, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAxQABy3FY/smN'}]}
0:15:59.935255	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00c5, FOpts:), FPort: 01, FRMPayload: 00b5, MIC: 58fec98d)
0:15:59.937256	LOG	Server <---------- DUT
0:15:59.939252	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0414, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 788eca76)
0:15:59.943249	LOG	Frame command sent to the DUT
0:15:59.945251	LOG	PULL_RESP: Protocol version = 02, Token = a93c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 412359135, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAFATgoEpdmAF/OLUfHMzh5wW1uNXX3LBz79BMUm9mjU+6e6btvxHIAhydnf3s73p3UQHKsdXLeI7Kdg=='}}
0:15:59.947251	LOG	Server ----------> DUT
0:15:59.952217	LOG	Send Test Command TxFramesCtrlReq process completed
0:15:59.957243	LOG	Send Test Command TxFramesCtrlReq process starts
0:16:04.934491	LOG	PUSH_ACK: 02 1968 01
0:16:04.937488	LOG	PUSH_DATA: Protocol version = 02, Token = 1968, Identifier = 00, JSON = {'rxpk': [{'tmst': 415361763, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAxgABJ5OxnFZ8'}]}
0:16:04.938490	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00c6, FOpts:), FPort: 01, FRMPayload: 00b6, MIC: b19c567c)
0:16:04.940488	LOG	Server <---------- DUT
0:16:04.942456	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0415, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 454597c4)
0:16:04.947452	LOG	Frame command sent to the DUT
0:16:04.949451	LOG	PULL_RESP: Protocol version = 02, Token = 6dea, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 417361763, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True,

		'size': 64, 'data': 'YCAgICAAFQTgdA4Im889ETZo2xSQI1jE11faNtS3W0KTgGDviCGidij+sOBycelL4BWPKO57MeTosr8RRUWXxA=='}}
0:16:04.950451	LOG	Server ----------> DUT
0:16:04.954449	LOG	Send Test Command TxFramesCtrlReq process completed
0:16:04.958447	LOG	Send Test Command TxFramesCtrlReq process starts
0:16:09.935558	LOG	PUSH_ACK: 02 1969 01
0:16:09.940555	LOG	PUSH_DATA: Protocol version = 02, Token = 1969, Identifier = 00, JSON = {'rxpk': [{'tmst': 420364362, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAxwABguMLl+rO'}]}
0:16:09.943553	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00c7, FOpts:), FPort: 01, FRMPayload: 00b7, MIC: 0b97eace)
0:16:09.947550	LOG	Server <---------- DUT
0:16:09.951549	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0416, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: a7d9accb)
0:16:09.954545	LOG	Frame command sent to the DUT
0:16:09.955545	LOG	PULL_RESP: Protocol version = 02, Token = 824c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 422364362, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAFgTg9kPto3cF8xznRICzPemv1PIlh9uK/V/1B4JklDtgP29HjwAtU4p9bJ+s+9YNHINndFpYp9msyw=='}}
0:16:09.956544	LOG	Server ----------> DUT
0:16:09.960542	LOG	Send Test Command TxFramesCtrlReq process completed
0:16:09.964540	LOG	Send Test Command TxFramesCtrlReq process starts
0:16:14.937142	LOG	PUSH_ACK: 02 196a 01
0:16:14.939143	LOG	PUSH_DATA: Protocol version = 02, Token = 196a, Identifier = 00, JSON = {'rxpk': [{'tmst': 425366980, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAyAABiyJ/tWiP'}]}
0:16:14.940143	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00c8, FOpts:), FPort: 01, FRMPayload: 00b8, MIC: 7fb5688f)
0:16:14.941142	LOG	Server <---------- DUT
0:16:14.944139	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0417, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: cdf19b3f)
0:16:14.946139	LOG	Frame command sent to the DUT
0:16:14.948136	LOG	PULL_RESP: Protocol version = 02, Token = 1fc5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 427366980, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAFwTgaGapZdR+k3GB7D3MYNkVNsadyzHoDvCYWXOWhU0uACKm1QypwpaNA4Cc6bPlZq4u6T79zfGbPw=='}}
0:16:14.949136	LOG	Server ----------> DUT
0:16:14.952136	LOG	Send Test Command TxFramesCtrlReq process completed
0:16:14.956132	LOG	Send Test Command TxFramesCtrlReq process starts
0:16:19.939939	LOG	PUSH_ACK: 02 196b 01
0:16:19.941937	LOG	PUSH_DATA: Protocol version = 02, Token = 196b, Identifier = 00, JSON = {'rxpk': [{'tmst': 430369597, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -4, 'size': 15, 'data': 'QCAgICCAyQAB1pPAOJ/m'}]}
0:16:19.942937	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00c9, FOpts:), FPort: 01, FRMPayload: 00b9, MIC: c0389fe6)

0:16:19.944936	LOG	Server <---------- DUT
0:16:19.946935	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0418, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: bdbc99b3)
0:16:19.948933	LOG	Frame command sent to the DUT
0:16:19.950932	LOG	PULL_RESP: Protocol version = 02, Token = 723f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 432369597, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAGATgGtZ4socCSLYFgc1U2Ot94uoIVvkUk8LlIsc3P+JBI+TgIqnFnaieLQpFoKaVRW4ZqEpHvbyZsw=='}}
0:16:19.951931	LOG	Server ----------> DUT
0:16:19.954930	LOG	Send Test Command TxFramesCtrlReq process completed
0:16:19.958928	LOG	Send Test Command TxFramesCtrlReq process starts
0:16:20.161498	LOG	PULL_DATA: 02 7954 02 aa555a0000240409
0:16:20.163496	LOG	PULL_ACK: 02 7954 04
0:16:24.942852	LOG	PUSH_ACK: 02 196c 01
0:16:24.945852	LOG	PUSH_DATA: Protocol version = 02, Token = 196c, Identifier = 00, JSON = {'rxpk': [{'tmst': 435372214, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -1, 'size': 15, 'data': 'QCAgICCAygABNbXdPguD'}]}
0:16:24.946850	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00ca, FOpts:), FPort: 01, FRMPayload: 00ba, MIC: dd3e0b83)
0:16:24.947852	LOG	Server <---------- DUT
0:16:24.949851	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0419, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 0dfeab66)
0:16:24.951848	LOG	Frame command sent to the DUT
0:16:24.952847	LOG	PULL_RESP: Protocol version = 02, Token = c9b9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 437372214, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAGQTg/umcUD4GuDiKUVqkHvXIOHWucOetgyHIH+SZywynl576+GDMrYT2ntky1AvduUU5cZMlDf6rZg=='}}
0:16:24.953849	LOG	Server ----------> DUT
0:16:24.956847	LOG	Send Test Command TxFramesCtrlReq process completed
0:16:24.959845	LOG	Send Test Command TxFramesCtrlReq process starts
0:16:29.947059	LOG	PUSH_ACK: 02 196d 01
0:16:29.950059	LOG	PUSH_DATA: Protocol version = 02, Token = 196d, Identifier = 00, JSON = {'rxpk': [{'tmst': 440374838, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -1, 'size': 15, 'data': 'QCAgICCAywABi6tjmh1Z'}]}
0:16:29.951056	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00cb, FOpts:), FPort: 01, FRMPayload: 00bb, MIC: 639a1d59)
0:16:29.953055	LOG	Server <---------- DUT
0:16:29.955055	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 041a, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 2d0350c5)
0:16:29.958052	LOG	Frame command sent to the DUT
0:16:29.960051	LOG	PULL_RESP: Protocol version = 02, Token = e5f6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 442374838, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data':

		'YCAgICAAGgTg22Q8PHvWTXU+C3VF9NbaEEN2l+VYf5gDkYRK1YONIwO2lOz0Oqg94W6UuiI1M1Ci4RLOLQNQxQ=='}}
0:16:29.961051	LOG	Server ----------> DUT
0:16:29.964019	LOG	Send Test Command TxFramesCtrlReq process completed
0:16:29.968017	LOG	Send Test Command RxAppCntReq process starts
0:16:30.172121	LOG	PULL_DATA: 02 b35c 02 aa555a0000240409
0:16:30.174120	LOG	PULL_ACK: 02 b35c 04
0:16:34.947410	LOG	PUSH_ACK: 02 196f 01
0:16:34.949409	LOG	PUSH_DATA: Protocol version = 02, Token = 196f, Identifier = 00, JSON = {'rxpk': [{'tmst': 445377467, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAzAABKP3gtZ9S'}]}
0:16:34.950408	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00cc, FOpts:), FPort: 01, FRMPayload: 00bc, MIC: e0b59f52)
0:16:34.952408	LOG	Server <---------- DUT
0:16:34.953407	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 041b, FOpts:), FPort: e0, FRMPayload: 09), MIC: 4ce0a743)
0:16:34.956405	LOG	Frame command sent to the DUT
0:16:34.958404	LOG	PULL_RESP: Protocol version = 02, Token = 1472, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 447377467, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAAGwTgw0zgp0M='}}
0:16:34.962401	LOG	Server ----------> DUT
0:16:34.965400	LOG	TX_ACK: 02 1472 05 aa555a0000240409
0:16:39.953672	LOG	PUSH_ACK: 02 1970 01
0:16:39.956671	LOG	PUSH_DATA: Protocol version = 02, Token = 1970, Identifier = 00, JSON = {'rxpk': [{'tmst': 450388156, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -2, 'size': 16, 'data': 'QCAgICCAzQDgJxTFyG4j5w=='}]}
0:16:39.957670	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00cd, FOpts:), FPort: e0, FRMPayload: 09bd00, MIC: c86e23e7)
0:16:39.958672	LOG	Server <---------- DUT
0:16:39.960669	LOG	Answer in payload: bd00
0:16:39.962668	LOG	Frame Command Payload in the Answer: 09bd00
0:16:39.967668	LOG	RX Count received by DUT: 189
0:16:39.969665	LOG	Send Test Command RxAppCntReq process completed
0:16:39.976661	LOG	End Test Step: Test packet error rate for SF10BW125 using RX2 window
0:16:39.981659	LOG	Partial Verdict: PASS
0:16:39.985657	LOG	==========
0:16:39.990654	LOG	==========
0:16:39.992653	LOG	Start Test Step: Test packet error rate for SF9BW125 using RX2 window
0:16:40.002645	LOG	Send RXParamSetupReq process starts
0:16:40.212241	LOG	PULL_DATA: 02 36d7 02 aa555a0000240409
0:16:40.214240	LOG	PULL_ACK: 02 36d7 04
0:16:44.945744	LOG	PUSH_ACK: 02 1971 01
0:16:44.947712	LOG	PUSH_DATA: Protocol version = 02, Token = 1971, Identifier = 00, JSON = {'rxpk': [{'tmst': 455382676, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -1, 'size': 15, 'data': 'QCAgICCAzgABG2c97Bz7'}]}
0:16:44.948711	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00ce, FOpts:), FPort: 01, FRMPayload: 00bd, MIC: 3dec1cfb)
0:16:44.950705	LOG	Server <---------- DUT
0:16:44.952704	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 041c, FOpts:), FPort: 00, FRMPayload: 0503d2ad84), MIC: b66728fa)
0:16:44.955703	LOG	PULL_RESP: Protocol version = 02, Token = 48a7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 457382676, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAHAQAc/5n9QK2Zyj6'}}
0:16:44.956701	LOG	Server ----------> DUT
0:16:44.961698	LOG	TX_ACK: 02 48a7 05 aa555a0000240409
0:16:49.999153	LOG	PUSH_ACK: 02 1972 01
0:16:50.002151	LOG	PUSH_DATA: Protocol version = 02, Token = 1972, Identifier = 00, JSON = {'rxpk': [{'tmst': 460390461, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -2, 'size': 17, 'data': 'QCAgICCCzwAFBwHOEUyQhcE='}]}
0:16:50.004154	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 00cf, FOpts: 0507), FPort: 01, FRMPayload: 00bd, MIC: 4c9085c1)
0:16:50.005150	LOG	Server <---------- DUT
0:16:50.007150	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:16:50.008152	LOG	Command Answer: 0507
0:16:50.031135	LOG	MAC command communication completed
0:16:50.042100	LOG	Send Test Command RxAppCntReq process starts
0:16:50.411474	LOG	PULL_DATA: 02 f56c 02 aa555a0000240409
0:16:50.413473	LOG	PULL_ACK: 02 f56c 04
0:16:54.990897	LOG	PUSH_ACK: 02 1973 01
0:16:54.991897	LOG	PUSH_DATA: Protocol version = 02, Token = 1973, Identifier = 00, JSON = {'rxpk': [{'tmst': 465393069, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -4, 'size': 17, 'data': 'QCAgICCC0AAFBwEpRLd9ick='}]}
0:16:54.993896	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 00d0, FOpts: 0507), FPort: 01, FRMPayload: 00bd, MIC: b77d89c9)
0:16:54.994895	LOG	Server <---------- DUT
0:16:54.996893	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 041d, FOpts:), FPort: e0, FRMPayload: 09), MIC: b138ed0c)
0:16:54.999892	LOG	Frame command sent to the DUT
0:16:55.000891	LOG	PULL_RESP: Protocol version = 02, Token = 89a4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 467393069, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAAHQTgArE47Qw='}}
0:16:55.002890	LOG	Server ----------> DUT
0:16:55.007887	LOG	TX_ACK: 02 89a4 05 aa555a0000240409
0:16:59.979959	LOG	PUSH_ACK: 02 1974 01
0:16:59.981958	LOG	PUSH_DATA: Protocol version = 02, Token = 1974, Identifier = 00, JSON = {'rxpk': [{'tmst': 470398639, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -2, 'size': 16, 'data': 'QCAgICCA0QDgInCyZZYxnA=='}]}
0:16:59.983957	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00d1, FOpts:), FPort: e0, FRMPayload: 09be00, MIC: 6596319c)
0:16:59.984956	LOG	Server <---------- DUT
0:16:59.986955	LOG	Answer in payload: be00
0:16:59.988954	LOG	Frame Command Payload in the Answer: 09be00
0:16:59.992951	LOG	RX Count received by DUT: 190
0:16:59.995950	LOG	Send Test Command RxAppCntReq process completed
0:16:59.998948	LOG	Send Test Command TxFramesCtrlReq process starts
0:17:00.461341	LOG	PULL_DATA: 02 c45d 02 aa555a0000240409
0:17:00.463340	LOG	PULL_ACK: 02 c45d 04
0:17:04.977781	LOG	PUSH_ACK: 02 1976 01
0:17:04.981778	LOG	PUSH_DATA: Protocol version = 02, Token = 1976, Identifier = 00, JSON = {'rxpk': [{'tmst': 475393191, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': 0, 'size': 15, 'data': 'QCAgICCA0gABDEgi6Ygp'}]}

0:17:04.982779	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00d2, FOpts:), FPort: 01, FRMPayload: 00be, MIC: 22e98829)
0:17:04.984777	LOG	Server <---------- DUT
0:17:04.985777	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 041e, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:17:15.006867	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0420, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		0101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 7c2bda3b)
0:17:25.016095	LOG	Frame command sent to the DUT
0:17:25.017094	LOG	PULL_RESP: Protocol version = 02, Token = 384d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 497403654, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YCAgICAAIgTgwAd/fBm+3skHhUMnYa/TND9E/c5HxwrRTrfvesy1bmPe9p6wu2kz0Pi6s7YsxbNq0Cb0J4+U//Pw70Ps/fC+wkM+aLU1WfxfIlo56aWtoaOdw1jtECie55qUlrka9UtIgUaA0eaJEBaRDA5qwGl5ttbwOnwr2js='}}
0:17:25.018095	LOG	Server ----------> DUT
0:17:25.021093	LOG	Send Test Command TxFramesCtrlReq process completed
0:17:25.024090	LOG	Send Test Command TxFramesCtrlReq process starts
0:17:30.008400	LOG	PUSH_ACK: 02 197b 01
0:17:30.010398	LOG	PUSH_DATA: Protocol version = 02, Token = 197b, Identifier = 00, JSON = {'rxpk': [{'tmst': 500406286, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -2, 'size': 15, 'data': 'QCAgICCA1wAB5lxl8J/S'}]}
0:17:30.011396	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00d7, FOpts:), FPort: 01, FRMPayload: 00c3, MIC: 65f09fd2)
0:17:30.013396	LOG	Server <---------- DUT
0:17:30.015396	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0423, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 471ae583)
0:17:30.018393	LOG	Frame command sent to the DUT
0:17:30.019392	LOG	PULL_RESP: Protocol version = 02, Token = c2c7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 502406286, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YCAgICAAIwTgQZcMfDB6YsQ3DKntoZbRN4zUSTZ8/GqwEIvF0JIyaVqtyh7WuQ+/DXNHVlDxJ2Ilot42wELO4IOCPh00Q4ZyNi32LhRbKTRlV30vBv7+ydq1vBPpQkm1tu2TczxsYHez/BbY3HWDjUMEBqtvHEccvfUTZkca5YM='}}
0:17:30.021391	LOG	Server ----------> DUT
0:17:30.025389	LOG	Send Test Command TxFramesCtrlReq process completed
0:17:30.028386	LOG	Send Test Command TxFramesCtrlReq process starts
0:17:30.861393	LOG	PULL_DATA: 02 fd42 02 aa555a0000240409
0:17:30.863392	LOG	PULL_ACK: 02 fd42 04
0:17:35.012039	LOG	PUSH_ACK: 02 197d 01
0:17:35.021037	LOG	PUSH_DATA: Protocol version = 02, Token = 197d, Identifier = 00, JSON = {'rxpk': [{'tmst': 505408929, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCA2AABsnHXeMhA'}]}
0:17:35.022032	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00d8, FOpts:), FPort: 01, FRMPayload: 00c4, MIC: d778c840)
0:17:35.024036	LOG	Server <---------- DUT
0:17:35.026031	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0424, FOpts:), FPort: e0, FRMPayload: 070001), MIC: 317ca240)
0:17:35.029029	LOG	Frame command sent to the DUT
0:17:35.030028	LOG	PULL_RESP: Protocol version = 02, Token = b52d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 507408929, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YCAgICAAJATgj01swBndJVmohWLkDxBDwSDQARfzMQ8tF9GDVhbm5dchIbBz3IZcBO10jNn6ZZbBcfLH1IVxRwwJd358wCzeRjBcMmier5Ib7683MYYnuM5UzsVhLFmc+6eYDx8LW6BcxeNgthU2IoUSOLCMZb1DzhOXjzF8okA='}}
0:17:35.032026	LOG	Server ----------> DUT
0:17:35.036024	LOG	Send Test Command TxFramesCtrlReq process completed
0:17:35.040022	LOG	Send Test Command TxFramesCtrlReq process starts
0:17:40.014199	LOG	PUSH_ACK: 02 197e 01
0:17:40.016196	LOG	PUSH_DATA: Protocol version = 02, Token = 197e, Identifier = 00, JSON = {'rxpk': [{'tmst': 510411563, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': 0, 'size': 15, 'data': 'QCAgICCA2QABL3D4Hq6R'}]}
0:17:40.017197	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00d9, FOpts:), FPort: 01, FRMPayload: 00c5, MIC: f81eae91)
0:17:40.019195	LOG	Server <---------- DUT
0:17:40.021194	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0425, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:17:45.028894	LOG	Server ----------> DUT
0:17:45.032893	LOG	Send Test Command TxFramesCtrlReq process completed
0:17:45.035891	LOG	Send Test Command TxFramesCtrlReq process starts
0:17:50.018436	LOG	PUSH_ACK: 02 1980 01
0:17:50.021434	LOG	PUSH_DATA: Protocol version = 02, Token = 1980, Identifier = 00, JSON = {'rxpk': [{'tmst': 520416806, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -4, 'size': 15, 'data': 'QCAgICCA2wABoljjccL+'}]}
0:17:50.023433	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00db, FOpts:), FPort: 01, FRMPayload: 00c7, MIC: e371c2fe)
0:17:50.024433	LOG	Server <---------- DUT
0:17:50.026432	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0427, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:18:00.026669	LOG	PUSH_DATA: Protocol version = 02, Token = 1982, Identifier = 00, JSON = {'rxpk': [{'tmst': 530422051, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -4, 'size': 15, 'data': 'QCAgICCA3QABm22uUP99'}]}
0:18:00.027669	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00dd, FOpts:), FPort: 01, FRMPayload: 00c9, MIC: ae50ff7d)
0:18:00.028668	LOG	Server <---------- DUT
0:18:00.030669	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0429, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:18:10.030894	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00df, FOpts:), FPort: 01, FRMPayload: 00cb, MIC: 7289be2a)
0:18:10.031894	LOG	Server <---------- DUT
0:18:10.033893	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 042b, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		07000101010101010101010

0:18:30.051894	LOG	PULL_RESP: Protocol version = 02, Token = 09f7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 562437799, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YCAgICAALwTgOEO4X9OdrPN+qe7pbfM5VI1e5/4fWmJ381ACF5vUDE62PoMH0MfcEdoxf57sAM5U0/nRy1o6RJJToRycwNJn+dEJP3+elodgPld2hxsxNYR1ChR1TefSgS043AtmdaojKUOHD0MO7xXXGZ1bCjK+Uxfz5a/UhJs='}}
0:18:30.052893	LOG	Server ----------> DUT
0:18:30.056890	LOG	Send Test Command TxFramesCtrlReq process completed
0:18:30.060889	LOG	Send Test Command TxFramesCtrlReq process starts
0:18:31.521244	LOG	PULL_DATA: 02 52b2 02 aa555a0000240409
0:18:31.523245	LOG	PULL_ACK: 02 52b2 04
0:18:35.042258	LOG	PUSH_ACK: 02 198b 01
0:18:35.055251	LOG	PUSH_DATA: Protocol version = 02, Token = 198b, Identifier = 00, JSON = {'rxpk': [{'tmst': 565440402, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCA5AAB53Nbz2vE'}]}
0:18:35.060248	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00e4, FOpts:), FPort: 01, FRMPayload: 00d0, MIC: 5bcf6bc4)
0:18:35.062245	LOG	Server <---------- DUT
0:18:35.064245	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0430, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010

		0p75BvknrIkrlRB+9rHeHAcgH8YzZPC1RxHde447AtbUmgFuxHenDPey3h691aZRqbNBAr4d6514pGLw8T0gErdyALwodjPsB6tWVeKh2nHq3hLg='}}
0:18:40.058920	LOG	Server ----------> DUT
0:18:40.063917	LOG	Send Test Command TxFramesCtrlReq process completed
0:18:40.068915	LOG	Send Test Command TxFramesCtrlReq process starts
0:18:41.531357	LOG	PULL_DATA: 02 e47d 02 aa555a0000240409
0:18:41.533357	LOG	PULL_ACK: 02 e47d 04
0:18:45.047832	LOG	PUSH_ACK: 02 198d 01
0:18:45.049831	LOG	PUSH_DATA: Protocol version = 02, Token = 198d, Identifier = 00, JSON = {'rxpk': [{'tmst': 575445635, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -2, 'size': 15, 'data': 'QCAgICCA5gAB71OJzkuq'}]}
0:18:45.050830	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00e6, FOpts:), FPort: 01, FRMPayload: 00d2, MIC: 89ce4baa)
0:18:45.051830	LOG	Server <---------- DUT
0:18:45.053827	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0432, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010

0:18:51.741517	LOG	PULL_DATA: 02 f85d 02 aa555a0000240409
0:18:51.742516	LOG	PULL_ACK: 02 f85d 04
0:18:55.052638	LOG	PUSH_ACK: 02 198f 01
0:18:55.057635	LOG	PUSH_DATA: Protocol version = 02, Token = 198f, Identifier = 00, JSON = {'rxpk': [{'tmst': 585450879, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -4, 'size': 15, 'data': 'QCAgICCA6AABuKtvNAew'}]}
0:18:55.061633	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00e8, FOpts:), FPort: 01, FRMPayload: 00d4, MIC: 6f3407b0)
0:18:55.064631	LOG	Server <---------- DUT
0:18:55.070646	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0434, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -3, 'size': 15, 'data': 'QCAgICCA6gABGTVOdeNy'}]}
0:19:05.060992	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00ea, FOpts:), FPort: 01, FRMPayload: 00d6, MIC: 4e75e372)
0:19:05.061991	LOG	Server <---------- DUT
0:19:05.063988	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0436, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010

0:19:15.069761	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0438, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010

		0101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 7a508641)
0:19:25.076137	LOG	Frame command sent to the DUT
0:19:25.077138	LOG	PULL_RESP: Protocol version = 02, Token = 8d9f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 617466597, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YCAgICAAOgTgYz5jamGSZ4l/BpLKSj9CzKafkO6ERp789a9zsoamtmqYgI1sRvKh3Fp4ff90jGfXP4DnnEVbRHdXkprAYioWO5c/p3SZFw+KylLT7FbcjbhClE6XrsHblmF9cbuGSZH3iQV+z3+PMphrS6cD4r8+x0iBDHpQhkE='}}
0:19:25.078138	LOG	Server ----------> DUT
0:19:25.081136	LOG	Send Test Command TxFramesCtrlReq process completed
0:19:25.085132	LOG	Send Test Command TxFramesCtrlReq process starts
0:19:30.071749	LOG	PUSH_ACK: 02 1997 01
0:19:30.073745	LOG	PUSH_DATA: Protocol version = 02, Token = 1997, Identifier = 00, JSON = {'rxpk': [{'tmst': 620469224, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -4, 'size': 15, 'data': 'QCAgICCA7wABzN+agpFj'}]}
0:19:30.077743	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00ef, FOpts:), FPort: 01, FRMPayload: 00db, MIC: 9a829163)
0:19:30.080740	LOG	Server <---------- DUT
0:19:30.083738	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 043b, FOpts:), FPort: e0, FRMPayload: 070001), MIC: e266d2ab)
0:19:30.086736	LOG	Frame command sent to the DUT
0:19:30.087735	LOG	PULL_RESP: Protocol version = 02, Token = c42a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 622469224, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YCAgICAAOwTgKJZOfIr3KldDtv72dm01WBHNva/NbpIwSd0pSFtxcup09aanpuQ9yEBsiQzoQfk5WO9ypbXKznfZd7s34gz5INA9B9Tx2EvJwQwOfeBMSy4KRxl2465VdfKUIIzIp8IxhEFTFfaKXvwg17oLJiyb6uVtSeJm0qs='}}
0:19:30.089734	LOG	Server ----------> DUT
0:19:30.093732	LOG	Send Test Command TxFramesCtrlReq process completed
0:19:30.097730	LOG	Send Test Command TxFramesCtrlReq process starts
0:19:31.980763	LOG	PULL_DATA: 02 7446 02 aa555a0000240409
0:19:31.982745	LOG	PULL_ACK: 02 7446 04
0:19:35.072989	LOG	PUSH_ACK: 02 1999 01
0:19:35.076987	LOG	PUSH_DATA: Protocol version = 02, Token = 1999, Identifier = 00, JSON = {'rxpk': [{'tmst': 625471859, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -4, 'size': 15, 'data': 'QCAgICCA8AABsH+cfB/E'}]}
0:19:35.078986	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00f0, FOpts:), FPort: 01, FRMPayload: 00dc, MIC: 9c7c1fc4)
0:19:35.079986	LOG	Server <---------- DUT
0:19:35.081985	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 043c, FOpts:), FPort: e0, FRMPayload: 070001), MIC: e32e6e04)
0:19:35.084983	LOG	Frame command sent to the DUT
0:19:35.085982	LOG	PULL_RESP: Protocol version = 02, Token = 3046, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 627471859, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YCAgICAAPATgbcJDHRDAZl07sRIX1W3M8QPlsTSdVy9vc18cnF7+7+WZo/f/7oOWh2xl15cGhv2mUJTUHkePlRRGEVPPBNv+vvnNcbIfC+IHDuCUv6hUoc6yFe2UUSQHTHTq7bQp97zI/OJQDuPYR2v3+wBx4j7Q7B9CNuMubgQ='}}
0:19:35.087981	LOG	Server ----------> DUT
0:19:35.090979	LOG	Send Test Command TxFramesCtrlReq process completed
0:19:35.093978	LOG	Send Test Command TxFramesCtrlReq process starts
0:19:40.075195	LOG	PUSH_ACK: 02 199a 01
0:19:40.077194	LOG	PUSH_DATA: Protocol version = 02, Token = 199a, Identifier = 00, JSON = {'rxpk': [{'tmst': 630474460, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -3, 'size': 15, 'data': 'QCAgICCA8QABj7FZI8es'}]}
0:19:40.078194	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00f1, FOpts:), FPort: 01, FRMPayload: 00dd, MIC: 5923c7ac)
0:19:40.080193	LOG	Server <---------- DUT
0:19:40.081192	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 043d, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010

0:19:45.091427	LOG	Server ----------> DUT
0:19:45.095425	LOG	Send Test Command TxFramesCtrlReq process completed
0:19:45.099425	LOG	Send Test Command TxFramesCtrlReq process starts
0:19:50.081594	LOG	PUSH_ACK: 02 199c 01
0:19:50.084593	LOG	PUSH_DATA: Protocol version = 02, Token = 199c, Identifier = 00, JSON = {'rxpk': [{'tmst': 640479697, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': 0, 'size': 15, 'data': 'QCAgICCA8wABYWcod82n'}]}
0:19:50.085592	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00f3, FOpts:), FPort: 01, FRMPayload: 00df, MIC: 2877cda7)
0:19:50.087591	LOG	Server <---------- DUT
0:19:50.088591	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 043f, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:20:00.088913	LOG	PUSH_DATA: Protocol version = 02, Token = 199e, Identifier = 00, JSON = {'rxpk': [{'tmst': 650484947, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -2, 'size': 15, 'data': 'QCAgICCA9QABNlw4nyeq'}]}
0:20:00.090912	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00f5, FOpts:), FPort: 01, FRMPayload: 00e1, MIC: 389f27aa)
0:20:00.091911	LOG	Server <---------- DUT
0:20:00.093910	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0441, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -1, 'size': 15, 'data': 'QCAgICCA+AABHW9wu8Zy'}]}
0:20:15.096096	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00f8, FOpts:), FPort: 01, FRMPayload: 00e3, MIC: 70bbc672)
0:20:15.098094	LOG	Server <---------- DUT
0:20:15.100094	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0443, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010

0:20:25.105170	LOG	Server <---------- DUT
0:20:25.107169	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0445, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		0101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 020b8edc)
0:20:35.112695	LOG	Frame command sent to the DUT
0:20:35.114692	LOG	PULL_RESP: Protocol version = 02, Token = feaa, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 687503254, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YCAgICAARwTg27ifVqI1MGEI0LVTiUljSc7jtxMrp4kZLZ5g9hvx6TI/KNCJsoHc5BqMMx+sAO1Orr4rFKOM8FlG61u9Y0RxEiLxvWLA/aFjBtxnRTt8wj+pyXXgPFbQ4nLmzN8EhCeaobvlBGq5oizRwE/vdFvQucHnfgILjtw='}}
0:20:35.115692	LOG	Server ----------> DUT
0:20:35.119688	LOG	Send Test Command TxFramesCtrlReq process completed
0:20:35.124687	LOG	Send Test Command TxFramesCtrlReq process starts
0:20:40.106858	LOG	PUSH_ACK: 02 19aa 01
0:20:40.110855	LOG	PUSH_DATA: Protocol version = 02, Token = 19aa, Identifier = 00, JSON = {'rxpk': [{'tmst': 690505871, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -2, 'size': 15, 'data': 'QCAgICCA/QABlNCC8ySv'}]}
0:20:40.111855	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00fd, FOpts:), FPort: 01, FRMPayload: 00e8, MIC: 82f324af)
0:20:40.112854	LOG	Server <---------- DUT
0:20:40.114853	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0448, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101

		'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YCAgICAASQTg56+Xy6svhfy1zTI8vds6n53t4BITKUMlrq0ZIsv44zZE8Rq0fL+mnAISXR8n8BBYJkW6x0newEteCjXIyI17IwgImAfB6XfYfZGObtFeM32GJXxUh/W4enUcrTom6I9wulKPO5PzSADMJ7FYae7d4hoIzE1qihc='}}
0:20:45.119366	LOG	Server ----------> DUT
0:20:45.123364	LOG	Send Test Command TxFramesCtrlReq process completed
0:20:45.133358	LOG	Send Test Command TxFramesCtrlReq process starts
0:20:50.113296	LOG	PUSH_ACK: 02 19ac 01
0:20:50.115294	LOG	PUSH_DATA: Protocol version = 02, Token = 19ac, Identifier = 00, JSON = {'rxpk': [{'tmst': 700511092, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -1, 'size': 15, 'data': 'QCAgICCA/wAB0oMrhC1f'}]}
0:20:50.117293	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 00ff, FOpts:), FPort: 01, FRMPayload: 00ea, MIC: 2b842d5f)
0:20:50.118294	LOG	Server <---------- DUT
0:20:50.120292	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 044a, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:20:55.128475	LOG	Server ----------> DUT
0:20:55.131474	LOG	Send Test Command TxFramesCtrlReq process completed
0:20:55.135473	LOG	Send Test Command TxFramesCtrlReq process starts
0:21:00.118720	LOG	PUSH_ACK: 02 19af 01
0:21:00.120701	LOG	PUSH_DATA: Protocol version = 02, Token = 19af, Identifier = 00, JSON = {'rxpk': [{'tmst': 710516349, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -4, 'size': 15, 'data': 'QCAgICCAAQEBhx5vaKML'}]}
0:21:00.122699	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0101, FOpts:), FPort: 01, FRMPayload: 00ec, MIC: 6f68a30b)
0:21:00.123718	LOG	Server <---------- DUT
0:21:00.126697	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 044c, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:21:10.125317	LOG	PUSH_DATA: Protocol version = 02, Token = 19b2, Identifier = 00, JSON = {'rxpk': [{'tmst': 720521583, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAAwEB2toSQaty'}]}
0:21:10.126317	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0103, FOpts:), FPort: 01, FRMPayload: 00ee, MIC: 1241ab72)
0:21:10.127321	LOG	Server <---------- DUT
0:21:10.129318	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 044e, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:21:20.130774	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0105, FOpts:), FPort: 01, FRMPayload: 00f0, MIC: ef677459)
0:21:20.132772	LOG	Server <---------- DUT
0:21:20.133771	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0450, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		07000101010101010101010

0:21:40.150903	LOG	PULL_RESP: Protocol version = 02, Token = 538e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 752537350, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 128, 'data': 'YCAgICAAVATgdv8/RVOcwYaSb1K4i/V0KxfYDrPVnwnhC75HFkkzwJkXDXnx2zBPgBpIptBUY1639n78ct50bmS8Mw9i4Y7TmP+ydMhYbhhC9fwae2hDUtk3DO4BV5pk7xTyR4dNxILPWwhexvx6sB5ND3DuV4u9bo6XUmwResk='}}
0:21:40.152902	LOG	Server ----------> DUT
0:21:40.158899	LOG	Send Test Command TxFramesCtrlReq process completed
0:21:40.162897	LOG	Send Test Command TxFramesCtrlReq process starts
0:21:43.509996	LOG	PULL_DATA: 02 ecc2 02 aa555a0000240409
0:21:43.511995	LOG	PULL_ACK: 02 ecc2 04
0:21:45.140071	LOG	PUSH_ACK: 02 19ba 01
0:21:45.142070	LOG	PUSH_DATA: Protocol version = 02, Token = 19ba, Identifier = 00, JSON = {'rxpk': [{'tmst': 755539952, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -1, 'size': 15, 'data': 'QCAgICCACgEBB7ClCFL+'}]}
0:21:45.145071	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 010a, FOpts:), FPort: 01, FRMPayload: 00f5, MIC: a50852fe)
0:21:45.148068	LOG	Server <---------- DUT
0:21:45.153065	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0455, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		2CloviI+KngGBSa4drfZnp8ffkiNU3n+aEcYmEsFZrweZlBRdp9mHUxk7sI+7xaI9QbqAhlosihNtgq48+8l/1GJurVFMXuOvjHqiA6+ytuv7g='}}
0:21:50.154996	LOG	Server ----------> DUT
0:21:50.158993	LOG	Send Test Command TxFramesCtrlReq process completed
0:21:50.161992	LOG	Send Test Command TxFramesCtrlReq process starts
0:21:53.720904	LOG	PULL_DATA: 02 ef6f 02 aa555a0000240409
0:21:53.722901	LOG	PULL_ACK: 02 ef6f 04
0:21:55.146093	LOG	PUSH_ACK: 02 19bd 01
0:21:55.148092	LOG	PUSH_DATA: Protocol version = 02, Token = 19bd, Identifier = 00, JSON = {'rxpk': [{'tmst': 765545171, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -1, 'size': 15, 'data': 'QCAgICCADAEB7rX8n8Yf'}]}
0:21:55.150091	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 010c, FOpts:), FPort: 01, FRMPayload: 00f7, MIC: fc9fc61f)
0:21:55.151091	LOG	Server <---------- DUT
0:21:55.152092	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0457, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010

0:22:00.172241	LOG	Send Test Command TxFramesCtrlReq process starts
0:22:03.730233	LOG	PULL_DATA: 02 7063 02 aa555a0000240409
0:22:03.732233	LOG	PULL_ACK: 02 7063 04
0:22:05.149396	LOG	PUSH_ACK: 02 19c0 01
0:22:05.151395	LOG	PUSH_DATA: Protocol version = 02, Token = 19c0, Identifier = 00, JSON = {'rxpk': [{'tmst': 775550408, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -1, 'size': 15, 'data': 'QCAgICCADgEBYqhx6lsu'}]}
0:22:05.152395	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 010e, FOpts:), FPort: 01, FRMPayload: 00f9, MIC: 71ea5b2e)
0:22:05.154394	LOG	Server <---------- DUT
0:22:05.156393	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0459, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:22:15.148809	LOG	RX Count received by DUT: 251
0:22:15.151807	LOG	Send Test Command RxAppCntReq process completed
0:22:15.158804	LOG	End Test Step: Test packet error rate for SF9BW125 using RX2 window
0:22:15.162801	LOG	Partial Verdict: PASS
0:22:15.166801	LOG	==========
0:22:15.171798	LOG	==========
0:22:15.173797	LOG	Start Test Step: Test packet error rate for SF8BW125 using RX2 window
0:22:15.186787	LOG	Send RXParamSetupReq process starts
0:22:20.124364	LOG	PUSH_ACK: 02 19c3 01
0:22:20.126362	LOG	PUSH_DATA: Protocol version = 02, Token = 19c3, Identifier = 00, JSON = {'rxpk': [{'tmst': 790558231, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAEQEBXdXiQ7yO'}]}
0:22:20.128362	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0111, FOpts:), FPort: 01, FRMPayload: 00fb, MIC: e243bc8e)
0:22:20.130361	LOG	Server <---------- DUT
0:22:20.135358	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 045b, FOpts:), FPort: 00, FRMPayload: 0504d2ad84), MIC: 75021bf0)
0:22:20.140326	LOG	PULL_RESP: Protocol version = 02, Token = 5ffe, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 792558231, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF9BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAWwQABWbZn2d1Ahvw'}}
0:22:20.142353	LOG	Server ----------> DUT
0:22:20.146351	LOG	TX_ACK: 02 5ffe 05 aa555a0000240409
0:22:24.129369	LOG	PULL_DATA: 02 7a73 02 aa555a0000240409
0:22:24.132368	LOG	PULL_ACK: 02 7a73 04
0:22:25.161784	LOG	PUSH_ACK: 02 19c4 01
0:22:25.163784	LOG	PUSH_DATA: Protocol version = 02, Token = 19c4, Identifier = 00, JSON = {'rxpk': [{'tmst': 795566000, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -2, 'size': 17, 'data': 'QCAgICCCEgEFBwGzlimeHrg='}]}
0:22:25.164783	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0112, FOpts: 0507), FPort: 01, FRMPayload: 00fb, MIC: 299e1eb8)
0:22:25.165783	LOG	Server <---------- DUT
0:22:25.167780	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:22:25.168780	LOG	Command Answer: 0507
0:22:25.183772	LOG	MAC command communication completed
0:22:25.194765	LOG	Send Test Command RxAppCntReq process starts
0:22:30.151013	LOG	PUSH_ACK: 02 19c5 01
0:22:30.153012	LOG	PUSH_DATA: Protocol version = 02, Token = 19c5, Identifier = 00, JSON = {'rxpk': [{'tmst': 800568616, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -3, 'size': 17, 'data': 'QCAgICCCEwEFBwHt/MjidXE='}]}
0:22:30.155011	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0113, FOpts: 0507), FPort: 01, FRMPayload: 00fb, MIC: c8e27571)
0:22:30.156010	LOG	Server <---------- DUT
0:22:30.158009	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 045c, FOpts:), FPort: e0, FRMPayload: 09), MIC: 046b9384)
0:22:30.161007	LOG	Frame command sent to the DUT
0:22:30.163006	LOG	PULL_RESP: Protocol version = 02, Token = eca4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 802568616, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAAXATgqwRrk4Q='}}
0:22:30.164006	LOG	Server ----------> DUT
0:22:30.167004	LOG	TX_ACK: 02 eca4 05 aa555a0000240409

0:22:34.149395	LOG	PULL_DATA: 02 f6c2 02 aa555a0000240409
0:22:34.152394	LOG	PULL_ACK: 02 f6c2 04
0:22:35.140832	LOG	PUSH_ACK: 02 19c7 01
0:22:35.143831	LOG	PUSH_DATA: Protocol version = 02, Token = 19c7, Identifier = 00, JSON = {'rxpk': [{'tmst': 805574168, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -3, 'size': 16, 'data': 'QCAgICCAFAHgLH9hs2SNgw==\'}]}
0:22:35.145830	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0114, FOpts:), FPort: e0, FRMPayload: 09fc00, MIC: b3648d83)
0:22:35.146829	LOG	Server <---------- DUT
0:22:35.148828	LOG	Answer in payload: fc00
0:22:35.149827	LOG	Frame Command Payload in the Answer: 09fc00
0:22:35.154824	LOG	RX Count received by DUT: 252
0:22:35.157823	LOG	Send Test Command RxAppCntReq process completed
0:22:35.160821	LOG	Send Test Command TxFramesCtrlReq process starts
0:22:40.130428	LOG	PUSH_ACK: 02 19c8 01
0:22:40.132423	LOG	PUSH_DATA: Protocol version = 02, Token = 19c8, Identifier = 00, JSON = {'rxpk': [{'tmst': 810568696, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': 0, 'size': 15, 'data': 'QCAgICCAFQEBtyJTPVrF'}]}
0:22:40.133421	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0115, FOpts:), FPort: 01, FRMPayload: 00fc, MIC: 533d5ac5)
0:22:40.134421	LOG	Server <---------- DUT
0:22:40.136420	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 045d, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:22:45.147719	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 045e, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:22:55.144494	LOG	PUSH_ACK: 02 19cb 01
0:22:55.146491	LOG	PUSH_DATA: Protocol version = 02, Token = 19cb, Identifier = 00, JSON = {'rxpk': [{'tmst': 825576574, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAGAEBIczr8/kn'}]}
0:22:55.148491	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0118, FOpts:), FPort: 01, FRMPayload: 00ff, MIC: ebf3f927)
0:22:55.150489	LOG	Server <---------- DUT
0:22:55.152488	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0460, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		wZzqJaly9/SO7ZKWH/i2BToVZhwNsmWyYpUVVnSI//dsPFIiNyl8ylhOxI525j7Sbhg3oqK4T1G7PYrSyZzGA5h0/eBdKhge7/LCNkSNZ1JNazk3XUAORTpyPD52F1ZayNSVMUC48qTPHp+gv9tLDN'}}
0:23:00.163679	LOG	Server ----------> DUT
0:23:00.168676	LOG	Send Test Command TxFramesCtrlReq process completed
0:23:00.172674	LOG	Send Test Command TxFramesCtrlReq process starts
0:23:04.570179	LOG	PULL_DATA: 02 340a 02 aa555a0000240409
0:23:04.572176	LOG	PULL_ACK: 02 340a 04
0:23:05.149848	LOG	PUSH_ACK: 02 19cf 01
0:23:05.152846	LOG	PUSH_DATA: Protocol version = 02, Token = 19cf, Identifier = 00, JSON = {'rxpk': [{'tmst': 835581824, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAGgEBNnP+j9ux'}]}
0:23:05.154846	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 011a, FOpts:), FPort: 01, FRMPayload: 0101, MIC: fe8fdbb1)
0:23:05.155845	LOG	Server <---------- DUT
0:23:05.158843	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0462, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		0101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 21366461)
0:23:10.161127	LOG	Frame command sent to the DUT
0:23:10.162126	LOG	PULL_RESP: Protocol version = 02, Token = 602d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 842584444, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAAYwTg54E26CHz/tF5w5pHd7xt74YyLUVzi72Zgy4D7LRd6UOeUI31NMIYlnpKCzZmEzVl5MpRT4b01F86e8dI6m1VvMQpNQpb+/EWwcmUkU8kJzYhnKYGqA30ev5c3QSS45x/9mn6O3/KD/NFb60KkY6ny50wutkR1eG39mn5OUf1bGaztA4itAVKB4ayRW3xOmp7sWH8j7hBqso86Uu5pa3ItEduz/aGoZ4iiR3IKF9luJGA8a2hWS8Ssx9wzXx01jjHu/zaw5e8/F9QR+3FHmJCrn47pk2KMtPIf7ra8evfhMW38LlzVllSinujQfGzjAt+3vEhNmRh'}}
0:23:10.164124	LOG	Server ----------> DUT
0:23:10.167121	LOG	Send Test Command TxFramesCtrlReq process completed
0:23:10.171119	LOG	Send Test Command TxFramesCtrlReq process starts
0:23:14.780236	LOG	PULL_DATA: 02 6839 02 aa555a0000240409
0:23:14.784234	LOG	PULL_ACK: 02 6839 04
0:23:15.156022	LOG	PUSH_ACK: 02 19d2 01
0:23:15.158021	LOG	PUSH_DATA: Protocol version = 02, Token = 19d2, Identifier = 00, JSON = {'rxpk': [{'tmst': 845587078, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -1, 'size': 15, 'data': 'QCAgICCAHAEBbihXARjT'}]}
0:23:15.160020	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 011c, FOpts:), FPort: 01, FRMPayload: 0103, MIC: 570118d3)
0:23:15.161020	LOG	Server <---------- DUT
0:23:15.163019	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0464, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101

0:23:20.163182	LOG	Server <---------- DUT
0:23:20.164181	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0465, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010

0:23:25.183165	LOG	Send Test Command TxFramesCtrlReq process starts
0:23:30.163488	LOG	PUSH_ACK: 02 19d5 01
0:23:30.165486	LOG	PUSH_DATA: Protocol version = 02, Token = 19d5, Identifier = 00, JSON = {'rxpk': [{'tmst': 860594964, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAHwEBjSncfbeL'}]}
0:23:30.167487	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 011f, FOpts:), FPort: 01, FRMPayload: 0106, MIC: dc7db78b)
0:23:30.168486	LOG	Server <---------- DUT
0:23:30.170484	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0467, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		'size': 255, 'data': 'YCAgICAAaATglAxvmaY3uiimZ/UpMRUH9SW/wzi0GuIeo55gLx/ahofT1zkHrV5q7kvrpEXwkCey/OydNQwdZJGPmi+aT3qG9vDHW0XzpD6aX1UDjmfWOm5asxDY8HTdkdjoXkC+O77LCaYMIrOsaL7Kd/aQ19JpPmue59ngCcP/zuO/Nmw/O1Ag5Occ0gsvnE8LYdJCpVeF+ozA1HG5DvxP8kMaTjuPkBOj85Y3DxAHZ2atQziqcabjq8HLqj4Kw/EjNa+/ULqzOfwtgB8Os2NCZcadpfDKQ13a3Qq1vNTf2Tas28POwG2zkroWXnWskf4qeLTprBYzVtFfUruM'}}
0:23:35.180440	LOG	Server ----------> DUT
0:23:35.185437	LOG	Send Test Command TxFramesCtrlReq process completed
0:23:35.193433	LOG	Send Test Command TxFramesCtrlReq process starts
0:23:40.167737	LOG	PUSH_ACK: 02 19d8 01
0:23:40.170736	LOG	PUSH_DATA: Protocol version = 02, Token = 19d8, Identifier = 00, JSON = {'rxpk': [{'tmst': 870600206, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAIQEBFr9gjWbN'}]}
0:23:40.172735	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0121, FOpts:), FPort: 01, FRMPayload: 0108, MIC: 608d66cd)
0:23:40.174733	LOG	Server <---------- DUT
0:23:40.177732	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0469, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 7e726b41)
0:23:45.181503	LOG	Frame command sent to the DUT
0:23:45.182503	LOG	PULL_RESP: Protocol version = 02, Token = 0397, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 877602825, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAAagTgoorhYkuWE9mDU35H9CBKUaS+hdAy9ciNmXEkPA7dPSrrh+arI4+5c+V6MhzDQjfUvNpw/KBf1e8B9VI4fGlDA9uU7TkhIE67/kHnQ8TzZXx4nI1XFSjofQ5Li+TM8wD5yS/gFpu2AD8UD8c4cOpPFbVueCTrCwMKRsSQP81Ot8rhoqbjPVVlOLZDMB0vWuxNspu9tABB37reMA7JQG4uCsR3TBUG3kXFGa3n2N/qMB5cqoxOhgUw48vwnCKuNciNhDLDOVqtXV3SIAaK+SsFjGaRRmGoSFh/xb+sXMHwtoX5ug3GYUgpXYtv6Ltv8+OfjE9+cmtB'}}
0:23:45.183503	LOG	Server ----------> DUT
0:23:45.187499	LOG	Send Test Command TxFramesCtrlReq process completed
0:23:45.190498	LOG	Send Test Command TxFramesCtrlReq process starts
0:23:50.174458	LOG	PUSH_ACK: 02 19db 01
0:23:50.176456	LOG	PUSH_DATA: Protocol version = 02, Token = 19db, Identifier = 00, JSON = {'rxpk': [{'tmst': 880605420, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAIwEBjxKBBQJt'}]}
0:23:50.178455	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0123, FOpts:), FPort: 01, FRMPayload: 010a, MIC: 8105026d)
0:23:50.180454	LOG	Server <---------- DUT
0:23:50.182453	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 046b, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: f7f85c26)
0:23:50.184452	LOG	Frame command sent to the DUT
0:23:50.186451	LOG	PULL_RESP: Protocol version = 02, Token = 81cb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 882605420, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAAawTgV0TNn0S464vf4EmWDyFDhxGNaLKEgCUXQFQPxlQRwj55jZn8tbuTnfLl/2BXvS+K0qyIfP3fYotmrjHoasPpF/e17bVS0NyVLwzcMWuOKGjkNUm/ppJLmUaLQI1B1c/BMZXnOG6PrGHOhfiuhJZqYQOsNTu8KXIP7m9yWZQqXXJ9ckl2ajaeyAUqKcuz0U0QH7dPHlV9fRopvDCpRt6piIRCmCsgHbA0KtIwWqpPwm1cv5I6GER59zAXsvMkukmUJOXmDY5+B+rJFqGS2aVqj06eyMfIbTg/p7QD1u/mzeToWol6l61WwHYbDXdkD1CYiR73+Fwm'}}
0:23:50.187450	LOG	Server ----------> DUT
0:23:50.191448	LOG	Send Test Command TxFramesCtrlReq process completed
0:23:50.195445	LOG	Send Test Command TxFramesCtrlReq process starts
0:23:55.019706	LOG	PULL_DATA: 02 415d 02 aa555a0000240409
0:23:55.021706	LOG	PULL_ACK: 02 415d 04
0:23:55.175618	LOG	PUSH_ACK: 02 19dc 01
0:23:55.177618	LOG	PUSH_DATA: Protocol version = 02, Token = 19dc, Identifier = 00, JSON = {'rxpk': [{'tmst': 885608038, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAJAEBv/NgG0XJ'}]}
0:23:55.179616	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0124, FOpts:), FPort: 01, FRMPayload: 010b, MIC: 601b45c9)
0:23:55.180615	LOG	Server <---------- DUT
0:23:55.182615	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 046c, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:24:00.190589	LOG	Server ----------> DUT
0:24:00.193587	LOG	Send Test Command TxFramesCtrlReq process completed
0:24:00.196587	LOG	Send Test Command TxFramesCtrlReq process starts
0:24:05.181836	LOG	PUSH_ACK: 02 19df 01
0:24:05.184834	LOG	PUSH_DATA: Protocol version = 02, Token = 19df, Identifier = 00, JSON = {'rxpk': [{'tmst': 895613305, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAJgEBqPRgLpfC'}]}
0:24:05.185833	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0126, FOpts:), FPort: 01, FRMPayload: 010d, MIC: 602e97c2)
0:24:05.187832	LOG	Server <---------- DUT
0:24:05.189831	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 046e, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		'size': 255, 'data': 'YCAgICAAbwTgolA2gmNLrEnFYTgqktyCBi0++UpG0O8sBSUF/abTJsITemRigxhHAPo8vEABylo+f+BIQ7+c6PK7yw3XtcozQ+qZL75tjY8r03TOsgmOOx9ytlEh0OGZ45KONrJmaUKSTO1xjVuPAAmK4mnxoco1Niab1k2xX7tqvKlah/8IQ2zytd069yszK74LzO6W5dRvjl0pvI60OfiTTRM/AtLDhIyqODnk5nTTJ1XnruNj0p1k7JMgJLHRXic7CDcSCby8SYb+X3aypEC9El7c07sVkAufEDQx/TAp5KOBRm2DHbgz4pUVGYDHaRM7ckoIiT2ZW//rT/n8'}}
0:24:10.196988	LOG	Server ----------> DUT
0:24:10.200986	LOG	Send Test Command TxFramesCtrlReq process completed
0:24:10.204983	LOG	Send Test Command TxFramesCtrlReq process starts
0:24:15.186500	LOG	PUSH_ACK: 02 19e1 01
0:24:15.191497	LOG	PUSH_DATA: Protocol version = 02, Token = 19e1, Identifier = 00, JSON = {'rxpk': [{'tmst': 905618541, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAKAEBdsvlhzVO'}]}
0:24:15.193496	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0128, FOpts:), FPort: 01, FRMPayload: 010f, MIC: e587354e)
0:24:15.195495	LOG	Server <---------- DUT
0:24:15.197494	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0470, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		0101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 1f3ec698)
0:24:20.199068	LOG	Frame command sent to the DUT
0:24:20.201067	LOG	PULL_RESP: Protocol version = 02, Token = 814f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 912621168, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAAcQTgO6XSPhGQOU2LlZSBRrzQ2pAFe6i78mazpbmRCxyta3jRnq+cYGmnY4qd8B5LtgJpANCSv80BCqdpoifIOu3rcU80xUCnPNbFCf+N94jXZIBdCN/30aHEZ53rGU131rK3gnjDQ5DrATF70owOt6zhHbJ+KN/oj2/XahX0QWdXx1Xu674zm/dMdhSjtVFEYPiMZ9ydNQPbBVZ3Um5tkHXAbKWrN9kVG5lsYQg8cghdfzcGtQIhca65MFuhfEg2dV7M93gUfwub6bcHlNqC0xV/NwXM7zykAwmsJ9bx4K3grCwiyu+CoC/2B3CeVJjmNruueNMfPsaY'}}
0:24:20.202066	LOG	Server ----------> DUT
0:24:20.207063	LOG	Send Test Command TxFramesCtrlReq process completed
0:24:20.212061	LOG	Send Test Command TxFramesCtrlReq process starts
0:24:25.192233	LOG	PUSH_ACK: 02 19e3 01
0:24:25.194234	LOG	PUSH_DATA: Protocol version = 02, Token = 19e3, Identifier = 00, JSON = {'rxpk': [{'tmst': 915623768, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAKgEB36D/dwBm'}]}
0:24:25.195232	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 012a, FOpts:), FPort: 01, FRMPayload: 0111, MIC: ff770066)
0:24:25.196232	LOG	Server <---------- DUT
0:24:25.198230	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0472, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101

0:24:30.202390	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0473, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:24:40.201712	LOG	PUSH_DATA: Protocol version = 02, Token = 19e7, Identifier = 00, JSON = {'rxpk': [{'tmst': 930631639, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -1, 'size': 15, 'data': 'QCAgICCALQEBOdxP16BY'}]}
0:24:40.203711	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 012d, FOpts:), FPort: 01, FRMPayload: 0114, MIC: 4fd7a058)
0:24:40.205710	LOG	Server <---------- DUT
0:24:40.207709	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0475, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		hslKLQoiG2dnjURA1d/AzBkhIMEAshRtesWE6metwbhHcuwym6hrerUGM5g13IvLr/eFfURMhObQaTU394rcz2/63T7FxK7zcnjG2K'}}
0:24:45.217864	LOG	Server ----------> DUT
0:24:45.220862	LOG	Send Test Command TxFramesCtrlReq process completed
0:24:45.223861	LOG	Send Test Command TxFramesCtrlReq process starts
0:24:50.204065	LOG	PUSH_ACK: 02 19e9 01
0:24:50.207063	LOG	PUSH_DATA: Protocol version = 02, Token = 19e9, Identifier = 00, JSON = {'rxpk': [{'tmst': 940636892, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -1, 'size': 15, 'data': 'QCAgICCALwEBKcv4CEnK'}]}
0:24:50.208061	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 012f, FOpts:), FPort: 01, FRMPayload: 0116, MIC: f80849ca)
0:24:50.210061	LOG	Server <---------- DUT
0:24:50.213027	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0477, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:24:55.219265	LOG	PULL_RESP: Protocol version = 02, Token = cd4b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 947639509, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAAeATg0ZeEg0ZIGKsZ97nzr0GPueQbSNabYhXm8JtonvFsRDwVN5PZ/9eLmzzUQ8bz/d+eIRRE84FG9sp4VYf7vNp/xB9aIIWJPQP14UIgZMOCN26AMZ9bxyleaBy+6PMI6zzPDJY1eHiuONkabjszylWhEzKtP05vWJwgnl9vBRVzr1yEII7Om3ELIQRn6ZMNaCixrT8Qz8HvdilCSdvoIMQDhkNZE30vwwaUvcJqV+aUwhemoYygZP1r5uKDTQIFLJBd0bKrOehuaI0QQaUaPh5HY7kIPYUe7BXnurY6d+oQPHMaLJQ8UbAht79rBDd8+Z2oOJH4S7c8'}}
0:24:55.221264	LOG	Server ----------> DUT
0:24:55.224261	LOG	Send Test Command TxFramesCtrlReq process completed
0:24:55.227260	LOG	Send Test Command TxFramesCtrlReq process starts
0:25:00.210430	LOG	PUSH_ACK: 02 19eb 01
0:25:00.212428	LOG	PUSH_DATA: Protocol version = 02, Token = 19eb, Identifier = 00, JSON = {'rxpk': [{'tmst': 950642141, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAMQEBpsTWopaf'}]}
0:25:00.213427	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0131, FOpts:), FPort: 01, FRMPayload: 0118, MIC: d6a2969f)
0:25:00.215426	LOG	Server <---------- DUT
0:25:00.217425	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0479, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 65495957)
0:25:05.222485	LOG	Frame command sent to the DUT
0:25:05.223485	LOG	PULL_RESP: Protocol version = 02, Token = eb3c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 957644752, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAAegTgaUciy1Qw7IbPhhUW2HIqJcYbx4ZP0ce9IJ3Xw/aA0LgRwdp1ddirpz9YNzUMDgzyR4aJqiXLCpKOWDUy7mHap/eypZVfsGuEQNSZMilhAAjV8bKaz+VerU8728mz9S16EEHCXXNPYCl7P+jN/qfruM151K1qBytM19wic3FIfqEkXXiadlCPhUUWKHp66YDomR/5WM+2tzweGnZYl2wNjGTqKrdOz2zRKm9Pqsrnr3qIadjmWrA5XmIC8hAD3wRj8bGRf3gszMu0S6/qmVS5HCfuNbh0NYd/npK/k7VyTWH3BfCaYxoUInTxBtT48YNad+JlSVlX'}}
0:25:05.225484	LOG	Server ----------> DUT
0:25:05.229482	LOG	Send Test Command TxFramesCtrlReq process completed
0:25:05.233479	LOG	Send Test Command TxFramesCtrlReq process starts
0:25:10.215650	LOG	PUSH_ACK: 02 19ee 01
0:25:10.218649	LOG	PUSH_DATA: Protocol version = 02, Token = 19ee, Identifier = 00, JSON = {'rxpk': [{'tmst': 960647370, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -1, 'size': 15, 'data': 'QCAgICCAMwEB8Dpci5YC'}]}
0:25:10.219648	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0133, FOpts:), FPort: 01, FRMPayload: 011a, MIC: 5c8b9602)
0:25:10.221647	LOG	Server <---------- DUT
0:25:10.223646	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 047b, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 2ace8adf)
0:25:10.226644	LOG	Frame command sent to the DUT
0:25:10.227644	LOG	PULL_RESP: Protocol version = 02, Token = 19ee, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 962647370, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAAewTgv5or+la0ih8Zgi+pf8JOV3WiMnfDUH+vvs9m5ZP2ZhT/Ol/qWWFW6p0Md7uig1noBvbTmIsGR/tj2Jbgqqlynv9TTwHZ5xtVCT4iYFmSFj8gSKM9XKtpgrJDyZF8Y6y1ptRmCPF/r8EVlXpkMkCuCn0dYHyCn37e3DFu+v7P3Key/bQdrgP+/Jn4BiNWw22ygtDM+H3M/V2MAh3uU+nir9f2CpUqabtjTB0wSDf7x2/TpBzx3SmtqIPawCKx5JH1e4axZdJNVY7IAU8ZZOLw5GEgJ6nYk8YGp7SuFqLmt26pebWbW93qevMUlclmUloAa8wqzorf'}}
0:25:10.229644	LOG	Server ----------> DUT
0:25:10.233640	LOG	Send Test Command TxFramesCtrlReq process completed
0:25:10.236638	LOG	Send Test Command TxFramesCtrlReq process starts
0:25:15.217592	LOG	PUSH_ACK: 02 19ef 01
0:25:15.221589	LOG	PUSH_DATA: Protocol version = 02, Token = 19ef, Identifier = 00, JSON = {'rxpk': [{'tmst': 965649980, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCANAEBG3Q4Nwgn'}]}
0:25:15.223588	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0134, FOpts:), FPort: 01, FRMPayload: 011b, MIC: 38370827)

0:25:15.224588	LOG	Server <---------- DUT
0:25:15.227586	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 047c, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:25:25.225949	LOG	PUSH_DATA: Protocol version = 02, Token = 19f1, Identifier = 00, JSON = {'rxpk': [{'tmst': 975655215, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCANgEBKjiOgUIn'}]}
0:25:25.229946	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0136, FOpts:), FPort: 01, FRMPayload: 011d, MIC: 8e814227)
0:25:25.234944	LOG	Server <---------- DUT
0:25:25.238942	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 047e, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		kAR/WmHnUlrVKp7/65B4yg9eOtXybFCyngZicsljwvZ4PodPhlJvsDNLxcjB1xOvdKZtJYTOkSeLQvEqkNh5fB/fFUgSQGEA/'}}
0:25:30.239101	LOG	Server ----------> DUT
0:25:30.242099	LOG	Send Test Command TxFramesCtrlReq process completed
0:25:30.246097	LOG	Send Test Command TxFramesCtrlReq process starts
0:25:35.228287	LOG	PUSH_ACK: 02 19f4 01
0:25:35.230266	LOG	PUSH_DATA: Protocol version = 02, Token = 19f4, Identifier = 00, JSON = {'rxpk': [{'tmst': 985660457, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': 0, 'size': 15, 'data': 'QCAgICCAOAEBkWgow3Rl'}]}
0:25:35.232266	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0138, FOpts:), FPort: 01, FRMPayload: 011f, MIC: 28c37465)
0:25:35.233265	LOG	Server <---------- DUT
0:25:35.235264	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0480, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:25:40.254676	LOG	Frame command sent to the DUT
0:25:40.255676	LOG	PULL_RESP: Protocol version = 02, Token = c7f3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 992663067, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAAgQTgXNlCB1fpU+/yetpUrvDwqRg9evJ2D321bfmTn0eNtt7xSIt5XMPXWj1+5A1psk/2XC5zdhCpaHq8mhOQBDvwXHfYQNLOx0jq6s+wBepjSZRdQTd+wuGXKA1eiPJP36W9VpP2Ax68l1zOJvs/JzCLJTRuESzBXItMzQX0Ahk6y0TqMiHK3ibogDJkTAZIw42ZtxiOo2ELJv3gI4Pp9y7oFS9zMK9dUuzmK1mh9q2bxXIUp3bEhotdO1o7KVB3YBWc0kyVBO0RiAUWYoJGjx0+9STktyQXS3QfC15IpJhoLe5vYodqFp/fY06+fn/nmsZiQ/HagonX'}}
0:25:40.257677	LOG	Server ----------> DUT
0:25:40.260674	LOG	Send Test Command TxFramesCtrlReq process completed
0:25:40.264671	LOG	Send Test Command TxFramesCtrlReq process starts
0:25:45.234118	LOG	PUSH_ACK: 02 19f6 01
0:25:45.240115	LOG	PUSH_DATA: Protocol version = 02, Token = 19f6, Identifier = 00, JSON = {'rxpk': [{'tmst': 995665662, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAOgEBiTnRTI9H'}]}
0:25:45.242114	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 013a, FOpts:), FPort: 01, FRMPayload: 0121, MIC: d14c8f47)
0:25:45.243113	LOG	Server <---------- DUT
0:25:45.245112	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0482, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:25:50.243566	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0483, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:26:00.240664	LOG	PUSH_ACK: 02 19f9 01
0:26:00.242663	LOG	PUSH_DATA: Protocol version = 02, Token = 19f9, Identifier = 00, JSON = {'rxpk': [{'tmst': 1010673523, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAPQEBEhaCoHbN'}]}
0:26:00.244661	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 013d, FOpts:), FPort: 01, FRMPayload: 0124, MIC: 82a076cd)
0:26:00.246660	LOG	Server <---------- DUT
0:26:00.249658	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0485, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		MiVzSZF2NiPWEaMOl+8j8uL+6miLrEM/S2GatbWokApo3keT1E+9u4npb0AOJ+VnVZE//Tc2xa80GEk+RxqLr6RvTaAK7uqKfDNIsUZsYgAyKnDcIe0W9qjfLgYzFhn/r57a2fgYdwCuCOCTje2rI1D9m'}}
0:26:05.259588	LOG	Server ----------> DUT
0:26:05.265584	LOG	Send Test Command TxFramesCtrlReq process completed
0:26:05.270582	LOG	Send Test Command TxFramesCtrlReq process starts
0:26:05.678781	LOG	PULL_DATA: 02 cedf 02 aa555a0000240409
0:26:05.680763	LOG	PULL_ACK: 02 cedf 04
0:26:10.248171	LOG	PUSH_ACK: 02 19fc 01
0:26:10.249171	LOG	PUSH_DATA: Protocol version = 02, Token = 19fc, Identifier = 00, JSON = {'rxpk': [{'tmst': 1020678764, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': 0, 'size': 15, 'data': 'QCAgICCAPwEBkgYaFGv3'}]}
0:26:10.251169	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 013f, FOpts:), FPort: 01, FRMPayload: 0126, MIC: 1a146bf7)
0:26:10.252169	LOG	Server <---------- DUT
0:26:10.255165	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0487, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		0101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 9f76e6fa)
0:26:15.419235	LOG	Frame command sent to the DUT
0:26:15.421232	LOG	PULL_RESP: Protocol version = 02, Token = bc1b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1027681389, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAAiATgRiTy5yb2vtEn3hkgzru3e1uVt/Z1fVS8zslOBuCw3PsFQXJWo7m+34VCgCmfUOzrugKPSmPgsTHQMgBzYb4knII8NEdK7HXAxdr+sV71z3eHLlc5mczDS0lfVztOEKE/+2B3fs2XZYr4m0odymE8+D8vwxewUCsxBfhw8rkYpE2MYzeOVcjfOgjvMd9pkyrmlWXiEx16q56m5c3FFZY4w6Nvn9wfBYSM5GFN0P4DdwMvR+eI3Qk1IIqZd7pa3EQTQ6aWgg9ClFEyVFaCL3o92KSqGLoZHA873P+cXv3uNyzSgzCtS+KLWVkwIPCuIUS1SMafdub6'}}
0:26:15.422232	LOG	Server ----------> DUT
0:26:15.425230	LOG	Send Test Command TxFramesCtrlReq process completed
0:26:15.429245	LOG	Send Test Command TxFramesCtrlReq process starts
0:26:15.838502	LOG	PULL_DATA: 02 b016 02 aa555a0000240409
0:26:15.840501	LOG	PULL_ACK: 02 b016 04
0:26:20.252804	LOG	PUSH_ACK: 02 19ff 01
0:26:20.254803	LOG	PUSH_DATA: Protocol version = 02, Token = 19ff, Identifier = 00, JSON = {'rxpk': [{'tmst': 1030684024, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAQQEByNaorbI1'}]}
0:26:20.256803	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0141, FOpts:), FPort: 01, FRMPayload: 0128, MIC: a8adb235)
0:26:20.258800	LOG	Server <---------- DUT
0:26:20.260799	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0489, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101

0:26:25.262027	LOG	Server <---------- DUT
0:26:25.265024	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 048a, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:26:30.421094	LOG	Send Test Command TxFramesCtrlReq process starts
0:26:35.259410	LOG	PUSH_ACK: 02 1a03 01
0:26:35.261409	LOG	PUSH_DATA: Protocol version = 02, Token = 1a03, Identifier = 00, JSON = {'rxpk': [{'tmst': 1045691852, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCARAEB9cK0vO6q'}]}
0:26:35.263408	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0144, FOpts:), FPort: 01, FRMPayload: 012b, MIC: b4bceeaa)
0:26:35.264407	LOG	Server <---------- DUT
0:26:35.267406	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 048c, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		'size': 255, 'data': 'YCAgICAAjQTg7/mXvD4S4XoVIs7Bajx2O1UHwPmN+FERXCrVMcOsOwwy8GIwazbCcYYJxQlMAvAfrpmk3jtzktol2VrtVNRxAQxP2P3+p1MMkkON9LME/nHGcRDjt8WeCrnCLxR/GurxJSYZ/V2cZnaOrqhW2j84/xDD+Z0iDPXxmw464uiUTI3+4Aj01g0TSsoPssTW7OcdIqgnJft8vLl4gLunuXkaVFkLGbIRzL6buEs39HikG/JwUEOtjbT9YskQBDO0xyi2D6BxLQMVooXKML5QYLB0a5Zd6uDg5aMj0BOE6so5wzQXoac8PW5hVsODhJCXo5pG8i/T1oDq'}}
0:26:40.275257	LOG	Server ----------> DUT
0:26:40.278255	LOG	Send Test Command TxFramesCtrlReq process completed
0:26:40.282253	LOG	Send Test Command TxFramesCtrlReq process starts
0:26:45.264749	LOG	PUSH_ACK: 02 1a05 01
0:26:45.270746	LOG	PUSH_DATA: Protocol version = 02, Token = 1a05, Identifier = 00, JSON = {'rxpk': [{'tmst': 1055697104, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCARgEBc401gPEU'}]}
0:26:45.272745	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0146, FOpts:), FPort: 01, FRMPayload: 012d, MIC: 3580f114)
0:26:45.273744	LOG	Server <---------- DUT
0:26:45.276743	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 048e, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 2867c82e)
0:26:50.276904	LOG	Frame command sent to the DUT
0:26:50.277905	LOG	PULL_RESP: Protocol version = 02, Token = d7e7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1062699730, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAAjwTg7G2bTiIRIeucWFRuI6eVpc3UshFs8IYAKnVmaomkXgxQZic7MNo8/LJr06oJRN1+iiMcWw4qlwtcZJo+l4mpXrEnBWV9K+WBt88S5zoEKXdsM7pGfzcJxt1/E2in0BSJommQ770C6Gsv8DnrO1uG0DDFwt0WDl+yXSuiyY0CugViym0zFb5yN4RD7LYrfl8tJJw1Jv0W5AoYiD6cJu+WHV+NKzp3CbuJHHvGLa1B6qMTLAl801XWkLn1ACoRGkVQR5MbwKWN3OWzAPFHWTFIgEBXYrYX/GOi83Fb8vogQwYpvZy3JsEeJ1GLJpi/0HJqanMoZ8gu'}}
0:26:50.279902	LOG	Server ----------> DUT
0:26:50.282900	LOG	Send Test Command TxFramesCtrlReq process completed
0:26:50.286898	LOG	Send Test Command TxFramesCtrlReq process starts
0:26:55.269070	LOG	PUSH_ACK: 02 1a07 01
0:26:55.272068	LOG	PUSH_DATA: Protocol version = 02, Token = 1a07, Identifier = 00, JSON = {'rxpk': [{'tmst': 1065702380, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCASAEBTgtbzmCN'}]}
0:26:55.274067	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0148, FOpts:), FPort: 01, FRMPayload: 012f, MIC: 5bce608d)
0:26:55.275066	LOG	Server <---------- DUT
0:26:55.278065	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0490, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 9985a20e)
0:26:55.280064	LOG	Frame command sent to the DUT
0:26:55.282062	LOG	PULL_RESP: Protocol version = 02, Token = 0dc0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1067702380, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAAkATg/NqSHDDkd8roqVtlI9EICR6Yyd7ht3ONlPT+kn4xSU/cnqyqe2AtvcpOoD3zODDUeByN3jj0UvIg2Ehl4JkYF8QfXtsoyqAwTMajT9/24CJm0y2dYjli8tUuwakCDR+Dx6gjnRgBySq4d0mL+B3iw2HJC6DfM5FBTiZvb73G96up5WB5FM/JqzNFT7fHLogOZDPT4cudMU8jV/agSCUy1Z/WBdfOpGZbsGdzsHiliZd/tb5jJxCnpw9AEe7SDevp8t2GnubEW1CVutGgEfGTTVrZCU3Ot4+3Z+mDr3LypoGdJlze+u05gtRznyZ5omJKQtuZhaIO'}}
0:26:55.284061	LOG	Server ----------> DUT
0:26:55.311046	LOG	Send Test Command TxFramesCtrlReq process completed
0:26:55.315044	LOG	Send Test Command TxFramesCtrlReq process starts
0:26:56.148529	LOG	PULL_DATA: 02 9e48 02 aa555a0000240409
0:26:56.150557	LOG	PULL_ACK: 02 9e48 04
0:27:00.273272	LOG	PUSH_ACK: 02 1a08 01
0:27:00.275270	LOG	PUSH_DATA: Protocol version = 02, Token = 1a08, Identifier = 00, JSON = {'rxpk': [{'tmst': 1070705017, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -2, 'size': 15, 'data': 'QCAgICCASQEBDjk62HA9'}]}
0:27:00.276270	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0149, FOpts:), FPort: 01, FRMPayload: 0130, MIC: 3ad8703d)
0:27:00.278269	LOG	Server <---------- DUT
0:27:00.280268	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0491, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:27:05.291024	LOG	Server ----------> DUT
0:27:05.300991	LOG	Send Test Command TxFramesCtrlReq process completed
0:27:05.304989	LOG	Send Test Command TxFramesCtrlReq process starts
0:27:06.348783	LOG	PULL_DATA: 02 ea56 02 aa555a0000240409
0:27:06.350782	LOG	PULL_ACK: 02 ea56 04
0:27:10.276455	LOG	PUSH_ACK: 02 1a0b 01
0:27:11.708623	LOG	PUSH_DATA: Protocol version = 02, Token = 1a0b, Identifier = 00, JSON = {'rxpk': [{'tmst': 1080710292, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -4, 'size': 15, 'data': 'QCAgICCASwEBIE8QdTjH'}]}
0:27:11.710623	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 014b, FOpts:), FPort: 01, FRMPayload: 0132, MIC: 107538c7)
0:27:11.711621	LOG	Server <---------- DUT
0:27:11.713622	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0493, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:27:15.844983	LOG	PULL_RESP: Protocol version = 02, Token = f507, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1087712910, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAAlATgiFkUND6JAd3AI3Kf1ytsWmrYP/P45gMR4rbUtdR+yooKo4IUJqeVErHn7i/VLvzfmjfKkQFYHYBV4zBTgHNum/LMe4u8dABp9RMcGXmhV/XIN6yEfCDCWW/pU+LBZuwDq9XvhzVgSLLnXW2+Ipq9bUkqHs6AkoRjrENOPPBhlABdV5v6yjw2CDykA3+zlWTwtJBl8QXx2wXrgWwJguN35DGmWBQxNDDd5WH8hUnruCDomnhUcyI3+Y4k0MC7YqStXMBaeDcMiE18REbcr4cbcppLqzfK8mokfuX6ze6i6Fm3/hUXZdV7GQyTv8yOW8F0yA1tUj0T'}}
0:27:15.845981	LOG	Server ----------> DUT
0:27:15.851984	LOG	Send Test Command TxFramesCtrlReq process completed
0:27:15.861971	LOG	Send Test Command TxFramesCtrlReq process starts
0:27:16.478596	LOG	PULL_DATA: 02 c480 02 aa555a0000240409
0:27:16.482590	LOG	PULL_ACK: 02 c480 04
0:27:20.284431	LOG	PUSH_ACK: 02 1a0d 01
0:27:20.286429	LOG	PUSH_DATA: Protocol version = 02, Token = 1a0d, Identifier = 00, JSON = {'rxpk': [{'tmst': 1090715534, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -3, 'size': 15, 'data': 'QCAgICCATQEB/XDFPNkU'}]}
0:27:20.287429	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 014d, FOpts:), FPort: 01, FRMPayload: 0134, MIC: c53cd914)
0:27:20.289428	LOG	Server <---------- DUT
0:27:20.291427	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0495, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010

		0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101) , MIC: 3dd14ca0)
0:27:25.297620	LOG	Frame command sent to the DUT
0:27:25.299619	LOG	PULL_RESP: Protocol version = 02, Token = cc7f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1097718168, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAAlgTgmeF2xRbWyTjB/MSl6S3ORvGA0qgxVCZsE6yT7Xg58avYxPNU5W1/G7Vj7bs8D0j+PX5Ihgatg8kQuZxmpk5Z3aasgMJPWX+YCNzwVKWfEQMG65dQ+4BNLfiEPbTRZAzT3IIrXw4uDelt80lrTpfgFGxKwpKyX/tyT8kBoLlvfWc6lo7i1lOGXEVsTklTDGgN+rgrCEjrkZPMCP+zqXiOvmXCuNaq8r1EpURS3yCQy+mdGkIy3QUsqZAp0nMb1U+92ef2cmngGJXweWmgUzpU6Ti4qfpR4XkI9XfsqMXLvouTTcGaacZBbXkIMFYH6noynws90Uyg'}}
0:27:25.301619	LOG	Server ----------> DUT
0:27:25.304616	LOG	Send Test Command TxFramesCtrlReq process completed
0:27:25.308614	LOG	Send Test Command TxFramesCtrlReq process starts
0:27:26.558326	LOG	PULL_DATA: 02 c3bd 02 aa555a0000240409
0:27:26.560328	LOG	PULL_ACK: 02 c3bd 04
0:27:30.290261	LOG	PUSH_ACK: 02 1a0f 01
0:27:30.311247	LOG	PUSH_DATA: Protocol version = 02, Token = 1a0f, Identifier = 00, JSON = {'rxpk': [{'tmst': 1100720818, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -2, 'size': 15, 'data': 'QCAgICCATwEBWTxn5KEB'}]}
0:27:30.313246	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 014f, FOpts:), FPort: 01, FRMPayload: 0136, MIC: 67e4a101)
0:27:30.315245	LOG	Server <---------- DUT
0:27:30.317244	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0497, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101) , MIC: 79159340)
0:27:30.320242	LOG	Frame command sent to the DUT
0:27:30.321243	LOG	PULL_RESP: Protocol version = 02, Token = 66dd, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1102720818, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAAlwTgK50Huwz/5kZm21alUYWg22X2bU02tkXkZ33mOj9lTdN9yJHggpdqJ8U/LfjBpzO8OLnI4L8g7pHU7hIPE7mjq1NNjU5uL42qbQ4HZWiQxHcMh9UTt4b15k/j1h+3MudpXfpMy3MvSblpDhukYs8dn+msR3hNqzrRQY3s7BUgfLrkzORhHr8dK4itLOZjRJgOHTI28TPp93QClNpFBIWUiz+AC7yjn+4DbQWCimI6aUbPOvY3r2u+HQo+fx0vDSruigybZoSYo0Kr9xG2ry4dQiY14LvVp5RzJzly1eZXmXsdGfAdTu0We2nZ+VtNaPf2PwN5FZNA'}}
0:27:30.322242	LOG	Server ----------> DUT
0:27:30.325241	LOG	Send Test Command TxFramesCtrlReq process completed
0:27:30.329247	LOG	Send Test Command TxFramesCtrlReq process starts
0:27:35.291558	LOG	PUSH_ACK: 02 1a11 01

0:27:35.294556	LOG	PUSH_DATA: Protocol version = 02, Token = 1a11, Identifier = 00, JSON = {'rxpk': [{'tmst': 1105723419, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAUAEB5S0qY4h1'}]}
0:27:35.296555	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0150, FOpts:), FPort: 01, FRMPayload: 0137, MIC: 2a638875)
0:27:35.297554	LOG	Server <---------- DUT
0:27:35.300553	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0498, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010

0:27:45.307998	LOG	Server <---------- DUT
0:27:45.309996	LOG	Answer in payload: 3901
0:27:45.311996	LOG	Frame Command Payload in the Answer: 093901
0:27:45.316994	LOG	RX Count received by DUT: 313
0:27:45.319991	LOG	Send Test Command RxAppCntReq process completed
0:27:45.327986	LOG	End Test Step: Test packet error rate for SF8BW125 using RX2 window
0:27:45.332984	LOG	Partial Verdict: PASS
0:27:45.338980	LOG	==========
0:27:45.345976	LOG	==========
0:27:45.348974	LOG	Start Test Step: Test packet error rate for SF7BW125 using RX2 window
0:27:45.360969	LOG	Send RXParamSetupReq process starts
0:27:46.608670	LOG	PULL_DATA: 02 ac64 02 aa555a0000240409
0:27:46.610669	LOG	PULL_ACK: 02 ac64 04
0:27:50.292583	LOG	PUSH_ACK: 02 1a14 01
0:27:50.295581	LOG	PUSH_DATA: Protocol version = 02, Token = 1a14, Identifier = 00, JSON = {'rxpk': [{'tmst': 1120731273, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAUwEBJiwwYluc'}]}
0:27:50.296581	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0153, FOpts:), FPort: 01, FRMPayload: 0139, MIC: 30625b9c)
0:27:50.298579	LOG	Server <---------- DUT
0:27:50.299575	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 049a, FOpts:), FPort: 00, FRMPayload: 0505d2ad84), MIC: 9e085cd7)
0:27:50.301575	LOG	PULL_RESP: Protocol version = 02, Token = 1045, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1122731273, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAmgQABiD6RxOeCFzX'}}
0:27:50.303574	LOG	Server ----------> DUT
0:27:50.308569	LOG	TX_ACK: 02 1045 05 aa555a0000240409
0:27:55.314789	LOG	PUSH_ACK: 02 1a15 01
0:27:55.316789	LOG	PUSH_DATA: Protocol version = 02, Token = 1a15, Identifier = 00, JSON = {'rxpk': [{'tmst': 1125739050, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -4, 'size': 17, 'data': 'QCAgICCCVAEFBwHjR9g1ahU='}]}
0:27:55.318787	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0154, FOpts: 0507), FPort: 01, FRMPayload: 0139, MIC: d8356a15)
0:27:55.320786	LOG	Server <---------- DUT
0:27:55.321786	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:27:55.323785	LOG	Command Answer: 0507
0:27:55.338776	LOG	MAC command communication completed
0:27:55.349769	LOG	Send Test Command RxAppCntReq process starts
0:27:56.817968	LOG	PULL_DATA: 02 b34d 02 aa555a0000240409
0:27:56.819967	LOG	PULL_ACK: 02 b34d 04
0:28:00.303992	LOG	PUSH_ACK: 02 1a16 01
0:28:00.305991	LOG	PUSH_DATA: Protocol version = 02, Token = 1a16, Identifier = 00, JSON = {'rxpk': [{'tmst': 1130741658, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -2, 'size': 17, 'data': 'QCAgICCCVQEFBwGR34eyP4c='}]}
0:28:00.307990	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0155, FOpts: 0507), FPort: 01, FRMPayload: 0139, MIC: 87b23f87)
0:28:00.309989	LOG	Server <---------- DUT
0:28:00.310989	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 049b, FOpts:), FPort: e0, FRMPayload: 09), MIC: 1be45eb8)
0:28:00.313986	LOG	Frame command sent to the DUT

0:28:00.315985	LOG	PULL_RESP: Protocol version = 02, Token = cfeb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1132741658, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAAmwTgqBvkXrg='}}
0:28:00.316985	LOG	Server ----------> DUT
0:28:00.320982	LOG	TX_ACK: 02 cfeb 05 aa555a0000240409
0:28:05.324588	LOG	PUSH_ACK: 02 1a18 01
0:28:05.327587	LOG	PUSH_DATA: Protocol version = 02, Token = 1a18, Identifier = 00, JSON = {'rxpk': [{'tmst': 1135747233, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -4, 'size': 16, 'data': 'QCAgICCAVgHg1bhW9/1WPw=='}]}
0:28:05.329586	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0156, FOpts:), FPort: e0, FRMPayload: 093a01, MIC: f7fd563f)
0:28:05.330585	LOG	Server <---------- DUT
0:28:05.332584	LOG	Answer in payload: 3a01
0:28:05.334583	LOG	Frame Command Payload in the Answer: 093a01
0:28:05.338580	LOG	RX Count received by DUT: 314
0:28:05.341579	LOG	Send Test Command RxAppCntReq process completed
0:28:05.345576	LOG	Send Test Command TxFramesCtrlReq process starts
0:28:06.828735	LOG	PULL_DATA: 02 a46a 02 aa555a0000240409
0:28:06.829734	LOG	PULL_ACK: 02 a46a 04
0:28:10.316784	LOG	PUSH_ACK: 02 1a19 01
0:28:10.318758	LOG	PUSH_DATA: Protocol version = 02, Token = 1a19, Identifier = 00, JSON = {'rxpk': [{'tmst': 1140741793, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAVwEBM1aAmPC4'}]}
0:28:10.320755	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0157, FOpts:), FPort: 01, FRMPayload: 013a, MIC: 8098f0b8)
0:28:10.321781	LOG	Server <---------- DUT
0:28:10.323752	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 049c, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAWAEBjZEyKb2m'}]}
0:28:15.325374	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0158, FOpts:), FPort: 01, FRMPayload: 013b, MIC: 3229bda6)
0:28:15.327373	LOG	Server <---------- DUT
0:28:15.329373	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 049d, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		p1HExZuyb52GWbvY9E+war18C2SDs29q7vC26xI2L1yHPoMQlPnBBwYV+1w uxicQrfIuNVGJXsP/C8ut1pZEGm0Zztzc0a3rxd'}}
0:28:20.337176	LOG	Server ----------> DUT
0:28:20.340174	LOG	Send Test Command TxFramesCtrlReq process completed
0:28:20.343172	LOG	Send Test Command TxFramesCtrlReq process starts
0:28:25.323971	LOG	PUSH_ACK: 02 1a1c 01
0:28:25.326969	LOG	PUSH_DATA: Protocol version = 02, Token = 1a1c, Identifier = 00, JSON = {'rxpk': [{'tmst': 1155749629, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAWgEBtBcGk3tQ'}]}
0:28:25.327968	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 015a, FOpts:), FPort: 01, FRMPayload: 013d, MIC: 06937b50)
0:28:25.329967	LOG	Server <---------- DUT
0:28:25.331966	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 049f, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101 0101

0:28:30.336429	LOG	Frame command sent to the DUT
0:28:30.338428	LOG	PULL_RESP: Protocol version = 02, Token = 48f6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1162752241, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAAoATgNzbAhwrRwdJEHQ938e/b4P842oFUVQeWjp7vS6ftrnLm9gus6Z7w0FA3E/88HpdOAVgpSOZAI6UE20rMbdUmJSTrI3IDVz+csWzJj/Y884TC5mSh9pMJKmOhx9ltuY7sq/Cv7q1mhut0RL/LR59wVaFFfvzTYgtISuPSJbTqIV2H54ophKtM7ysqZcfuUhQ253s3o6r144VtRDYlQBilmW3bj4vXI0KGoi8BvJ3HDHaBFM++JtxnuMUbIOZavbMUego4U6qUHVQKvPHovzv0fwXsNmFgrGMsOk5w/jloWbm276S0WAy7QBKUox7oXTbKYaQuQ2+D'}}
0:28:30.339427	LOG	Server ----------> DUT
0:28:30.342426	LOG	Send Test Command TxFramesCtrlReq process completed
0:28:30.346441	LOG	Send Test Command TxFramesCtrlReq process starts
0:28:35.328008	LOG	PUSH_ACK: 02 1a1f 01
0:28:35.330005	LOG	PUSH_DATA: Protocol version = 02, Token = 1a1f, Identifier = 00, JSON = {'rxpk': [{'tmst': 1165754881, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -4, 'size': 15, 'data': 'QCAgICCAXAEBqnHkfrK8'}]}
0:28:35.331005	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 015c, FOpts:), FPort: 01, FRMPayload: 013f, MIC: e47eb2bc)
0:28:35.333004	LOG	Server <---------- DUT
0:28:35.335004	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04a1, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:28:40.338048	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04a2, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:28:50.335606	LOG	PUSH_ACK: 02 1a22 01
0:28:50.337604	LOG	PUSH_DATA: Protocol version = 02, Token = 1a22, Identifier = 00, JSON = {'rxpk': [{'tmst': 1180762747, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAXwEBc1aCpFkm'}]}
0:28:50.338603	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 015f, FOpts:), FPort: 01, FRMPayload: 0142, MIC: 82a45926)
0:28:50.340603	LOG	Server <---------- DUT
0:28:50.342601	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04a4, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		XG/gq2GMAKjEEMFewthxh0PymSr4XKpI6MwZnkKWtD2BSw9keDG3mk2JJOr+KJ47SlZ9FhlBjIGq2cXcjurRKfXkB+nGqLBgfc+Ewxgtf7AfldJ8oV721PITh+AJDA83hyyleYOP2BYaB8S/a1iNV4VBc/b80'}}
0:28:55.350808	LOG	Server ----------> DUT
0:28:55.354806	LOG	Send Test Command TxFramesCtrlReq process completed
0:28:55.357804	LOG	Send Test Command TxFramesCtrlReq process starts
0:28:57.668332	LOG	PULL_DATA: 02 6e0a 02 aa555a0000240409
0:28:57.670331	LOG	PULL_ACK: 02 6e0a 04
0:29:00.341354	LOG	PUSH_ACK: 02 1a25 01
0:29:00.343353	LOG	PUSH_DATA: Protocol version = 02, Token = 1a25, Identifier = 00, JSON = {'rxpk': [{'tmst': 1190767996, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAYQEBoEg+zU4j'}]}
0:29:00.344352	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0161, FOpts:), FPort: 01, FRMPayload: 0144, MIC: 3ecd4e23)
0:29:00.346352	LOG	Server <---------- DUT
0:29:00.348349	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04a6, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		0101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: b29f9b44)
0:29:05.351273	LOG	Frame command sent to the DUT
0:29:05.353276	LOG	PULL_RESP: Protocol version = 02, Token = 4c7c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1197770654, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAApwTgjyY3Z15wUkU+xqU1IR4dc7XLULp7UgWI5X+JXqY6e7k2AFAVvsy7Tlx1Sk0sWWTe//fj2/co0VjopRD7u9XufwOK6o91VJUKdrVvWpAss7T5oBfcDyH6LYDgPs1N6xqrqrSDslfKHpsRH/w9KNT6HxhPj+Jy+2qogqtaaT3BIoWF40YRmf0FuAadHPqo4/BzY3OaeXNQWmz70nudXpvhCqhz10NA+xG/pppEA5PhTgxcV0El2oyZUWAg6X6hSxobVsFTatwsnW71m2oR5frU/fXYN6jaQ4AR197H/Ggm0R3GuJrN1LHrY9sNzTNkQOI9EI+yn5tE'}}
0:29:05.354271	LOG	Server ----------> DUT
0:29:05.357288	LOG	Send Test Command TxFramesCtrlReq process completed
0:29:05.361267	LOG	Send Test Command TxFramesCtrlReq process starts
0:29:07.878021	LOG	PULL_DATA: 02 abe1 02 aa555a0000240409
0:29:07.880019	LOG	PULL_ACK: 02 abe1 04
0:29:10.345967	LOG	PUSH_ACK: 02 1a28 01
0:29:10.347966	LOG	PUSH_DATA: Protocol version = 02, Token = 1a28, Identifier = 00, JSON = {'rxpk': [{'tmst': 1200773263, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAYwEBYZyZTKA6'}]}
0:29:10.348966	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0163, FOpts:), FPort: 01, FRMPayload: 0146, MIC: 994ca03a)
0:29:10.349967	LOG	Server <---------- DUT
0:29:10.351964	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04a8, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101

0:29:15.356331	LOG	Server <---------- DUT
0:29:15.358330	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04a9, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:29:20.369081	LOG	Send Test Command TxFramesCtrlReq process starts
0:29:25.353249	LOG	PUSH_ACK: 02 1a2b 01
0:29:25.355248	LOG	PUSH_DATA: Protocol version = 02, Token = 1a2b, Identifier = 00, JSON = {'rxpk': [{'tmst': 1215781172, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAZgEBsRYWBWZK'}]}
0:29:25.357248	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0166, FOpts:), FPort: 01, FRMPayload: 0149, MIC: 1605664a)
0:29:25.358249	LOG	Server <---------- DUT
0:29:25.360246	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04ab, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		'size': 255, 'data': 'YCAgICAArATgQjW1IIMwBt5xWH1tjQ0cLscl9MxTImontpcD3C2elbpAKS+s42QBw6L8F9ykIVTxP+SFIqIgsgaXr7Bo/wbzBpO2S7u6P/a2XQt8r54qounGJBaJ2SQLG+Ce+1fnWftXy1llxxGYHJiYH6wVyYP+d/2xxYofKwvXPMJT/I87yFdhKUq9xsAK7KBdZLjinOMj6wf5OyUcJv5oMVvG/OwJUVUX57XV9tzuQHuqbvc8CO7wi5spfFKkaQ2XTAGOeBHzhJz6m44LS80JfPI5MSygy+hiR88pic50dEbu6bFSfhGyfxQaT9FT27Mcg0ioNTxSUjKNt1Fq'}}
0:29:30.367729	LOG	Server ----------> DUT
0:29:30.371726	LOG	Send Test Command TxFramesCtrlReq process completed
0:29:30.375724	LOG	Send Test Command TxFramesCtrlReq process starts
0:29:35.360857	LOG	PUSH_ACK: 02 1a2e 01
0:29:35.362856	LOG	PUSH_DATA: Protocol version = 02, Token = 1a2e, Identifier = 00, JSON = {'rxpk': [{'tmst': 1225786425, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAaAEBTGvo0vT9'}]}
0:29:35.365857	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0168, FOpts:), FPort: 01, FRMPayload: 014b, MIC: e8d2f4fd)
0:29:35.370854	LOG	Server <---------- DUT
0:29:35.375855	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04ad, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 40d995ae)
0:29:40.373145	LOG	Frame command sent to the DUT
0:29:40.375144	LOG	PULL_RESP: Protocol version = 02, Token = 4b12, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1232789066, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAArgTgYObx+64IKqFON47ROtSJsRO0Cj76Ucnh7hfu1mXqdBHsyAQnFvYgPI/xUBERU/VPL8ghxKyC26/lCgo8wYYj+0OBH5HQuOnOtdX7fDVf7//K97dZbajSHE+fsPNFLS2ZsrGGr8nRSPuHnqrfeqZGGD5bAfPDxq9tr5uvzDWwP8hl0cbGumF1Z8Lx5qxfVr6hyQefQODYRQSfYvPAcDH0jLD6i3N56+U98iMMx6XS3i0yAIsbtC92n29Kivxn82HcKCfFX4N7skuHcB6a+ZdDFi4MFku2hQJyPyHiEND7cpgkUaiurcpy+UQ2hp5GMshCoV5A2ZWu'}}
0:29:40.376143	LOG	Server ----------> DUT
0:29:40.379142	LOG	Send Test Command TxFramesCtrlReq process completed
0:29:40.383141	LOG	Send Test Command TxFramesCtrlReq process starts
0:29:45.365666	LOG	PUSH_ACK: 02 1a30 01
0:29:45.367666	LOG	PUSH_DATA: Protocol version = 02, Token = 1a30, Identifier = 00, JSON = {'rxpk': [{'tmst': 1235791716, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAagEBlou0ObR+'}]}
0:29:45.372664	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 016a, FOpts:), FPort: 01, FRMPayload: 014d, MIC: b439b47e)
0:29:45.373663	LOG	Server <---------- DUT
0:29:45.375662	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04af, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 51c2ffbb)
0:29:45.377661	LOG	Frame command sent to the DUT
0:29:45.378659	LOG	PULL_RESP: Protocol version = 02, Token = 27f6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1237791716, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAArwTgjsWlK+9p0zcWIqPW50Gt1dK3zQ+BE60isMjxYaW7q6cXIZZR/bMI2n1DXXTEHftAMt3QLhdrrIAQQ8W9RUQkcfmLOk0IaZIHSxb5iiQpJwktfZCG0T+74y3m4GhXkV2ufrDtIXRdODrBZHbXLKQXDEHBhWw/TVpO3RYqS5vLueqZjjt398AaJ4orqhiDbWVmKKvS1vrN8Sr3doK1BtBwXBNZs3zEzVOTpW49QVUg8AQHYZai9IVS8vPgpBXIfrESEiLzLgVpTiLylop/pQebLtuHH47bi6HMaIiKzBj/GqeogthL7qYED+jQY8DMJKVaw7pRwv+7'}}
0:29:45.379658	LOG	Server ----------> DUT
0:29:45.382656	LOG	Send Test Command TxFramesCtrlReq process completed
0:29:45.384656	LOG	Send Test Command TxFramesCtrlReq process starts
0:29:48.317450	LOG	PULL_DATA: 02 55f3 02 aa555a0000240409
0:29:48.319450	LOG	PULL_ACK: 02 55f3 04
0:29:50.369268	LOG	PUSH_ACK: 02 1a31 01
0:29:50.371267	LOG	PUSH_DATA: Protocol version = 02, Token = 1a31, Identifier = 00, JSON = {'rxpk': [{'tmst': 1240794334, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAawEB2hNi+o+R'}]}
0:29:50.372266	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 016b, FOpts:), FPort: 01, FRMPayload: 014e, MIC: 62fa8f91)
0:29:50.374265	LOG	Server <---------- DUT
0:29:50.376264	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04b0, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:29:55.384896	LOG	Server ----------> DUT
0:29:55.387892	LOG	Send Test Command TxFramesCtrlReq process completed
0:29:55.392890	LOG	Send Test Command TxFramesCtrlReq process starts
0:29:58.327841	LOG	PULL_DATA: 02 0218 02 aa555a0000240409
0:29:58.329839	LOG	PULL_ACK: 02 0218 04
0:30:00.373694	LOG	PUSH_ACK: 02 1a33 01
0:30:00.375693	LOG	PUSH_DATA: Protocol version = 02, Token = 1a33, Identifier = 00, JSON = {'rxpk': [{'tmst': 1250799593, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -4, 'size': 15, 'data': 'QCAgICCAbQEBJR1jddMH'}]}
0:30:00.376691	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 016d, FOpts:), FPort: 01, FRMPayload: 0150, MIC: 6375d307)
0:30:00.377692	LOG	Server <---------- DUT
0:30:00.380689	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04b2, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:30:05.390948	LOG	PULL_RESP: Protocol version = 02, Token = f8b4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1257802205, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAAswTgHO7KTzxvy++bgCZUSBm18CsD1PBVdl+EIiYovTEasYUiJSVwqDxX5v5885s2DkAh2jma3x0oWEhd0OxDX9djLgPXIULQIrA3BwUAPwn/AoykpEuxEN3cTdZFVBmP01odQJGlyzokdH/2uxd93UpFAnAweF4wdt/jBfBWKsjnhHUAGO+v2YO9BPGQs+WlrRDrGfUcbBBT82Ua467uMKocDWavCjP5lNBMqcFFm4I5xX6AL8jUUo9/pY818YBQGUmRWh5KZCxwYZUmZvJ8qIaeLOK1SdzxHma4cxYo+tyjDtR4wt9dy+Ww7dJX7WpWfiIHXxeb5uEO'}}
0:30:05.391974	LOG	Server ----------> DUT
0:30:05.395940	LOG	Send Test Command TxFramesCtrlReq process completed
0:30:05.398939	LOG	Send Test Command TxFramesCtrlReq process starts
0:30:08.337146	LOG	PULL_DATA: 02 b193 02 aa555a0000240409
0:30:08.339146	LOG	PULL_ACK: 02 b193 04
0:30:10.379563	LOG	PUSH_ACK: 02 1a36 01
0:30:10.381561	LOG	PUSH_DATA: Protocol version = 02, Token = 1a36, Identifier = 00, JSON = {'rxpk': [{'tmst': 1260804822, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAbwEB6TCw1N7g'}]}
0:30:10.383561	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 016f, FOpts:), FPort: 01, FRMPayload: 0151, MIC: b0d4dee0)
0:30:10.384561	LOG	Server <---------- DUT
0:30:10.386558	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04b4, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010

		0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: b483fd60)
0:30:15.391584	LOG	Frame command sent to the DUT
0:30:15.393585	LOG	PULL_RESP: Protocol version = 02, Token = 2c28, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1267807458, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAAtQTgxHsP1teeiu2s9AzYxrQkCzcEP0PhI+ZoJ7iV4Y2UmlUZU3HxVoUEGkhY+HSNR20Jl9wD9o7N49EK1W0pqXSEBMoW/TVdfPIC9RYS+ZmyMhhEOGkqp5jiDC0CTsuuExwk0QUWHQKjsFSU3SkGcvV7HCVWZGqy/aDmOVnnckbmOXOtZ7HnmUJwl83ihjWJjexUl+a6lfKS9hwRN1Oe+9HiCtx6ZWl8n5sEHzVkSKEwB7ay+HVvZFMl5RYtaWtbFGCbHcYUYhEf6ajNY3FS+mIEkmxPcksskyjZpiUGdjz1xV0kfhdCE3C9jGL8r4b/nnHRVN9i0g/1g'}}
0:30:15.394584	LOG	Server ----------> DUT
0:30:15.398581	LOG	Send Test Command TxFramesCtrlReq process completed
0:30:15.401581	LOG	Send Test Command TxFramesCtrlReq process starts
0:30:18.547409	LOG	PULL_DATA: 02 bb5d 02 aa555a0000240409
0:30:18.550409	LOG	PULL_ACK: 02 bb5d 04
0:30:20.384367	LOG	PUSH_ACK: 02 1a38 01
0:30:20.386367	LOG	PUSH_DATA: Protocol version = 02, Token = 1a38, Identifier = 00, JSON = {'rxpk': [{'tmst': 1270810084, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAcQEBldvFGxgV'}]}
0:30:20.387366	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0171, FOpts:), FPort: 01, FRMPayload: 0153, MIC: c51b1815)
0:30:20.389364	LOG	Server <---------- DUT
0:30:20.391363	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04b6, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 9c06bc7a)
0:30:20.394362	LOG	Frame command sent to the DUT
0:30:20.396360	LOG	PULL_RESP: Protocol version = 02, Token = 3dc9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1272810084, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAAtgTgrJoPdNmXCSLXLD0sxCAfSqCVSwCVvPySzobYU9yRyrQIrCNHXmzJm2OkcvaRXjhyuLKHr3yrNHEpmxQ6RxdETkoh+UbCfoMpwX14Ij1WtPM5+4/kXTTaP/rURpcgN0PjN9YdoJ5jvC6mZcZCBpHK/INCHtOwJnNcXT/OwAwmxB3JZO3W9bBVg96K5Qtrrtw/pTR+4hJk64GkUw9V8B1lDZ+oR9x4skWkDprEZVfCF5l8VflKZrQcONlOWrwXzNl6WTT9l+e4deBrBs6nNOMVZjSD6a2pdoBJlGQr/zPX9gCgOjvwbqy8ouNJV1WU3CUySE2cBrx6'}}
0:30:20.397360	LOG	Server ----------> DUT
0:30:20.400358	LOG	Send Test Command TxFramesCtrlReq process completed
0:30:20.403356	LOG	Send Test Command TxFramesCtrlReq process starts
0:30:25.387272	LOG	PUSH_ACK: 02 1a39 01

0:30:25.389270	LOG	PUSH_DATA: Protocol version = 02, Token = 1a39, Identifier = 00, JSON = {'rxpk': [{'tmst': 1275812710, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -1, 'size': 15, 'data': 'QCAgICCAcgEBREXRtBxp'}]}
0:30:25.390269	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0172, FOpts:), FPort: 01, FRMPayload: 0154, MIC: d1b41c69)
0:30:25.392268	LOG	Server <---------- DUT
0:30:25.394267	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04b7, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		HQaNOGWbz4WwWcsQ6dIffo6+Om5jE0E2L7GG3Pr09+/owDcwXScIKowqgjw99yfwCNvRLfGnRDP2W7zg/kVHEjj7OHN+erwMuzcCC0E5UTDzzIRekKQaOjTzWTDhluhtNP7z1d8pM2OA7ESXi/9bd225QaOM1O/5IvZNvFI1oLKZGJZ4612672lyrstC6r1Xnv7U7sQpkpc088pTSokGV1cEIDNPjuAQOr'}}
0:30:30.402233	LOG	Server ----------> DUT
0:30:30.405230	LOG	Send Test Command TxFramesCtrlReq process completed
0:30:30.413225	LOG	Send Test Command TxFramesCtrlReq process starts
0:30:35.391114	LOG	PUSH_ACK: 02 1a3c 01
0:30:35.393111	LOG	PUSH_DATA: Protocol version = 02, Token = 1a3c, Identifier = 00, JSON = {'rxpk': [{'tmst': 1285817961, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAdAEBTQmbZOzM'}]}
0:30:35.395110	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0174, FOpts:), FPort: 01, FRMPayload: 0155, MIC: 9b64eccc)
0:30:35.396110	LOG	Server <---------- DUT
0:30:35.399110	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04b9, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		0101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 1f778d50)
0:30:40.404318	LOG	Frame command sent to the DUT
0:30:40.405317	LOG	PULL_RESP: Protocol version = 02, Token = 05ac, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1292820588, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAAugTgt+mRDjw+n6JFPZhphBVIVBrWMl1PG+IBtCHrdfSAS/uQOZROwsMFeFikAj8fih07oyQTGl7yOugIAQBbdgiaBoCDm2F/vrCCG4zrqdOhNa4E9MF3EQGca0NFPnNtGi7e0q1d8ZpQjxSoflPo2rsUP/VP4g8k4CXr8mxE0+nLhdkzHmmNKZrAMv1oy9YPgJoYVZoMAyKfihSQbDEClyh1jjXjp+zml+ECv4eTggs+M//HJLxXNWZWOl/5ulGmnGkzPxHJUI+S39LKzBXATjOHWzwbuMUOOWCQld5rYsNIj25MJqh1Gx1X9YGFkMSukvqpQX4fd41Q'}}
0:30:40.407316	LOG	Server ----------> DUT
0:30:40.410316	LOG	Send Test Command TxFramesCtrlReq process completed
0:30:40.413313	LOG	Send Test Command TxFramesCtrlReq process starts
0:30:45.397957	LOG	PUSH_ACK: 02 1a3e 01
0:30:45.399956	LOG	PUSH_DATA: Protocol version = 02, Token = 1a3e, Identifier = 00, JSON = {'rxpk': [{'tmst': 1295823229, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAdgEBpfJS6r/a'}]}
0:30:45.403954	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0176, FOpts:), FPort: 01, FRMPayload: 0157, MIC: 52eabfda)
0:30:45.405927	LOG	Server <---------- DUT
0:30:45.407931	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04bb, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101

0:30:50.411153	LOG	Server <---------- DUT
0:30:50.417150	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04bc, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:30:58.799640	LOG	PULL_ACK: 02 8a62 04
0:31:00.405728	LOG	PUSH_ACK: 02 1a41 01
0:31:00.407727	LOG	PUSH_DATA: Protocol version = 02, Token = 1a41, Identifier = 00, JSON = {'rxpk': [{'tmst': 1310831082, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -4, 'size': 15, 'data': 'QCAgICCAeQEByzel23O5'}]}
0:31:00.409726	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0179, FOpts:), FPort: 01, FRMPayload: 015a, MIC: a5db73b9)
0:31:00.411724	LOG	Server <---------- DUT
0:31:00.413723	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04be, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		AKBCmjzC+j2y0Z2vbo9NwffVjucWlHixWMLZUeCNaEAZcc7JDxhmn31ujhoK8y1X1h+HHpvvPlnUjNu6DjjCH4FgqMaOkEsZNtBAOGT0geqq23wTbsC7b3DUDGPl+pp6uOpL6zdicRry0rlPjAefV6Rhzg6FhNPhLNe+TKrzAAHyfC4qkX5nHq2wC8B0fiC3QSIhQPkw1/z/El5oZ8WFiA8uRTYA'}}
0:31:05.421626	LOG	Server ----------> DUT
0:31:05.425624	LOG	Send Test Command TxFramesCtrlReq process completed
0:31:05.430621	LOG	Send Test Command TxFramesCtrlReq process starts
0:31:08.997595	LOG	PULL_DATA: 02 fe92 02 aa555a0000240409
0:31:08.998595	LOG	PULL_ACK: 02 fe92 04
0:31:10.408794	LOG	PUSH_ACK: 02 1a44 01
0:31:10.410793	LOG	PUSH_DATA: Protocol version = 02, Token = 1a44, Identifier = 00, JSON = {'rxpk': [{'tmst': 1320836316, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAewEBuwhn0ivG'}]}
0:31:10.412792	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 017b, FOpts:), FPort: 01, FRMPayload: 015c, MIC: 67d22bc6)
0:31:10.413791	LOG	Server <---------- DUT
0:31:10.416790	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04c0, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		0101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 6abda95f)
0:31:15.426055	LOG	Frame command sent to the DUT
0:31:15.427052	LOG	PULL_RESP: Protocol version = 02, Token = 848d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1327838959, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAAwQTgZOmleBoOoLiZfg/ilPB1M5J1MrO8nSDta/nwek4vPxpfcNZLRTc8o/ddnlXLjxlogA5e3smm+yfEMBdWKBrkvdV4IlSimyP6nfTQDPHnqWQbpndnTR/o2Hq3MGx7GJBewfb+woFAoukkneHkCdzcWh0NScMPRjZ0frmOQq8ZcRtUE8tdbSjQw6Ea0N1oYdQcAABbR7Q+RUWXCcZREmJ1w4qkZehluw0IG83Meon4Pibq7uTitdgxMo/noDW1tX1ZpRcevPrOW4ShB55JDgdVw6LIAN2/Kg07lRUurctJqSK5O79eoG5Px0sFryupo5EGyqtqvalf'}}
0:31:15.429051	LOG	Server ----------> DUT
0:31:15.437046	LOG	Send Test Command TxFramesCtrlReq process completed
0:31:15.442043	LOG	Send Test Command TxFramesCtrlReq process starts
0:31:19.007070	LOG	PULL_DATA: 02 ba0f 02 aa555a0000240409
0:31:19.010068	LOG	PULL_ACK: 02 ba0f 04
0:31:20.414095	LOG	PUSH_ACK: 02 1a46 01
0:31:20.416096	LOG	PUSH_DATA: Protocol version = 02, Token = 1a46, Identifier = 00, JSON = {'rxpk': [{'tmst': 1330841564, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': 0, 'size': 15, 'data': 'QCAgICCAfQEBit88ITY4'}]}
0:31:20.417094	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 017d, FOpts:), FPort: 01, FRMPayload: 015e, MIC: 3c213638)
0:31:20.418095	LOG	Server <---------- DUT
0:31:20.420092	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04c2, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101

0:31:25.421253	LOG	Server <---------- DUT
0:31:25.423252	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04c3, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:31:30.438753	LOG	Send Test Command TxFramesCtrlReq process starts
0:31:35.423137	LOG	PUSH_ACK: 02 1a4a 01
0:31:35.425136	LOG	PUSH_DATA: Protocol version = 02, Token = 1a4a, Identifier = 00, JSON = {'rxpk': [{'tmst': 1345849417, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAgAEBOFH1tWbS'}]}
0:31:35.427136	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0180, FOpts:), FPort: 01, FRMPayload: 0161, MIC: f5b566d2)
0:31:35.428134	LOG	Server <---------- DUT
0:31:35.429135	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04c5, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		'size': 255, 'data': 'YCAgICAAxgTg3yDRXa2ZCS58WbqR2pZsqngSutjNXhZqR/lE/Mqh+6xBa7nmbUltNcYiqBiwM2CmY/E04uqH2r+teeUdA6fAoDq3zfsU2zlw5HmNhRsDQC6VPuMluTqU2WHrnSndFWSAmzjoFQX7Bqinq1DircTw6Z3Z3j2XpyKoC6mQzmvXeUm5Ea16Lh/KH9T6xgbrFMLVfPA7gyNwJ7HGiDLzHp98D2BGMVNF5OK134AlNOjy/eHcHTNYlWj+xCmTccylC+wYYPeSmeC41TCzzG+8i1dY5/fbA+E6Pfthd3JCIIJqzJAdQDq308Agi5ntEPdzCCUu1p/oNm+u'}}
0:31:40.438396	LOG	Server ----------> DUT
0:31:40.441393	LOG	Send Test Command TxFramesCtrlReq process completed
0:31:40.445392	LOG	Send Test Command TxFramesCtrlReq process starts
0:31:45.428807	LOG	PUSH_ACK: 02 1a4c 01
0:31:45.430805	LOG	PUSH_DATA: Protocol version = 02, Token = 1a4c, Identifier = 00, JSON = {'rxpk': [{'tmst': 1355854651, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': 0, 'size': 15, 'data': 'QCAgICCAggEBrAqmN56N'}]}
0:31:45.435803	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0182, FOpts:), FPort: 01, FRMPayload: 0163, MIC: a6379e8d)
0:31:45.437802	LOG	Server <---------- DUT
0:31:45.439801	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04c7, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 6fba354e)
0:31:50.439121	LOG	Frame command sent to the DUT
0:31:50.441120	LOG	PULL_RESP: Protocol version = 02, Token = c847, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1362857262, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAAyATgg4qoWDs8Dm8VHiK/TpscDwwrPu/geAnW35K/GGQCcicJ+y5eBxIa5LLHPgThTh2f9kp028Pn84w1lWzVw7w/PAjHtrdGnRHaafp7A/AdD8gmSlewVBBsP0G3+1eFDKyQkrEuQhlkrOrQ5Jn8JIxj1Hr9HyCpvlyK+iu2eSVX4v6WWNolBrDeWc/Ky8ivjOr4Kpnuf0kk4jXOw+HdUiuosvZ+aVnmHLldri5G3BK0YEPVNDAA221ATv0LTQ7r3bbPeGMAue4Qkwt1ZeQrv4N+TOAgMVZNnlLEsB0S70wW3E3LqPV76NKTBknKAv8ZvfrdZRlvujVO'}}
0:31:50.443119	LOG	Server ----------> DUT
0:31:50.446118	LOG	Send Test Command TxFramesCtrlReq process completed
0:31:50.449115	LOG	Send Test Command TxFramesCtrlReq process starts
0:31:55.434060	LOG	PUSH_ACK: 02 1a4e 01
0:31:55.436060	LOG	PUSH_DATA: Protocol version = 02, Token = 1a4e, Identifier = 00, JSON = {'rxpk': [{'tmst': 1365859857, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAhAEBcbu/F67o'}]}
0:31:55.438060	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0184, FOpts:), FPort: 01, FRMPayload: 0165, MIC: bf17aee8)
0:31:55.439059	LOG	Server <---------- DUT
0:31:55.441057	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04c9, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 12c88f49)
0:31:55.444055	LOG	Frame command sent to the DUT
0:31:55.445056	LOG	PULL_RESP: Protocol version = 02, Token = ca40, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1367859857, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAAyQTgidor/cKHKy95MsiO0/hDF3m30tRj+LLytl1BFh78fqi9tUBicSew3RhjPAD4PBeSPN8VxDVVu7n7i/7mbTymtgfpfbLNpUM+70T9SGDjNyESngxFFnmz4b+vHmVZa0EsLZ/qNjpFSfFNzKKkuE9cgx3QXWrhddFgoeGeqOLxFIT2pRYXaHVl1T4+kg+iMDpKVIbv4pP6JRmwjn2BNkdPXNvfL2hquiSDnKwRI8NeGbyjGvBsnJRXJ4/mELuNMwWSd3P7QU4MD9jSaUS3HJVgi5xZnrB7BkPCkGekyRvxBWIt0gkKA8VFgB/L+YNaxE1HZjcSyI9J'}}
0:31:55.446054	LOG	Server ----------> DUT
0:31:55.449051	LOG	Send Test Command TxFramesCtrlReq process completed
0:31:55.452050	LOG	Send Test Command TxFramesCtrlReq process starts
0:31:59.437075	LOG	PULL_DATA: 02 dda1 02 aa555a0000240409
0:31:59.439073	LOG	PULL_ACK: 02 dda1 04
0:32:00.435474	LOG	PUSH_ACK: 02 1a4f 01
0:32:00.437474	LOG	PUSH_DATA: Protocol version = 02, Token = 1a4f, Identifier = 00, JSON = {'rxpk': [{'tmst': 1370862489, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAhQEBhrM9JNma'}]}
0:32:00.439472	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0185, FOpts:), FPort: 01, FRMPayload: 0166, MIC: 3d24d99a)
0:32:00.440472	LOG	Server <---------- DUT
0:32:00.442471	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04ca, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:32:05.450385	LOG	Server ----------> DUT
0:32:05.453400	LOG	Send Test Command TxFramesCtrlReq process completed
0:32:05.457379	LOG	Send Test Command TxFramesCtrlReq process starts
0:32:09.647366	LOG	PULL_DATA: 02 790c 02 aa555a0000240409
0:32:09.649363	LOG	PULL_ACK: 02 790c 04
0:32:10.441978	LOG	PUSH_ACK: 02 1a52 01
0:32:10.443975	LOG	PUSH_DATA: Protocol version = 02, Token = 1a52, Identifier = 00, JSON = {'rxpk': [{'tmst': 1380867725, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -4, 'size': 15, 'data': 'QCAgICCAhwEBnDbuq8Ud'}]}
0:32:10.444974	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0187, FOpts:), FPort: 01, FRMPayload: 0167, MIC: eeabc51d)
0:32:10.445975	LOG	Server <---------- DUT
0:32:10.448973	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04cc, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:32:15.460709	LOG	PULL_RESP: Protocol version = 02, Token = 1fec, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1387870335, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAAzQTgWhmZnvzKlmqTXM056d40+2plK/uh6O3gk5T0RsAFSsxVo60KUCST47Ky7+POEPNn0aZRq1beY6sNvtKYXUhFtupW3nhc6PvkoxxkBrst9MTkDyalFqIseqjD6bGBe+/tKu/sGfrIOP0WAko7wPmruHk56q6i2Kzypg/IafM09vpg5YPEyr8gnjnXJfYpdISSTSt2fZLVH1kpSo4JY5p5Vw4UvNUg606s4PmwXFenXkNCe2GbjXxqpnQuiT3+UDKE5NMfbHLZauAEOlDP0K7h9WXesax/6ey3OIqAWKxCmBoFIpn/A2JIbwGL0fohpm676MYzhmje'}}
0:32:15.462707	LOG	Server ----------> DUT
0:32:15.469703	LOG	Send Test Command TxFramesCtrlReq process completed
0:32:15.474700	LOG	Send Test Command TxFramesCtrlReq process starts
0:32:19.676910	LOG	PULL_DATA: 02 23ce 02 aa555a0000240409
0:32:19.679909	LOG	PULL_ACK: 02 23ce 04
0:32:20.446473	LOG	PUSH_ACK: 02 1a54 01
0:32:20.448473	LOG	PUSH_DATA: Protocol version = 02, Token = 1a54, Identifier = 00, JSON = {'rxpk': [{'tmst': 1390872978, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -1, 'size': 15, 'data': 'QCAgICCAiQEBiOAjtVIL'}]}
0:32:20.449471	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0189, FOpts:), FPort: 01, FRMPayload: 0169, MIC: 23b5520b)
0:32:20.450473	LOG	Server <---------- DUT
0:32:20.452472	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04ce, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010

		0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101). MIC: df076541)
0:32:25.460626	LOG	Frame command sent to the DUT
0:32:25.462626	LOG	PULL_RESP: Protocol version = 02, Token = ae01, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1397875579, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAAzwTg2tblaSX4hNK47X2ZXP3uTwvgVDGYx+ZeF/4tiaKP2ouhzOtuZebQHvqVpcIRv4pNPG0MIDhG/aablkNxWqELO7IEhni9I52LOIBNrpU+FRMuE4/BMPrcK8zahNa3N1LDrJ80UaNGCMx+aWw8ZS2bKzNCgsiQGVsg9E/ow9HucnP1dnuDUD33M4TsZqveMDc2AjrEjI53xwfPUMB4Bb9eO/JCUO8/WXYoKeaAX2lB8qESDt7Drq8X4nFTGhOzYR7cTnWwEoIrSkv1ia1rSQD6326uYKUTKdh319oPDUD/cRsuwyVNXI0BxAIoQS4VaPOcjp3fB2VB'}}
0:32:25.463625	LOG	Server ----------> DUT
0:32:25.469621	LOG	Send Test Command TxFramesCtrlReq process completed
0:32:25.477616	LOG	Send Test Command TxFramesCtrlReq process starts
0:32:29.877118	LOG	PULL_DATA: 02 0025 02 aa555a0000240409
0:32:29.879117	LOG	PULL_ACK: 02 0025 04
0:32:30.452202	LOG	PUSH_ACK: 02 1a56 01
0:32:30.454200	LOG	PUSH_DATA: Protocol version = 02, Token = 1a56, Identifier = 00, JSON = {'rxpk': [{'tmst': 1400878196, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -1, 'size': 15, 'data': 'QCAgICCAiwEBYRXAzvjQ'}]}
0:32:30.456198	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 018b, FOpts:), FPort: 01, FRMPayload: 016b, MIC: c0cef8d0)
0:32:30.458197	LOG	Server <---------- DUT
0:32:30.460196	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04d0, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101). MIC: cd671368)
0:32:30.462196	LOG	Frame command sent to the DUT
0:32:30.464194	LOG	PULL_RESP: Protocol version = 02, Token = 350d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1402878196, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAA0ATgjDbGKQYyPkquiwX1R0DCdbOYmAC8OxiXm4645ejSPJCgTp3R6clU6CP7JpyFrSAnfQYZHu0An3lYyC8HG2ovZLzTJBIuvDfgSWKrR+aK28iM0V/oyOGhvtL5boqB5jn7zEZUjyTG5WJMGj9rOp7MCmLNPT2d1oJZB+9aPcUOJCaakzrVa4JuNHq6fOQqbStB8uDPbB1wy5dXDpSf0vPqgAZHZumV0RIUTUx9GrAH/NOChEXuHz6fICht3hkicuAT6g3ydE2PwSp1jZRVoy8GOYocuHzNzhlqE5ld7ByQeUcfx6bsnq+kkxUbRxEwHwrNfVTNZxNo'}}
0:32:30.465195	LOG	Server ----------> DUT
0:32:30.471190	LOG	Send Test Command TxFramesCtrlReq process completed
0:32:30.477186	LOG	Send Test Command TxFramesCtrlReq process starts
0:32:35.456027	LOG	PUSH_ACK: 02 1a58 01

0:32:35.461025	LOG	PUSH_DATA: Protocol version = 02, Token = 1a58, Identifier = 00, JSON = {'rxpk': [{'tmst': 1405880828, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAjAEBED5Sea3/'}]}
0:32:35.465023	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 018c, FOpts:), FPort: 01, FRMPayload: 016c, MIC: 5279adff)
0:32:35.468023	LOG	Server <---------- DUT
0:32:35.473019	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04d1, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101

		99iQ8r+asCVBNg0OFJvOVL7kIxE+dVB2Qv/A+D0X/K8L3JiOA8203V4O/Ek3wNP1EUHegl9BdDEkHsinizNLgMJHKsVk50PYMjlnQUaQS7SAOI+dk6JadK2oEw2jmOj8K6kUaY/JP4oztkXkwhOo3mAvTOe4TWOja892m+RzSAe4UeW7h5tZmjDnp9qLUJ/7gnUvyVKpBTm3IwYrhYhsNMDBOG'}}
0:32:40.472900	LOG	Server ----------> DUT
0:32:40.474900	LOG	Send Test Command TxFramesCtrlReq process completed
0:32:40.478897	LOG	Send Test Command TxFramesCtrlReq process starts
0:32:45.460364	LOG	PUSH_ACK: 02 1a5a 01
0:32:45.462362	LOG	PUSH_DATA: Protocol version = 02, Token = 1a5a, Identifier = 00, JSON = {'rxpk': [{'tmst': 1415886064, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -1, 'size': 15, 'data': 'QCAgICCAjgEBMY9AoA0O'}]}
0:32:45.467360	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 018e, FOpts:), FPort: 01, FRMPayload: 016e, MIC: 40a00d0e)
0:32:45.468359	LOG	Server <---------- DUT
0:32:45.470358	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04d3, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		0101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 15e55af8)
0:32:50.472489	LOG	Frame command sent to the DUT
0:32:50.473487	LOG	PULL_RESP: Protocol version = 02, Token = 951d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1422888682, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAA1ATgu8IjyZR3c+fhWkrbc5Qgw3ZZUnL1f4xA7O0rvnmEJuCH5UC9aBs3cZrdnqq+rY0qraa6CcrvRSS9h/51mgRhVnTKwtlitkt+eD1ZbZjSqv5wnyQVokqxGwCCXuVwQtP2N6g+RUYuQ0+OnFIh+CEDZdqysrPo+UOjLjtMA9Iftam2XTdGNgTXggc4A41dFDoVvq/SQgqiQ/xNoCoZwAWdAnp9WCLZ8WXTQpQeqCzlfydFoPrfXQmOiHLk6h1sP3NPd2OFbMTBRDq7INdqzAHmuNYeeZXOPJiCZWo3WD6J59ui2xuqvwXkBPuwudcJ/7Wivb4V5Vr4'}}
0:32:50.474506	LOG	Server ----------> DUT
0:32:50.477486	LOG	Send Test Command TxFramesCtrlReq process completed
0:32:50.480485	LOG	Send Test Command TxFramesCtrlReq process starts
0:32:55.465263	LOG	PUSH_ACK: 02 1a5c 01
0:32:55.467263	LOG	PUSH_DATA: Protocol version = 02, Token = 1a5c, Identifier = 00, JSON = {'rxpk': [{'tmst': 1425891324, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -4, 'size': 15, 'data': 'QCAgICCAkAEBRwPIKQIV'}]}
0:32:55.469260	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0190, FOpts:), FPort: 01, FRMPayload: 0170, MIC: c8290215)
0:32:55.470260	LOG	Server <---------- DUT
0:32:55.472259	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04d5, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101

0:33:00.471269	LOG	Server <---------- DUT
0:33:00.473268	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04d6, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:33:10.318346	LOG	PULL_ACK: 02 10b9 04
0:33:10.472262	LOG	PUSH_ACK: 02 1a60 01
0:33:10.474261	LOG	PUSH_DATA: Protocol version = 02, Token = 1a60, Identifier = 00, JSON = {'rxpk': [{'tmst': 1440899147, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAkwEBfI9O0svT'}]}
0:33:10.476258	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0193, FOpts:), FPort: 01, FRMPayload: 0173, MIC: 4ed2cbd3)
0:33:10.477256	LOG	Server <---------- DUT
0:33:10.478261	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04d8, FOpts:), FPort: e0, FRMPayload: 09), MIC: a1089a5b)
0:33:10.481257	LOG	Frame command sent to the DUT
0:33:10.482258	LOG	PULL_RESP: Protocol version = 02, Token = 39a0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1442899147, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAA2ATg2aEImls='}}
0:33:10.483257	LOG	Server ----------> DUT
0:33:10.488252	LOG	TX_ACK: 02 39a0 05 aa555a0000240409
0:33:15.480961	LOG	PUSH_ACK: 02 1a61 01
0:33:15.484959	LOG	PUSH_DATA: Protocol version = 02, Token = 1a61, Identifier = 00, JSON = {'rxpk': [{'tmst': 1445909845, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -3, 'size': 16, 'data': 'QCAgICCAlAHgcCxl90SCHg=='}]}
0:33:15.485958	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0194, FOpts:), FPort: e0, FRMPayload: 097401, MIC: f744821e)
0:33:15.487957	LOG	Server <---------- DUT
0:33:15.488955	LOG	Answer in payload: 7401
0:33:15.490956	LOG	Frame Command Payload in the Answer: 097401
0:33:15.495925	LOG	RX Count received by DUT: 372
0:33:15.497951	LOG	Send Test Command RxAppCntReq process completed
0:33:15.505947	LOG	End Test Step: Test packet error rate for SF7BW125 using RX2 window
0:33:15.509945	LOG	Partial Verdict: PASS
0:33:15.515942	LOG	==========
0:33:15.521938	LOG	==========
0:33:15.524936	LOG	Start Test Step: Test packet error rate for SF7BW250 using RX2 window
0:33:15.538899	LOG	Send RXParamSetupReq process starts
0:33:20.357039	LOG	PULL_DATA: 02 4ce8 02 aa555a0000240409
0:33:20.358038	LOG	PULL_ACK: 02 4ce8 04
0:33:20.473972	LOG	PUSH_ACK: 02 1a62 01
0:33:20.475971	LOG	PUSH_DATA: Protocol version = 02, Token = 1a62, Identifier = 00, JSON = {'rxpk': [{'tmst': 1450904397, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAlQEBTD5sIqNy'}]}
0:33:20.477970	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0195, FOpts:), FPort: 01, FRMPayload: 0174, MIC: 6c22a372)
0:33:20.478969	LOG	Server <---------- DUT
0:33:20.480968	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04d9, FOpts:), FPort: 00, FRMPayload: 0506d2ad84), MIC: 71ad25ce)
0:33:20.482967	LOG	PULL_RESP: Protocol version = 02, Token = 53bf, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1452904397, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAA2QQAoBFwuspxrSXO'}}
0:33:20.483967	LOG	Server ----------> DUT
0:33:20.488964	LOG	TX_ACK: 02 53bf 05 aa555a0000240409
0:33:25.498263	LOG	PUSH_ACK: 02 1a63 01

0:33:25.500262	LOG	PUSH_DATA: Protocol version = 02, Token = 1a63, Identifier = 00, JSON = {'rxpk': [{'tmst': 1455912157, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -2, 'size': 17, 'data': 'QCAgICCClgEFBwEy7OknD4U='}]}
0:33:25.502261	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0196, FOpts: 0507), FPort: 01, FRMPayload: 0174, MIC: e9270f85)
0:33:25.503260	LOG	Server <---------- DUT
0:33:25.505259	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:33:25.506258	LOG	Command Answer: 0507
0:33:25.522267	LOG	MAC command communication completed
0:33:25.530262	LOG	Send Test Command RxAppCntReq process starts
0:33:30.487490	LOG	PUSH_ACK: 02 1a64 01
0:33:30.489470	LOG	PUSH_DATA: Protocol version = 02, Token = 1a64, Identifier = 00, JSON = {'rxpk': [{'tmst': 1460914781, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -2, 'size': 17, 'data': 'QCAgICCClwEFBwHLPWY9RRI='}]}
0:33:30.491470	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0197, FOpts: 0507), FPort: 01, FRMPayload: 0174, MIC: 663d4512)
0:33:30.492468	LOG	Server <---------- DUT
0:33:30.494468	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04da, FOpts:), FPort: e0, FRMPayload: 09), MIC: 0fcbf4ef)
0:33:30.496466	LOG	Frame command sent to the DUT
0:33:30.498466	LOG	PULL_RESP: Protocol version = 02, Token = 121e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1462914781, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAA2gTgUA/L9O8='}}
0:33:30.499465	LOG	Server ----------> DUT
0:33:30.503467	LOG	TX_ACK: 02 121e 05 aa555a0000240409
0:33:30.505462	LOG	PULL_DATA: 02 87d6 02 aa555a0000240409
0:33:30.506461	LOG	PULL_ACK: 02 87d6 04
0:33:35.526884	LOG	PUSH_ACK: 02 1a66 01
0:33:35.529882	LOG	PUSH_DATA: Protocol version = 02, Token = 1a66, Identifier = 00, JSON = {'rxpk': [{'tmst': 1465920339, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -2, 'size': 16, 'data': 'QCAgICCAmAHgMzcaRAu/9Q=='}]}
0:33:35.530882	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0198, FOpts:), FPort: e0, FRMPayload: 097501, MIC: 440bbff5)
0:33:35.532881	LOG	Server <---------- DUT
0:33:35.533880	LOG	Answer in payload: 7501
0:33:35.535879	LOG	Frame Command Payload in the Answer: 097501
0:33:35.540877	LOG	RX Count received by DUT: 373
0:33:35.544874	LOG	Send Test Command RxAppCntReq process completed
0:33:35.550871	LOG	Send Test Command TxFramesCtrlReq process starts
0:33:40.516051	LOG	PUSH_ACK: 02 1a67 01
0:33:40.519049	LOG	PUSH_DATA: Protocol version = 02, Token = 1a67, Identifier = 00, JSON = {'rxpk': [{'tmst': 1470914899, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -1, 'size': 15, 'data': 'QCAgICCAmQEBau9AGSse'}]}
0:33:40.523067	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0199, FOpts:), FPort: 01, FRMPayload: 0175, MIC: 40192b1e)
0:33:40.525046	LOG	Server <---------- DUT
0:33:40.527046	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04db, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101

		0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101). MIC: ca1eab1c)
0:33:40.530043	LOG	Frame command sent to the DUT
0:33:40.532043	LOG	PULL_RESP: Protocol version = 02, Token = f1c5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1472914899, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAA2wTg5Tt7Q245v8eLjCWRDdUBI0jPxVPUN9ox7f6ico4HSqZaUBpiu+GP5w9Kcd6Z5ZTHhfptobcWQEQjQRvPwgLA9ie8uLMyXsO4pza//IIQLOonxAG10mZV2VWHf0zd7vHxy93U5gM44JmP3OXz11vFhaT72A+vGRTI3IwKYItKDRBs/HvWyGD7feJWsUbyh7AuM6MyhXSGxrA1BO+5XRgWUjs/amoAviRpihk3ucTudgMmeSDl8i2NwI+/eAeUmPFUg/IkJXqWHeir6aFDdkLP6VT+KTRQvuz2HOvCqKrmZEdjmPWmOLq/NFWmumRMlH0XAEDKHqsc'}}
0:33:40.533043	LOG	Server ----------> DUT
0:33:40.537040	LOG	Send Test Command TxFramesCtrlReq process completed
0:33:40.540039	LOG	Send Test Command TxFramesCtrlReq process starts
0:33:45.500221	LOG	PUSH_ACK: 02 1a68 01
0:33:45.503219	LOG	PUSH_DATA: Protocol version = 02, Token = 1a68, Identifier = 00, JSON = {'rxpk': [{'tmst': 1475917513, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -4, 'size': 15, 'data': 'QCAgICCAmgEBRnIVaVBO'}]}
0:33:45.505219	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 019a, FOpts:), FPort: 01, FRMPayload: 0176, MIC: 1569504e)
0:33:45.506219	LOG	Server <---------- DUT
0:33:45.508218	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04dc, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101). MIC: 26087c54)
0:33:45.510216	LOG	Frame command sent to the DUT
0:33:45.511217	LOG	PULL_RESP: Protocol version = 02, Token = 7913, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1477917513, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAA3ATg3PX3IrMx63UACj9PGg/0HWNb435x3Wues7NUx3gBJts/Lsqu7uxu8alZT4pbjSvmVccZATBrul+rnfa8Jzdmpbs8vREfNcDazxXh4azdiFkzwbg5Wujft5ImqQCo6dfDs2RtiZ+KGxEKJPOl619Xd7WyavADmWyl8y4Dgnx8IVoHcwCwMQfb8+fwvM9lK+RGG2XGNc80pdjvhA4/hqF7rEKDf3AVM2fBb5UaUt+sb27No8+CjfLjdFe3rMjEyDZWdCbIxAZDdOmEE9BsDwJh3RQloLh9EekYOmxg6t0zDii1ey1Xr37ZdzszCi8DmiBKK/omCHxU'}}
0:33:45.513214	LOG	Server ----------> DUT
0:33:45.515214	LOG	Send Test Command TxFramesCtrlReq process completed
0:33:45.518211	LOG	Send Test Command TxFramesCtrlReq process starts
0:33:50.500793	LOG	PUSH_ACK: 02 1a69 01
0:33:50.502790	LOG	PUSH_DATA: Protocol version = 02, Token = 1a69, Identifier = 00, JSON = {'rxpk': [{'tmst': 1480920128, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -4, 'size': 15, 'data': 'QCAgICCAmwEBoEeFMjf5'}]}

0:33:50.504788	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 019b, FOpts:), FPort: 01, FRMPayload: 0177, MIC: 853237f9)
0:33:50.505788	LOG	Server <---------- DUT
0:33:50.507788	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04dd, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:33:55.517940	LOG	Server ----------> DUT
0:33:55.522935	LOG	Send Test Command TxFramesCtrlReq process completed
0:33:55.524960	LOG	Send Test Command TxFramesCtrlReq process starts
0:34:00.508199	LOG	PUSH_ACK: 02 1a6b 01
0:34:00.513196	LOG	PUSH_DATA: Protocol version = 02, Token = 1a6b, Identifier = 00, JSON = {'rxpk': [{'tmst': 1490925378, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -4, 'size': 15, 'data': 'QCAgICCAnQEB9gvxQ01P'}]}
0:34:00.517195	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 019d, FOpts:), FPort: 01, FRMPayload: 0179, MIC: f1434d4f)
0:34:00.520165	LOG	Server <---------- DUT
0:34:00.525189	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04df, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:34:05.520141	LOG	PULL_RESP: Protocol version = 02, Token = dd2a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1497927992, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAA4ATgoLT2lvEYY7z6dlzUi3UZOiFtLZO2tlJKsmAtCAv7G2/Fjy4mUp5Xofbn3/vCkCmSiL/8cQMqlkn1n17vI/LINnex9YgdNefPnr0FM98BcR2hH+HYfsmFu8LqbubgNNaY6NPWdpSyU4nxHcjJ47+Dzkyva2EHokjmES8HhmuHEHSSbZSr10EdZr/oaWyDox7uM7eXWGkHTnPQDgBvIoAw5YUeTGk60kBTjcJlJyqA5CUpsLyDJSNDejMtvXOSLswcSoWMFICn955iXXn8XcIcjyJhmzm82KV1bzU/1TTCtDWSndel9moyjko+na+Miu7Auzsk6Mfp'}}
0:34:05.521141	LOG	Server ----------> DUT
0:34:05.524138	LOG	Send Test Command TxFramesCtrlReq process completed
0:34:05.528136	LOG	Send Test Command TxFramesCtrlReq process starts
0:34:10.513098	LOG	PUSH_ACK: 02 1a6e 01
0:34:10.517092	LOG	PUSH_DATA: Protocol version = 02, Token = 1a6e, Identifier = 00, JSON = {'rxpk': [{'tmst': 1500930606, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAnwEBXvYiJykN'}]}
0:34:10.522089	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 019f, FOpts:), FPort: 01, FRMPayload: 017b, MIC: 2227290d)
0:34:10.525087	LOG	Server <---------- DUT
0:34:10.527085	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04e1, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		07000101010101010101010

0:34:25.520068	LOG	PUSH_DATA: Protocol version = 02, Token = 1a71, Identifier = 00, JSON = {'rxpk': [{'tmst': 1515938478, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': 0, 'size': 15, 'data': 'QCAgICCAogEBvsY8OtiU'}]}
0:34:25.522066	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01a2, FOpts:), FPort: 01, FRMPayload: 017e, MIC: 3c3ad894)
0:34:25.524066	LOG	Server <---------- DUT
0:34:25.526065	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04e4, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		hwtGSTQKlHvNnri043Alp+vxI44DmjXKRP7VduiSokwpqzOy1KdR5aIN7kmVCkaafr2Ig1Kmol5hDF3qYg8QKY4+MCAuOIgEaYE'}}
0:34:30.534758	LOG	Server ----------> DUT
0:34:30.538756	LOG	Send Test Command TxFramesCtrlReq process completed
0:34:30.542755	LOG	Send Test Command TxFramesCtrlReq process starts
0:34:31.166247	LOG	PULL_DATA: 02 2888 02 aa555a0000240409
0:34:31.167249	LOG	PULL_ACK: 02 2888 04
0:34:35.523750	LOG	PUSH_ACK: 02 1a74 01
0:34:35.525750	LOG	PUSH_DATA: Protocol version = 02, Token = 1a74, Identifier = 00, JSON = {'rxpk': [{'tmst': 1525943735, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -3, 'size': 15, 'data': 'QCAgICCApAEBfXkwlgL4'}]}
0:34:35.527747	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01a4, FOpts:), FPort: 01, FRMPayload: 0180, MIC: 309602f8)
0:34:35.528746	LOG	Server <---------- DUT
0:34:35.530745	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04e6, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:34:40.550415	LOG	Frame command sent to the DUT
0:34:40.554413	LOG	PULL_RESP: Protocol version = 02, Token = 0dc5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1532946366, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAA5wTgkRezKStZAdZXEyzgUKEtboJh4d3a24YVBSkl2ne4twXT2voS4GS31eX/7TNg8yGm6MR6B0t6uK8Rcy6dxB2xjzFitv9tFqb/XwyzMe+KGVJMFhK7J1Wzb/xGPHojLheyu0fBbCj8ZA0x0Mv5H5Ay/DIMvWZYfpNP1AZ8F1ojTCGwG8tESFV0EDcN7HA1fVi2I+JFVdd3I74+1VAs5xe53fZkQmUbu7Rl/jYaiIDLXMh/wf87B0OBRSG647h7DacBUEPwL5/xFDgQBIG7wDpqTtNMz2daPjdk2XKjqxAGbwgGtJlrAgZratTGm1Nder6/AdiY2Uoj'}}
0:34:40.555411	LOG	Server ----------> DUT
0:34:40.559409	LOG	Send Test Command TxFramesCtrlReq process completed
0:34:40.563406	LOG	Send Test Command TxFramesCtrlReq process starts
0:34:41.186091	LOG	PULL_DATA: 02 d6a1 02 aa555a0000240409
0:34:41.191118	LOG	PULL_ACK: 02 d6a1 04
0:34:45.528625	LOG	PUSH_ACK: 02 1a77 01
0:34:45.533622	LOG	PUSH_DATA: Protocol version = 02, Token = 1a77, Identifier = 00, JSON = {'rxpk': [{'tmst': 1535948996, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -3, 'size': 15, 'data': 'QCAgICCApgEBNpgKucOC'}]}
0:34:45.535621	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01a6, FOpts:), FPort: 01, FRMPayload: 0182, MIC: 0ab9c382)
0:34:45.536620	LOG	Server <---------- DUT
0:34:45.539619	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04e8, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:34:50.538351	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04e9, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:35:00.538437	LOG	PUSH_ACK: 02 1a7a 01
0:35:00.540435	LOG	PUSH_DATA: Protocol version = 02, Token = 1a7a, Identifier = 00, JSON = {'rxpk': [{'tmst': 1550956870, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAqQEBJzSHpznn'}]}
0:35:00.541435	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01a9, FOpts:), FPort: 01, FRMPayload: 0185, MIC: 87a739e7)
0:35:00.542435	LOG	Server <---------- DUT
0:35:00.544434	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04eb, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		skxCC7Rma0qPDtliBYD1nigoGewakACWWjif0tLB8/2GaChG5cfb9ZjD/cH6OY7ddZYfmhuvcPu+o5YM7GOzhs3+Gh+DJLE0t90Y91QEU4IYFVlek8Nn4CT5iJUBlrzLf0zUbmiaKjWeeI3v/egLuFiGRtwoKxHmMnLfSKMrNMtH5oJQ4tK94qmZ6panlJ8EYrsAkgY1IH7ZTqdjeAHImkXLRM1UqEpWSn2fqO48kIUbNTabfAumH590LX8crC3+hA/tXH/GXhF8sQrzS3kOF2J'}}
0:35:05.554310	LOG	Server ----------> DUT
0:35:05.557306	LOG	Send Test Command TxFramesCtrlReq process completed
0:35:05.560306	LOG	Send Test Command TxFramesCtrlReq process starts
0:35:10.543588	LOG	PUSH_ACK: 02 1a7d 01
0:35:10.545586	LOG	PUSH_DATA: Protocol version = 02, Token = 1a7d, Identifier = 00, JSON = {'rxpk': [{'tmst': 1560962120, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAqwEBujPXqc/B'}]}
0:35:10.547584	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01ab, FOpts:), FPort: 01, FRMPayload: 0187, MIC: d7a9cfc1)
0:35:10.549583	LOG	Server <---------- DUT
0:35:10.551582	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04ed, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: f41443ab)
0:35:15.558839	LOG	Frame command sent to the DUT
0:35:15.559839	LOG	PULL_RESP: Protocol version = 02, Token = c600, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1567964741, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAA7gTgd/BkQIht4gJNFzKdjaBiB+gRZt8jntzjIEZ3JWSpRdElZHfyUFCkJJpq2pPga3R1rw3WldlBTzy0auYkp9PqZURP+DNKPDv7/B2YPiID5snReKWSWzczWWVOrNIJ0mQNLNusRH8/oW0jpPOdZ3szCDdQGRnGxwJWAL+2U4WSH7BdIWqtKOHe1jwxtLHafE+Gl8f0dEjl3I+jTdXmRIWIYxwLZKjS8OADWOv+e3e14gJpfyI6mLiYi5JTRDOFNxd1tgJlVLJoAOrXHOxmaubHovdLSknemKbEGqqee9KW/jX/cy1OSGO3XrsbTygKT8bAze70FEOr'}}
0:35:15.560839	LOG	Server ----------> DUT
0:35:15.563835	LOG	Send Test Command TxFramesCtrlReq process completed
0:35:15.567835	LOG	Send Test Command TxFramesCtrlReq process starts
0:35:20.549176	LOG	PUSH_ACK: 02 1a7f 01
0:35:20.551175	LOG	PUSH_DATA: Protocol version = 02, Token = 1a7f, Identifier = 00, JSON = {'rxpk': [{'tmst': 1570967354, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -2, 'size': 15, 'data': 'QCAgICCArQEBOVmbKlA1'}]}
0:35:20.553174	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01ad, FOpts:), FPort: 01, FRMPayload: 0189, MIC: 9b2a5035)
0:35:20.554173	LOG	Server <---------- DUT
0:35:20.556172	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04ef, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101

0:35:25.555333	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01ae, FOpts:), FPort: 01, FRMPayload: 018a, MIC: dc8c05cc)
0:35:25.556335	LOG	Server <---------- DUT
0:35:25.558332	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04f0, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:35:30.572824	LOG	Send Test Command TxFramesCtrlReq process starts
0:35:31.826229	LOG	PULL_DATA: 02 f654 02 aa555a0000240409
0:35:31.828228	LOG	PULL_ACK: 02 f654 04
0:35:35.557112	LOG	PUSH_ACK: 02 1a83 01
0:35:35.561109	LOG	PUSH_DATA: Protocol version = 02, Token = 1a83, Identifier = 00, JSON = {'rxpk': [{'tmst': 1585975197, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAsAEBJFjG/jHx'}]}
0:35:35.566106	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01b0, FOpts:), FPort: 01, FRMPayload: 018c, MIC: c6fe31f1)
0:35:35.569104	LOG	Server <---------- DUT
0:35:35.575101	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04f2, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		'size': 255, 'data': 'YCAgICAA8wTg4RWCXNm9acnbmxL3OXLp/ErwqfETSVrCo7nLXnnB9WEOeO7uMyjb0HLFomDSCcaLEBIQRpLTu4E4+NfZ6VkG8bHQRVb/hALMFu0rij0uNKFjpcqLB4Zp2FYGIqRKp5qdKQ3j0/iXvIzgSo6ZWfFGEN91BYDDGImhshi4RRHzfXTrhwXvy7lPvVTStt/KSXD9S0yy8MCX1mJ0WQEM6EVRvR3g5TKYNNSS70F4KGO2hLP0UvNUiFIYgjMZawtq08+gp7PFJxB5l/A53F3dXljqax+UhrNwoZQ5+qzSnbuerQx7y+jZCO/ztmq409UgpHxYViP7gGUM'}}
0:35:40.572425	LOG	Server ----------> DUT
0:35:40.574424	LOG	Send Test Command TxFramesCtrlReq process completed
0:35:40.578451	LOG	Send Test Command TxFramesCtrlReq process starts
0:35:41.835885	LOG	PULL_DATA: 02 8806 02 aa555a0000240409
0:35:41.837884	LOG	PULL_ACK: 02 8806 04
0:35:45.561843	LOG	PUSH_ACK: 02 1a86 01
0:35:45.567841	LOG	PUSH_DATA: Protocol version = 02, Token = 1a86, Identifier = 00, JSON = {'rxpk': [{'tmst': 1595980433, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -1, 'size': 15, 'data': 'QCAgICCAsgEBkQkwR4JB'}]}
0:35:45.569839	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01b2, FOpts:), FPort: 01, FRMPayload: 018e, MIC: 30478241)
0:35:45.570839	LOG	Server <---------- DUT
0:35:45.572838	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04f4, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: c3c94d43)
0:35:50.573792	LOG	Frame command sent to the DUT
0:35:50.575791	LOG	PULL_RESP: Protocol version = 02, Token = 547b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1602983063, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAA9QTgvgVOTvF7Qi4jEFrNS1uVJt80aIEEB6z4GehPpWOgRW+UAR7skXdTY9lsK6vNCFApwN6DLNqzz8N4PQsHUsrOcKM9UyhpMbmzWTEy3QbhMdVAYcZW7no/hctDVD73UHp8bw/PAry0th8SF75aAeSsKO0zG0UL0GUWLfOl3+yVT84hfyBHf1LMvXBJDSsKG0L2JXORwMUn7q+X4inlCwoptn5Efv6cO3gD/SWlT8GOLHcLKNJfto5N2+3EszDQy1CYkhYPPU2Z+pQY9KzeB/DCT0kDtIIXgtz8xC+c5LZerVK4t2BXDXiIenKSDBYDlDFG/sLDyU1D'}}
0:35:50.576790	LOG	Server ----------> DUT
0:35:50.578789	LOG	Send Test Command TxFramesCtrlReq process completed
0:35:50.581787	LOG	Send Test Command TxFramesCtrlReq process starts
0:35:52.046162	LOG	PULL_DATA: 02 0dd4 02 aa555a0000240409
0:35:52.048161	LOG	PULL_ACK: 02 0dd4 04
0:35:55.567225	LOG	PUSH_ACK: 02 1a88 01
0:35:55.569223	LOG	PUSH_DATA: Protocol version = 02, Token = 1a88, Identifier = 00, JSON = {'rxpk': [{'tmst': 1605985686, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -4, 'size': 15, 'data': 'QCAgICCAtAEBuvufL0Ha'}]}
0:35:55.571224	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01b4, FOpts:), FPort: 01, FRMPayload: 0190, MIC: 9f2f41da)
0:35:55.572222	LOG	Server <---------- DUT
0:35:55.574221	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04f6, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 177721b2)
0:35:55.576220	LOG	Frame command sent to the DUT
0:35:55.578219	LOG	PULL_RESP: Protocol version = 02, Token = 52d1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1607985686, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAA9gTgn0t8s/dq+OK2Viqr8ydUbpYOutn4w+DT/QdBbqbhLpc/HAhKHBXVqjfhR/gDd8264kfK5JKnVx//wUPnOXL8DZuCR76J7LNf8Ckc9ajP7jMrNSb8WcI6O59Y+1pYrbeSLh4pCZUlZkiZtVo0uveyJJ6PYyjFt/bSw8SAkaP02HTFbgRRmvXDbYk2sD+Fm61L+xyXby8lZ7Ey9i7V54+YvHgSxiUmm96SrTBjeyRynb8J1zqNQ+PRGJWgYQVNhCZebFp4yKJPpGfHqcvIrEBmKe0BgJSCJPZzY1ldeMGSi9m0YwL9W9jNUv1NivptPwJKieAXdyGy'}}
0:35:55.579220	LOG	Server ----------> DUT
0:35:55.582217	LOG	Send Test Command TxFramesCtrlReq process completed
0:35:55.586214	LOG	Send Test Command TxFramesCtrlReq process starts
0:36:00.569751	LOG	PUSH_ACK: 02 1a89 01
0:36:00.571749	LOG	PUSH_DATA: Protocol version = 02, Token = 1a89, Identifier = 00, JSON = {'rxpk': [{'tmst': 1610988308, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -4, 'size': 15, 'data': 'QCAgICCAtQEBNoUKAcjJ'}]}
0:36:00.573747	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01b5, FOpts:), FPort: 01, FRMPayload: 0191, MIC: 0a01c8c9)
0:36:00.575746	LOG	Server <---------- DUT
0:36:00.577745	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04f7, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		fs1wUnwO98EQqlJXWGZvk2gigUT9X6sld5xBOKYfkepm6SuZfnn8YBVCb1IT1cMewcvhY2S5knpeBAVdONBAU/Nu/oDqR+tiiX'}}
0:36:05.583665	LOG	Server ----------> DUT
0:36:05.586663	LOG	Send Test Command TxFramesCtrlReq process completed
0:36:05.589663	LOG	Send Test Command TxFramesCtrlReq process starts
0:36:10.573982	LOG	PUSH_ACK: 02 1a8c 01
0:36:10.575981	LOG	PUSH_DATA: Protocol version = 02, Token = 1a8c, Identifier = 00, JSON = {'rxpk': [{'tmst': 1620993558, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -1, 'size': 15, 'data': 'QCAgICCAtwEBxb84CDug'}]}
0:36:10.576980	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01b7, FOpts:), FPort: 01, FRMPayload: 0193, MIC: 38083ba0)
0:36:10.577980	LOG	Server <---------- DUT
0:36:10.579979	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04f9, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:36:15.588360	LOG	Frame command sent to the DUT
0:36:15.590356	LOG	PULL_RESP: Protocol version = 02, Token = 41f1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1627996180, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAA+gTgCREQ+6hGOYbgtk+POOMr+dRi2KYzzOwc26x0XPMQSi+s4w+N4ODfEE+mkNLq+MtZDuIIrcQK08KmmwRpZSsW7HZ6BxkrDyiyHbml2+ToLCpfWaDJLqD2dveFZCfmaHLjqXWY0TJ8Hdax1JhSKUve/ACcAx8+Q2r8j7VJvVzCVIMdPSuU+QVarExTdxy5Cg7BG8Bsm1tWmuI6uroDTylqyjPPbcohu3Cw7KCiBb6HqyOr1dRv2uMzMvVy5LnU3JqkIBOfe1TSIPFEr0DqM/ypLMXIUHKSA9GG40K9TKsyYF3pWQIMqAEUQs7GIDoZ18bjC9LHjYTH'}}
0:36:15.591359	LOG	Server ----------> DUT
0:36:15.594353	LOG	Send Test Command TxFramesCtrlReq process completed
0:36:15.598349	LOG	Send Test Command TxFramesCtrlReq process starts
0:36:20.579939	LOG	PUSH_ACK: 02 1a8e 01
0:36:20.584936	LOG	PUSH_DATA: Protocol version = 02, Token = 1a8e, Identifier = 00, JSON = {'rxpk': [{'tmst': 1630998802, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAuQEByIPX3bOW'}]}
0:36:20.588934	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01b9, FOpts:), FPort: 01, FRMPayload: 0195, MIC: d7ddb396)
0:36:20.591933	LOG	Server <---------- DUT
0:36:20.596929	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04fb, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:36:25.588312	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04fc, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:36:35.586671	LOG	PUSH_ACK: 02 1a92 01
0:36:35.589672	LOG	PUSH_DATA: Protocol version = 02, Token = 1a92, Identifier = 00, JSON = {'rxpk': [{'tmst': 1646006671, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -4, 'size': 15, 'data': 'QCAgICCAvAEBMDBuaSwh'}]}
0:36:35.590670	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01bc, FOpts:), FPort: 01, FRMPayload: 0198, MIC: 6e692c21)
0:36:35.592668	LOG	Server <---------- DUT
0:36:35.594666	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 04fe, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		uR3FDi6Q6uOqmpKntVFhsZxDQskucHpvT8ojJ85BHxYMW7KO2Opar3MUXQqI6NT5lx4/TSmxOZBo0AbxJQ6lrwIpJeBZn30uDDuM1sNdR8wrIC3cXenjDxv4dQhGaPU8QxFSgE5g9gbLc38iG6gAMNkGdkCgCdE'}}
0:36:40.601447	LOG	Server ----------> DUT
0:36:40.604445	LOG	Send Test Command TxFramesCtrlReq process completed
0:36:40.607443	LOG	Send Test Command TxFramesCtrlReq process starts
0:36:42.495862	LOG	PULL_DATA: 02 c76a 02 aa555a0000240409
0:36:42.497861	LOG	PULL_ACK: 02 c76a 04
0:36:45.591104	LOG	PUSH_ACK: 02 1a94 01
0:36:45.595103	LOG	PUSH_DATA: Protocol version = 02, Token = 1a94, Identifier = 00, JSON = {'rxpk': [{'tmst': 1656011915, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAvgEBnqjUVML+'}]}
0:36:45.597103	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01be, FOpts:), FPort: 01, FRMPayload: 019a, MIC: d454c2fe)
0:36:45.598102	LOG	Server <---------- DUT
0:36:45.600101	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0500, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		0101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 6278057b)
0:36:50.602143	LOG	Frame command sent to the DUT
0:36:50.604142	LOG	PULL_RESP: Protocol version = 02, Token = 3c1c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1663014529, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAAAQXgjUAN05Uk43dwG3CUSkP00pBjBWp8vXN3KN//FVIePjPjZaMcDuJaEqYDp8vySlDAFoznLeD1nBlLbuuTPLhki5L+IrVK+wMWPTYOsrTQMJKqDuMplGf6/hu8BSqNVHGjWpw3yyn0k1eQbpv+JbMfIRDIqrm4ldEmti7iMxLZBxqatrxRkoIy4DulnShPCbDt2VftFouZuh/QS4GNprZ3DDdNF26EJk5Xk/SaifbFm3R4BB6T8fz6C63LgZZ2faSUsk8zK+39ALDLBYTMp4te0Zx6W3tJ5IIBY0yQqKVDAoMww44g7Qlr9NJfLsNJnt5gAvpieAV7'}}
0:36:50.605143	LOG	Server ----------> DUT
0:36:50.608139	LOG	Send Test Command TxFramesCtrlReq process completed
0:36:50.610156	LOG	Send Test Command TxFramesCtrlReq process starts
0:36:52.705183	LOG	PULL_DATA: 02 5c71 02 aa555a0000240409
0:36:52.708183	LOG	PULL_ACK: 02 5c71 04
0:36:55.596542	LOG	PUSH_ACK: 02 1a96 01
0:36:55.598540	LOG	PUSH_DATA: Protocol version = 02, Token = 1a96, Identifier = 00, JSON = {'rxpk': [{'tmst': 1666017144, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 6.8, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAwAEBC64gadIY'}]}
0:36:55.600541	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01c0, FOpts:), FPort: 01, FRMPayload: 019c, MIC: 2069d218)
0:36:55.601538	LOG	Server <---------- DUT
0:36:55.604539	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0502, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101

0:37:00.604114	LOG	Server <---------- DUT
0:37:00.606112	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0503, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:37:05.621301	LOG	Send Test Command TxFramesCtrlReq process starts
0:37:10.604471	LOG	PUSH_ACK: 02 1a9b 01
0:37:10.607471	LOG	PUSH_DATA: Protocol version = 02, Token = 1a9b, Identifier = 00, JSON = {'rxpk': [{'tmst': 1681025029, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAwwEBgDCt33wm'}]}
0:37:10.608468	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01c3, FOpts:), FPort: 01, FRMPayload: 019f, MIC: addf7c26)
0:37:10.610467	LOG	Server <---------- DUT
0:37:10.612466	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0505, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		'size': 255, 'data': 'YCAgICAABgXg16lHvenwLWB6BNeXOPuDnq4lNICaL/CouZzCfDJPWhTh3s5IeesHZK8/IEb2pEgPupcjaAH8EHPFHbGDuQhav+GVt6HYCjITEqi/MKeBFfQrOTVyJuVx9g/9wpgzWRiLVWNa03FaFGswH54jihmch7IK095dxO79MpiK8kC5mEMNaLXoTvMX+6SdasKfHjOmhztJD3aJc0Oxul6Z8vH61ujfOCPN2CZZzSWU2m9BFDBwlt9n9gIGwXQWE44KUWZheB4QC7diZabmoR6w1d+bJLR9p7gU98Tz1qVHJZYc35G///OckGwF+oSfkBU5zIvMKNrqtKl8'}}
0:37:15.620236	LOG	Server ----------> DUT
0:37:15.623206	LOG	Send Test Command TxFramesCtrlReq process completed
0:37:15.628232	LOG	Send Test Command TxFramesCtrlReq process starts
0:37:20.610216	LOG	PUSH_ACK: 02 1a9d 01
0:37:20.613217	LOG	PUSH_DATA: Protocol version = 02, Token = 1a9d, Identifier = 00, JSON = {'rxpk': [{'tmst': 1691030271, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAxQEBKkFuL4qA'}]}
0:37:20.614214	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01c5, FOpts:), FPort: 01, FRMPayload: 01a1, MIC: 6e2f8a80)
0:37:20.616213	LOG	Server <---------- DUT
0:37:20.617212	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0507, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: c53b8226)
0:37:25.622011	LOG	Frame command sent to the DUT
0:37:25.624011	LOG	PULL_RESP: Protocol version = 02, Token = 75fb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1698032894, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAACAXgdy5oi+RzjBayB3ACwNhvGHEuwWDmN7I3vYWIzhfBnXlZSGoIk1PsqVdWAAmKRAoOwwfHXwsOKLTySV1YbG4ZWU5mxaqwmC922FnT4N1AKSmYmIKjcYlhK2L7TK86bGXht5aMWbUBFiyJ/kvo7hTrLDf467mkuL0KUQJ6KX70qwbpHaaixOQm8pZPPuRDiinBzUrhCUwnn9F/UjNdM3io7g5TxZPsfDhDDmgPA83kUAcueYovqzg7qHBBd49X6DAJB+4DQYT32oqu2Cm3sqCxLz5Gyt8z/av7McWXJTieIKXAGeihzK41RUV9RWYOJSlbPqzFO4Im'}}
0:37:25.625010	LOG	Server ----------> DUT
0:37:25.628027	LOG	Send Test Command TxFramesCtrlReq process completed
0:37:25.631006	LOG	Send Test Command TxFramesCtrlReq process starts
0:37:30.616347	LOG	PUSH_ACK: 02 1aa0 01
0:37:30.619345	LOG	PUSH_DATA: Protocol version = 02, Token = 1aa0, Identifier = 00, JSON = {'rxpk': [{'tmst': 1701035525, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAxwEBUbkDb+NK'}]}
0:37:30.620345	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01c7, FOpts:), FPort: 01, FRMPayload: 01a3, MIC: 036fe34a)
0:37:30.621344	LOG	Server <---------- DUT
0:37:30.624342	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0509, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: b6595847)
0:37:30.626341	LOG	Frame command sent to the DUT
0:37:30.628340	LOG	PULL_RESP: Protocol version = 02, Token = 1c21, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1703035525, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAACQXgMi5s2/jc5vr3NjacBSQrEdpAf6TnT95k8jHQJ72qK52k/kFoRt07b5bOCP7AAkr9Aoqgo378pykYqu6a7MkiXb0Cj9JlgoUgx7zwbAMJ+gjk1Se9vaFddVcfRNe2ent2kH3Tvp98d3lhSlOXPnkKzxlrGHn+gxFWoEMSONoO2kcOR4yKQgKR8ncgUWaOjBr8o53l6Gb4swYi3VcmJ0trmvqSkPRMyTqLoK/7gNCKx2zm3UMJv+qbcO246fKaSMCzYKK9eqFdV3j4t7mFi0ubKw5qUZiwNcX5U7urn11bBJ4C8XQUcI5+R5jNNs70u5vZEhy2WVhH'}}
0:37:30.629340	LOG	Server ----------> DUT
0:37:30.631338	LOG	Send Test Command TxFramesCtrlReq process completed
0:37:30.634336	LOG	Send Test Command TxFramesCtrlReq process starts
0:37:33.144847	LOG	PULL_DATA: 02 7094 02 aa555a0000240409
0:37:33.146846	LOG	PULL_ACK: 02 7094 04
0:37:35.619446	LOG	PUSH_ACK: 02 1aa2 01
0:37:35.623446	LOG	PUSH_DATA: Protocol version = 02, Token = 1aa2, Identifier = 00, JSON = {'rxpk': [{'tmst': 1706038155, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAyAEBKU8dHo0A'}]}
0:37:35.625443	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01c8, FOpts:), FPort: 01, FRMPayload: 01a4, MIC: 1d1e8d00)
0:37:35.626441	LOG	Server <---------- DUT
0:37:35.629441	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 050a, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:37:40.632979	LOG	Server ----------> DUT
0:37:40.636975	LOG	Send Test Command TxFramesCtrlReq process completed
0:37:40.645988	LOG	Send Test Command TxFramesCtrlReq process starts
0:37:43.154601	LOG	PULL_DATA: 02 228f 02 aa555a0000240409
0:37:43.157600	LOG	PULL_ACK: 02 228f 04
0:37:45.623200	LOG	PUSH_ACK: 02 1aa4 01
0:37:45.626198	LOG	PUSH_DATA: Protocol version = 02, Token = 1aa4, Identifier = 00, JSON = {'rxpk': [{'tmst': 1716043403, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAygEBS2pEHkgP'}]}
0:37:45.628197	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01ca, FOpts:), FPort: 01, FRMPayload: 01a6, MIC: 441e480f)
0:37:45.630197	LOG	Server <---------- DUT
0:37:45.632195	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 050c, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:37:50.637299	LOG	PULL_RESP: Protocol version = 02, Token = 637d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1723046025, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAADQXgxfNg+ogvYqijvVABURsQ365zjTk9e8Po08xLa1ElR20xY+2yEWgtb+UUdbSG7ZIsxH73KyK3Kkg2NYEJmaMZPDb+adVSDbN0/LtoBq3s6idfWK7lps/twyobFVp68EgmTnHkcubQh/4vaBT5rIVVYCPvA1EJ1zM92NmcbZD6gtDTgFpI89uuIy9TJD6j4EcOCNV+gTntfDvefz7mU9rI4K9xugcSfU1qo+h8xD/Lvxu0+zXiwFF8d2U50jCKUGJmyXEL5slyKhP3bS4DR/BO5BnqmQaaImbSHKKXV60W6kwA7bKN837gZ5IYBjdProbv7FuT6kaq'}}
0:37:50.639298	LOG	Server ----------> DUT
0:37:50.643296	LOG	Send Test Command TxFramesCtrlReq process completed
0:37:50.646295	LOG	Send Test Command TxFramesCtrlReq process starts
0:37:53.164743	LOG	PULL_DATA: 02 e968 02 aa555a0000240409
0:37:53.167742	LOG	PULL_ACK: 02 e968 04
0:37:55.630344	LOG	PUSH_ACK: 02 1aa6 01
0:37:55.632342	LOG	PUSH_DATA: Protocol version = 02, Token = 1aa6, Identifier = 00, JSON = {'rxpk': [{'tmst': 1726048647, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAzAEBey6a9oT4'}]}
0:37:55.633342	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01cc, FOpts:), FPort: 01, FRMPayload: 01a8, MIC: 9af684f8)
0:37:55.635341	LOG	Server <---------- DUT
0:37:55.636341	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 050e, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010

		07000101010101010101010

0:38:10.639871	LOG	PUSH_DATA: Protocol version = 02, Token = 1aaa, Identifier = 00, JSON = {'rxpk': [{'tmst': 1741056521, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAzwEBGYgh2DbR'}]}
0:38:10.641869	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01cf, FOpts:), FPort: 01, FRMPayload: 01ab, MIC: 21d836d1)
0:38:10.642868	LOG	Server <---------- DUT
0:38:10.645867	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0511, FOpts:), FPort: e0, FRMPayload: 070001010101010101010101

		zJqQvQnDfXTpAuL/dwBUHI0df/yafCDpYtmKkZ1oDiBhc8/ZBeJt6gyIsq6jBZhR AKBO5IMafE09oJR6pJ3WBT5pes0BvFf5brlT69kr39Ndmv+Rkqjbpw9w5x6o0sz WwmBCEJUmQ1wTaRPFDl0QOjJrKclP554xllF4V/uYP319dU1y5AqKOjoTMY2 xPzS2PyhKIfjCaMPI3/LJhlMdUg6ZEuIq70f'}}
0:38:15.654279	LOG	Server ----------> DUT
0:38:15.657277	LOG	Send Test Command TxFramesCtrlReq process completed
0:38:15.660276	LOG	Send Test Command TxFramesCtrlReq process starts
0:38:20.642776	LOG	PUSH_ACK: 02 1aac 01
0:38:20.644774	LOG	PUSH_DATA: Protocol version = 02, Token = 1aac, Identifier = 00, JSON = {'rxpk': [{'tmst': 1751061780, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -3, 'size': 15, 'data': 'QCAgICCA0QEBk5mGH3k+'}]}
0:38:20.646774	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01d1, FOpts:), FPort: 01, FRMPayload: 01ad, MIC: 861f793e)
0:38:20.647774	LOG	Server <---------- DUT
0:38:20.650771	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0513, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 8f793c40)
0:38:20.652770	LOG	Frame command sent to the DUT
0:38:20.654769	LOG	PULL_RESP: Protocol version = 02, Token = 5949, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1753061780, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAAEwXgt2FC2OhVrMl5AW0Ns1Qhg7+bt/sIKemDk3Re+qfgGTmRmL GO2jMX7TbkETBXef387Puw6y7pdju8b1yuhPV1N4w+yJBY+LYtloNQBzm3w5 L28Y3sM6EAgIO5IlWhoqUad1tST4OIZI4jzI10l96BgUujhiCaMfoNvdoAPFnXJic 4kK9xCmuyeedKkX6dHgzHS/jfub7hJLCrY7J+/j4Y/t+a1AAlA5Sx7yuNaQe13HV sZoaDakSgFiD30sBz9+1LaWuE2YAjJS02ZY/6gArvGEQ4Yz9vSiIfhTLfrThNGT nMc4s683WgT85Htaz4Ms5UMzePeTxA'}}
0:38:20.656768	LOG	Server ----------> DUT
0:38:20.659768	LOG	Send Test Command TxFramesCtrlReq process completed
0:38:20.662764	LOG	Send Test Command TxFramesCtrlReq process starts
0:38:23.595099	LOG	PULL_DATA: 02 e6c9 02 aa555a0000240409
0:38:23.596100	LOG	PULL_ACK: 02 e6c9 04
0:38:25.644936	LOG	PUSH_ACK: 02 1aad 01
0:38:25.648934	LOG	PUSH_DATA: Protocol version = 02, Token = 1aad, Identifier = 00, JSON = {'rxpk': [{'tmst': 1756064411, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -1, 'size': 15, 'data': 'QCAgICCA0gEBfErD3kyP'}]}
0:38:25.652932	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01d2, FOpts:), FPort: 01, FRMPayload: 01ae, MIC: c3de4c8f)
0:38:25.656929	LOG	Server <---------- DUT
0:38:25.661927	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0514, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101

		0101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c864701d)
0:38:25.663925	LOG	Frame command sent to the DUT
0:38:25.664924	LOG	PULL_RESP: Protocol version = 02, Token = 897f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1758064411, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAAFAXgjaeY2+/HbdjKf4GQlOn8zzCysKuo2yygGVZu8HVU5C6ddoxokiv2lZkWbpMR5zzlGebSJZQK8S4kjIrF6DJGN73FyQPGSv7ki6psJpFsjUbD6vnqeKoDeiR+PLTqHHs0RC4G1RMGATjaLsyxi9aVJ9qbDW8zAVlR088tvppunag2ajS1+ongWeEGTtesWbKNS8470G87rKmyWMri+kE8Yy9/6UZZjNHFiolkg813GYjaoHtxwoYAOR+8Jahs4B6Pp5b4K/PlnDzBxgBDDwXgqfwWdMFh74222Z9K3JxuUByLi8Sj27lpKYSpDZj8gpzgyrTIZHAd'}}
0:38:25.665924	LOG	Server ----------> DUT
0:38:25.669926	LOG	Send Test Command TxFramesCtrlReq process completed
0:38:25.673919	LOG	Send Test Command TxFramesCtrlReq process starts
0:38:30.648860	LOG	PUSH_ACK: 02 1aae 01
0:38:30.650858	LOG	PUSH_DATA: Protocol version = 02, Token = 1aae, Identifier = 00, JSON = {'rxpk': [{'tmst': 1761067033, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -2, 'size': 15, 'data': 'QCAgICCA0wEBb6279Wj6'}]}
0:38:30.652860	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01d3, FOpts:), FPort: 01, FRMPayload: 01af, MIC: bbf568fa)
0:38:30.653859	LOG	Server <---------- DUT
0:38:30.655853	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0515, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101

0:38:35.654426	LOG	Server <---------- DUT
0:38:35.656426	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0516, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:38:45.726293	LOG	Partial Verdict: PASS
0:38:45.731290	LOG	==========
0:38:45.739285	LOG	==========
0:38:45.742283	LOG	Start Test Step: Test packet error rate for FSK50 using RX2 window
0:38:45.775265	LOG	Send RXParamSetupReq process starts
0:38:50.676708	LOG	PUSH_ACK: 02 1ab3 01
0:38:50.678707	LOG	PUSH_DATA: Protocol version = 02, Token = 1ab3, Identifier = 00, JSON = {'rxpk': [{'tmst': 1781077535, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -3, 'size': 15, 'data': 'QCAgICCA1wEBHQlmhjLV'}]}
0:38:50.679706	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01d7, FOpts:), FPort: 01, FRMPayload: 01b2, MIC: 668632d5)
0:38:50.680706	LOG	Server <---------- DUT
0:38:50.682705	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0518, FOpts:), FPort: 00, FRMPayload: 0507d2ad84), MIC: 456785af)
0:38:50.684704	LOG	PULL_RESP: Protocol version = 02, Token = 3a44, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1783077535, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAGAUAI5rln2JFZ4Wv'}}
0:38:50.685703	LOG	Server ----------> DUT
0:38:50.690700	LOG	TX_ACK: 02 3a44 05 aa555a0000240409
0:38:53.624614	LOG	PULL_DATA: 02 0f78 02 aa555a0000240409
0:38:53.626613	LOG	PULL_ACK: 02 0f78 04
0:38:55.644467	LOG	PUSH_ACK: 02 1ab4 01
0:38:55.646466	LOG	PUSH_DATA: Protocol version = 02, Token = 1ab4, Identifier = 00, JSON = {'rxpk': [{'tmst': 1786085307, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -2, 'size': 17, 'data': 'QCAgICCC2AEFBwHnEYy1+KQ='}]}
0:38:55.647465	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 01d8, FOpts: 0507), FPort: 01, FRMPayload: 01b2, MIC: 8cb5f8a4)
0:38:55.649464	LOG	Server <---------- DUT
0:38:55.650464	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:38:55.651463	LOG	Command Answer: 0507
0:38:55.664455	LOG	MAC command communication completed
0:38:55.672452	LOG	Send Test Command RxAppCntReq process starts
0:39:00.686766	LOG	PUSH_ACK: 02 1ab6 01
0:39:00.688765	LOG	PUSH_DATA: Protocol version = 02, Token = 1ab6, Identifier = 00, JSON = {'rxpk': [{'tmst': 1791087931, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -3, 'size': 17, 'data': 'QCAgICCC2QEFBwHRIJnBZKU='}]}
0:39:00.690764	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 01d9, FOpts: 0507), FPort: 01, FRMPayload: 01b2, MIC: 99c164a5)
0:39:00.691763	LOG	Server <---------- DUT
0:39:00.693762	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0519, FOpts:), FPort: e0, FRMPayload: 09), MIC: b9f6feac)
0:39:00.696761	LOG	Frame command sent to the DUT
0:39:00.697761	LOG	PULL_RESP: Protocol version = 02, Token = e6ab, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1793087931, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 14, 'data': 'YCAgICAAGQXgobn2/qw='}}
0:39:00.698761	LOG	Server ----------> DUT
0:39:00.702758	LOG	TX_ACK: 02 e6ab 05 aa555a0000240409
0:39:03.634770	LOG	PULL_DATA: 02 814d 02 aa555a0000240409
0:39:03.636769	LOG	PULL_ACK: 02 814d 04
0:39:05.682613	LOG	PUSH_ACK: 02 1ab8 01

0:39:05.685607	LOG	PUSH_DATA: Protocol version = 02, Token = 1ab8, Identifier = 00, JSON = {'rxpk': [{'tmst': 1796093455, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -4, 'size': 16, 'data': 'QCAgICCA2gHgsBOsM+Q12g=='}]}
0:39:05.687606	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01da, FOpts:), FPort: e0, FRMPayload: 09b301, MIC: 33e435da)
0:39:05.688605	LOG	Server <---------- DUT
0:39:05.690604	LOG	Answer in payload: b301
0:39:05.691603	LOG	Frame Command Payload in the Answer: 09b301
0:39:05.696601	LOG	RX Count received by DUT: 435
0:39:05.699598	LOG	Send Test Command RxAppCntReq process completed
0:39:05.702596	LOG	Send Test Command TxFramesCtrlReq process starts
0:39:10.671644	LOG	PUSH_ACK: 02 1ab9 01
0:39:10.673645	LOG	PUSH_DATA: Protocol version = 02, Token = 1ab9, Identifier = 00, JSON = {'rxpk': [{'tmst': 1801087975, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -1, 'size': 15, 'data': 'QCAgICCA2wEBIdys8g9P'}]}
0:39:10.675642	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01db, FOpts:), FPort: 01, FRMPayload: 01b3, MIC: acf20f4f)
0:39:10.677643	LOG	Server <---------- DUT
0:39:10.679641	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 051a, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101). MIC: b2db4aee)
0:39:15.679048	LOG	Frame command sent to the DUT
0:39:15.680048	LOG	PULL_RESP: Protocol version = 02, Token = c051, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1808090567, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YCAgICAAGwXgfptbVS683f6SKqFNvvwIaEybJhW0MuV24rAGmu1vCotKh+pAHjGUFADEuJxwzWz/fck9flRg4BtaJOP57csC0IpFfZw6/8wJ1GH06joQOAS7GZvu0msb0HX6+o2l8waPttbe/Pm+rFQdC5UenSnGWT+873inqt9g/QrgIGGU8859BS7hNZybblzg0RbnrJYMQjWYRwFTO4Bbhq/7NOS8yE5hCNBmniFYMYxaGN4cxug9eXxRn/2o/xOmF0cYe0AEmJHB662LGyWYbsLdgFEu7aTIOzQbiSupCHqEamOXFTi6PkPL9TXebmtqDlal4mlMeuyy20ru'}}
0:39:15.681046	LOG	Server ----------> DUT
0:39:15.684044	LOG	Send Test Command TxFramesCtrlReq process completed
0:39:15.687043	LOG	Send Test Command TxFramesCtrlReq process starts
0:39:20.671802	LOG	PUSH_ACK: 02 1abb 01
0:39:20.675802	LOG	PUSH_DATA: Protocol version = 02, Token = 1abb, Identifier = 00, JSON = {'rxpk': [{'tmst': 1811093173, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -3, 'size': 15, 'data': 'QCAgICCA3QEBAWVGUXZ+'}]}
0:39:20.677799	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01dd, FOpts:), FPort: 01, FRMPayload: 01b5, MIC: 4651767e)
0:39:20.678797	LOG	Server <---------- DUT
0:39:20.680797	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 051c, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101). MIC: 56fa7592)
0:39:20.683795	LOG	Frame command sent to the DUT
0:39:20.684794	LOG	PULL_RESP: Protocol version = 02, Token = 2fd3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1813093173, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YCAgICAAHAXgyEYi6rOMXj3q3jPM1PI2WLVjkkXeb6cl3oubtS7i5QbXuMShUS1s6bkkv2D4Ri7gnxV0+bEl+nUnnsTXCmcGKDcupi9Q9B5BQ98cNyc7u3HKBo35JghdWbM2siLaIjwd5GlzeExJNV6gLZg9tE0fu+ErYQRfx6w3RB8aIKiUemElN62zw8gbghhmZgq8xqtgdRkMswTa5Bg6TtD58tJtuj9Qde23AFTHPoASpsPtoEj9xAK0CaV4xoxhvcHtGe36v/FesA++6L/oKNHsM/LUOnnnXB/ULyX9lTIm2EDq3cAwaqAVd8qOlXRUaWA1ii+I+ClW+nWS'}}
0:39:20.685794	LOG	Server ----------> DUT
0:39:20.688796	LOG	Send Test Command TxFramesCtrlReq process completed
0:39:20.692790	LOG	Send Test Command TxFramesCtrlReq process starts
0:39:24.045201	LOG	PULL_DATA: 02 b783 02 aa555a0000240409
0:39:24.046200	LOG	PULL_ACK: 02 b783 04
0:39:25.674101	LOG	PUSH_ACK: 02 1abc 01
0:39:25.676101	LOG	PUSH_DATA: Protocol version = 02, Token = 1abc, Identifier = 00, JSON = {'rxpk': [{'tmst': 1816095769, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -1, 'size': 15, 'data': 'QCAgICCA3gEB+zeKfF3N'}]}

0:39:25.677099	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01de, FOpts:), FPort: 01, FRMPayload: 01b6, MIC: 8a7c5dcd)
0:39:25.679098	LOG	Server <---------- DUT
0:39:25.681097	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 051d, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:39:34.056696	LOG	PULL_ACK: 02 ba57 04
0:39:35.680772	LOG	PUSH_ACK: 02 1abf 01
0:39:35.682772	LOG	PUSH_DATA: Protocol version = 02, Token = 1abf, Identifier = 00, JSON = {'rxpk': [{'tmst': 1826100966, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -2, 'size': 15, 'data': 'QCAgICCA4AEBYIk5sWOi'}]}
0:39:35.684770	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01e0, FOpts:), FPort: 01, FRMPayload: 01b8, MIC: 39b163a2)
0:39:35.685770	LOG	Server <---------- DUT
0:39:35.687768	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 051f, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		zoW6dSQrvlA51aWd6XbklYJcHH7YNGJzY9G4Wk7QRI992kk42DXt4pXEHO4GsFup4pjVYkD7xpWzyQ/MekcT+rQuQsYepOGE6zgeEy'}}
0:39:40.695054	LOG	Server ----------> DUT
0:39:40.698051	LOG	Send Test Command TxFramesCtrlReq process completed
0:39:40.701050	LOG	Send Test Command TxFramesCtrlReq process starts
0:39:44.264517	LOG	PULL_DATA: 02 07b3 02 aa555a0000240409
0:39:44.266516	LOG	PULL_ACK: 02 07b3 04
0:39:45.685702	LOG	PUSH_ACK: 02 1ac1 01
0:39:45.688701	LOG	PUSH_DATA: Protocol version = 02, Token = 1ac1, Identifier = 00, JSON = {'rxpk': [{'tmst': 1836106165, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -3, 'size': 15, 'data': 'QCAgICCA4gEBdQIbn31H'}]}
0:39:45.692698	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01e2, FOpts:), FPort: 01, FRMPayload: 01ba, MIC: 1b9f7d47)
0:39:45.696696	LOG	Server <---------- DUT
0:39:45.701693	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0521, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:39:50.699954	LOG	PULL_RESP: Protocol version = 02, Token = 4389, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1843108768, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YCAgICAAIgXgQjmI1Z8xpDgiSYOjYM3S2Qzra0PM00FE5JYwZNdEkipm4cH80fH4cE0QmQ1k4BnB2FDqulKXcwWisaDXdRVMpdHIntgijLoe6r2ttvLGCyAEoDnSORP/Ueb9kT0a3Wq9f3Oq826Z3Qk4EOMQCacGfFg2+xHmYmjXM2RirmbMcDc0frazv30xhH+iTkCWCTSF5G+PW2yvkmjLCsqQjqfbPAnSivUUeDZPcMinwsTAZt2ofukJdypW87j4fjJjS4Vj8t+SZg9WB0/VWGmxLCMpTexqL8YBaNYi+2clRk+5udtx11Fo5ZINzjnoa/SWPXQL07f+ohry'}}
0:39:50.700954	LOG	Server ----------> DUT
0:39:50.703971	LOG	Send Test Command TxFramesCtrlReq process completed
0:39:50.706951	LOG	Send Test Command TxFramesCtrlReq process starts
0:39:54.274085	LOG	PULL_DATA: 02 ce2d 02 aa555a0000240409
0:39:54.276084	LOG	PULL_ACK: 02 ce2d 04
0:39:55.690480	LOG	PUSH_ACK: 02 1ac4 01
0:39:55.692480	LOG	PUSH_DATA: Protocol version = 02, Token = 1ac4, Identifier = 00, JSON = {'rxpk': [{'tmst': 1846111372, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -3, 'size': 15, 'data': 'QCAgICCA5AEB9tw0tFb8'}]}
0:39:55.693478	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01e4, FOpts:), FPort: 01, FRMPayload: 01bc, MIC: 34b456fc)
0:39:55.695477	LOG	Server <---------- DUT
0:39:55.697476	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0523, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101). MIC: f24e5b31)
0:40:00.701748	LOG	Frame command sent to the DUT
0:40:00.703747	LOG	PULL_RESP: Protocol version = 02, Token = cc8f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1853113976, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YCAgICAAJAXgsJzhWkp/3cUKOQeGkMaOyRcdc173C7FbN+t9UPj/IToxyCwb8s2kGdw+uMJtkq8T19nDQqo6IbqNxOsURB/ryTIKMNJWvVH2F9EM5wpKU4hpIZpmo4Qbus4i7nv78elzA7cqRtQNqtZSC+LrfE2w6d8xWzzpH0Q9qLR54BejaojBbXDbF+xqZdlMtSy7me5BkQopL7ZNNQ9ov3hgtd5XubCcOu3G7ax1opnuzgI9QOCjcGXoiA1JvIYP4K6A/y1fXrhqCOOmeiMfs9RWzCXzYaPmlu+CrIxmr6UVOAE53ygZYt4V8PEj4zSiYb91p/oTVdTyTlsx'}}
0:40:00.704747	LOG	Server ----------> DUT
0:40:00.707745	LOG	Send Test Command TxFramesCtrlReq process completed
0:40:00.716740	LOG	Send Test Command TxFramesCtrlReq process starts
0:40:04.484600	LOG	PULL_DATA: 02 413e 02 aa555a0000240409
0:40:04.486599	LOG	PULL_ACK: 02 413e 04
0:40:05.694762	LOG	PUSH_ACK: 02 1ac7 01
0:40:05.698762	LOG	PUSH_DATA: Protocol version = 02, Token = 1ac7, Identifier = 00, JSON = {'rxpk': [{'tmst': 1856116564, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -1, 'size': 15, 'data': 'QCAgICCA5gEBJ0QDmcKp'}]}
0:40:05.702760	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01e6, FOpts:), FPort: 01, FRMPayload: 01be, MIC: 0399c2a9)
0:40:05.705758	LOG	Server <---------- DUT
0:40:05.711754	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0525, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101). MIC: 367d8031)
0:40:05.718751	LOG	Frame command sent to the DUT
0:40:05.722748	LOG	PULL_RESP: Protocol version = 02, Token = cfec, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1858116564, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YCAgICAAJQXgBSJDrXFAdviwdWDzt2S3GlOSx/PCy0qhyJ0gvnjHZjg7QIvCnTFnCMujwkn54JnoPw/cPui638bm0LMtxfsf77T0hlFshjG+5d21Q/YVCFK2tVYwjEpccTyvXh/519wfg0JboDJwLhHqKZ83Md9tVdE/mlEdCupdrH2bC5wZH6UbAp9pXsHCd/awwk3jsZ8tRs9NCJzeHxLqggWHdR5gBCVdDopeEOcWCAXkbRr7Y2D/D5kzjfhr3HbknTdj7iOCcd+2zTnFnvKF7tlSVdlFyfMV6B44hlNxjjnsrGSRf+tU6nYY5Eow1UfpVD2+Ju1xKYo2fYAx'}}
0:40:05.726745	LOG	Server ----------> DUT
0:40:05.728743	LOG	Send Test Command TxFramesCtrlReq process completed
0:40:05.731741	LOG	Send Test Command TxFramesCtrlReq process starts
0:40:10.697882	LOG	PUSH_ACK: 02 1ac8 01
0:40:10.700883	LOG	PUSH_DATA: Protocol version = 02, Token = 1ac8, Identifier = 00, JSON = {'rxpk': [{'tmst': 1861119177, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -1, 'size': 15, 'data': 'QCAgICCA5wEBg5PyUJOV'}]}

0:40:10.701880	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01e7, FOpts:), FPort: 01, FRMPayload: 01bf, MIC: f2509395)
0:40:10.703879	LOG	Server <---------- DUT
0:40:10.705878	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0526, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010

0:40:15.719571	LOG	Send Test Command TxFramesCtrlReq process starts
0:40:20.703512	LOG	PUSH_ACK: 02 1aca 01
0:40:20.708509	LOG	PUSH_DATA: Protocol version = 02, Token = 1aca, Identifier = 00, JSON = {'rxpk': [{'tmst': 1871124369, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -1, 'size': 15, 'data': 'QCAgICCA6QEBpmQ3mRwQ'}]}
0:40:20.710508	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01e9, FOpts:), FPort: 01, FRMPayload: 01c1, MIC: 37991c10)
0:40:20.712507	LOG	Server <---------- DUT
0:40:20.714506	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0528, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		ReKTQKLdF5PecUuXhGW4aBJSJzw5DMqPiVmEJfF5FepwSqdB7N+IRGl+zXi R+ojvkAObkbdceoKSsWddLy+ANabv7FUEwEJU0eDjAkHAEP8ZGhDwZ1Lk4 AGVpJ3cEJbPy3ltsg0uU6eXs22GzoLessXI+NOYoyMb7BKLqpc0FWraWghAbU AjoD10WHo4t+sEKVoj1aezE8Jtovgd0Jc8zw4ABLZk8v59PWESE7UaxIklqxtNW uaNMvYFyJjogf888DWbUZP5xGl33uS9QZvLZTtgJl'}}
0:40:25.718001	LOG	Server ----------> DUT
0:40:25.720996	LOG	Send Test Command TxFramesCtrlReq process completed
0:40:25.724996	LOG	Send Test Command TxFramesCtrlReq process starts
0:40:30.708510	LOG	PUSH_ACK: 02 1acc 01
0:40:30.710508	LOG	PUSH_DATA: Protocol version = 02, Token = 1acc, Identifier = 00, JSON = {'rxpk': [{'tmst': 1881129561, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -4, 'size': 15, 'data': 'QCAgICCA6wEBDDwqDe/L'}]}
0:40:30.711507	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01eb, FOpts:), FPort: 01, FRMPayload: 01c3, MIC: 2a0defcb)
0:40:30.713506	LOG	Server <---------- DUT
0:40:30.715506	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 052a, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 889bead1)
0:40:30.718503	LOG	Frame command sent to the DUT
0:40:30.720503	LOG	PULL_RESP: Protocol version = 02, Token = 18ed, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1883129561, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YCAgICAAKgXgdQicI9Lxj4OVQ9OYcyN5woWVXXuPT844kkvqhv4fipxfsjUG 6zdqZmVSeo0FrnvCoDQI0eLnyEiu6J3oJKeJ+VI7+/cK7+ygB02IWFE7uCO1e9irs Px4jTvFW0CloNVYXFKlm/VC4cp9PpvmW/fFoMcPiC9K8ZlT+WikhS9GKdHZ nw4aHP3Ot/hnzsuBeZNtjwcEBxrfuqN6TAJYJlCabRzAqqIY9AbEGpQNF7o4riJc sNyP/Xin5VMXWVpOZVrO7TmILgSpE6nLdXW5TLc1PNHNIEjHfA+Hrnb0Go kP5S9UFTFwnuG7xBOT8TTufmiYT4+Im+rR'}}
0:40:30.721502	LOG	Server ----------> DUT
0:40:30.725500	LOG	Send Test Command TxFramesCtrlReq process completed
0:40:30.729500	LOG	Send Test Command TxFramesCtrlReq process starts
0:40:34.714654	LOG	PULL_DATA: 02 cc34 02 aa555a0000240409
0:40:34.716653	LOG	PULL_ACK: 02 cc34 04
0:40:35.712088	LOG	PUSH_ACK: 02 1ace 01
0:40:35.714087	LOG	PUSH_DATA: Protocol version = 02, Token = 1ace, Identifier = 00, JSON = {'rxpk': [{'tmst': 1886132163, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -4, 'size': 15, 'data': 'QCAgICCA7AEBAg42gKv4'}]}
0:40:35.715086	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01ec, FOpts:), FPort: 01, FRMPayload: 01c4, MIC: 3680abf8)
0:40:35.717085	LOG	Server <---------- DUT
0:40:35.718084	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 052b, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101

		0101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 1a97bf57)
0:40:35.721083	LOG	Frame command sent to the DUT
0:40:35.722082	LOG	PULL_RESP: Protocol version = 02, Token = 9101, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1888132163, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YCAgICAAKwXgoSHE5240+kfHdn6mqK4i7BYvP2Q83ElCRcsMtpIBWB8Grpmw AT0Vdqgj0D8g4d/33Vq1GGthuKyFO0jZfQAw2NMxjSIpzlKTss7wdRUYuA2s5SkiQXk5K0KBH41/92StzbIFVJ16ZTH3UXavukLGXYbVvOK2Wc5xpgTok0fcqZfP5A8nsgHkOO4Q/BJv2l/SqTqLZzhjvbbEVJXSPgRc9BPV1sgpMgIeatd7YlLJ5YH3TGqr60DgcAaWk7ZNMnglvERXgjs1BKE4cuLQCeWhM5Ef5fuNi1iISDGz0jFMxNt0pLg69PGXQsqF2yyURvRqyjIal79X'}}
0:40:35.724081	LOG	Server ----------> DUT
0:40:35.728080	LOG	Send Test Command TxFramesCtrlReq process completed
0:40:35.731079	LOG	Send Test Command TxFramesCtrlReq process starts
0:40:40.715157	LOG	PUSH_ACK: 02 1acf 01
0:40:40.717156	LOG	PUSH_DATA: Protocol version = 02, Token = 1acf, Identifier = 00, JSON = {'rxpk': [{'tmst': 1891134775, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -2, 'size': 15, 'data': 'QCAgICCA7QEBqkw3S6yI'}]}
0:40:40.719157	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01ed, FOpts:), FPort: 01, FRMPayload: 01c5, MIC: 374bac88)
0:40:40.720156	LOG	Server <---------- DUT
0:40:40.722155	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 052c, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101

0:40:45.724390	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 052d, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:40:55.724092	LOG	PUSH_DATA: Protocol version = 02, Token = 1ad2, Identifier = 00, JSON = {'rxpk': [{'tmst': 1906142584, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -1, 'size': 15, 'data': 'QCAgICCA8AEBvbSqFIQj'}]}
0:40:55.726089	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01f0, FOpts:), FPort: 01, FRMPayload: 01c8, MIC: aa148423)
0:40:55.727090	LOG	Server <---------- DUT
0:40:55.730087	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 052f, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:41:00.738242	LOG	Server ----------> DUT
0:41:00.742239	LOG	Send Test Command TxFramesCtrlReq process completed
0:41:00.746237	LOG	Send Test Command TxFramesCtrlReq process starts
0:41:05.144045	LOG	PULL_DATA: 02 51e7 02 aa555a0000240409
0:41:05.146043	LOG	PULL_ACK: 02 51e7 04
0:41:05.728328	LOG	PUSH_ACK: 02 1ad5 01
0:41:05.734324	LOG	PUSH_DATA: Protocol version = 02, Token = 1ad5, Identifier = 00, JSON = {'rxpk': [{'tmst': 1916147790, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -1, 'size': 15, 'data': 'QCAgICCA8gEBPv5VcifY'}]}
0:41:05.738322	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01f2, FOpts:), FPort: 01, FRMPayload: 01ca, MIC: 557227d8)
0:41:05.741320	LOG	Server <---------- DUT
0:41:05.745318	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0531, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YCAgICAAMgXgfRHbGZdcXNlpeakmAVxz961J6oWTgigDiOIv6GC029d3rtDRV/0GzQqDSlFOA58xZdKn9eg3kJZ0KoI9JQ3nq+8WeDf/R/5Sc/auT/KL+nc7OI8WpZF6irTDg+yb5FdJzHNFSJsduiam87wgtzOqhtf4TfiHH3pf6E9sajVm522Pm+FPf+KUMCVzYHS0g4XKfTn+DqVBDsDkid1FHRXzcIvZhdJLUBFL0H8s13L/ThFIuHebepQtknoWIr179nPPk2+uvrVr/yoRlASGl1USuYcDFiVdjCzOiTjLqudYD44E0K/fx8wd35/eHE8rznEFqSefQ2ai'}}
0:41:10.745283	LOG	Server ----------> DUT
0:41:10.748280	LOG	Send Test Command TxFramesCtrlReq process completed
0:41:10.750297	LOG	Send Test Command TxFramesCtrlReq process starts
0:41:15.154777	LOG	PULL_DATA: 02 47af 02 aa555a0000240409
0:41:15.159775	LOG	PULL_ACK: 02 47af 04
0:41:15.733386	LOG	PUSH_ACK: 02 1ad7 01
0:41:15.735384	LOG	PUSH_DATA: Protocol version = 02, Token = 1ad7, Identifier = 00, JSON = {'rxpk': [{'tmst': 1926153003, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCA9AEBGWakPmeF'}]}
0:41:15.736382	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01f4, FOpts:), FPort: 01, FRMPayload: 01cc, MIC: a43e6785)
0:41:15.737384	LOG	Server <---------- DUT
0:41:15.739381	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0533, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		0101010101010101010

0:41:30.745602	LOG	Server <---------- DUT
0:41:30.746600	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0536, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010

0:41:40.745070	LOG	PUSH_ACK: 02 1ade 01
0:41:40.747070	LOG	PUSH_DATA: Protocol version = 02, Token = 1ade, Identifier = 00, JSON = {'rxpk': [{'tmst': 1951165979, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -3, 'size': 15, 'data': 'QCAgICCA+QEBs9fqV1n6'}]}
0:41:40.749069	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01f9, FOpts:), FPort: 01, FRMPayload: 01d1, MIC: ea5759fa)
0:41:40.750067	LOG	Server <---------- DUT
0:41:40.752067	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0538, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		zWElPoM6pZLLrLiK2dRsj8TDigyy+Xr9xRTMmEBKz8OgbCRHWqoboQlP3WTxoWAeQlHjv0C44VnKF1otFXGOT/CXdzgmIlT7OrmJrFT9x5+6qv5qB9sAQEkzeVH3WBKEYMuiqHrZqPTwusdOkQtEHBDJ1T8l/pWbV'}}
0:41:45.760111	LOG	Server ----------> DUT
0:41:45.763107	LOG	Send Test Command TxFramesCtrlReq process completed
0:41:45.767124	LOG	Send Test Command TxFramesCtrlReq process starts
0:41:50.750667	LOG	PUSH_ACK: 02 1ae0 01
0:41:50.756663	LOG	PUSH_DATA: Protocol version = 02, Token = 1ae0, Identifier = 00, JSON = {'rxpk': [{'tmst': 1961171200, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -2, 'size': 15, 'data': 'QCAgICCA+wEBvE1bcAzK'}]}
0:41:50.757665	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01fb, FOpts:), FPort: 01, FRMPayload: 01d3, MIC: 5b700cca)
0:41:50.758664	LOG	Server <---------- DUT
0:41:50.760663	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 053a, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:41:55.763422	LOG	Frame command sent to the DUT
0:41:55.765439	LOG	PULL_RESP: Protocol version = 02, Token = 6c7b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1968173795, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YCAgICAAOwXg51QpUGlr8jiTmNRuYyj7WJv4a6a/WRlb5rlhiTbPfR8+mi3cqptTPgLDqZk0lieqKUKhwGN6M1EVm6Q78uC+o8QfEAJyvyEUOaPlegCtquFb3n1S/X+kwfIUkf7SReb+mB36tOOPm1qc35Q108f8rFtMs9MAKSPCvM/a/vOqGYgYlAb5mc9MIIvroMURCkScapBQl5hjp2+ldvAWRFK887dIhK7lH0aBAAAtTKXOGXrAQAbZ1dLplcBY2IttnlZqQv9CjHskqAruAEhpPwfGx9a71xuCKb446Cszsf/YnXxSR5cLIHI5hf7rzQt5u6p01l0FmSEf'}}
0:41:55.766420	LOG	Server ----------> DUT
0:41:55.768437	LOG	Send Test Command TxFramesCtrlReq process completed
0:41:55.771436	LOG	Send Test Command TxFramesCtrlReq process starts
0:42:00.754348	LOG	PUSH_ACK: 02 1ae2 01
0:42:00.756346	LOG	PUSH_DATA: Protocol version = 02, Token = 1ae2, Identifier = 00, JSON = {'rxpk': [{'tmst': 1971176395, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -3, 'size': 15, 'data': 'QCAgICCA/QEBHUH31KPH'}]}
0:42:00.758346	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01fd, FOpts:), FPort: 01, FRMPayload: 01d5, MIC: f7d4a3c7)
0:42:00.759346	LOG	Server <---------- DUT
0:42:00.761344	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 053c, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101). MIC: 04a9f45f)
0:42:05.767999	LOG	Frame command sent to the DUT
0:42:05.769999	LOG	PULL_RESP: Protocol version = 02, Token = 2d0f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1978178990, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YCAgICAAPQXgyGsWIOQXA6NVqoTKfaqgpzzUKb65PDHwtJ1Pery2DfYGGdn5i9MKOkDViDCNLwFrPUs42cU/dZLps9L+Qrxb2MarnXNFSieaxk4SmwlnGVVizOfsPGUH3kxv4ddHV/jRV5Faa4wA1wL8goNgO8AspvLa+UFgklxbGRO+QzeeKe6mfzC7QZ+twPHCezE/UZtROZP0N7PGqjEP2aPTLQsrnNxkjWk8bT/upMKEiksdqmACNybj6vXJMYUSl7xjWu5YUIxDE/j/+wz+mnbjq77aFWiW0Ib3ys87FtjDrS7+lLrV8EKcTwQMmAbnxa0RH1tQvlQEqfRf'}}
0:42:05.770998	LOG	Server ----------> DUT
0:42:05.775995	LOG	Send Test Command TxFramesCtrlReq process completed
0:42:05.781992	LOG	Send Test Command TxFramesCtrlReq process starts
0:42:10.759165	LOG	PUSH_ACK: 02 1ae5 01
0:42:10.761163	LOG	PUSH_DATA: Protocol version = 02, Token = 1ae5, Identifier = 00, JSON = {'rxpk': [{'tmst': 1981181609, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -2, 'size': 15, 'data': 'QCAgICCA/wEBZlduQ5w0'}]}
0:42:10.762163	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 01ff, FOpts:), FPort: 01, FRMPayload: 01d7, MIC: 6e439c34)
0:42:10.764162	LOG	Server <---------- DUT
0:42:10.766162	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 053e, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101). MIC: c73ed231)
0:42:10.769159	LOG	Frame command sent to the DUT
0:42:10.770158	LOG	PULL_RESP: Protocol version = 02, Token = 32b1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1983181609, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YCAgICAAPgXg8/A3CZxBg7THElqk5M/EJyAeiS88HQjm4U7M1cNE2elGB5y7xqyi3iChENmTHxgr07ktl/hPFECjnNNLfVI/MZS1qVlFu5HxNhEGhlhKtUgRulaT3Eu4pWclg1nXXF8cNkkobaFTNoYYBimT1SnnNnHDM+gjQoPPJgw4eMuleYLz0YrMaGealjDytniZjKhqJbtm3bl1lrKxOZLRffGn2MWgONZUg7JnUt9jYiEMiCaj1i6sgIrCXMAnk4tD2iqIg4ugIC/7OArWD6M3eOtikmNlsFf+eYcsEbxNQ3whf67F/TfpOlQfoVgLMK9LYJU6OUXHPtIx'}}
0:42:10.772158	LOG	Server ----------> DUT
0:42:10.775155	LOG	Send Test Command TxFramesCtrlReq process completed
0:42:10.779154	LOG	Send Test Command TxFramesCtrlReq process starts
0:42:15.761462	LOG	PUSH_ACK: 02 1ae6 01
0:42:15.763461	LOG	PUSH_DATA: Protocol version = 02, Token = 1ae6, Identifier = 00, JSON = {'rxpk': [{'tmst': 1986184195, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': 0, 'size': 15, 'data': 'QCAgICCAAAIBeOYJYvrl'}]}
0:42:15.765460	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0200, FOpts:), FPort: 01, FRMPayload: 01d8, MIC: 0962fae5)
0:42:15.767459	LOG	Server <---------- DUT

0:42:15.769458	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 053f, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -2, 'size': 15, 'data': 'QCAgICCAAgIB87kCnRyX'}]}
0:42:25.772894	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0202, FOpts:), FPort: 01, FRMPayload: 01da, MIC: 029d1c97)
0:42:25.774892	LOG	Server <---------- DUT
0:42:25.777891	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0541, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:42:30.788438	LOG	Send Test Command TxFramesCtrlReq process starts
0:42:35.774193	LOG	PUSH_ACK: 02 1aeb 01
0:42:35.776192	LOG	PUSH_DATA: Protocol version = 02, Token = 1aeb, Identifier = 00, JSON = {'rxpk': [{'tmst': 2006194618, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -2, 'size': 15, 'data': 'QCAgICCABAIBUz9uckQO'}]}
0:42:35.777189	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0204, FOpts:), FPort: 01, FRMPayload: 01dc, MIC: 6e72440e)
0:42:35.779189	LOG	Server <---------- DUT
0:42:35.781189	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0543, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010

		mqyZO3yUE+fnCVpm7oJSuoSV24li6AUQmAlVHOLWydj2+2iBcSIpVvlStweoNYolCOd3Lh+JKkdfzEFAQ8pCRbxqy2FetV'}}
0:42:40.789001	LOG	Server ----------> DUT
0:42:40.791981	LOG	Send Test Command TxFramesCtrlReq process completed
0:42:40.793980	LOG	Send Test Command TxFramesCtrlReq process starts
0:42:45.779896	LOG	PUSH_ACK: 02 1aed 01
0:42:45.781897	LOG	PUSH_DATA: Protocol version = 02, Token = 1aed, Identifier = 00, JSON = {'rxpk': [{'tmst': 2016199830, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -3, 'size': 15, 'data': 'QCAgICCABgIBnRMZmBQn'}]}
0:42:45.782895	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0206, FOpts:), FPort: 01, FRMPayload: 01de, MIC: 19981427)
0:42:45.784894	LOG	Server <---------- DUT
0:42:45.786894	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0545, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YCAgICAARgXgQU1VFg376R7oUQ3a1D+srSPVnJ4YMYM0wyDePccHo/pYG YToyb5yODHvypfZ1NVki054GUz95JFUnfUi3k2c43ZdVLu4mHY2lSDQKkSsG 5WO4ieDN7xqPwmd7sh0R7jAYGYXh9d3v/lH8Zwxz5Bjd2BbjG7NWYNzHapV TTn+CcxCnxtZJslh7jjTSvUsfIdV6NGEz1U0ZHxzxhQus8Q1FeUAUZdBNDeO8T LQqhZnJPElYnv+KZkbm5pHXaYh/MhjyVjyt+OdbBJz2CnAGOv4CoX5/ScM8fV dJOBvtHJaxNQ7d0VcX2t/cYprBzBGoTkyQEKgr8Vo'}}
0:42:50.794955	LOG	Server ----------> DUT
0:42:50.797953	LOG	Send Test Command TxFramesCtrlReq process completed
0:42:50.801951	LOG	Send Test Command TxFramesCtrlReq process starts
0:42:55.784105	LOG	PUSH_ACK: 02 1aef 01
0:42:55.786103	LOG	PUSH_DATA: Protocol version = 02, Token = 1aef, Identifier = 00, JSON = {'rxpk': [{'tmst': 2026205029, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -3, 'size': 15, 'data': 'QCAgICCACAIBZo5JFTNJ'}]}
0:42:55.788102	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0208, FOpts:), FPort: 01, FRMPayload: 01e0, MIC: 49153349)
0:42:55.789103	LOG	Server <---------- DUT
0:42:55.791102	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0547, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101 101010101010101), MIC: 596e8a95)
0:42:55.793101	LOG	Frame command sent to the DUT
0:42:55.794100	LOG	PULL_RESP: Protocol version = 02, Token = abe9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2028205029, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YCAgICAARwXgi55NVtOYSweJkaori8hLh90y0OjLxfkwgxmBLXbJKVsJR8GX /ngJcClWyG8OpExjOq5TjcA3Y/96ptoYd5eyROebCUQvvDn9TBhTustSWHbJl1F iA3GYlfowWyb15pxeM1YBEOA3kQ61jqU+1uS5zfQidvOAdYbwz4/QLq08LCG gCfDVdBmAO6NKVwpX6yz51jKl3lMT4zfa1LJ4ne6h5j4upaeeo5N3rCIkLAHR2 6KbxYev96kA68MhcPi4akG7o1jCcaj847ReSI9kOGBYDDUuNEBOKjOGgnMq VjZsF9uL955oKbLenh3CUDay4H3E8YhZboqV'}}
0:42:55.795100	LOG	Server ----------> DUT
0:42:55.799096	LOG	Send Test Command TxFramesCtrlReq process completed
0:42:55.803094	LOG	Send Test Command TxFramesCtrlReq process starts
0:43:00.787967	LOG	PUSH_ACK: 02 1af0 01
0:43:00.791965	LOG	PUSH_DATA: Protocol version = 02, Token = 1af0, Identifier = 00, JSON = {'rxpk': [{'tmst': 2031207633, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -3, 'size': 15, 'data': 'QCAgICCACQIBXxx9JJ+H'}]}
0:43:00.796961	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0209, FOpts:), FPort: 01, FRMPayload: 01e1, MIC: 7d249f87)
0:43:00.801958	LOG	Server <---------- DUT
0:43:00.806955	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0548, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010101

		0101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: e0823850)
0:43:00.808955	LOG	Frame command sent to the DUT
0:43:00.809955	LOG	PULL_RESP: Protocol version = 02, Token = 2c61, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2033207633, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YCAgICAASAXgx36iT/y6RNmo9JppecO222fkHFGA2salMw0rBoujxV5U0WLW4c8yW2PxEBVGJWjC1sN+ZRXyaE1VCedmmF5ejC8X2xlAfsM/oTYej+PlIXx7Vlw2G/RCmdYKn7RE+7meY7eo32a5ZH2b8i3IQe+beoX0FLfyWG5OYfbbMTB3lnhw4Djpvs3ORH3lxk1+HFrUFnhFcRkmOwTe2YxpawE2+3LvRXmUXWwx/F8jz8gdryo2bn1lrROzCD/+M6eedE0r4IlueWsrJ2ib7nSSSaACjVyEBDgqMrEzorfUyMCSt1h1rm52y6ZwRMuYPtD8WW1O4GXggjhQ'}}
0:43:00.811955	LOG	Server ----------> DUT
0:43:00.813953	LOG	Send Test Command TxFramesCtrlReq process completed
0:43:00.817949	LOG	Send Test Command TxFramesCtrlReq process starts
0:43:05.789057	LOG	PUSH_ACK: 02 1af2 01
0:43:05.792058	LOG	PUSH_DATA: Protocol version = 02, Token = 1af2, Identifier = 00, JSON = {'rxpk': [{'tmst': 2036210238, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -2, 'size': 15, 'data': 'QCAgICCACgIBvADq9TV/'}]}
0:43:05.793057	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 020a, FOpts:), FPort: 01, FRMPayload: 01e2, MIC: eaf5357f)
0:43:05.795056	LOG	Server <---------- DUT
0:43:05.797054	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0549, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101

		1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 2410c480)
0:43:10.799644	LOG	Frame command sent to the DUT
0:43:10.800646	LOG	PULL_RESP: Protocol version = 02, Token = a1a1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2043212840, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YCAgICAASgXgAu4kqcs+0v957S7QwM7SuDfm2ye2CoNOTxAAJnZn+vLRha O85azIE1jFbQuJeUvxLl3Wnfnrzfh/Jwjn5SFL4IfuktKU82YiXB73wVI7bY+gbRX LBswW7Jxntd/pREJ2dcQUeuIJrW7gOUjvhZxqO1B1+tj1n/plfh2MTM2S4KUa/9b hwOb5Gvz4tmJhbxXYBHECnH9BVuSNaHorWbXX3W0hsA32N1je1kVS30nTcI fLyXHNoRip8ScbD69FA0Nf45Bg4JmnoIkBeYp56GdndgZTyhSvjBbKug9OPK+ OPNqFAKkSh0qkWQv9oBpCSc2S6W4kEMSA'}}
0:43:10.802643	LOG	Server ----------> DUT
0:43:10.805641	LOG	Send Test Command TxFramesCtrlReq process completed
0:43:10.808639	LOG	Send Test Command TxFramesCtrlReq process starts
0:43:15.794865	LOG	PUSH_ACK: 02 1af4 01
0:43:15.797863	LOG	PUSH_DATA: Protocol version = 02, Token = 1af4, Identifier = 00, JSON = {'rxpk': [{'tmst': 2046215444, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -3, 'size': 15, 'data': 'QCAgICCADAIB3GrXThmw'}]}
0:43:15.799862	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 020c, FOpts:), FPort: 01, FRMPayload: 01e4, MIC: d74e19b0)
0:43:15.800861	LOG	Server <---------- DUT
0:43:15.802861	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 054b, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: 6ca9c38d)
0:43:15.804860	LOG	Frame command sent to the DUT
0:43:15.806860	LOG	PULL_RESP: Protocol version = 02, Token = e7dd, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2048215444, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YCAgICAASwXgZUqY/6xsRECQCqz5ac2lqlw5zguNf47l/ointApu9PbTp0u6x2E BGXNqb7nd3MPCNiUC2LaOqrBKRSW3Bga1oxGscE8DDMseHxAOnOMPPtLz mxgKhBPvBE7p2V3eKzXNywcUE3pZNjWYkoNbqr4JYP+FQ8ClGOhxuRmgoB k8iM7DZdHvJP6b0V8BM2kaPFtg/9kAkNZL1xeQgdPjKXQ/PAcsxl1fZ6hmlXiL HLV1TxN1B9h1gNVTSZYRu12KpBa0tHtz2YBYh8AvuYlqhvhta2Y7y+7xCVtSy bcUXDFwdZtCfw1ScgGWLh3fK+au4gCBuctsqcON'}}
0:43:15.807859	LOG	Server ----------> DUT
0:43:15.810855	LOG	Send Test Command TxFramesCtrlReq process completed
0:43:15.814855	LOG	Send Test Command TxFramesCtrlReq process starts
0:43:20.797921	LOG	PUSH_ACK: 02 1af5 01
0:43:20.801919	LOG	PUSH_DATA: Protocol version = 02, Token = 1af5, Identifier = 00, JSON = {'rxpk': [{'tmst': 2051218048, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -4, 'size': 15, 'data': 'QCAgICCADQIBlv0ziXAD'}]}
0:43:20.802917	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 020d, FOpts:), FPort: 01, FRMPayload: 01e5, MIC: 33897003)

0:43:20.803919	LOG	Server <---------- DUT
0:43:20.805915	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 054c, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -1, 'size': 15, 'data': 'QCAgICCADwIBwp3lMfVw'}]}
0:43:30.806445	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 020f, FOpts:), FPort: 01, FRMPayload: 01e7, MIC: e531f570)
0:43:30.808445	LOG	Server <---------- DUT
0:43:30.810443	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 054e, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:43:35.822846	LOG	Send Test Command TxFramesCtrlReq process starts
0:43:40.807518	LOG	PUSH_ACK: 02 1afa 01
0:43:40.813515	LOG	PUSH_DATA: Protocol version = 02, Token = 1afa, Identifier = 00, JSON = {'rxpk': [{'tmst': 2071228436, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAEQIBELhV+RkH'}]}
0:43:40.817512	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0211, FOpts:), FPort: 01, FRMPayload: 01e9, MIC: 55f91907)
0:43:40.821510	LOG	Server <---------- DUT
0:43:40.827506	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0550, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010

		3utaTivT/BwpZ2yOb4IPSTNNMQTY6q9RP4qIteOdcO/ZtVDX7bggszqVegGuKTWV+qdUznrqGCdjSeMhCv4glLywQqo'}}
0:43:45.822686	LOG	Server ----------> DUT
0:43:45.826686	LOG	Send Test Command TxFramesCtrlReq process completed
0:43:45.829655	LOG	Send Test Command TxFramesCtrlReq process starts
0:43:50.812085	LOG	PUSH_ACK: 02 1afc 01
0:43:50.815081	LOG	PUSH_DATA: Protocol version = 02, Token = 1afc, Identifier = 00, JSON = {'rxpk': [{'tmst': 2081233643, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAEwIBrVYHxNFv'}]}
0:43:50.817080	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0213, FOpts:), FPort: 01, FRMPayload: 01eb, MIC: 07c4d16f)
0:43:50.819080	LOG	Server <---------- DUT
0:43:50.820078	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0552, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YCAgICAAUwXgEy0NvQTu03SyhVc5FE/WOIy5OcEAOtuIsnZPeTtgNuzlPWjmeT2+dZUw3/9KpzHj4RcquHvEVnGjBYq9wSTUKGt0gKIT6xcjtp2hV7qD1QBMdVkBEStskGdW7p0NYD8RkEHSGnnf5UhWFm0cQVee++u6zHc6f9wnu6cxsf0HgONUnZnjIzp0I4ZALkxBFWRpQqh1qAtg1/6M9bP0Rpka7U5NzU2sq2WJ4jf1yGgVzD29SpXW4RoCZkYDCyNRAB+6w6kmiF12XmS4dU+PkwgMDlW5bbfkfcI2yFZppKSqNxekniiu2ga2GUcHSA4T3QeJQ8+vgami'}}
0:43:55.826664	LOG	Server ----------> DUT
0:43:55.829663	LOG	Send Test Command TxFramesCtrlReq process completed
0:43:55.833660	LOG	Send Test Command TxFramesCtrlReq process starts
0:44:00.818476	LOG	PUSH_ACK: 02 1afe 01
0:44:00.822469	LOG	PUSH_DATA: Protocol version = 02, Token = 1afe, Identifier = 00, JSON = {'rxpk': [{'tmst': 2091238849, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -1, 'size': 15, 'data': 'QCAgICCAFQIBF8YAqjaN'}]}
0:44:00.826470	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0215, FOpts:), FPort: 01, FRMPayload: 01ed, MIC: 00aa368d)
0:44:00.829466	LOG	Server <---------- DUT
0:44:00.836461	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0554, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		0101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: fabdcbe8)
0:44:05.829336	LOG	Frame command sent to the DUT
0:44:05.831334	LOG	PULL_RESP: Protocol version = 02, Token = 883a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2098241445, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 255, 'data': 'YCAgICAAVQXgSuB93sTMKTPAb9JPy5jvk2a7NMHDW/OkDmp6vk68BpudqbWugAuF3+zd6OMm11dJ63H1H43MkPknwvqWHTYwy/MKroDPk8k3at0+E36Gqpo7etnrQB849VVVsDbdODb1UKzcEdfV6YGTT7LbPba1R0rH9XX5k028qHWHtwxV5AzjYcWkCUReEh1dB2/o2kA7X9kRSaKklK4QdtA7Yx2MlaiBr8tbm2m7ORSkyfsxr7lUS8YwuAZsNxo5AFPZlCSoOZSV+YEK2FLwJXuoWqaNDBY7aOLHQTiZsX1TzM0tu+EZVMukN4sSYaoGYSjVSOdCE2r6vcvo'}}
0:44:05.832335	LOG	Server ----------> DUT
0:44:05.835332	LOG	Send Test Command TxFramesCtrlReq process completed
0:44:05.838349	LOG	Send Test Command RxAppCntReq process starts
0:44:10.823941	LOG	PUSH_ACK: 02 1b01 01
0:44:10.825939	LOG	PUSH_DATA: Protocol version = 02, Token = 1b01, Identifier = 00, JSON = {'rxpk': [{'tmst': 2101244042, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -3, 'size': 15, 'data': 'QCAgICCAFwIBfzPk8uyc'}]}
0:44:10.827939	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0217, FOpts:), FPort: 01, FRMPayload: 01ef, MIC: e4f2ec9c)
0:44:10.828938	LOG	Server <---------- DUT
0:44:10.829937	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0556, FOpts:), FPort: e0, FRMPayload: 09), MIC: 24c692c7)
0:44:10.831937	LOG	Frame command sent to the DUT
0:44:10.833936	LOG	PULL_RESP: Protocol version = 02, Token = 0122, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2103244042, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 14, 'data': 'YCAgICAAVgXgLSTGksc='}}
0:44:10.835934	LOG	Server ----------> DUT
0:44:10.838933	LOG	TX_ACK: 02 0122 05 aa555a0000240409
0:44:15.839150	LOG	PUSH_ACK: 02 1b02 01
0:44:15.841150	LOG	PUSH_DATA: Protocol version = 02, Token = 1b02, Identifier = 00, JSON = {'rxpk': [{'tmst': 2106254740, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -3, 'size': 16, 'data': 'QCAgICCAGALgfHTw7pxHTg=='}]}
0:44:15.843148	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0218, FOpts:), FPort: e0, FRMPayload: 09f001, MIC: ee9c474e)
0:44:15.844147	LOG	Server <---------- DUT
0:44:15.845149	LOG	Answer in payload: f001
0:44:15.847147	LOG	Frame Command Payload in the Answer: 09f001
0:44:15.851144	LOG	RX Count received by DUT: 496
0:44:15.853142	LOG	Send Test Command RxAppCntReq process completed
0:44:15.859139	LOG	End Test Step: Test packet error rate for FSK50 using RX2 window
0:44:15.862137	LOG	Partial Verdict: PASS
0:44:15.867134	LOG	==========
0:44:15.873131	LOG	==========
0:44:15.876130	LOG	Start Test Step: Restore default settings
0:44:15.886126	LOG	Send RXParamSetupReq process starts
0:44:20.829709	LOG	PUSH_ACK: 02 1b03 01
0:44:20.832706	LOG	PUSH_DATA: Protocol version = 02, Token = 1b03, Identifier = 00, JSON = {'rxpk': [{'tmst': 2111249268, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -4, 'size': 15, 'data': 'QCAgICCAGQIBpORTJXG6'}]}

0:44:20.834705	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0219, FOpts:), FPort: 01, FRMPayload: 01f0, MIC: 532571ba)
0:44:20.835707	LOG	Server <---------- DUT
0:44:20.837705	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0557, FOpts:), FPort: 00, FRMPayload: 0500d2ad84), MIC: ca3e7211)
0:44:20.839702	LOG	PULL_RESP: Protocol version = 02, Token = fc33, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2113249268, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 18, 'data': 'YCAgICAAVwUAlefuh+/KPnIR'}}
0:44:20.840703	LOG	Server ----------> DUT
0:44:20.844699	LOG	TX_ACK: 02 fc33 05 aa555a0000240409
0:44:25.844918	LOG	PUSH_ACK: 02 1b04 01
0:44:25.847917	LOG	PUSH_DATA: Protocol version = 02, Token = 1b04, Identifier = 00, JSON = {'rxpk': [{'tmst': 2116257014, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -4, 'size': 17, 'data': 'QCAgICCCGgIFBwEfxEMfy4M='}]}
0:44:25.848917	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 021a, FOpts: 0507), FPort: 01, FRMPayload: 01f0, MIC: 431fcb83)
0:44:25.850916	LOG	Server <---------- DUT
0:44:25.851915	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:44:25.852914	LOG	Command Answer: 0507
0:44:25.864905	LOG	MAC command communication completed
0:44:25.867905	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:44:25.883895	LOG	PULL_DATA: 02 fd17 02 aa555a0000240409
0:44:25.885895	LOG	PULL_ACK: 02 fd17 04
0:44:30.832888	LOG	PUSH_ACK: 02 1b05 01
0:44:30.834887	LOG	PUSH_DATA: Protocol version = 02, Token = 1b05, Identifier = 00, JSON = {'rxpk': [{'tmst': 2121259630, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -2, 'size': 17, 'data': 'QCAgICCCGwIFBwHTWaep2BA='}]}
0:44:30.836886	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 021b, FOpts: 0507), FPort: 01, FRMPayload: 01f0, MIC: a7a9d810)
0:44:30.838885	LOG	Server <---------- DUT
0:44:30.840884	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0558, FOpts:), FPort: e0, FRMPayload: 0501), MIC: 1e6fe53f)
0:44:30.842883	LOG	Frame command sent to the DUT
0:44:30.844882	LOG	PULL_RESP: Protocol version = 02, Token = edce, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2123259630, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAWAXgv/Meb+U/'}}
0:44:30.845881	LOG	Server ----------> DUT
0:44:30.848880	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:44:30.852877	LOG	End Test Step: Restore default settings
0:44:30.857874	LOG	Partial Verdict: PASS
0:44:30.860873	LOG	==========
0:44:30.866869	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_016
0:44:30.867868	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_017
Verdict	PASS
Date	2021-10-18 04:21:52
Comments	RX1 and RX2 simultaneous frames
Technology Version	LCTT v3.1.0_D1 | GUI v1.10.0
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.1
Test Specs Version	USv1.5.1/EUv1.6/KRv1.2.1/ASv1.1.1/INv1.1.1/ALLv1.1

Project	MLSv2.0.0	
Project Creation Date	2021-10-17 22:25:22	
Sample	DevID:SAMR34-XPRO | AppID:CertApp_EU_ABP | SW:MLSv2.0.0 | HW:SAMR34J18B	
Parameters	Conformance	TRUE

Time Stamp (ms)	Event	Summary
0:00:00.011853	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_017
0:00:00.046834	LOG	==========
0:00:00.049832	LOG	Start Test Step: Device activation
0:00:00.102802	LOG	Activation process has finished successfully
0:00:00.104801	LOG	Data stored in the DUT after Activation:
0:00:00.107799	LOG	DevAddr: 20202020
0:00:00.109798	LOG	AppEUI: abcdabcdabcdabcd
0:00:00.113796	LOG	NwkSKey: abcdabcdabcdabcdabcdabcdabcdabcd
0:00:00.115795	LOG	AppSKey: 12345678123456781234567812345678
0:00:00.118793	LOG	End Test Step: Device activation
0:00:00.121792	LOG	Partial Verdict: PASS
0:00:00.124790	LOG	==========
0:00:00.131787	LOG	==========
0:00:00.133786	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.143779	LOG	DUT Pre-condition activation process starts
0:00:00.147777	LOG	DUT Pre-condition activation completed
0:00:00.151774	LOG	End Test Step: DUT Pre-condition settings
0:00:00.154772	LOG	Partial Verdict: PASS
0:00:00.157771	LOG	==========
0:00:00.164767	LOG	==========
0:00:00.167765	LOG	Start Test Step: RX1 and RX2 simultaneous frames
0:00:00.179759	LOG	Send Frames in both windows and test behaviour process starts
0:00:01.683031	LOG	PULL_DATA: 02 324e 02 aa555a0000240409
0:00:01.684032	LOG	PULL_ACK: 02 324e 04
0:00:01.686031	LOG	First PULL_DATA received
0:00:05.172054	LOG	PUSH_ACK: 02 0ee2 01
0:00:05.175052	LOG	PUSH_DATA: Protocol version = 02, Token = 0ee2, Identifier = 00, JSON = {'rxpk': [{'tmst': 1742557079, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAvQoBdXlilYgW'}]}
0:00:05.176052	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0abd, FOpts:), FPort: 01, FRMPayload: 0587, MIC: 62958816)
0:00:05.179050	LOG	Server <---------- DUT
0:00:05.182048	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0750, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 746a3478)
0:00:05.186046	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0751, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 1e25cd80)
0:00:05.189045	LOG	PULL_RESP: Protocol version = 02, Token = 6de9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1743557079, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAUQfgDUoeJc2A'}}
0:00:05.191044	LOG	Server ----------> DUT
0:00:05.193042	LOG	PULL_RESP: Protocol version = 02, Token = c153, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1744557079, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'oCAgICAAUAfg+cB0ajR4'}}
0:00:05.196041	LOG	Server ----------> DUT

0:00:05.198040	LOG	Sent txpk for both windows (RX1 and RX2): [{'imme': False, 'tmst': 1743557079, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAUQfgDUoeJc2A'}, {'imme': False, 'tmst': 1744557079, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'oCAgICAAUAfg+cB0ajR4'}]
0:00:10.130245	LOG	PUSH_ACK: 02 0ee3 01
0:00:10.133244	LOG	PUSH_DATA: Protocol version = 02, Token = 0ee3, Identifier = 00, JSON = {'rxpk': [{'tmst': 1747559665, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 7.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAvgoBTbgaEUcC'}]}
0:00:10.135243	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0abe, FOpts:), FPort: 01, FRMPayload: 0588, MIC: 1a114702)
0:00:10.136242	LOG	Server <---------- DUT
0:00:10.138241	LOG	ACK bit is set to 0, so RX2 downlink is ignored
0:00:10.142238	LOG	Send Frames in both windows and test behaviour tested successfully
0:00:10.155231	LOG	Send Frames in both windows and test behaviour process starts
0:00:11.702354	LOG	PULL_DATA: 02 7a03 02 aa555a0000240409
0:00:11.704353	LOG	PULL_ACK: 02 7a03 04
0:00:15.170390	LOG	PUSH_ACK: 02 0ee4 01
0:00:15.173388	LOG	PUSH_DATA: Protocol version = 02, Token = 0ee4, Identifier = 00, JSON = {'rxpk': [{'tmst': 1752562233, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAvwoBEVRqFQb3'}]}
0:00:15.175387	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0abf, FOpts:), FPort: 01, FRMPayload: 0588, MIC: 6a1506f7)
0:00:15.176386	LOG	Server <---------- DUT
0:00:15.180384	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0752, FOpts:), FPort: e0, FRMPayload: 0700), MIC: ece8dc9e)
0:00:15.184382	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0753, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 126bb5f0)
0:00:15.187381	LOG	PULL_RESP: Protocol version = 02, Token = ce84, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1753562233, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAUwfgGrYSa7Xw'}}
0:00:15.189379	LOG	Server ----------> DUT
0:00:15.191378	LOG	PULL_RESP: Protocol version = 02, Token = 0669, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1754562233, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'oCAgICAAUgfgNy3s6Nye'}}
0:00:15.193379	LOG	Server ----------> DUT
0:00:15.195377	LOG	Sent txpk for both windows (RX1 and RX2): [{'imme': False, 'tmst': 1753562233, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAUwfgGrYSa7Xw'}, {'imme': False, 'tmst': 1754562233, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'oCAgICAAUgfgNy3s6Nye'}]
0:00:20.153567	LOG	PUSH_ACK: 02 0ee6 01
0:00:20.155566	LOG	PUSH_DATA: Protocol version = 02, Token = 0ee6, Identifier = 00, JSON = {'rxpk': [{'tmst': 1757564810, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAwAoBStiq4Uss'}]}
0:00:20.157565	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0ac0, FOpts:), FPort: 01, FRMPayload: 0589, MIC: aae14b2c)
0:00:20.159564	LOG	Server <---------- DUT
0:00:20.161562	LOG	ACK bit is set to 0, so RX2 downlink is ignored
0:00:20.165560	LOG	Send Frames in both windows and test behaviour tested successfully

0:00:20.175554	LOG	Send Frames in both windows and test behaviour process starts
0:00:21.912570	LOG	PULL_DATA: 02 e1f4 02 aa555a0000240409
0:00:21.914569	LOG	PULL_ACK: 02 e1f4 04
0:00:25.144739	LOG	PUSH_ACK: 02 0ee7 01
0:00:25.146738	LOG	PUSH_DATA: Protocol version = 02, Token = 0ee7, Identifier = 00, JSON = {'rxpk': [{'tmst': 1762567378, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAwQoBTJMvom2H'}]}
0:00:25.148737	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0ac1, FOpts:), FPort: 01, FRMPayload: 0589, MIC: 2fa26d87)
0:00:25.150736	LOG	Server <---------- DUT
0:00:25.153735	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0754, FOpts:), FPort: e0, FRMPayload: 0700), MIC: 20ce09b9)
0:00:25.155733	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0755, FOpts:), FPort: e0, FRMPayload: 0700), MIC: ad389fa4)
0:00:25.158733	LOG	PULL_RESP: Protocol version = 02, Token = ecdc, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1763567378, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAVQfgu6etOJ+k'}}
0:00:25.159731	LOG	Server ----------> DUT
0:00:25.161730	LOG	PULL_RESP: Protocol version = 02, Token = 118b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1764567378, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'oCAgICAAVAfgg1ggzgm5'}}
0:00:25.163729	LOG	Server ----------> DUT
0:00:25.165728	LOG	Sent txpk for both windows (RX1 and RX2): [{'imme': False, 'tmst': 1763567378, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAVQfgu6etOJ+k'}, {'imme': False, 'tmst': 1764567378, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'oCAgICAAVAfgg1ggzgm5'}]
0:00:30.140909	LOG	PUSH_ACK: 02 0ee8 01
0:00:30.145906	LOG	PUSH_DATA: Protocol version = 02, Token = 0ee8, Identifier = 00, JSON = {'rxpk': [{'tmst': 1767569954, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAwgoBXw+BrXCa'}]}
0:00:30.147905	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0ac2, FOpts:), FPort: 01, FRMPayload: 058a, MIC: 81ad709a)
0:00:30.149904	LOG	Server <---------- DUT
0:00:30.151903	LOG	ACK bit is set to 0, so RX2 downlink is ignored
0:00:30.155900	LOG	Send Frames in both windows and test behaviour tested successfully
0:00:30.165895	LOG	Send Frames in both windows and test behaviour process starts
0:00:32.121786	LOG	PULL_DATA: 02 2966 02 aa555a0000240409
0:00:32.123786	LOG	PULL_ACK: 02 2966 04
0:00:35.183053	LOG	PUSH_ACK: 02 0ee9 01
0:00:35.186051	LOG	PUSH_DATA: Protocol version = 02, Token = 0ee9, Identifier = 00, JSON = {'rxpk': [{'tmst': 1772572538, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAwwoBXZxXtNRj'}]}
0:00:35.187050	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0ac3, FOpts:), FPort: 01, FRMPayload: 058a, MIC: 57b4d463)
0:00:35.189049	LOG	Server <---------- DUT
0:00:35.193047	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0756, FOpts:), FPort: e0, FRMPayload: 0700), MIC: d55d342c)
0:00:35.196046	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0757, FOpts:), FPort: e0, FRMPayload: 0700), MIC: beba6dcf)

0:00:35.200043	LOG	PULL_RESP: Protocol version = 02, Token = 4c80, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1773572538, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAVwfgqmO+um3P'}}
0:00:35.201042	LOG	Server ----------> DUT
0:00:35.204041	LOG	PULL_RESP: Protocol version = 02, Token = 619a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1774572538, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'oCAgICAAVgfgiFnVXTQs'}}
0:00:35.205040	LOG	Server ----------> DUT
0:00:35.207039	LOG	Sent txpk for both windows (RX1 and RX2): [{'imme': False, 'tmst': 1773572538, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.3, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAVwfgqmO+um3P'}, {'imme': False, 'tmst': 1774572538, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'oCAgICAAVgfgiFnVXTQs'}]
0:00:35.210037	LOG	TX_ACK: 02 619a 05 aa555a0000240409
0:00:40.145241	LOG	PUSH_ACK: 02 0eea 01
0:00:40.147240	LOG	PUSH_DATA: Protocol version = 02, Token = 0eea, Identifier = 00, JSON = {'rxpk': [{'tmst': 1777575101, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAxAoBkx6UAIIM'}]}
0:00:40.149240	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0ac4, FOpts:), FPort: 01, FRMPayload: 058b, MIC: 9400820c)
0:00:40.150241	LOG	Server <---------- DUT
0:00:40.151240	LOG	ACK bit is set to 0, so RX2 downlink is ignored
0:00:40.154238	LOG	Send Frames in both windows and test behaviour tested successfully
0:00:40.161232	LOG	End Test Step: RX1 and RX2 simultaneous frames
0:00:40.165231	LOG	Partial Verdict: PASS
0:00:40.169245	LOG	==========
0:00:40.173245	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_017
0:00:40.175242	LOG	Final Verdict: PASS

COMMENTS

COMMENT BEFORE THE TEST CASE EXECUTION ========== ========== COMMENT AFTER THE TEST CASE EXECUTION ==========

Test Case	TP_A_EU868_ED_MAC_104_BV_018	
Verdict	PASS	
Date	2021-10-18 04:22:35	
Comments	RX Oversized Payload	
Technology Version	LCTT v3.1.0_D1 | GUI v1.10.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.1	
Test Specs Version	USv1.5.1/EUv1.6/KRv1.2.1/ASv1.1.1/INv1.1.1/ALLv1.1	
Project	MLSv2.0.0	
Project Creation Date	2021-10-17 22:25:22	
Sample	DevID:SAMR34-XPRO | AppID:CertApp_EU_ABP | SW:MLSv2.0.0 | HW:SAMR34J18B	
Parameters	SF7BW250 Frequency	868.100
	FSK Frequency	868.100
	Conformance	TRUE

Time Stamp (ms)	Event	Summary
0:00:00.013244	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_018
0:00:00.047225	LOG	==========
0:00:00.049224	LOG	Start Test Step: Device activation
0:00:00.105192	LOG	Activation process has finished successfully
0:00:00.107191	LOG	Data stored in the DUT after Activation:
0:00:00.109190	LOG	DevAddr: 20202020
0:00:00.112188	LOG	AppEUI: abcdabcdabcdabcd
0:00:00.114187	LOG	NwkSKey: abcdabcdabcdabcdabcdabcdabcdabcd
0:00:00.117186	LOG	AppSKey: 12345678123456781234567812345678
0:00:00.119184	LOG	End Test Step: Device activation
0:00:00.122183	LOG	Partial Verdict: PASS
0:00:00.126180	LOG	==========
0:00:00.131177	LOG	==========
0:00:00.133176	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.142171	LOG	DUT Pre-condition activation process starts
0:00:00.146169	LOG	DUT Pre-condition activation completed
0:00:00.149167	LOG	End Test Step: DUT Pre-condition settings
0:00:00.153165	LOG	Partial Verdict: PASS
0:00:00.157163	LOG	==========
0:00:00.164159	LOG	==========
0:00:00.167158	LOG	Start Test Step: Initial settings for the test
0:00:00.178151	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:00:02.166056	LOG	PUSH_DATA received while waiting first PULL_DATA
0:00:07.127269	LOG	PUSH_DATA received while waiting first PULL_DATA
0:00:09.199095	LOG	PULL_DATA: 02 2bb5 02 aa555a0000240409
0:00:09.201094	LOG	PULL_ACK: 02 2bb5 04
0:00:09.203093	LOG	First PULL_DATA received
0:00:12.173411	LOG	PUSH_ACK: 02 0eee 01
0:00:12.176409	LOG	PUSH_DATA: Protocol version = 02, Token = 0eee, Identifier = 00, JSON = {'rxpk': [{'tmst': 1792582829, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -47, 'size': 15, 'data': 'QCAgICCAxwoBR1K8UkzV'}]}
0:00:12.178408	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0ac7, FOpts:), FPort: 01, FRMPayload: 058b, MIC: bc524cd5)
0:00:12.179407	LOG	Server <---------- DUT
0:00:12.181406	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0758, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 4ada2925)
0:00:12.184404	LOG	Frame command sent to the DUT
0:00:12.186404	LOG	PULL_RESP: Protocol version = 02, Token = 9bb1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1794582829, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAWAfgElVK2ikl'}}
0:00:12.188402	LOG	Server ----------> DUT
0:00:12.192400	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:00:12.195398	LOG	End Test Step: Initial settings for the test
0:00:12.199395	LOG	Partial Verdict: PASS
0:00:12.202394	LOG	==========
0:00:12.209390	LOG	==========
0:00:12.212388	LOG	Start Test Step: Oversized downlink for datarate SF12BW125
0:00:12.222383	LOG	Send MAC command block process starts
0:00:17.134600	LOG	PUSH_ACK: 02 0eef 01
0:00:17.137598	LOG	PUSH_DATA: Protocol version = 02, Token = 0eef, Identifier = 00, JSON = {'rxpk': [{'tmst': 1797585397, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAyAoBGxWkcYel'}]}
0:00:17.140597	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0ac8, FOpts:), FPort: 01, FRMPayload: 058c, MIC: a47187a5)
0:00:17.141596	LOG	Server <---------- DUT
0:00:17.144594	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0759, FOpts:), FPort: 00, FRMPayload: 03000700010500d2ad84), MIC: 5235fadb)
0:00:17.146593	LOG	PULL_RESP: Protocol version = 02, Token = e3a6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1799585397, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YCAgICAAWQcA7fTtf2Wo3pAoCFI1+ts='}}
0:00:17.147592	LOG	Server ----------> DUT
0:00:17.152591	LOG	TX_ACK: 02 e3a6 05 aa555a0000240409
0:00:19.249402	LOG	PULL_DATA: 02 4310 02 aa555a0000240409
0:00:19.251401	LOG	PULL_ACK: 02 4310 04
0:00:23.441027	LOG	PUSH_ACK: 02 0ef0 01
0:00:23.444026	LOG	PUSH_DATA: Protocol version = 02, Token = 0ef0, Identifier = 00, JSON = {'rxpk': [{'tmst': 1803860504, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -43, 'size': 19, 'data': 'QCAgICCEyQoDBwUHAUGCrs3H6A=='}]}
0:00:23.446024	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 84, FCnt: 0ac9, FOpts: 03070507), FPort: 01, FRMPayload: 058c, MIC: aecdc7e8)
0:00:23.447024	LOG	Server <---------- DUT
0:00:23.449023	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:23.451021	LOG	Command Answer: 03070507
0:00:23.517984	LOG	MAC command communication completed
0:00:23.529977	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:28.483171	LOG	PUSH_ACK: 02 0ef1 01
0:00:28.485169	LOG	PUSH_DATA: Protocol version = 02, Token = 0ef1, Identifier = 00, JSON = {'rxpk': [{'tmst': 1808863064, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCygoFBwFCf2K59DM='}]}
0:00:28.486169	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0aca, FOpts: 0507), FPort: 01, FRMPayload: 058c, MIC: 62b9f433)
0:00:28.487168	LOG	Server <---------- DUT
0:00:28.489167	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 075a, FOpts:), FPort: e0, FRMPayload: 07020101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: b3897722)
0:00:28.492166	LOG	Frame command sent to the DUT
0:00:28.494165	LOG	PULL_RESP: Protocol version = 02, Token = 6cca, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1809863064, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 65, 'data': 'YCAgICAAWgfgp3S3f5nGFenTyKo6+tleKyzhEoVRmYrlkDYrRZppfeBgkcb0Xw8gy7gY2x9z8Rf3dUGfiLOJdyI='}}
0:00:28.496164	LOG	Server ----------> DUT
0:00:28.498162	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:28.501161	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:00:29.338725	LOG	PULL_DATA: 02 ab29 02 aa555a0000240409
0:00:29.341724	LOG	PULL_ACK: 02 ab29 04
0:00:38.279660	LOG	PUSH_ACK: 02 0ef4 01
0:00:38.284658	LOG	PUSH_DATA: Protocol version = 02, Token = 0ef4, Identifier = 00, JSON = {'rxpk': [{'tmst': 1818704378, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 7.5, 'rssi': -43, 'size': 15, 'data': 'QCAgICCAywoBMWCF+yGo'}]}
0:00:38.286656	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0acb, FOpts:), FPort: 01, FRMPayload: 058c, MIC: 85fb21a8)
0:00:38.288655	LOG	Server <---------- DUT
0:00:38.291654	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:00:38.304646	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:39.419014	LOG	PULL_DATA: 02 4aad 02 aa555a0000240409
0:00:39.421014	LOG	PULL_ACK: 02 4aad 04
0:00:43.324802	LOG	PUSH_ACK: 02 0ef5 01
0:00:43.327800	LOG	PUSH_DATA: Protocol version = 02, Token = 0ef5, Identifier = 00, JSON = {'rxpk': [{'tmst': 1823706970, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 6.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAzAoBlT2Ylof7'}]}
0:00:43.328799	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0acc, FOpts:), FPort: 01, FRMPayload: 058c, MIC: 989687fb)
0:00:43.330798	LOG	Server <---------- DUT
0:00:43.332797	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 075b, FOpts:), FPort: e0, FRMPayload: 07020101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 24a2dd2e)
0:00:43.335796	LOG	Frame command sent to the DUT
0:00:43.337794	LOG	PULL_RESP: Protocol version = 02, Token = cb21, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1825706970, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 65, 'data': 'YCAgICAAWwfge+GJIoU/65RQAGByh/CQWYKnRy2JsoPt1ieR8vdpommIPWoSuQhmqm+Uy50Krt09Q1p4OySi3S4='}}
0:00:43.338794	LOG	Server ----------> DUT
0:00:43.345790	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:43.349788	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:00:49.429342	LOG	PULL_DATA: 02 3735 02 aa555a0000240409
0:00:49.431341	LOG	PULL_ACK: 02 3735 04
0:00:53.288155	LOG	PUSH_ACK: 02 0ef6 01
0:00:53.290154	LOG	PUSH_DATA: Protocol version = 02, Token = 0ef6, Identifier = 00, JSON = {'rxpk': [{'tmst': 1833712156, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -42, 'size': 15, 'data': 'QCAgICCAzQoBPDFWxyvg'}]}
0:00:53.292154	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0acd, FOpts:), FPort: 01, FRMPayload: 058c, MIC: 56c72be0)
0:00:53.293152	LOG	Server <---------- DUT
0:00:53.297150	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:00:53.316139	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:58.330298	LOG	PUSH_ACK: 02 0ef7 01
0:00:58.332296	LOG	PUSH_DATA: Protocol version = 02, Token = 0ef7, Identifier = 00, JSON = {'rxpk': [{'tmst': 1838714748, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAzgoBFMzxqEYY'}]}
0:00:58.334295	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0ace, FOpts:), FPort: 01, FRMPayload: 058c, MIC: f1a84618)
0:00:58.335295	LOG	Server <---------- DUT
0:00:58.338293	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 075c, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: a92271cc)
0:00:58.340292	LOG	Frame command sent to the DUT

0:00:58.343291	LOG	PULL_RESP: Protocol version = 02, Token = e0af, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1839714748, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 65, 'data': 'oCAgICAAXAfgRkYBOyKaK83qbledbIGeyulxJaEOpceo0/4mL2WgStwApMPvEtHg634ikvMl4hJw9aCqwqkiccw='}}
0:00:58.344290	LOG	Server ----------> DUT
0:00:58.349287	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:58.354284	LOG	Check ACK bit in next uplink starts
0:00:59.609573	LOG	PULL_DATA: 02 7e17 02 aa555a0000240409
0:00:59.611572	LOG	PULL_ACK: 02 7e17 04
0:01:08.287654	LOG	PUSH_ACK: 02 0ef9 01
0:01:08.290653	LOG	PUSH_DATA: Protocol version = 02, Token = 0ef9, Identifier = 00, JSON = {'rxpk': [{'tmst': 1848719165, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -42, 'size': 15, 'data': 'QCAgICCAzwoBI17I5EpE'}]}
0:01:08.292653	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0acf, FOpts:), FPort: 01, FRMPayload: 058c, MIC: c8e44a44)
0:01:08.293653	LOG	Server <---------- DUT
0:01:08.294652	LOG	Oversized frame was sent. ACK bit received in uplink is set to 0
0:01:08.296651	LOG	Check ACK bit in next uplink tested successfully
0:01:08.314640	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:09.688860	LOG	PULL_DATA: 02 c9a3 02 aa555a0000240409
0:01:09.690860	LOG	PULL_ACK: 02 c9a3 04
0:01:13.328798	LOG	PUSH_ACK: 02 0efa 01
0:01:13.331796	LOG	PUSH_DATA: Protocol version = 02, Token = 0efa, Identifier = 00, JSON = {'rxpk': [{'tmst': 1853721757, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCA0AoBNFQ/udai'}]}
0:01:13.333795	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0ad0, FOpts:), FPort: 01, FRMPayload: 058c, MIC: 3fb9d6a2)
0:01:13.334794	LOG	Server <---------- DUT
0:01:13.336794	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 075d, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 449fb712)
0:01:13.339792	LOG	Frame command sent to the DUT
0:01:13.341791	LOG	PULL_RESP: Protocol version = 02, Token = 838d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1855721757, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 65, 'data': 'oCAgICAAXQfghxuX7VTDWwbP2kttAqwvv0p9zEqioiutCvyXU9ZKUCEZ3l2pVsGNtfpbilL2TBpVqkNG2kSftxI='}}
0:01:13.342790	LOG	Server ----------> DUT
0:01:13.347787	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:13.353784	LOG	Check ACK bit in next uplink starts
0:01:19.849103	LOG	PULL_DATA: 02 5b6a 02 aa555a0000240409
0:01:19.850102	LOG	PULL_ACK: 02 5b6a 04
0:01:23.301150	LOG	PUSH_ACK: 02 0efb 01
0:01:23.303146	LOG	PUSH_DATA: Protocol version = 02, Token = 0efb, Identifier = 00, JSON = {'rxpk': [{'tmst': 1863726922, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -43, 'size': 15, 'data': 'QCAgICCA0QoBIQ00L2zR'}]}
0:01:23.304146	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0ad1, FOpts:), FPort: 01, FRMPayload: 058c, MIC: 342f6cd1)
0:01:23.305151	LOG	Server <---------- DUT

0:01:23.307144	LOG	Oversized frame was sent. ACK bit received in uplink is set to 0
0:01:23.309145	LOG	Check ACK bit in next uplink tested successfully
0:01:23.313169	LOG	End Test Step: Oversized downlink for datarate SF12BW125
0:01:23.318138	LOG	Partial Verdict: PASS
0:01:23.321135	LOG	==========
0:01:23.326132	LOG	==========
0:01:23.329130	LOG	Start Test Step: Oversized downlink for datarate SF11BW125
0:01:23.341143	LOG	Send MAC command block process starts
0:01:28.342289	LOG	PUSH_ACK: 02 0efc 01
0:01:28.345288	LOG	PUSH_DATA: Protocol version = 02, Token = 0efc, Identifier = 00, JSON = {'rxpk': [{'tmst': 1868729498, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICCA0goBfW4y7JAm'}]}
0:01:28.346287	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0ad2, FOpts:), FPort: 01, FRMPayload: 058c, MIC: 32ec9026)
0:01:28.348286	LOG	Server <---------- DUT
0:01:28.350285	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 075e, FOpts:), FPort: 00, FRMPayload: 03100700010501d2ad84), MIC: c7336b54)
0:01:28.353283	LOG	PULL_RESP: Protocol version = 02, Token = e3bc, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1870729498, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YCAgICAAXgcA5/5b1fKVMuABUscza1Q='}}
0:01:28.355282	LOG	Server ----------> DUT
0:01:28.359280	LOG	TX_ACK: 02 e3bc 05 aa555a0000240409
0:01:30.038327	LOG	PULL_DATA: 02 be95 02 aa555a0000240409
0:01:30.040327	LOG	PULL_ACK: 02 be95 04
0:01:32.889712	LOG	PUSH_ACK: 02 0efd 01
0:01:32.891711	LOG	PUSH_DATA: Protocol version = 02, Token = 0efd, Identifier = 00, JSON = {'rxpk': [{'tmst': 1873318414, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 12.0, 'rssi': -43, 'size': 19, 'data': 'QCAgICCE0woDBwUHAdahhSUI6Q=='}]}
0:01:32.893710	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 84, FCnt: 0ad3, FOpts: 03070507), FPort: 01, FRMPayload: 058c, MIC: 852508e9)
0:01:32.894709	LOG	Server <---------- DUT
0:01:32.895709	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:32.897708	LOG	Command Answer: 03070507
0:01:32.951677	LOG	MAC command communication completed
0:01:32.964670	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:37.795932	LOG	PUSH_ACK: 02 0eff 01
0:01:37.800929	LOG	PUSH_DATA: Protocol version = 02, Token = 0eff, Identifier = 00, JSON = {'rxpk': [{'tmst': 1878239054, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 13.5, 'rssi': -49, 'size': 17, 'data': 'QCAgICCC1AoFBwEvCzMtFKo='}]}
0:01:37.804927	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0ad4, FOpts: 0507), FPort: 01, FRMPayload: 058c, MIC: 332d14aa)
0:01:37.807925	LOG	Server <---------- DUT
0:01:37.809924	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 075f, FOpts:), FPort: e0, FRMPayload: 07020101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 2ddbac32)
0:01:37.812922	LOG	Frame command sent to the DUT
0:01:37.814921	LOG	PULL_RESP: Protocol version = 02, Token = 63d6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1879239054, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size':

		65, 'data': 'YCAgICAAXwfg4GomzeTT593SrJZIg+9K+OvlI8Xe2raOuF9gzU17FRRi0iQrvRlGPIp9sBdt7iF30baLWi3brDI='}}
0:01:37.815920	LOG	Server ----------> DUT
0:01:37.819918	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:37.821917	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:01:40.128609	LOG	PULL_DATA: 02 f185 02 aa555a0000240409
0:01:40.133607	LOG	PULL_ACK: 02 f185 04
0:01:42.831078	LOG	PUSH_ACK: 02 0f00 01
0:01:42.833077	LOG	PUSH_DATA: Protocol version = 02, Token = 0f00, Identifier = 00, JSON = {'rxpk': [{'tmst': 1883241601, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -43, 'size': 15, 'data': 'QCAgICCA1QoBU/7h/QkQ'}]}
0:01:42.834077	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0ad5, FOpts:), FPort: 01, FRMPayload: 058c, MIC: e1fd0910)
0:01:42.835076	LOG	Server <---------- DUT
0:01:42.838075	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:01:42.851086	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:47.820251	LOG	PUSH_ACK: 02 0f01 01
0:01:47.822250	LOG	PUSH_DATA: Protocol version = 02, Token = 0f01, Identifier = 00, JSON = {'rxpk': [{'tmst': 1888244185, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -49, 'size': 15, 'data': 'QCAgICCA1goB9T7rLqLq'}]}
0:01:47.823249	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0ad6, FOpts:), FPort: 01, FRMPayload: 058c, MIC: eb2ea2ea)
0:01:47.825251	LOG	Server <---------- DUT
0:01:47.827250	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0760, FOpts:), FPort: e0, FRMPayload: 07020101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 717fa80d)
0:01:47.830247	LOG	Frame command sent to the DUT
0:01:47.831246	LOG	PULL_RESP: Protocol version = 02, Token = 44fc, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1890244185, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 65, 'data': 'YCAgICAAYAfgCH/imcm7n9V8AGYiSKL1lAbn34FRostWQy+2/URDe5kMtDdSWB88RsxbqFcta0HJ9k+xR3F/qA0='}}
0:01:47.832245	LOG	Server ----------> DUT
0:01:47.835242	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:47.837242	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:01:50.139172	LOG	PULL_DATA: 02 4e24 02 aa555a0000240409
0:01:50.141170	LOG	PULL_ACK: 02 4e24 04
0:01:52.808630	LOG	PUSH_ACK: 02 0f02 01
0:01:52.810626	LOG	PUSH_DATA: Protocol version = 02, Token = 0f02, Identifier = 00, JSON = {'rxpk': [{'tmst': 1893246780, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -43, 'size': 15, 'data': 'QCAgICCA1woBJVxNe9wm'}]}
0:01:52.812626	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0ad7, FOpts:), FPort: 01, FRMPayload: 058c, MIC: 4d7bdc26)
0:01:52.813625	LOG	Server <---------- DUT
0:01:52.816625	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:01:52.825635	LOG	Send Test Command TxFramesCtrlReq process starts
0:01:57.849998	LOG	PUSH_ACK: 02 0f03 01
0:01:57.851995	LOG	PUSH_DATA: Protocol version = 02, Token = 0f03, Identifier = 00, JSON = {'rxpk': [{'tmst': 1898249364, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -49, 'size': 15, 'data': 'QCAgICCA2AoBUQGyO8qF'}]}
0:01:57.852994	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0ad8, FOpts:), FPort: 01, FRMPayload: 058c, MIC: b23bca85)
0:01:57.854993	LOG	Server <---------- DUT
0:01:57.855993	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0761, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: a2354c46)
0:01:57.857991	LOG	Frame command sent to the DUT
0:01:57.859991	LOG	PULL_RESP: Protocol version = 02, Token = 3dd0, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1899249364, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 65, 'data': 'oCAgICAAYQfg9a0uUeUusnivWa5Z6Ys2Eizoiqc881YLUvXotn9fMBb4Sk8ZN8qno99kdJOcE3feZfRmBqI1TEY='}}
0:01:57.861990	LOG	Server ----------> DUT
0:01:57.864988	LOG	Send Test Command TxFramesCtrlReq process completed
0:01:57.868985	LOG	Check ACK bit in next uplink starts
0:02:00.168682	LOG	PULL_DATA: 02 d3c9 02 aa555a0000240409
0:02:00.170681	LOG	PULL_ACK: 02 d3c9 04
0:02:02.841167	LOG	PUSH_ACK: 02 0f04 01
0:02:02.843166	LOG	PUSH_DATA: Protocol version = 02, Token = 0f04, Identifier = 00, JSON = {'rxpk': [{'tmst': 1903251940, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -43, 'size': 15, 'data': 'QCAgICCA2QoBcEjQJQEk'}]}
0:02:02.844166	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0ad9, FOpts:), FPort: 01, FRMPayload: 058c, MIC: d0250124)
0:02:02.846165	LOG	Server <---------- DUT
0:02:02.847165	LOG	Oversized frame was sent. ACK bit received in uplink is set to 0
0:02:02.849163	LOG	Check ACK bit in next uplink tested successfully
0:02:02.859157	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:07.845491	LOG	PUSH_ACK: 02 0f06 01
0:02:07.851488	LOG	PUSH_DATA: Protocol version = 02, Token = 0f06, Identifier = 00, JSON = {'rxpk': [{'tmst': 1908254524, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -49, 'size': 15, 'data': 'QCAgICCA2goBEomhiZPP'}]}
0:02:07.855485	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0ada, FOpts:), FPort: 01, FRMPayload: 058c, MIC: a18993cf)
0:02:07.859483	LOG	Server <---------- DUT
0:02:07.865479	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0762, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 0400cf9b)
0:02:07.868478	LOG	Frame command sent to the DUT
0:02:07.870475	LOG	PULL_RESP: Protocol version = 02, Token = d2d6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1910254524, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 65, 'data': 'oCAgICAAYgfgJW2cLBaJWKeL1HkhUyLGDzpDXD9FC9WRsdEGyLNvQ9mPlik5PaqoDhA+2xvGNbCGrpTPpAQAz5s='}}
0:02:07.871475	LOG	Server ----------> DUT
0:02:07.874473	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:07.876472	LOG	Check ACK bit in next uplink starts
0:02:10.179167	LOG	PULL_DATA: 02 27b4 02 aa555a0000240409
0:02:10.183164	LOG	PULL_ACK: 02 27b4 04

0:02:12.820670	LOG	PUSH_ACK: 02 0f07 01
0:02:12.822669	LOG	PUSH_DATA: Protocol version = 02, Token = 0f07, Identifier = 00, JSON = {'rxpk': [{'tmst': 1913257136, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 13.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICCA2woBEWKSi28i'}]}
0:02:12.824669	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0adb, FOpts:), FPort: 01, FRMPayload: 058c, MIC: 928b6f22)
0:02:12.825669	LOG	Server <---------- DUT
0:02:12.827666	LOG	Oversized frame was sent. ACK bit received in uplink is set to 0
0:02:12.830666	LOG	Check ACK bit in next uplink tested successfully
0:02:12.834682	LOG	End Test Step: Oversized downlink for datarate SF11BW125
0:02:12.838678	LOG	Partial Verdict: PASS
0:02:12.841677	LOG	==========
0:02:12.846674	LOG	==========
0:02:12.848655	LOG	Start Test Step: Oversized downlink for datarate SF10BW125
0:02:12.859649	LOG	Send MAC command block process starts
0:02:17.860814	LOG	PUSH_ACK: 02 0f08 01
0:02:17.861813	LOG	PUSH_DATA: Protocol version = 02, Token = 0f08, Identifier = 00, JSON = {'rxpk': [{'tmst': 1918259728, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -47, 'size': 15, 'data': 'QCAgICCA3AoBXsGH0p49'}]}
0:02:17.863811	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0adc, FOpts:), FPort: 01, FRMPayload: 058c, MIC: 87d29e3d)
0:02:17.864811	LOG	Server <---------- DUT
0:02:17.866810	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0763, FOpts:), FPort: 00, FRMPayload: 03200700010502d2ad84), MIC: 79e00d5f)
0:02:17.868809	LOG	PULL_RESP: Protocol version = 02, Token = 88dc, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1920259728, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YCAgICAAYwcAqp4PDVR3x5UfwnngDV8='}}
0:02:17.869808	LOG	Server ----------> DUT
0:02:17.872807	LOG	TX_ACK: 02 88dc 05 aa555a0000240409
0:02:20.388380	LOG	PULL_DATA: 02 bd51 02 aa555a0000240409
0:02:20.390380	LOG	PULL_ACK: 02 bd51 04
0:02:22.499185	LOG	PUSH_ACK: 02 0f09 01
0:02:22.501183	LOG	PUSH_DATA: Protocol version = 02, Token = 0f09, Identifier = 00, JSON = {'rxpk': [{'tmst': 1922932635, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -44, 'size': 19, 'data': 'QCAgICCE3QoDBwUHATHHdYPxVQ=='}]}
0:02:22.502183	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 84, FCnt: 0add, FOpts: 03070507), FPort: 01, FRMPayload: 058c, MIC: 7583f155)
0:02:22.503182	LOG	Server <---------- DUT
0:02:22.505182	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:22.506181	LOG	Command Answer: 03070507
0:02:22.561150	LOG	MAC command communication completed
0:02:22.571146	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:27.488358	LOG	PUSH_ACK: 02 0f0a 01
0:02:27.490356	LOG	PUSH_DATA: Protocol version = 02, Token = 0f0a, Identifier = 00, JSON = {'rxpk': [{'tmst': 1927935211, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 12.0, 'rssi': -45, 'size': 17, 'data': 'QCAgICCC3goFBwH/tNNPP/k='}]}
0:02:27.492355	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0ade, FOpts: 0507), FPort: 01, FRMPayload: 058c, MIC: d34f3ff9)
0:02:27.493354	LOG	Server <---------- DUT

0:02:27.496353	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0764, FOpts:), FPort: e0, FRMPayload: 07020101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: c6d94a47)
0:02:27.499351	LOG	Frame command sent to the DUT
0:02:27.501350	LOG	PULL_RESP: Protocol version = 02, Token = 890d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1928935211, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 65, 'data': 'YCAgICAAZAfgQzcJ4W+7gH0DvohINJwZ4xqi4Lh6patqeas6R86RWLcYCw4A0rYAkLDQBZLql0WKgGGluMbZSkc='}}
0:02:27.502349	LOG	Server ----------> DUT
0:02:27.507347	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:27.509346	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:02:30.438647	LOG	PULL_DATA: 02 1bbc 02 aa555a0000240409
0:02:30.440647	LOG	PULL_ACK: 02 1bbc 04
0:02:32.519468	LOG	PUSH_ACK: 02 0f0b 01
0:02:32.521467	LOG	PUSH_DATA: Protocol version = 02, Token = 0f0b, Identifier = 00, JSON = {'rxpk': [{'tmst': 1932937766, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -43, 'size': 15, 'data': 'QCAgICCA3woBfYyebJ1q'}]}
0:02:32.523466	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0adf, FOpts:), FPort: 01, FRMPayload: 058c, MIC: 9e6c9d6a)
0:02:32.525465	LOG	Server <---------- DUT
0:02:32.528463	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:02:32.539458	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:37.516727	LOG	PUSH_ACK: 02 0f0d 01
0:02:37.519724	LOG	PUSH_DATA: Protocol version = 02, Token = 0f0d, Identifier = 00, JSON = {'rxpk': [{'tmst': 1937940350, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -43, 'size': 15, 'data': 'QCAgICCA4AoB9r4WRwNT'}]}
0:02:37.520724	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0ae0, FOpts:), FPort: 01, FRMPayload: 058c, MIC: 16470353)
0:02:37.521725	LOG	Server <---------- DUT
0:02:37.523723	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0765, FOpts:), FPort: e0, FRMPayload: 07020101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 583d506e)
0:02:37.525722	LOG	Frame command sent to the DUT
0:02:37.526722	LOG	PULL_RESP: Protocol version = 02, Token = ece1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1939940350, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 65, 'data': 'YCAgICAAZQfge4evCCm2QwGZ9qxo71nelG4K+igM8u9lxmCoGcb2BDW9mieF9uqgpWtdwkIOCkTOwLIiGFg9UG4='}}
0:02:37.528720	LOG	Server ----------> DUT
0:02:37.531717	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:37.534715	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:02:40.469223	LOG	PULL_DATA: 02 2846 02 aa555a0000240409
0:02:40.477215	LOG	PULL_ACK: 02 2846 04
0:02:42.495071	LOG	PUSH_ACK: 02 0f0e 01
0:02:42.497071	LOG	PUSH_DATA: Protocol version = 02, Token = 0f0e, Identifier = 00, JSON = {'rxpk': [{'tmst': 1942942929, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 6.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICCA4QoB55SMDniv'}]}
0:02:42.498070	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0ae1, FOpts:), FPort: 01, FRMPayload: 058c, MIC: 8c0e78af)

0:02:42.500069	LOG	Server <---------- DUT
0:02:42.503065	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:02:42.514059	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:47.534900	LOG	PUSH_ACK: 02 0f0f 01
0:02:47.536899	LOG	PUSH_DATA: Protocol version = 02, Token = 0f0f, Identifier = 00, JSON = {'rxpk': [{'tmst': 1947945529, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 12.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA4goBd1l9Y6kV'}]}
0:02:47.538898	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0ae2, FOpts:), FPort: 01, FRMPayload: 058c, MIC: 7d63a915)
0:02:47.539898	LOG	Server <---------- DUT
0:02:47.541897	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0766, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: ab62ca5d)
0:02:47.544895	LOG	Frame command sent to the DUT
0:02:47.546894	LOG	PULL_RESP: Protocol version = 02, Token = 4b35, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1948945529, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 65, 'data': 'oCAgICAAZgfgaqqWrg38DENaYsUW5QYRghDN2hapt+1w6A9zaQ02P3RnWlcp4cvngOMmqHZ4+hyj9sFoX6tiyl0='}}
0:02:47.548893	LOG	Server ----------> DUT
0:02:47.553890	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:47.557887	LOG	Check ACK bit in next uplink starts
0:02:50.489055	LOG	PULL_DATA: 02 716b 02 aa555a0000240409
0:02:50.491054	LOG	PULL_ACK: 02 716b 04
0:02:52.527900	LOG	PUSH_ACK: 02 0f10 01
0:02:52.529899	LOG	PUSH_DATA: Protocol version = 02, Token = 0f10, Identifier = 00, JSON = {'rxpk': [{'tmst': 1952948100, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -43, 'size': 15, 'data': 'QCAgICCA4woBIrE/qOgU'}]}
0:02:52.530898	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0ae3, FOpts:), FPort: 01, FRMPayload: 058c, MIC: 3fa8e814)
0:02:52.531898	LOG	Server <---------- DUT
0:02:52.533897	LOG	Oversized frame was sent. ACK bit received in uplink is set to 0
0:02:52.536895	LOG	Check ACK bit in next uplink tested successfully
0:02:52.547891	LOG	Send Test Command TxFramesCtrlReq process starts
0:02:57.517280	LOG	PUSH_ACK: 02 0f11 01
0:02:57.519280	LOG	PUSH_DATA: Protocol version = 02, Token = 0f11, Identifier = 00, JSON = {'rxpk': [{'tmst': 1957950684, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCA5AoBWGSIWH/T'}]}
0:02:57.520279	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0ae4, FOpts:), FPort: 01, FRMPayload: 058c, MIC: 88587fd3)
0:02:57.523282	LOG	Server <---------- DUT
0:02:57.527279	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0767, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 8a09b585)
0:02:57.532277	LOG	Frame command sent to the DUT
0:02:57.535274	LOG	PULL_RESP: Protocol version = 02, Token = 1582, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1959950684, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 65, 'data': 'oCAgICAAZwfgyuVed23JEGbxMGj6N2fcHyR/Il4JkkWeaSOOolMMKpPllCcrlk7topCW0hCoCODRjljJsooJtYU='}}

0:02:57.538273	LOG	Server ----------> DUT
0:02:57.544269	LOG	Send Test Command TxFramesCtrlReq process completed
0:02:57.550266	LOG	Check ACK bit in next uplink starts
0:03:00.689086	LOG	PULL_DATA: 02 561d 02 aa555a0000240409
0:03:00.690086	LOG	PULL_ACK: 02 561d 04
0:03:02.506376	LOG	PUSH_ACK: 02 0f12 01
0:03:02.509374	LOG	PUSH_DATA: Protocol version = 02, Token = 0f12, Identifier = 00, JSON = {'rxpk': [{'tmst': 1962953260, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICCA5QoBb6YCy7r0'}]}
0:03:02.511373	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0ae5, FOpts:), FPort: 01, FRMPayload: 058c, MIC: 02cbbaf4)
0:03:02.513374	LOG	Server <---------- DUT
0:03:02.516371	LOG	Oversized frame was sent. ACK bit received in uplink is set to 0
0:03:02.519369	LOG	Check ACK bit in next uplink tested successfully
0:03:02.524366	LOG	End Test Step: Oversized downlink for datarate SF10BW125
0:03:02.528364	LOG	Partial Verdict: PASS
0:03:02.532362	LOG	==========
0:03:02.537358	LOG	==========
0:03:02.539358	LOG	Start Test Step: Oversized downlink for datarate SF9BW125
0:03:02.551352	LOG	Send MAC command block process starts
0:03:07.505545	LOG	PUSH_ACK: 02 0f14 01
0:03:07.507542	LOG	PUSH_DATA: Protocol version = 02, Token = 0f14, Identifier = 00, JSON = {'rxpk': [{'tmst': 1967955844, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -43, 'size': 15, 'data': 'QCAgICCA5goB3rPE1buZ'}]}
0:03:07.508543	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0ae6, FOpts:), FPort: 01, FRMPayload: 058c, MIC: c4d5bb99)
0:03:07.509543	LOG	Server <---------- DUT
0:03:07.510542	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0768, FOpts:), FPort: 00, FRMPayload: 03300700010503d2ad84), MIC: 7ab11259)
0:03:07.513539	LOG	PULL_RESP: Protocol version = 02, Token = 3ab5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 1969955844, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YCAgICAAaAcAcs9Ll670c4rjvHqxElk='}}
0:03:07.514538	LOG	Server ----------> DUT
0:03:07.517539	LOG	TX_ACK: 02 3ab5 05 aa555a0000240409
0:03:10.868620	LOG	PULL_DATA: 02 94a0 02 aa555a0000240409
0:03:10.871617	LOG	PULL_ACK: 02 94a0 04
0:03:12.389759	LOG	PUSH_ACK: 02 0f15 01
0:03:12.393756	LOG	PUSH_DATA: Protocol version = 02, Token = 0f15, Identifier = 00, JSON = {'rxpk': [{'tmst': 1972814175, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 13.8, 'rssi': -49, 'size': 19, 'data': 'QCAgICCE5woDBwUHAU6lfmg3XA=='}]}
0:03:12.395756	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 84, FCnt: 0ae7, FOpts: 03070507), FPort: 01, FRMPayload: 058c, MIC: 7e68375c)
0:03:12.396755	LOG	Server <---------- DUT
0:03:12.397754	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:03:12.399753	LOG	Command Answer: 03070507
0:03:12.460719	LOG	MAC command communication completed
0:03:12.472711	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:17.379929	LOG	PUSH_ACK: 02 0f16 01
0:03:17.382928	LOG	PUSH_DATA: Protocol version = 02, Token = 0f16, Identifier = 00, JSON = {'rxpk': [{'tmst': 1977796279, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -49, 'size': 17, 'data': 'QCAgICCC6AoFBwHpR02fjw0='}]}
0:03:17.383927	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0ae8, FOpts: 0507), FPort: 01, FRMPayload: 058c, MIC: 4d9f8f0d)
0:03:17.385926	LOG	Server <---------- DUT
0:03:17.386925	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0769, FOpts:), FPort: e0, FRMPayload: 0702010101010101010101

0:03:27.360244	LOG	Send Test Command TxFramesCtrlReq process completed
0:03:27.367241	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:03:31.138474	LOG	PULL_DATA: 02 d648 02 aa555a0000240409
0:03:31.140473	LOG	PULL_ACK: 02 d648 04
0:03:32.386735	LOG	PUSH_ACK: 02 0f1a 01
0:03:32.388734	LOG	PUSH_DATA: Protocol version = 02, Token = 0f1a, Identifier = 00, JSON = {'rxpk': [{'tmst': 1992804011, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCA6woBbdtplR4P'}]}
0:03:32.390733	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0aeb, FOpts:), FPort: 01, FRMPayload: 058c, MIC: 69951e0f)
0:03:32.391733	LOG	Server <---------- DUT
0:03:32.395730	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:03:32.405725	LOG	Send Test Command TxFramesCtrlReq process starts
0:03:37.392944	LOG	PUSH_ACK: 02 0f1c 01
0:03:37.394944	LOG	PUSH_DATA: Protocol version = 02, Token = 0f1c, Identifier = 00, JSON = {'rxpk': [{'tmst': 1997806603, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -47, 'size': 15, 'data': 'QCAgICCA7AoBiERUMg9J'}]}
0:03:37.395943	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0aec, FOpts:), FPort: 01, FRMPayload: 058c, MIC: 54320f49)
0:03:37.397942	LOG	Server <---------- DUT
0:03:37.399940	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 076b, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010

		'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -47, 'size': 15, 'data': 'QCAgICCA7goBbs9XwwZM'}]}
0:03:47.358111	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0aee, FOpts:), FPort: 01, FRMPayload: 058c, MIC: 57c3064c)
0:03:47.359111	LOG	Server <---------- DUT
0:03:47.361110	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 076c, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010

0:03:57.401381	LOG	TX_ACK: 02 3cbc 05 aa555a0000240409
0:04:01.387911	LOG	PULL_DATA: 02 09a9 02 aa555a0000240409
0:04:01.389910	LOG	PULL_ACK: 02 09a9 04
0:04:02.321434	LOG	PUSH_ACK: 02 0f21 01
0:04:02.324433	LOG	PUSH_DATA: Protocol version = 02, Token = 0f21, Identifier = 00, JSON = {'rxpk': [{'tmst': 2022757613, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -44, 'size': 19, 'data': 'QCAgICCE8QoDBwUHATXVomUC5Q=='}]}
0:04:02.326432	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 84, FCnt: 0af1, FOpts: 03070507), FPort: 01, FRMPayload: 058c, MIC: a26502e5)
0:04:02.327432	LOG	Server <---------- DUT
0:04:02.329431	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:04:02.331430	LOG	Command Answer: 03070507
0:04:02.400361	LOG	MAC command communication completed
0:04:02.411353	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:07.321606	LOG	PUSH_ACK: 02 0f23 01
0:04:07.323605	LOG	PUSH_DATA: Protocol version = 02, Token = 0f23, Identifier = 00, JSON = {'rxpk': [{'tmst': 2027749949, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -47, 'size': 17, 'data': 'QCAgICCC8goFBwH17coUuZA='}]}
0:04:07.324604	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0af2, FOpts: 0507), FPort: 01, FRMPayload: 058c, MIC: ca14b990)
0:04:07.326603	LOG	Server <---------- DUT
0:04:07.328602	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 076e, FOpts:), FPort: e0, FRMPayload: 0702010101010101010101

0:04:12.314136	LOG	Server <---------- DUT
0:04:12.318133	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:04:12.332127	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:17.296533	LOG	PUSH_ACK: 02 0f25 01
0:04:17.299531	LOG	PUSH_DATA: Protocol version = 02, Token = 0f25, Identifier = 00, JSON = {'rxpk': [{'tmst': 2037755117, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -44, 'size': 17, 'data': 'QCAgICCC9AoFBwG0sxv/liA='}]}
0:04:17.300530	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0af4, FOpts: 0507), FPort: 01, FRMPayload: 058c, MIC: 1bff9620)
0:04:17.302529	LOG	Server <---------- DUT
0:04:17.305528	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 076f, FOpts:), FPort: e0, FRMPayload: 07020101010101010101010

		07000101010101010101010

		'size': 256, 'data': 'oCAgICAAcQfgng3e8YEtKSHatIETTPUz5/Me5PxMsF5VBOa4OSjhA3DDQxTXbgpQ8BUY6fMDIaVNAfGDyNlJDxCL80pc9ZVyIZEqZgCIHkoOjHbtlzZ/gB4gGN1LeodNnBJD5PZG3ofNeAsY2+Q+O8gmGTQJqM5uRhJL2yjc5h1HR3c2nIOGf1JIK5GDEu/yTgq9pmoL/WoZomnM3HReQSlfvWyTUL9V55mv5jvVkPUWB70Cw28bw+0z3gldYQGf8z+frX29eTm5deGJi8GeRtJrW1CVRyvNyTIZZGqDAGbpfruflpYRtj41HV3WavhYsNp7uBsAni7560lWy2BzJw==''}}
0:04:37.335292	LOG	Server ----------> DUT
0:04:37.339291	LOG	Send Test Command TxFramesCtrlReq process completed
0:04:37.342289	LOG	Check ACK bit in next uplink starts
0:04:41.958096	LOG	PULL_DATA: 02 ea46 02 aa555a0000240409
0:04:41.963094	LOG	PULL_ACK: 02 ea46 04
0:04:42.311896	LOG	PUSH_ACK: 02 0f2b 01
0:04:42.314894	LOG	PUSH_DATA: Protocol version = 02, Token = 0f2b, Identifier = 00, JSON = {'rxpk': [{'tmst': 2062768085, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -45, 'size': 17, 'data': 'QCAgICCC+QoFBwFPA/y0Gb4='}]}
0:04:42.316894	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0af9, FOpts: 0507), FPort: 01, FRMPayload: 058c, MIC: fcb419be)
0:04:42.317893	LOG	Server <---------- DUT
0:04:42.319892	LOG	Oversized frame was sent. ACK bit received in uplink is set to 0
0:04:42.323889	LOG	Check ACK bit in next uplink tested successfully
0:04:42.327887	LOG	End Test Step: Oversized downlink for datarate SF8BW125
0:04:42.332884	LOG	Partial Verdict: PASS
0:04:42.338881	LOG	==========
0:04:42.346876	LOG	==========
0:04:42.351873	LOG	Start Test Step: Oversized downlink for datarate SF7BW125
0:04:42.367865	LOG	Send MAC command block process starts
0:04:47.355198	LOG	PUSH_ACK: 02 0f2c 01
0:04:47.356197	LOG	PUSH_DATA: Protocol version = 02, Token = 0f2c, Identifier = 00, JSON = {'rxpk': [{'tmst': 2067770693, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -46, 'size': 17, 'data': 'QCAgICCC+goFBwGyhmgTsZM='}]}
0:04:47.358196	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0afa, FOpts: 0507), FPort: 01, FRMPayload: 058c, MIC: 6813b193)
0:04:47.359196	LOG	Server <---------- DUT
0:04:47.361195	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0772, FOpts:), FPort: 00, FRMPayload: 03500700010505d2ad84), MIC: e7e200ad)
0:04:47.363191	LOG	PULL_RESP: Protocol version = 02, Token = 08d6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2069770693, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF8BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YCAgICAAcgcAj6n4IoT+/pDYq+fiAK0='}}
0:04:47.364191	LOG	Server ----------> DUT
0:04:47.369188	LOG	TX_ACK: 02 08d6 05 aa555a0000240409
0:04:52.027620	LOG	PULL_DATA: 02 b6a7 02 aa555a0000240409
0:04:52.029620	LOG	PULL_ACK: 02 b6a7 04
0:04:52.297468	LOG	PUSH_ACK: 02 0f2d 01
0:04:52.299467	LOG	PUSH_DATA: Protocol version = 02, Token = 0f2d, Identifier = 00, JSON = {'rxpk': [{'tmst': 2072732087, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -45, 'size': 19, 'data': 'QCAgICCE+woDBwUHAQ+92SZysw=='}]}
0:04:52.300466	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 84, FCnt: 0afb, FOpts: 03070507), FPort: 01, FRMPayload: 058c, MIC: d92672b3)
0:04:52.302465	LOG	Server <---------- DUT

0:04:52.303464	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:04:52.305464	LOG	Command Answer: 03070507
0:04:52.369430	LOG	MAC command communication completed
0:04:52.382421	LOG	Send Test Command TxFramesCtrlReq process starts
0:04:57.289638	LOG	PUSH_ACK: 02 0f2f 01
0:04:57.293636	LOG	PUSH_DATA: Protocol version = 02, Token = 0f2f, Identifier = 00, JSON = {'rxpk': [{'tmst': 2077734663, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 17, 'data': 'QCAgICCC/AoFBwE/cpjIVMU='}]}
0:04:57.297635	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0afc, FOpts: 0507), FPort: 01, FRMPayload: 058c, MIC: 98c854c5)
0:04:57.302631	LOG	Server <---------- DUT
0:04:57.308628	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0773, FOpts:), FPort: e0, FRMPayload: 0702010101010101010101

0:05:07.339704	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0774, FOpts:), FPort: e0, FRMPayload: 0702010101010101010101

		'SF7BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 256, 'data': 'oCAgICAAdQfg4/IqKc8/GK6wbpOjJeB/ZWANPNzyc34YMDl65WKGOCSikAHEeydnAOpkWcgLhZBtVoHfOxS2UpRaWtvsVXhByT/P3EipYG7tRGRTKjbnwrPbX1+6mxRn2RZJgwhAnRLdzej9p66A2xY3SxEbqAoODNfTL7pbINIj/qG24TMX+jy+N7TPCnrkweR+kanKuAxoa0aTo1irblTLyIuSUk0EmPDqS4MEDA8hXyWsqTLzPDDgM0/BmFmHCVBtO6Dctdwe6ADD48zKY97T3hE62Tq+bYNnzlJzN+IOgDpHa1yH542iS+jYENeCAlBM6ZHrFMXYGNxCRKF4HQ=='}}
0:05:17.324343	LOG	Server ----------> DUT
0:05:17.327342	LOG	Send Test Command TxFramesCtrlReq process completed
0:05:17.330340	LOG	Check ACK bit in next uplink starts
0:05:22.302763	LOG	PUSH_ACK: 02 0f35 01
0:05:22.304762	LOG	PUSH_DATA: Protocol version = 02, Token = 0f35, Identifier = 00, JSON = {'rxpk': [{'tmst': 2102747599, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCAQsFBwF2bExJdEI='}]}
0:05:22.305761	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b01, FOpts: 0507), FPort: 01, FRMPayload: 058c, MIC: 4c497442)
0:05:22.306761	LOG	Server <---------- DUT
0:05:22.308760	LOG	Oversized frame was sent. ACK bit received in uplink is set to 0
0:05:22.310759	LOG	Check ACK bit in next uplink tested successfully
0:05:22.321752	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:22.368389	LOG	PULL_DATA: 02 17d5 02 aa555a0000240409
0:05:22.373387	LOG	PULL_ACK: 02 17d5 04
0:05:27.292307	LOG	PUSH_ACK: 02 0f36 01
0:05:27.294306	LOG	PUSH_DATA: Protocol version = 02, Token = 0f36, Identifier = 00, JSON = {'rxpk': [{'tmst': 2107750191, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCAgsFBwGRWbm+RDk='}]}
0:05:27.296306	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b02, FOpts: 0507), FPort: 01, FRMPayload: 058c, MIC: b9be4439)
0:05:27.297305	LOG	Server <---------- DUT
0:05:27.298304	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0776, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:05:32.334742	LOG	PUSH_DATA: Protocol version = 02, Token = 0f37, Identifier = 00, JSON = {'rxpk': [{'tmst': 2112752759, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -44, 'size': 17, 'data': 'QCAgICCCAwsFBwE2D5bw9Ac='}]}
0:05:32.335741	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b03, FOpts: 0507), FPort: 01, FRMPayload: 058c, MIC: 96f0f407)
0:05:32.337740	LOG	Server <---------- DUT
0:05:32.338740	LOG	Oversized frame was sent. ACK bit received in uplink is set to 0
0:05:32.340743	LOG	Check ACK bit in next uplink tested successfully
0:05:32.349734	LOG	End Test Step: Oversized downlink for datarate SF7BW125
0:05:32.353731	LOG	Partial Verdict: PASS
0:05:32.358746	LOG	==========
0:05:32.363744	LOG	==========
0:05:32.365743	LOG	Start Test Step: Oversized downlink for optional datarate SF7BW250
0:05:32.375718	LOG	Send NewChannelReq process starts
0:05:32.558252	LOG	PULL_DATA: 02 2a6d 02 aa555a0000240409
0:05:32.560251	LOG	PULL_ACK: 02 2a6d 04
0:05:37.330547	LOG	PUSH_ACK: 02 0f39 01
0:05:37.332546	LOG	PUSH_DATA: Protocol version = 02, Token = 0f39, Identifier = 00, JSON = {'rxpk': [{'tmst': 2117755343, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCBAsFBwHWWXyOLDo='}]}
0:05:37.333545	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b04, FOpts: 0507), FPort: 01, FRMPayload: 058c, MIC: 7c8e2c3a)
0:05:37.335545	LOG	Server <---------- DUT
0:05:37.336544	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0777, FOpts:), FPort: 00, FRMPayload: 070328768466), MIC: f4ef06f5)
0:05:37.339543	LOG	PULL_RESP: Protocol version = 02, Token = 7260, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2119755343, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YCAgICAAdwcA8n2TKCLv9O8G9Q=='}}
0:05:37.340542	LOG	Server ----------> DUT
0:05:37.344540	LOG	TX_ACK: 02 7260 05 aa555a0000240409
0:05:42.332401	LOG	PUSH_ACK: 02 0f3a 01
0:05:42.336399	LOG	PUSH_DATA: Protocol version = 02, Token = 0f3a, Identifier = 00, JSON = {'rxpk': [{'tmst': 2122757938, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCBQsHAwH7zgmYxsg='}]}
0:05:42.337398	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b05, FOpts: 0703), FPort: 01, FRMPayload: 058c, MIC: 0998c6c8)
0:05:42.338399	LOG	Server <---------- DUT
0:05:42.340397	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:05:42.341396	LOG	Command Answer: 0703
0:05:42.346395	LOG	MAC command communication completed
0:05:42.351391	LOG	Send MAC command block process starts
0:05:42.588067	LOG	PULL_DATA: 02 f2be 02 aa555a0000240409
0:05:42.590064	LOG	PULL_ACK: 02 f2be 04
0:05:47.325393	LOG	PUSH_ACK: 02 0f3b 01
0:05:47.327390	LOG	PUSH_DATA: Protocol version = 02, Token = 0f3b, Identifier = 00, JSON = {'rxpk': [{'tmst': 2127755394, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICCABgsBFSbTgL3l'}]}
0:05:47.329391	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b06, FOpts:), FPort: 01, FRMPayload: 058c, MIC: d380bde5)
0:05:47.330416	LOG	Server <---------- DUT

0:05:47.332387	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0778, FOpts:), FPort: 00, FRMPayload: 03600f00010506d2ad84), MIC: b7cf469f)
0:05:47.335386	LOG	PULL_RESP: Protocol version = 02, Token = 7063, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2129755394, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YCAgICAAeAcArBj2Qmb5N1xWaLfPRp8='}}
0:05:47.336389	LOG	Server ----------> DUT
0:05:47.341381	LOG	TX_ACK: 02 7063 05 aa555a0000240409
0:05:52.286281	LOG	PUSH_ACK: 02 0f3c 01
0:05:52.288280	LOG	PUSH_DATA: Protocol version = 02, Token = 0f3c, Identifier = 00, JSON = {'rxpk': [{'tmst': 2132737402, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -50, 'size': 19, 'data': 'QCAgICCEBwsDBwUHAb02EJxVYA=='}]}
0:05:52.289281	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 84, FCnt: 0b07, FOpts: 03070507), FPort: 01, FRMPayload: 058c, MIC: 109c5560)
0:05:52.291278	LOG	Server <---------- DUT
0:05:52.293278	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:05:52.294277	LOG	Command Answer: 03070507
0:05:52.352246	LOG	MAC command communication completed
0:05:52.362240	LOG	Send Test Command TxFramesCtrlReq process starts
0:05:52.798058	LOG	PULL_DATA: 02 0ebc 02 aa555a0000240409
0:05:52.800054	LOG	PULL_ACK: 02 0ebc 04
0:05:57.327503	LOG	PUSH_ACK: 02 0f3d 01
0:05:57.329503	LOG	PUSH_DATA: Protocol version = 02, Token = 0f3d, Identifier = 00, JSON = {'rxpk': [{'tmst': 2137739982, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -50, 'size': 17, 'data': 'QCAgICCCCAsFBwGFBO37MM4='}]}
0:05:57.331501	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b08, FOpts: 0507), FPort: 01, FRMPayload: 058c, MIC: edfb30ce)
0:05:57.332500	LOG	Server <---------- DUT
0:05:57.334499	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0779, FOpts:), FPort: e0, FRMPayload: 0702010101010101010101

0:06:02.318850	LOG	PUSH_DATA: Protocol version = 02, Token = 0f3e, Identifier = 00, JSON = {'rxpk': [{'tmst': 2142742574, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -50, 'size': 17, 'data': 'QCAgICCCCQsFBwHkbvtOX38='}]}
0:06:02.319850	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b09, FOpts: 0507), FPort: 01, FRMPayload: 058c, MIC: fb4e5f7f)
0:06:02.320848	LOG	Server <---------- DUT
0:06:02.323846	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:06:02.335839	LOG	Send Test Command TxFramesCtrlReq process starts
0:06:03.007459	LOG	PULL_DATA: 02 89e4 02 aa555a0000240409
0:06:03.009457	LOG	PULL_ACK: 02 89e4 04
0:06:07.321991	LOG	PUSH_ACK: 02 0f40 01
0:06:07.324990	LOG	PUSH_DATA: Protocol version = 02, Token = 0f40, Identifier = 00, JSON = {'rxpk': [{'tmst': 2147745162, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -49, 'size': 17, 'data': 'QCAgICCCCgsFBwHgpTOea6Q='}]}
0:06:07.327988	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b0a, FOpts: 0507), FPort: 01, FRMPayload: 058c, MIC: 339e6ba4)
0:06:07.330986	LOG	Server <---------- DUT
0:06:07.332986	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 077a, FOpts:), FPort: e0, FRMPayload: 0702010101010101010101

0:06:17.308429	LOG	PUSH_DATA: Protocol version = 02, Token = 0f44, Identifier = 00, JSON = {'rxpk': [{'tmst': 2157750342, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -49, 'size': 17, 'data': 'QCAgICCCDAsFBwHTupKxML8='}]}
0:06:17.310428	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b0c, FOpts: 0507), FPort: 01, FRMPayload: 058c, MIC: 92b130bf)
0:06:17.311428	LOG	Server <---------- DUT
0:06:17.313426	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 077b, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

		1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 10101010101010101), MIC: dbe2e003)
0:06:27.359496	LOG	Frame command sent to the DUT
0:06:27.363494	LOG	PULL_RESP: Protocol version = 02, Token = adf1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2169755522, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 256, 'data': 'oCAgICAAfAfgq3BxobQmvu3ZO+f6TNVDqM8SCywDTq2sUH3yi/THAovPyYc2X0SBxPRlCzlqzNHlTOtl/GZPpojICue7DVRiobfxBSElGCF+R0m8toECEINbe0chMxu3MoQkX08Lwq74/0b8dH5BTXRHtzulXWI0epfIqbuRrbWFdqMlJ+VlhT/mS91bcvvfpkecQBqFw94Kqz/XbWIm8Fn4cxsZ3Bb5Zn7Jf0XNozKj4EO2IjsAVibpe///4bRVXpiOm6Bbfz9/pmlYc6V0vvea4FJWv9rHM1DqdVKnSI3TV+3CASgdaUE+REA3SRF7E3tb8/otTxcFSVA32+LgAw=='}}
0:06:27.365493	LOG	Server ----------> DUT
0:06:27.371488	LOG	Send Test Command TxFramesCtrlReq process completed
0:06:27.373486	LOG	Check ACK bit in next uplink starts
0:06:32.328630	LOG	PUSH_ACK: 02 0f47 01
0:06:32.330631	LOG	PUSH_DATA: Protocol version = 02, Token = 0f47, Identifier = 00, JSON = {'rxpk': [{'tmst': 2172758114, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -50, 'size': 17, 'data': 'QCAgICCCDwsFBwHl3bbyD4k='}]}
0:06:32.332630	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b0f, FOpts: 0507), FPort: 01, FRMPayload: 058c, MIC: b6f20f89)
0:06:32.333628	LOG	Server <---------- DUT
0:06:32.335625	LOG	Oversized frame was sent. ACK bit received in uplink is set to 0
0:06:32.338624	LOG	Check ACK bit in next uplink tested successfully
0:06:32.341622	LOG	Send LinkADRReq process starts
0:06:33.457983	LOG	PULL_DATA: 02 a98d 02 aa555a0000240409
0:06:33.458983	LOG	PULL_ACK: 02 a98d 04
0:06:37.331787	LOG	PUSH_ACK: 02 0f49 01
0:06:37.333786	LOG	PUSH_DATA: Protocol version = 02, Token = 0f49, Identifier = 00, JSON = {'rxpk': [{'tmst': 2177760698, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -50, 'size': 17, 'data': 'QCAgICCCEAsFBwFo1LTNHgg='}]}
0:06:37.334785	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b10, FOpts: 0507), FPort: 01, FRMPayload: 058c, MIC: b4cd1e08)
0:06:37.336785	LOG	Server <---------- DUT
0:06:37.338783	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 077d, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: 152cb8b0)
0:06:37.341782	LOG	PULL_RESP: Protocol version = 02, Token = d020, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2179760698, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAfQcAUU6xur0VLLiw'}}
0:06:37.342799	LOG	Server ----------> DUT
0:06:37.347779	LOG	TX_ACK: 02 d020 05 aa555a0000240409
0:06:42.363182	LOG	PUSH_ACK: 02 0f4a 01
0:06:42.365182	LOG	PUSH_DATA: Protocol version = 02, Token = 0f4a, Identifier = 00, JSON = {'rxpk': [{'tmst': 2182789008, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCEQsDBwGFzGO/Jh8='}]}
0:06:42.367181	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b11, FOpts: 0307), FPort: 01, FRMPayload: 058c, MIC: 63bf261f)
0:06:42.368180	LOG	Server <---------- DUT

0:06:42.369180	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:06:42.371181	LOG	Command Answer: 0307
0:06:42.378176	LOG	MAC command communication completed
0:06:42.381173	LOG	Send NewChannelReq process starts
0:06:43.647726	LOG	PULL_DATA: 02 987c 02 aa555a0000240409
0:06:43.650724	LOG	PULL_ACK: 02 987c 04
0:06:47.352926	LOG	PUSH_ACK: 02 0f4b 01
0:06:47.355925	LOG	PUSH_DATA: Protocol version = 02, Token = 0f4b, Identifier = 00, JSON = {'rxpk': [{'tmst': 2187786456, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAEgsB1Gj8v6yZ'}]}
0:06:47.357924	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b12, FOpts:), FPort: 01, FRMPayload: 058c, MIC: fcbfac99)
0:06:47.358923	LOG	Server <---------- DUT
0:06:47.360922	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 077e, FOpts:), FPort: 00, FRMPayload: 070300000050), MIC: 932f7cfd)
0:06:47.363921	LOG	PULL_RESP: Protocol version = 02, Token = 06d4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2189786456, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YCAgICAAfgcAWpli45RZky98/Q=='}}
0:06:47.365919	LOG	Server ----------> DUT
0:06:47.369917	LOG	TX_ACK: 02 06d4 05 aa555a0000240409
0:06:52.338688	LOG	PUSH_ACK: 02 0f4c 01
0:06:52.341686	LOG	PUSH_DATA: Protocol version = 02, Token = 0f4c, Identifier = 00, JSON = {'rxpk': [{'tmst': 2192794182, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCEwsHAwGImarTxhE='}]}
0:06:52.343685	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b13, FOpts: 0703), FPort: 01, FRMPayload: 058c, MIC: aad3c611)
0:06:52.345684	LOG	Server <---------- DUT
0:06:52.347683	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:06:52.348682	LOG	Command Answer: 0703
0:06:52.358676	LOG	MAC command communication completed
0:06:52.361675	LOG	End Test Step: Oversized downlink for optional datarate SF7BW250
0:06:52.365673	LOG	Partial Verdict: PASS
0:06:52.368671	LOG	==========
0:06:52.374667	LOG	==========
0:06:52.376666	LOG	Start Test Step: Oversized downlink for optional datarate FSK
0:06:52.385660	LOG	Send NewChannelReq process starts
0:06:53.667727	LOG	PULL_DATA: 02 88c7 02 aa555a0000240409
0:06:53.669726	LOG	PULL_ACK: 02 88c7 04
0:06:57.380669	LOG	PUSH_ACK: 02 0f4d 01
0:06:57.382669	LOG	PUSH_DATA: Protocol version = 02, Token = 0f4d, Identifier = 00, JSON = {'rxpk': [{'tmst': 2197791638, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAFAsBvZWLsLpo'}]}
0:06:57.383667	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b14, FOpts:), FPort: 01, FRMPayload: 058c, MIC: 8bb0ba68)
0:06:57.385666	LOG	Server <---------- DUT
0:06:57.387665	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 077f, FOpts:), FPort: 00, FRMPayload: 070428768477), MIC: e93b5eb5)
0:06:57.390663	LOG	PULL_RESP: Protocol version = 02, Token = a2df, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2199791638, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YCAgICAAfwcA9MRrFIHM6TtetQ=='}}
0:06:57.391662	LOG	Server ----------> DUT
0:06:57.396661	LOG	TX_ACK: 02 a2df 05 aa555a0000240409
0:07:02.343138	LOG	PUSH_ACK: 02 0f4e 01
0:07:02.345139	LOG	PUSH_DATA: Protocol version = 02, Token = 0f4e, Identifier = 00, JSON = {'rxpk': [{'tmst': 2202799347, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCFQsHAwGZ8IfKURg='}]}
0:07:02.346137	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b15, FOpts: 0703), FPort: 01, FRMPayload: 058c, MIC: 87ca5118)
0:07:02.347138	LOG	Server <---------- DUT
0:07:02.349135	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:07:02.350137	LOG	Command Answer: 0703
0:07:02.356131	LOG	MAC command communication completed
0:07:02.361129	LOG	Send MAC command block process starts
0:07:03.687565	LOG	PULL_DATA: 02 9ea7 02 aa555a0000240409
0:07:03.689565	LOG	PULL_ACK: 02 9ea7 04
0:07:07.340495	LOG	PUSH_ACK: 02 0f50 01
0:07:07.345492	LOG	PUSH_DATA: Protocol version = 02, Token = 0f50, Identifier = 00, JSON = {'rxpk': [{'tmst': 2207796803, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAFgsB48B+wwUi'}]}
0:07:07.349490	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b16, FOpts:), FPort: 01, FRMPayload: 058c, MIC: 7ec30522)
0:07:07.352488	LOG	Server <---------- DUT
0:07:07.358485	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0780, FOpts:), FPort: 00, FRMPayload: 03701700010507d2ad84), MIC: 60fb66e3)
0:07:07.362483	LOG	PULL_RESP: Protocol version = 02, Token = 8af2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2209796803, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW250', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YCAgICAAgAcAdl6GftyaAk6iA2D7ZuM='}}
0:07:07.363482	LOG	Server ----------> DUT
0:07:07.367480	LOG	TX_ACK: 02 8af2 05 aa555a0000240409
0:07:12.297380	LOG	PUSH_ACK: 02 0f51 01
0:07:12.300379	LOG	PUSH_DATA: Protocol version = 02, Token = 0f51, Identifier = 00, JSON = {'rxpk': [{'tmst': 2212757434, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -47, 'size': 19, 'data': 'QCAgICCEFwsDBwUHAWKr5e3gNA=='}]}
0:07:12.302378	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 84, FCnt: 0b17, FOpts: 03070507), FPort: 01, FRMPayload: 058c, MIC: e5ede034)
0:07:12.303377	LOG	Server <---------- DUT
0:07:12.305376	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:07:12.307375	LOG	Command Answer: 03070507
0:07:12.381352	LOG	MAC command communication completed
0:07:12.392328	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:13.867492	LOG	PULL_DATA: 02 c988 02 aa555a0000240409
0:07:13.872488	LOG	PULL_ACK: 02 c988 04
0:07:17.338602	LOG	PUSH_ACK: 02 0f52 01
0:07:17.340601	LOG	PUSH_DATA: Protocol version = 02, Token = 0f52, Identifier = 00, JSON = {'rxpk': [{'tmst': 2217759661, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCGAsFBwGsaVxh9Hw='}]}

0:07:17.342600	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b18, FOpts: 0507), FPort: 01, FRMPayload: 058c, MIC: 5c61f47c)
0:07:17.343599	LOG	Server <---------- DUT
0:07:17.346598	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0781, FOpts:), FPort: e0, FRMPayload: 0702010101010101010101

		50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 256, 'data': 'YCAgICAAggfgHUqkchT1rNax0L3itkpM0okbVbVhNvn+Q+3lQ/8gF1YKd9fc7/4sp0qcjAug3Uk3ZgI+dFE3N8L1Yt5dSdX9TRXKvYZTErjsk7IRcaZ7TXM3zbo42jAfphGQSdAwyXGYIDjV3q9oGbwPtVPBza7sRR5i82J2WHhQpyA0rouU6StJ+s/hTpyL2jXBdUsU7V5CYaqXlgeDRnOAxZ7v1Y/IMAmzJOGWNB8FOLlBgZlbmndSKhiUPBsb+dCb8yAdddALKvS7nP5sxNI68PCBxX2BLk1BBS2BJY6oRQS6XpgjNvwoVwQeytqB042mjn67ultTLHoXiuVkfQ=='}}
0:07:27.330149	LOG	Server ----------> DUT
0:07:27.334146	LOG	Send Test Command TxFramesCtrlReq process completed
0:07:27.338144	LOG	Wait Until Unconfirmed Uplink arrives process starts
0:07:32.306968	LOG	PUSH_ACK: 02 0f55 01
0:07:32.308966	LOG	PUSH_DATA: Protocol version = 02, Token = 0f55, Identifier = 00, JSON = {'rxpk': [{'tmst': 2232767358, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCGwsFBwEnn8EIgD0='}]}
0:07:32.310965	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b1b, FOpts: 0507), FPort: 01, FRMPayload: 058c, MIC: c108803d)
0:07:32.312964	LOG	Server <---------- DUT
0:07:32.318961	LOG	Wait Until Unconfirmed Uplink arrives tested successfully
0:07:32.330954	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:34.257102	LOG	PULL_DATA: 02 3085 02 aa555a0000240409
0:07:34.259100	LOG	PULL_ACK: 02 3085 04
0:07:37.310371	LOG	PUSH_ACK: 02 0f57 01
0:07:37.312370	LOG	PUSH_DATA: Protocol version = 02, Token = 0f57, Identifier = 00, JSON = {'rxpk': [{'tmst': 2237769922, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCHAsFBwHgbPHOEDc='}]}
0:07:37.314368	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b1c, FOpts: 0507), FPort: 01, FRMPayload: 058c, MIC: f1ce1037)
0:07:37.316367	LOG	Server <---------- DUT
0:07:37.318366	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0783, FOpts:), FPort: e0, FRMPayload: 07000101010101010101010

0:07:42.358304	LOG	Server <---------- DUT
0:07:42.359303	LOG	Oversized frame was sent. ACK bit received in uplink is set to 0
0:07:42.364300	LOG	Check ACK bit in next uplink tested successfully
0:07:42.380291	LOG	Send Test Command TxFramesCtrlReq process starts
0:07:44.467069	LOG	PULL_DATA: 02 5193 02 aa555a0000240409
0:07:44.472066	LOG	PULL_ACK: 02 5193 04
0:07:47.343546	LOG	PUSH_ACK: 02 0f59 01
0:07:47.345545	LOG	PUSH_DATA: Protocol version = 02, Token = 0f59, Identifier = 00, JSON = {'rxpk': [{'tmst': 2247775061, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -47, 'size': 17, 'data': 'QCAgICCCHgsFBwHtrlUg1AE='}]}
0:07:47.347543	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b1e, FOpts: 0507), FPort: 01, FRMPayload: 058c, MIC: 5520d401)
0:07:47.349543	LOG	Server <---------- DUT
0:07:47.351541	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0784, FOpts:), FPort: e0, FRMPayload: 0700010101010101010101

0:07:57.331955	LOG	PULL_RESP: Protocol version = 02, Token = a8ce, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2259780200, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 18, 'data': 'YCAgICAAhQcAmFgmRlyZBANb'}}
0:07:57.333953	LOG	Server ----------> DUT
0:07:57.338949	LOG	TX_ACK: 02 a8ce 05 aa555a0000240409
0:08:02.414010	LOG	PUSH_ACK: 02 0f5c 01
0:08:02.415009	LOG	PUSH_DATA: Protocol version = 02, Token = 0f5c, Identifier = 00, JSON = {'rxpk': [{'tmst': 2262830221, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCIQsDBwErSe2H4Jc='}]}
0:08:02.417006	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b21, FOpts: 0307), FPort: 01, FRMPayload: 058c, MIC: ed87e097)
0:08:02.418007	LOG	Server <---------- DUT
0:08:02.419007	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:08:02.420006	LOG	Command Answer: 0307
0:08:02.427001	LOG	MAC command communication completed
0:08:02.430001	LOG	Send NewChannelReq process starts
0:08:04.687084	LOG	PULL_DATA: 02 686f 02 aa555a0000240409
0:08:04.689081	LOG	PULL_ACK: 02 686f 04
0:08:07.411539	LOG	PUSH_ACK: 02 0f5e 01
0:08:07.414537	LOG	PUSH_DATA: Protocol version = 02, Token = 0f5e, Identifier = 00, JSON = {'rxpk': [{'tmst': 2267827653, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAIgsBC/0j2hN0'}]}
0:08:07.415536	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b22, FOpts:), FPort: 01, FRMPayload: 058c, MIC: 23da1374)
0:08:07.417536	LOG	Server <---------- DUT
0:08:07.419534	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0786, FOpts:), FPort: 00, FRMPayload: 070400000050), MIC: 3f50b507)
0:08:07.422533	LOG	PULL_RESP: Protocol version = 02, Token = f187, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2269827653, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 19, 'data': 'YCAgICAAhgcA7bGiRLJBP1C1Bw=='}}
0:08:07.424532	LOG	Server ----------> DUT
0:08:07.428530	LOG	TX_ACK: 02 f187 05 aa555a0000240409
0:08:12.408389	LOG	PUSH_ACK: 02 0f5f 01
0:08:12.410388	LOG	PUSH_DATA: Protocol version = 02, Token = 0f5f, Identifier = 00, JSON = {'rxpk': [{'tmst': 2272835362, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCIwsHAwHx0p0oHcg='}]}
0:08:12.412386	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b23, FOpts: 0703), FPort: 01, FRMPayload: 058c, MIC: 9d281dc8)
0:08:12.414385	LOG	Server <---------- DUT
0:08:12.415384	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:08:12.417384	LOG	Command Answer: 0703
0:08:12.426379	LOG	MAC command communication completed
0:08:12.431376	LOG	End Test Step: Oversized downlink for optional datarate FSK
0:08:12.436373	LOG	Partial Verdict: PASS
0:08:12.442369	LOG	==========
0:08:12.449366	LOG	==========
0:08:12.452364	LOG	Start Test Step: Restore default settings
0:08:12.469354	LOG	Send LinkADRReq process starts
0:08:14.776749	LOG	PULL_DATA: 02 d65a 02 aa555a0000240409

0:08:14.782747	LOG	PULL_ACK: 02 d65a 04
0:08:17.398233	LOG	PUSH_ACK: 02 0f60 01
0:08:17.403230	LOG	PUSH_DATA: Protocol version = 02, Token = 0f60, Identifier = 00, JSON = {'rxpk': [{'tmst': 2277832802, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -47, 'size': 15, 'data': 'QCAgICCAJAsBixqdXURg'}]}
0:08:17.407228	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b24, FOpts:), FPort: 01, FRMPayload: 058c, MIC: 9d5d4460)
0:08:17.411226	LOG	Server <---------- DUT
0:08:17.413226	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0787, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: 57fe318a)
0:08:17.415224	LOG	PULL_RESP: Protocol version = 02, Token = 6615, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2279832802, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 18, 'data': 'YCAgICAAhwcAKSMCCMhX/jGK'}}
0:08:17.416223	LOG	Server ----------> DUT
0:08:17.420220	LOG	TX_ACK: 02 6615 05 aa555a0000240409
0:08:22.412040	LOG	PUSH_ACK: 02 0f61 01
0:08:22.415038	LOG	PUSH_DATA: Protocol version = 02, Token = 0f61, Identifier = 00, JSON = {'rxpk': [{'tmst': 2282840501, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -43, 'size': 17, 'data': 'QCAgICCCJQsDBwGCFdtaMdw='}]}
0:08:22.416038	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b25, FOpts: 0307), FPort: 01, FRMPayload: 058c, MIC: db5a31dc)
0:08:22.418035	LOG	Server <---------- DUT
0:08:22.420035	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:08:22.421033	LOG	Command Answer: 0307
0:08:22.428998	LOG	MAC command communication completed
0:08:22.432996	LOG	Send RXParamSetupReq process starts
0:08:24.976878	LOG	PULL_DATA: 02 2de4 02 aa555a0000240409
0:08:24.978877	LOG	PULL_ACK: 02 2de4 04
0:08:27.400591	LOG	PUSH_ACK: 02 0f62 01
0:08:27.402590	LOG	PUSH_DATA: Protocol version = 02, Token = 0f62, Identifier = 00, JSON = {'rxpk': [{'tmst': 2287837941, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAJgsBAjokqd1L'}]}
0:08:27.403589	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b26, FOpts:), FPort: 01, FRMPayload: 058c, MIC: 24a9dd4b)
0:08:27.405588	LOG	Server <---------- DUT
0:08:27.407587	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0788, FOpts:), FPort: 00, FRMPayload: 0500d2ad84), MIC: 8fcd6312)
0:08:27.410586	LOG	PULL_RESP: Protocol version = 02, Token = b07e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2289837941, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 50000, 'freq': 869.525, 'modu': 'FSK', 'prea': 5, 'fdev': 25000, 'size': 18, 'data': 'YCAgICAAiAcANNlEaJiPzWMS'}}
0:08:27.411585	LOG	Server ----------> DUT
0:08:27.415582	LOG	TX_ACK: 02 b07e 05 aa555a0000240409
0:08:32.417222	LOG	PUSH_ACK: 02 0f63 01
0:08:32.419221	LOG	PUSH_DATA: Protocol version = 02, Token = 0f63, Identifier = 00, JSON = {'rxpk': [{'tmst': 2292845658, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCJwsFBwHVjS4k3fg='}]}
0:08:32.421220	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b27, FOpts: 0507), FPort: 01, FRMPayload: 058c, MIC: 2e24ddf8)
0:08:32.422220	LOG	Server <---------- DUT

0:08:32.423219	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:08:32.424219	LOG	Command Answer: 0507
0:08:32.443209	LOG	MAC command communication completed
0:08:32.446208	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:08:35.177121	LOG	PULL_DATA: 02 16b7 02 aa555a0000240409
0:08:35.179105	LOG	PULL_ACK: 02 16b7 04
0:08:37.421830	LOG	PUSH_ACK: 02 0f65 01
0:08:37.426829	LOG	PUSH_DATA: Protocol version = 02, Token = 0f65, Identifier = 00, JSON = {'rxpk': [{'tmst': 2297848234, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCKAsFBwEiFS6ZmKA='}]}
0:08:37.427827	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b28, FOpts: 0507), FPort: 01, FRMPayload: 058c, MIC: 2e9998a0)
0:08:37.428826	LOG	Server <---------- DUT
0:08:37.430826	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0789, FOpts:), FPort: e0, FRMPayload: 0501), MIC: 0f279560)
0:08:37.432825	LOG	Frame command sent to the DUT
0:08:37.433823	LOG	PULL_RESP: Protocol version = 02, Token = aeb6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2299848234, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAiQfgCHcPJ5Vg'}}
0:08:37.434823	LOG	Server ----------> DUT
0:08:37.437821	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:08:37.441821	LOG	End Test Step: Restore default settings
0:08:37.445819	LOG	Partial Verdict: PASS
0:08:37.449816	LOG	==========
0:08:37.453814	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_018
0:08:37.455813	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_019_A	
Verdict	PASS	
Date	2021-10-18 04:31:16	
Comments	Maximum Allowed Payload (Part 1)	
Technology Version	LCTT v3.1.0_D1 | GUI v1.10.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.1	
Test Specs Version	USv1.5.1/EUv1.6/KRv1.2.1/ASv1.1.1/INv1.1.1/ALLv1.1	
Project	MLSv2.0.0	
Project Creation Date	2021-10-17 22:25:22	
Sample	DevID:SAMR34-XPRO | AppID:CertApp_EU_ABP | SW:MLSv2.0.0 | HW:SAMR34J18B	
Parameters	SF7BW250 Frequency	868.100
	FSK Frequency	868.100
	Conformance	TRUE

Time Stamp (ms)	Event	Summary
0:00:00.019735	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_019_A
0:00:00.062711	LOG	==========
0:00:00.064711	LOG	Start Test Step: Device activation
0:00:00.117680	LOG	Activation process has finished successfully
0:00:00.120678	LOG	Data stored in the DUT after Activation:
0:00:00.122677	LOG	DevAddr: 20202020
0:00:00.124676	LOG	AppEUI: abcdabcdabcdabcd
0:00:00.127674	LOG	NwkSKey: abcdabcdabcdabcdabcdabcdabcdabcd
0:00:00.130672	LOG	AppSKey: 12345678123456781234567812345678

0:00:00.134670	LOG	End Test Step: Device activation
0:00:00.137668	LOG	Partial Verdict: PASS
0:00:00.141666	LOG	==========
0:00:00.145663	LOG	==========
0:00:00.148662	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.159656	LOG	DUT Pre-condition activation process starts
0:00:00.161655	LOG	DUT Pre-condition activation completed
0:00:00.165653	LOG	End Test Step: DUT Pre-condition settings
0:00:00.169650	LOG	Partial Verdict: PASS
0:00:00.173648	LOG	==========
0:00:00.177645	LOG	==========
0:00:00.180644	LOG	Start Test Step: Initial settings for the test
0:00:00.190637	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:00:01.089131	LOG	PUSH_DATA received while waiting first PULL_DATA
0:00:03.897537	LOG	PULL_DATA: 02 c81a 02 aa555a0000240409
0:00:03.899536	LOG	PULL_ACK: 02 c81a 04
0:00:03.901535	LOG	First PULL_DATA received
0:00:06.079362	LOG	PUSH_ACK: 02 0f67 01
0:00:06.082360	LOG	PUSH_DATA: Protocol version = 02, Token = 0f67, Identifier = 00, JSON = {'rxpk': [{'tmst': 2307848252, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAKgsBPkM6Cqlx'}]}
0:00:06.083360	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b2a, FOpts:), FPort: 01, FRMPayload: 058d, MIC: 3a0aa971)
0:00:06.084359	LOG	Server <---------- DUT
0:00:06.086358	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 078a, FOpts:), FPort: e0, FRMPayload: 0500), MIC: 730228ed)
0:00:06.088357	LOG	Frame command sent to the DUT
0:00:06.090356	LOG	PULL_RESP: Protocol version = 02, Token = d73a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2309848252, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAAigfgaRtzAijt'}}
0:00:06.091355	LOG	Server ----------> DUT
0:00:06.094353	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:00:06.097352	LOG	End Test Step: Initial settings for the test
0:00:06.101349	LOG	Partial Verdict: PASS
0:00:06.104348	LOG	==========
0:00:06.109345	LOG	==========
0:00:06.111344	LOG	Start Test Step: Uplink - Max Payload via Echo for datarate SF12BW125
0:00:06.122337	LOG	Send MAC command block process starts
0:00:11.086560	LOG	PUSH_ACK: 02 0f68 01
0:00:11.088558	LOG	PUSH_DATA: Protocol version = 02, Token = 0f68, Identifier = 00, JSON = {'rxpk': [{'tmst': 2312850830, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAKwsBPw7nIUPf'}]}
0:00:11.089558	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b2b, FOpts:), FPort: 01, FRMPayload: 058e, MIC: e72143df)
0:00:11.090558	LOG	Server <---------- DUT
0:00:11.092555	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 078b, FOpts:), FPort: 00, FRMPayload: 03000700010505d2ad84), MIC: c64b3bad)
0:00:11.096553	LOG	PULL_RESP: Protocol version = 02, Token = 8d56, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2314850830, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YCAgICAAiwcAZQyd6M/qg8YZj8ZLO60='}}
0:00:11.097553	LOG	Server ----------> DUT

0:00:11.101550	LOG	TX_ACK: 02 8d56 05 aa555a0000240409
0:00:14.036904	LOG	PULL_DATA: 02 234b 02 aa555a0000240409
0:00:14.038885	LOG	PULL_ACK: 02 234b 04
0:00:17.395987	LOG	PUSH_ACK: 02 0f69 01
0:00:17.400985	LOG	PUSH_DATA: Protocol version = 02, Token = 0f69, Identifier = 00, JSON = {'rxpk': [{'tmst': 2319125937, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -46, 'size': 19, 'data': 'QCAgICCELAsDBwUHAcQO+INaQA=='}]}
0:00:17.402980	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 84, FCnt: 0b2c, FOpts: 03070507), FPort: 01, FRMPayload: 058e, MIC: f8835a40)
0:00:17.403983	LOG	Server <---------- DUT
0:00:17.405978	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:17.406977	LOG	Command Answer: 03070507
0:00:17.466942	LOG	MAC command communication completed
0:00:17.477935	LOG	Send Test Command EchoPayloadReq process starts
0:00:22.389152	LOG	PUSH_ACK: 02 0f6a 01
0:00:22.392150	LOG	PUSH_DATA: Protocol version = 02, Token = 0f6a, Identifier = 00, JSON = {'rxpk': [{'tmst': 2324128513, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -59, 'size': 17, 'data': 'QCAgICCCLQsFBwHuTXYQVgE='}]}
0:00:22.394149	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b2d, FOpts: 0507), FPort: 01, FRMPayload: 058e, MIC: 76105601)
0:00:22.395148	LOG	Server <---------- DUT
0:00:22.398146	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 078c, FOpts:), FPort: e0, FRMPayload: 08010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: fb38cd50)
0:00:22.400146	LOG	Frame command sent to the DUT
0:00:22.402146	LOG	PULL_RESP: Protocol version = 02, Token = bcf4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2325128513, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAjAfgT8O6MR2sQq0RR12tG2m7/aKAezp+uxCtZK9Xyo8keQSOooJjscQW0nrPjVue/L2sYyVv+zjNUA=='}}
0:00:22.403144	LOG	Server ----------> DUT
0:00:22.406142	LOG	TX_ACK: 02 bcf4 05 aa555a0000240409
0:00:24.076515	LOG	PULL_DATA: 02 09cc 02 aa555a0000240409
0:00:24.079513	LOG	PULL_ACK: 02 09cc 04
0:00:33.913940	LOG	PUSH_ACK: 02 0f6c 01
0:00:33.917937	LOG	PUSH_DATA: Protocol version = 02, Token = 0f6c, Identifier = 00, JSON = {'rxpk': [{'tmst': 2335620043, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -42, 'size': 64, 'data': 'QCAgICCALgvgkeo5T6gtmVzCyO5pdPFMM12PJlNcZMtuSlLiL/gjuf+ixVlYECSsFe6763qri8YfibG1qvK10g=='}]}
0:00:33.919937	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b2e, FOpts:), FPort: e0, FRMPayload: 08020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202), MIC: aaf2b5d2)
0:00:33.920936	LOG	Server <---------- DUT
0:00:33.922936	LOG	Answer in payload: 02020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202
0:00:33.924935	LOG	Frame Command Payload in the Answer: 08020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202
0:00:33.929947	LOG	Checking if the payload of the EchoPayloadAns is correct

0:00:33.933929	LOG	Send Test Command EchoPayloadReq process completed
0:00:33.941924	LOG	Send Test Command EchoPayloadReq process starts
0:00:34.156802	LOG	PULL_DATA: 02 d8a2 02 aa555a0000240409
0:00:34.158800	LOG	PULL_ACK: 02 d8a2 04
0:00:37.260043	LOG	PUSH_ACK: 02 0f6d 01
0:00:37.262043	LOG	PUSH_DATA: Protocol version = 02, Token = 0f6d, Identifier = 00, JSON = {'rxpk': [{'tmst': 2338972387, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -59, 'size': 15, 'data': 'QCAgICCALwsB4Z78cpje'}]}
0:00:37.263041	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b2f, FOpts:), FPort: 01, FRMPayload: 058f, MIC: fc7298de)
0:00:37.265040	LOG	Server <---------- DUT
0:00:37.267039	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 078d, FOpts:), FPort: e0, FRMPayload: 08010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 5b01bb49)
0:00:37.270037	LOG	Frame command sent to the DUT
0:00:37.271054	LOG	PULL_RESP: Protocol version = 02, Token = c842, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2340972387, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAjQfgObE7EDd0Uk+13Dsubs1i20idl8x4lL6zFJNaTlSNBY+r6eTED6yfBAOwmytbhkSro3OEWwG7SQ==\'}}
0:00:37.273035	LOG	Server ----------> DUT
0:00:37.276033	LOG	TX_ACK: 02 c842 05 aa555a0000240409
0:00:43.896281	LOG	PUSH_ACK: 02 0f6e 01
0:00:43.898280	LOG	PUSH_DATA: Protocol version = 02, Token = 0f6e, Identifier = 00, JSON = {'rxpk': [{'tmst': 2345625214, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 12.8, 'rssi': -44, 'size': 64, 'data': 'QCAgICCAMAvgs7H4rEMetBgSngEy1xv99M+nCTndTTytpXiaVI5x0waOHZfoiyxSRoXkvV0dODaYOQKPMKgy8g==\'}]}
0:00:43.899279	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b30, FOpts:), FPort: e0, FRMPayload: 08020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202), MIC: 30a832f2)
0:00:43.900278	LOG	Server <---------- DUT
0:00:43.902278	LOG	Answer in payload: 02020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202
0:00:43.903279	LOG	Frame Command Payload in the Answer: 08020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202
0:00:43.907276	LOG	Checking if the payload of the EchoPayloadAns is correct
0:00:43.910274	LOG	Send Test Command EchoPayloadReq process completed
0:00:43.913273	LOG	End Test Step: Uplink - Max Payload via Echo for datarate SF12BW125
0:00:43.916271	LOG	Partial Verdict: PASS
0:00:43.920269	LOG	==========
0:00:43.924267	LOG	==========
0:00:43.926266	LOG	Start Test Step: Uplink - Max Payload via Echo for datarate SF11BW125
0:00:43.935260	LOG	Send MAC command block process starts
0:00:44.197414	LOG	PULL_DATA: 02 4960 02 aa555a0000240409
0:00:44.199413	LOG	PULL_ACK: 02 4960 04
0:00:47.240689	LOG	PUSH_ACK: 02 0f6f 01
0:00:47.242688	LOG	PUSH_DATA: Protocol version = 02, Token = 0f6f, Identifier = 00, JSON = {'rxpk': [{'tmst': 2348977550, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -53, 'size': 15, 'data': 'QCAgICCAMQsBNOgbjKuK'}]}
0:00:47.244687	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b31, FOpts:), FPort: 01, FRMPayload: 0590, MIC: 1b8cab8a)
0:00:47.245706	LOG	Server <---------- DUT
0:00:47.247689	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 078e, FOpts:), FPort: 00, FRMPayload: 03100700010505d2ad84), MIC: 63afc9bf)
0:00:47.249684	LOG	PULL_RESP: Protocol version = 02, Token = 3339, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2350977550, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YCAgICAAjgcAoYjmzBzCyPA5JmOvyb8='}}
0:00:47.251683	LOG	Server ----------> DUT
0:00:47.254681	LOG	TX_ACK: 02 3339 05 aa555a0000240409
0:00:51.836084	LOG	PUSH_ACK: 02 0f70 01
0:00:51.839083	LOG	PUSH_DATA: Protocol version = 02, Token = 0f70, Identifier = 00, JSON = {'rxpk': [{'tmst': 2353566496, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 12.2, 'rssi': -49, 'size': 19, 'data': 'QCAgICCEMgsDBwUHAcDk3BlEgw=='}]}
0:00:51.840082	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 84, FCnt: 0b32, FOpts: 03070507), FPort: 01, FRMPayload: 0590, MIC: dc194483)
0:00:51.842081	LOG	Server <---------- DUT
0:00:51.844080	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:51.845079	LOG	Command Answer: 03070507
0:00:51.905046	LOG	MAC command communication completed
0:00:51.916039	LOG	Send Test Command EchoPayloadReq process starts
0:00:54.386638	LOG	PULL_DATA: 02 69e7 02 aa555a0000240409
0:00:54.388637	LOG	PULL_ACK: 02 69e7 04
0:00:56.739305	LOG	PUSH_ACK: 02 0f72 01
0:00:56.741304	LOG	PUSH_DATA: Protocol version = 02, Token = 0f72, Identifier = 00, JSON = {'rxpk': [{'tmst': 2358487136, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -44, 'size': 17, 'data': 'QCAgICCCMwsFBwF2nr9fiPc='}]}
0:00:56.743303	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b33, FOpts: 0507), FPort: 01, FRMPayload: 0590, MIC: bf5f88f7)
0:00:56.745302	LOG	Server <---------- DUT
0:00:56.748300	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 078f, FOpts:), FPort: e0, FRMPayload: 08010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 7678572b)
0:00:56.751298	LOG	Frame command sent to the DUT
0:00:56.753297	LOG	PULL_RESP: Protocol version = 02, Token = 202d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2359487136, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF11BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAjwfg4zUwhefCarYqN90G74rarq+ZoCqExQb0xlVS8+6piyMPagPaWapO1HdbQrbz5S2Oem2rdnhXKw=='}}
0:00:56.754297	LOG	Server ----------> DUT
0:00:56.759293	LOG	TX_ACK: 02 202d 05 aa555a0000240409
0:01:02.694929	LOG	PUSH_ACK: 02 0f73 01
0:01:02.697928	LOG	PUSH_DATA: Protocol version = 02, Token = 0f73, Identifier = 00, JSON = {'rxpk': [{'tmst': 2364402652, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 12.5, 'rssi': -46, 'size': 64, 'data': 'QCAgICCANAvgW8vvRnRNgaXjLv6nstm+gZt0TcodYfKIrjzNTAtp7hEev/P+7XWSWXVVKC0rOz5y0Dk3IiqOiQ=='}]}

0:01:02.699927	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b34, FOpts:), FPort: e0, FRMPayload: 080202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202, MIC: 222a8e89)
0:01:02.700926	LOG	Server <---------- DUT
0:01:02.702925	LOG	Answer in payload: 020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202
0:01:02.704924	LOG	Frame Command Payload in the Answer: 080202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202
0:01:02.710920	LOG	Checking if the payload of the EchoPayloadAns is correct
0:01:02.714918	LOG	Send Test Command EchoPayloadReq process completed
0:01:02.719915	LOG	Send Test Command EchoPayloadReq process starts
0:01:04.526890	LOG	PULL_DATA: 02 0732 02 aa555a0000240409
0:01:04.531888	LOG	PULL_ACK: 02 0732 04
0:01:06.761625	LOG	PUSH_ACK: 02 0f74 01
0:01:06.763623	LOG	PUSH_DATA: Protocol version = 02, Token = 0f74, Identifier = 00, JSON = {'rxpk': [{'tmst': 2368492260, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 12.8, 'rssi': -42, 'size': 15, 'data': 'QCAgICCANQsBDU+fcu9A'}]}
0:01:06.765622	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b35, FOpts:), FPort: 01, FRMPayload: 0591, MIC: 9f72ef40)
0:01:06.766621	LOG	Server <---------- DUT
0:01:06.769620	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0790, FOpts:), FPort: e0, FRMPayload: 080101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101, MIC: 9e0d3588)
0:01:06.771619	LOG	Frame command sent to the DUT
0:01:06.773618	LOG	PULL_RESP: Protocol version = 02, Token = 61f2, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2370492260, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAkAfgPXMgyvk5Zo3m/5Er1jsLpSJTmhDsk62P86J4UEHrZWgxAFCKFuIQJrOEGFTGpjr2ZWtvng01iA=='}}
0:01:06.775616	LOG	Server ----------> DUT
0:01:06.780614	LOG	TX_ACK: 02 61f2 05 aa555a0000240409
0:01:11.773783	LOG	PUSH_ACK: 02 0f75 01
0:01:11.776782	LOG	PUSH_DATA: Protocol version = 02, Token = 0f75, Identifier = 00, JSON = {'rxpk': [{'tmst': 2373494829, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 12.5, 'rssi': -49, 'size': 15, 'data': 'QCAgICCANgsBuucHb2nj'}]}
0:01:11.777781	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b36, FOpts:), FPort: 01, FRMPayload: 0591, MIC: 076f69e3)
0:01:11.812761	LOG	Server <---------- DUT
0:01:11.814760	LOG	Packet received from unexpected FPort 01
0:01:14.547213	LOG	PULL_DATA: 02 6ff5 02 aa555a0000240409
0:01:14.549213	LOG	PULL_ACK: 02 6ff5 04
0:01:16.764954	LOG	PUSH_ACK: 02 0f76 01
0:01:16.766953	LOG	PUSH_DATA: Protocol version = 02, Token = 0f76, Identifier = 00, JSON = {'rxpk': [{'tmst': 2378497421, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 12.5, 'rssi': -43, 'size': 15, 'data': 'QCAgICCANwsBYzLgTc1p'}]}
0:01:16.768952	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b37, FOpts:), FPort: 01, FRMPayload: 0591, MIC: e04dcd69)
0:01:16.770951	LOG	Server <---------- DUT
0:01:16.772950	LOG	Resend the Frame command. May the DUT did not listen

0:01:16.774949	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0791, FOpts:), FPort: e0, FRMPayload: 08010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 45eccbcf)
0:01:16.776947	LOG	Frame command sent to the DUT
0:01:16.778946	LOG	PULL_RESP: Protocol version = 02, Token = aa3d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2380497421, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAkQfg57K90XGhIvrCkfsFpRSQ3XnNyQ9NS2rZ6TG4rZc05B2Lto7qPG9O80bHYnZyk1SWv2MwRezLzw==''}}
0:01:16.780945	LOG	Server ----------> DUT
0:01:16.785942	LOG	TX_ACK: 02 aa3d 05 aa555a0000240409
0:01:22.703589	LOG	PUSH_ACK: 02 0f77 01
0:01:22.705587	LOG	PUSH_DATA: Protocol version = 02, Token = 0f77, Identifier = 00, JSON = {'rxpk': [{'tmst': 2384412978, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -49, 'size': 64, 'data': 'QCAgICCAOAvgUMLIoSDLKfd0BtfAKzT1AwcH52crDnfv6o8aizXcCij50yjh0/0PLzsDehQ1/xuoo6pEmk3Rjg==''}]}
0:01:22.707586	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b38, FOpts:), FPort: e0, FRMPayload: 08020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202), MIC: 9a4dd18e)
0:01:22.709585	LOG	Server <---------- DUT
0:01:22.711584	LOG	Answer in payload: 02020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202
0:01:22.712583	LOG	Frame Command Payload in the Answer: 08020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202
0:01:22.719579	LOG	Checking if the payload of the EchoPayloadAns is correct
0:01:22.723577	LOG	Send Test Command EchoPayloadReq process completed
0:01:22.726577	LOG	End Test Step: Uplink - Max Payload via Echo for datarate SF11BW125
0:01:22.730575	LOG	Partial Verdict: PASS
0:01:22.734571	LOG	==========
0:01:22.739567	LOG	==========
0:01:22.741566	LOG	Start Test Step: Uplink - Max Payload via Echo for datarate SF10BW125
0:01:22.750562	LOG	Send MAC command block process starts
0:01:24.756661	LOG	PULL_DATA: 02 b19f 02 aa555a0000240409
0:01:24.758661	LOG	PULL_ACK: 02 b19f 04
0:01:26.779515	LOG	PUSH_ACK: 02 0f79 01
0:01:26.781514	LOG	PUSH_DATA: Protocol version = 02, Token = 0f79, Identifier = 00, JSON = {'rxpk': [{'tmst': 2388502610, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -43, 'size': 15, 'data': 'QCAgICCAOQsBogACfu7+''}]}
0:01:26.783512	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b39, FOpts:), FPort: 01, FRMPayload: 0592, MIC: 027eeefe)
0:01:26.785511	LOG	Server <---------- DUT
0:01:26.787511	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0792, FOpts:), FPort: 00, FRMPayload: 03200700010505d2ad84), MIC: 70756c60)
0:01:26.790508	LOG	PULL_RESP: Protocol version = 02, Token = 4338, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2390502610, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YCAgICAAkgcA6u1G/oAPtkOuuXB1bGA=''}}
0:01:26.791508	LOG	Server ----------> DUT
0:01:26.795506	LOG	TX_ACK: 02 4338 05 aa555a0000240409

0:01:31.412889	LOG	PUSH_ACK: 02 0f7a 01
0:01:31.414887	LOG	PUSH_DATA: Protocol version = 02, Token = 0f7a, Identifier = 00, JSON = {'rxpk': [{'tmst': 2393175518, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -44, 'size': 19, 'data': 'QCAgICCEOgsDBwUHAVqjgJLKvQ==\'}]}
0:01:31.416886	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 84, FCnt: 0b3a, FOpts: 03070507), FPort: 01, FRMPayload: 0592, MIC: 8092cabd)
0:01:31.417886	LOG	Server <---------- DUT
0:01:31.419885	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:31.421883	LOG	Command Answer: 03070507
0:01:31.474874	LOG	MAC command communication completed
0:01:31.484867	LOG	Send Test Command EchoPayloadReq process starts
0:01:34.766951	LOG	PULL_DATA: 02 7a02 02 aa555a0000240409
0:01:34.771949	LOG	PULL_ACK: 02 7a02 04
0:01:36.453995	LOG	PUSH_ACK: 02 0f7b 01
0:01:36.455994	LOG	PUSH_DATA: Protocol version = 02, Token = 0f7b, Identifier = 00, JSON = {'rxpk': [{'tmst': 2398178094, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -44, 'size': 17, 'data': 'QCAgICCCOwsFBwEH1p0fjyA=\'}]}
0:01:36.457993	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b3b, FOpts: 0507), FPort: 01, FRMPayload: 0592, MIC: 9d1f8f20)
0:01:36.459992	LOG	Server <---------- DUT
0:01:36.461991	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0793, FOpts:), FPort: e0, FRMPayload: 08010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: bf646dba)
0:01:36.463989	LOG	Frame command sent to the DUT
0:01:36.465990	LOG	PULL_RESP: Protocol version = 02, Token = eb90, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2399178094, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 868.5, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAkwfgIKEJF27XwocXQ0OvtL4qogSfQ29VmZI0lmMB8/4qA7EKDeYDwl3p2e7PgrKqkA9Lm8Xxv2Rtug==\'}}
0:01:36.466990	LOG	Server ----------> DUT
0:01:36.470986	LOG	TX_ACK: 02 eb90 05 aa555a0000240409
0:01:41.810959	LOG	PUSH_ACK: 02 0f7c 01
0:01:41.813957	LOG	PUSH_DATA: Protocol version = 02, Token = 0f7c, Identifier = 00, JSON = {'rxpk': [{'tmst': 2403561130, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 13.0, 'rssi': -45, 'size': 64, 'data': 'QCAgICCAPAvgvcTexISG4l46L6z89/5Nsu6ifwt+oI8Lzxed6CjPoJatXwQestLy6AeB/VxI5K8BQaojkb58mg==\'}]}
0:01:41.815956	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b3c, FOpts:), FPort: e0, FRMPayload: 08020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202), MIC: 91be7c9a)
0:01:41.816955	LOG	Server <---------- DUT
0:01:41.818954	LOG	Answer in payload: 02020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202
0:01:41.820954	LOG	Frame Command Payload in the Answer: 08020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202
0:01:41.825950	LOG	Checking if the payload of the EchoPayloadAns is correct
0:01:41.827949	LOG	Send Test Command EchoPayloadReq process completed
0:01:41.832946	LOG	Send Test Command EchoPayloadReq process starts
0:01:44.876241	LOG	PULL_DATA: 02 33be 02 aa555a0000240409

0:01:44.878220	LOG	PULL_ACK: 02 33be 04
0:01:46.442335	LOG	PUSH_ACK: 02 0f7d 01
0:01:46.444334	LOG	PUSH_DATA: Protocol version = 02, Token = 0f7d, Identifier = 00, JSON = {'rxpk': [{'tmst': 2408183234, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 12.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAPQsBO9Z0c5jy'}]}
0:01:46.446333	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b3d, FOpts:), FPort: 01, FRMPayload: 0593, MIC: 747398f2)
0:01:46.447332	LOG	Server <---------- DUT
0:01:46.449333	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0794, FOpts:), FPort: e0, FRMPayload: 08010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: d8d5ab2b)
0:01:46.452333	LOG	Frame command sent to the DUT
0:01:46.453329	LOG	PULL_RESP: Protocol version = 02, Token = 2b42, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2410183234, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 64, 'data': 'YCAgICAAlAfgTw4NokFC4iQ8bMkpXLGZ5yLKOSAe7QARuSd4Pz8J6qiev7EixLxzz2q73ReM3R8g1L8/2NWrKw==''}}
0:01:46.454329	LOG	Server ----------> DUT
0:01:46.459331	LOG	TX_ACK: 02 2b42 05 aa555a0000240409
0:01:51.824388	LOG	PUSH_ACK: 02 0f7e 01
0:01:51.827386	LOG	PUSH_DATA: Protocol version = 02, Token = 0f7e, Identifier = 00, JSON = {'rxpk': [{'tmst': 2413566334, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -43, 'size': 64, 'data': 'QCAgICCAPgvg9M/VoOhlXMknpdPuMniiNtVZiMQhuduHdneBDnNXWdZrc+LyHTpqzIzG36lwPCeL00iChpqlGA==''}]}
0:01:51.829385	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b3e, FOpts:), FPort: e0, FRMPayload: 08020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202, MIC: 869aa518)
0:01:51.830384	LOG	Server <---------- DUT
0:01:51.832384	LOG	Answer in payload: 02020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202
0:01:51.834383	LOG	Frame Command Payload in the Answer: 08020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202
0:01:51.839380	LOG	Checking if the payload of the EchoPayloadAns is correct
0:01:51.845376	LOG	Send Test Command EchoPayloadReq process completed
0:01:51.849374	LOG	End Test Step: Uplink - Max Payload via Echo for datarate SF10BW125
0:01:51.854371	LOG	Partial Verdict: PASS
0:01:51.857370	LOG	==========
0:01:51.864366	LOG	==========
0:01:51.867364	LOG	Start Test Step: Uplink - Max Payload via Echo for datarate SF9BW125
0:01:51.876359	LOG	Send MAC command block process starts
0:01:55.066550	LOG	PULL_DATA: 02 6b9b 02 aa555a0000240409
0:01:55.068549	LOG	PULL_ACK: 02 6b9b 04
0:01:56.470754	LOG	PUSH_ACK: 02 0f80 01
0:01:56.475752	LOG	PUSH_DATA: Protocol version = 02, Token = 0f80, Identifier = 00, JSON = {'rxpk': [{'tmst': 2418188422, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAPwsBEHzm+Yek'}]}
0:01:56.478752	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b3f, FOpts:), FPort: 01, FRMPayload: 0594, MIC: e6f987a4)
0:01:56.482750	LOG	Server <---------- DUT

0:01:56.487765	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0795, FOpts:), FPort: 00, FRMPayload: 03300700010505d2ad84), MIC: fd52f465)
0:01:56.495759	LOG	PULL_RESP: Protocol version = 02, Token = f36f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2420188422, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YCAgICAAlQcAdpS/ziPQj5Pf4P1S9GU='}}
0:01:56.496740	LOG	Server ----------> DUT
0:01:56.500738	LOG	TX_ACK: 02 f36f 05 aa555a0000240409
0:02:01.304016	LOG	PUSH_ACK: 02 0f81 01
0:02:01.306017	LOG	PUSH_DATA: Protocol version = 02, Token = 0f81, Identifier = 00, JSON = {'rxpk': [{'tmst': 2423046762, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -46, 'size': 19, 'data': 'QCAgICCEQAsDBwUHARaWoHOrFA=='}]}
0:02:01.308014	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 84, FCnt: 0b40, FOpts: 03070507), FPort: 01, FRMPayload: 0594, MIC: a073ab14)
0:02:01.309013	LOG	Server <---------- DUT
0:02:01.310013	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:01.311016	LOG	Command Answer: 03070507
0:02:01.372976	LOG	MAC command communication completed
0:02:01.382972	LOG	Send Test Command EchoPayloadReq process starts
0:02:05.106859	LOG	PULL_DATA: 02 2d41 02 aa555a0000240409
0:02:05.110875	LOG	PULL_ACK: 02 2d41 04
0:02:06.292187	LOG	PUSH_ACK: 02 0f82 01
0:02:06.294186	LOG	PUSH_DATA: Protocol version = 02, Token = 0f82, Identifier = 00, JSON = {'rxpk': [{'tmst': 2428028866, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCQQsFBwF/jwdqhBI='}]}
0:02:06.295186	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b41, FOpts: 0507), FPort: 01, FRMPayload: 0594, MIC: 076a8412)
0:02:06.296186	LOG	Server <---------- DUT
0:02:06.298185	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0796, FOpts:), FPort: e0, FRMPayload: 08010101010101010101

		08020202020202020202

0:02:21.822635	LOG	Server <---------- DUT
0:02:21.824634	LOG	Answer in payload: 02
0:02:21.826634	LOG	Frame Command Payload in the Answer: 0802
0:02:21.832630	LOG	Checking if the payload of the EchoPayloadAns is correct
0:02:21.837627	LOG	Send Test Command EchoPayloadReq process completed
0:02:21.841625	LOG	End Test Step: Uplink - Max Payload via Echo for datarate SF9BW125
0:02:21.846622	LOG	Partial Verdict: PASS
0:02:21.852619	LOG	==========
0:02:21.857615	LOG	==========
0:02:21.859614	LOG	Start Test Step: Uplink - Max Payload via Echo for datarate SF8BW125
0:02:21.867610	LOG	Send MAC command block process starts
0:02:25.307031	LOG	PULL_DATA: 02 250c 02 aa555a0000240409
0:02:25.309030	LOG	PULL_ACK: 02 250c 04
0:02:26.306541	LOG	PUSH_ACK: 02 0f87 01
0:02:26.308540	LOG	PUSH_DATA: Protocol version = 02, Token = 0f87, Identifier = 00, JSON = {'rxpk': [{'tmst': 2448039167, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -47, 'size': 15, 'data': 'QCAgICCARQsBB5DgH8YX'}]}
0:02:26.309539	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b45, FOpts:), FPort: 01, FRMPayload: 0596, MIC: e01fc617)
0:02:26.311538	LOG	Server <---------- DUT
0:02:26.313537	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0798, FOpts:), FPort: 00, FRMPayload: 03400700010505d2ad84), MIC: 194197e6)
0:02:26.315535	LOG	PULL_RESP: Protocol version = 02, Token = c702, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2450039167, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YCAgICAAmAcAvB+bYiO+AfFh1hlBl+Y='}}
0:02:26.316535	LOG	Server ----------> DUT
0:02:26.319552	LOG	TX_ACK: 02 c702 05 aa555a0000240409
0:02:31.258188	LOG	PUSH_ACK: 02 0f88 01
0:02:31.260184	LOG	PUSH_DATA: Protocol version = 02, Token = 0f88, Identifier = 00, JSON = {'rxpk': [{'tmst': 2452979840, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -45, 'size': 19, 'data': 'QCAgICCERgsDBwUHAemahknpQA=='}]}
0:02:31.261184	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 84, FCnt: 0b46, FOpts: 03070507), FPort: 01, FRMPayload: 0596, MIC: 8649e940)
0:02:31.263183	LOG	Server <---------- DUT
0:02:31.265182	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:31.266181	LOG	Command Answer: 03070507
0:02:31.333143	LOG	MAC command communication completed
0:02:31.345136	LOG	Send Test Command EchoPayloadReq process starts
0:02:35.346868	LOG	PULL_DATA: 02 12ed 02 aa555a0000240409
0:02:35.350865	LOG	PULL_ACK: 02 12ed 04
0:02:36.246358	LOG	PUSH_ACK: 02 0f89 01
0:02:36.249356	LOG	PUSH_DATA: Protocol version = 02, Token = 0f89, Identifier = 00, JSON = {'rxpk': [{'tmst': 2457972184, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCRwsFBwHwQyfziYc='}]}
0:02:36.250355	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b47, FOpts: 0507), FPort: 01, FRMPayload: 0596, MIC: 27f38987)
0:02:36.252355	LOG	Server <---------- DUT
0:02:36.254353	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 0799, FOpts:), FPort: e0, FRMPayload: 0801010101010101010101

0:02:41.918375	LOG	Frame Command Payload in the Answer: 0802020202020202020202

		2020202020202020202

		'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCATAsBZMnpYjK3'}]}
0:03:01.256285	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b4c, FOpts:), FPort: 01, FRMPayload: 0598, MIC: e96232b7)
0:03:01.258285	LOG	Server <---------- DUT
0:03:01.259284	LOG	MAC command not received because FPort field is not set to 0 and FOpts field is empty
0:03:05.906655	LOG	PULL_DATA: 02 0111 02 aa555a0000240409
0:03:05.910665	LOG	PULL_ACK: 02 0111 04
0:03:06.240460	LOG	PUSH_ACK: 02 0f90 01
0:03:06.242460	LOG	PUSH_DATA: Protocol version = 02, Token = 0f90, Identifier = 00, JSON = {'rxpk': [{'tmst': 2487987644, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICCATQsBSHpnvznd'}]}
0:03:06.244460	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b4d, FOpts:), FPort: 01, FRMPayload: 0598, MIC: 67bf39dd)
0:03:06.245458	LOG	Server <---------- DUT
0:03:06.246457	LOG	Resend the MAC Block command. May the DUT did not listen
0:03:06.248456	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 079c, FOpts:), FPort: 00, FRMPayload: 03500700010505d2ad84), MIC: 97d90f52)
0:03:06.250455	LOG	PULL_RESP: Protocol version = 02, Token = 7772, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2489987644, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YCAgICAAnAcAC8t4Wfw8tok3+JfZD1I='}}
0:03:06.251454	LOG	Server ----------> DUT
0:03:06.255452	LOG	TX_ACK: 02 7772 05 aa555a0000240409
0:03:11.206087	LOG	PUSH_ACK: 02 0f91 01
0:03:11.208084	LOG	PUSH_DATA: Protocol version = 02, Token = 0f91, Identifier = 00, JSON = {'rxpk': [{'tmst': 2492949046, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -46, 'size': 19, 'data': 'QCAgICCETgsDBwUHAargFCe0eQ=='}]}
0:03:11.209086	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 84, FCnt: 0b4e, FOpts: 03070507), FPort: 01, FRMPayload: 0598, MIC: 1427b479)
0:03:11.210085	LOG	Server <---------- DUT
0:03:11.211085	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:03:11.213083	LOG	Command Answer: 03070507
0:03:11.273047	LOG	MAC command communication completed
0:03:11.282043	LOG	Send Test Command EchoPayloadReq process starts
0:03:16.116302	LOG	PULL_DATA: 02 d24a 02 aa555a0000240409
0:03:16.118300	LOG	PULL_ACK: 02 d24a 04
0:03:16.195288	LOG	PUSH_ACK: 02 0f92 01
0:03:16.197257	LOG	PUSH_DATA: Protocol version = 02, Token = 0f92, Identifier = 00, JSON = {'rxpk': [{'tmst': 2497951630, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCTwsFBwHzcUelz0A='}]}
0:03:16.198256	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b4f, FOpts: 0507), FPort: 01, FRMPayload: 0598, MIC: 47a5cf40)
0:03:16.200256	LOG	Server <---------- DUT
0:03:16.201259	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 079d, FOpts:), FPort: e0, FRMPayload: 08010101010101010101

		1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 101010101010101), MIC: f82831a5)
0:03:16.204253	LOG	Frame command sent to the DUT
0:03:16.205253	LOG	PULL_RESP: Protocol version = 02, Token = 821d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2498951630, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 868.1, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAAnQfg4Gfx5g4khbK+btN4p2bGraS+RQXcBXLdHr/lZgkq/2s8lidHWkaWp5JejPpUx1lIDtLtFooLbx6EKKEJx7WcfNrkOX3hqy2ZMqYFdm2vJYcwISr35ASki3uqfZjA+QJVqc8JgXy6Geiwx4Lvk1QG0p/T5GYnUNSorvBsQDf3FS3VmSnRRALCBrw6MABaHxjx/4K0feMW2iWFdsHmtCwxh3/so78cBX0DHUcBZQphgBZe4lhMe6017G3Xn1Elp510ROAihllKj+jEipdZVukwOOWlf4LZjOF9sTSGOvoNe4HzWy0BS1Z0gxjYZmJnoqjufnD4KDGl'}}
0:03:16.206252	LOG	Server ----------> DUT
0:03:16.210254	LOG	TX_ACK: 02 821d 05 aa555a0000240409
0:03:21.588434	LOG	PUSH_ACK: 02 0f93 01
0:03:21.590431	LOG	PUSH_DATA: Protocol version = 02, Token = 0f93, Identifier = 00, JSON = {'rxpk': [{'tmst': 2503349336, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -45, 'size': 255, 'data': 'QCAgICCAUAvg28Z5R/us4FnJo9CoKXr4CCciI8mpwbhGe1aEA4ZV9K/4n9N3Q+Dd2kr4Blq0vsHf07UE16ZNQbdYiBd0I4R/qDudrXbKlD7jlIoUgLy02Y7RMbvSD71PPwSkkzKlR3kWglusF7oXD2eAL8clwofchleaPPvge/tATownhkNhSCeqDoUMU38+sAUQj0UfCklXUZmdaF+Twyx0QoIE9T81R4gM+N1I+ogOQ11aFyazSuPmuHZ7Wc5J0Mqtm5TsWf2lTz/Lfc0XKOepA8AftmSja+9G1m00jIaLhtXt++OcA3oc9oQL3Nz954DHmq5Y7RlnqCglhjtC'}]}
0:03:21.592433	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b50, FOpts:), FPort: e0, FRMPayload: 0802020202020202020202

0:03:26.183383	LOG	PUSH_ACK: 02 0f95 01
0:03:26.186385	LOG	PUSH_DATA: Protocol version = 02, Token = 0f95, Identifier = 00, JSON = {'rxpk': [{'tmst': 2507951632, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAUQsBZqG668L8'}]}
0:03:26.187381	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b51, FOpts:), FPort: 01, FRMPayload: 0599, MIC: baebc2fc)
0:03:26.189379	LOG	Server <---------- DUT
0:03:26.191378	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 079e, FOpts:), FPort: e0, FRMPayload: 08010101010101010101

		2020202020202020202

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAVQsBVA0vYsli'}]}
0:03:46.212714	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b55, FOpts:), FPort: 01, FRMPayload: 059a, MIC: 2f62c962)
0:03:46.214713	LOG	Server <---------- DUT
0:03:46.215712	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07a0, FOpts:), FPort: 00, FRMPayload: 03600f00010505d2ad84), MIC: 377c6f1f)
0:03:46.218711	LOG	PULL_RESP: Protocol version = 02, Token = d8ec, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2529962042, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YCAgICAAoAcADneA+AUbD1hPezd8bx8='}}
0:03:46.220710	LOG	Server ----------> DUT
0:03:46.223708	LOG	TX_ACK: 02 d8ec 05 aa555a0000240409
0:03:46.225707	LOG	PULL_DATA: 02 6da1 02 aa555a0000240409
0:03:46.227706	LOG	PULL_ACK: 02 6da1 04
0:03:51.179561	LOG	PUSH_ACK: 02 0f9a 01
0:03:51.181561	LOG	PUSH_DATA: Protocol version = 02, Token = 0f9a, Identifier = 00, JSON = {'rxpk': [{'tmst': 2532944068, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -50, 'size': 19, 'data': 'QCAgICCEVgsDBwUHAYVEy0H7WA=='}]}
0:03:51.183578	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 84, FCnt: 0b56, FOpts: 03070507), FPort: 01, FRMPayload: 059a, MIC: cb41fb58)
0:03:51.185559	LOG	Server <---------- DUT
0:03:51.186558	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:03:51.188558	LOG	Command Answer: 03070507
0:03:51.245524	LOG	MAC command communication completed
0:03:51.254519	LOG	Send Test Command EchoPayloadReq process starts
0:03:56.182725	LOG	PUSH_ACK: 02 0f9c 01
0:03:56.184723	LOG	PUSH_DATA: Protocol version = 02, Token = 0f9c, Identifier = 00, JSON = {'rxpk': [{'tmst': 2537946644, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -50, 'size': 17, 'data': 'QCAgICCCVwsFBwFT+ssiwps='}]}
0:03:56.185723	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b57, FOpts: 0507), FPort: 01, FRMPayload: 059a, MIC: cb22c29b)
0:03:56.186723	LOG	Server <---------- DUT
0:03:56.188722	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07a1, FOpts:), FPort: e0, FRMPayload: 0801010101010101010101

		4HoVMZoed2foXupfTjCD0ATGiSlufxiXzwmtk2fy4sGBXgfz2TE6f+ghsT0mRm TTgHy4CSGzhyCQAGFQqihcTNB+XN7Aq0BCs'}}
0:03:56.194718	LOG	Server ----------> DUT
0:03:56.198716	LOG	TX_ACK: 02 be26 05 aa555a0000240409
0:03:56.405493	LOG	PULL_DATA: 02 6e1f 02 aa555a0000240409
0:03:56.407493	LOG	PULL_ACK: 02 6e1f 04
0:04:01.437642	LOG	PUSH_ACK: 02 0f9d 01
0:04:01.439641	LOG	PUSH_DATA: Protocol version = 02, Token = 0f9d, Identifier = 00, JSON = {'rxpk': [{'tmst': 2543170287, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -50, 'size': 255, 'data': 'QCAgICCAWAvg6heWLRijAkQ873nhDGG2b70+CyH7+jz5UBf5TVe1agLuMo +been47FIpW013M87ExuEKF6EC5Snc3tVPd5RSXcwMnctgC9L058n6NXOxrngl M1FCxg6tnTYHgkqh23YHWh0izvXOb9YxVcPEhC1AYDn+dQl0A1doylXljTRk XvC0tKEVMYdYUFXPXnz25cBn9F5+V58qqyYWTcmLkaj0udgqx6dgqUSTxKt +JPPV3ddC1LIpbb68ymKwJkikFS+wiGTk9+GuRvYMLgBicy2wpIMVhMRQGT gsupdESTiifeP8SUSr77FCH5aK+30fVLspJM/MIxo+'}]}
0:04:01.441639	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b58, FOpts:), FPort: e0, FRMPayload: 080202020202020202020202020202020202020202020202020202020202020202020 202020202020202020202020202020202020202020202020202020202020202020202 020202020202020202020202020202020202020202020202020202020202020202020 202020202020202020202020202020202020202020202020202020202020202020202 020202020202020202020202020202020202020202020202020202020202020202020 202020202020202020202020202020202020202020202020202020202020202020202 020202020202020202020202020202020202020202020202020202020202020202020 202020202020202020202020202020202020202020202020202020202020202020202 020202020202020202020202020202020202020202020202020202020202020202020 202020202020202, MIC: cc231a3e)
0:04:01.442638	LOG	Server <---------- DUT
0:04:01.444637	LOG	Answer in payload: 020202020202020202020202020202020202020202020202020202020202020202020 202020202020202020202020202020202020202020202020202020202020202020202 020202020202020202020202020202020202020202020202020202020202020202020 202020202020202020202020202020202020202020202020202020202020202020202 020202020202020202020202020202020202020202020202020202020202020202020 202020202020202020202020202020202020202020202020202020202020202020202 020202020202020202020202020202020202020202020202020202020202020202020 2020202020202
0:04:01.445637	LOG	Frame Command Payload in the Answer: 080202020202020202020202020202020202020202020202020202020202020202020 202020202020202020202020202020202020202020202020202020202020202020202 020202020202020202020202020202020202020202020202020202020202020202020 202020202020202020202020202020202020202020202020202020202020202020202 020202020202020202020202020202020202020202020202020202020202020202020 202020202020202020202020202020202020202020202020202020202020202020202 020202020202020202020202020202020202020202020202020202020202020202020 202020202020202
0:04:01.449634	LOG	Checking if the payload of the EchoPayloadAns is correct
0:04:01.452632	LOG	Send Test Command EchoPayloadReq process completed
0:04:01.457631	LOG	Send Test Command EchoPayloadReq process starts
0:04:06.220753	LOG	PUSH_ACK: 02 0f9e 01
0:04:06.225750	LOG	PUSH_DATA: Protocol version = 02, Token = 0f9e, Identifier = 00, JSON = {'rxpk': [{'tmst': 2547949227, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -50, 'size': 15, 'data': 'QCAgICCAWQsBOdmjmxRq'}]}
0:04:06.226750	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b59, FOpts:), FPort: 01, FRMPayload: 059b, MIC: a39b146a)
0:04:06.227749	LOG	Server <---------- DUT
0:04:06.229748	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07a2, FOpts:), FPort: e0, FRMPayload:

		08010101010101010101

		02
0:04:11.472776	LOG	Checking if the payload of the EchoPayloadAns is correct
0:04:11.476774	LOG	Send Test Command EchoPayloadReq process completed
0:04:11.478773	LOG	Send LinkADRReq process starts
0:04:16.187451	LOG	PUSH_ACK: 02 0fa0 01
0:04:16.189450	LOG	PUSH_DATA: Protocol version = 02, Token = 0fa0, Identifier = 00, JSON = {'rxpk': [{'tmst': 2557954416, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -50, 'size': 15, 'data': 'QCAgICCAWwsB/rpe+jrg'}]}
0:04:16.191450	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b5b, FOpts:), FPort: 01, FRMPayload: 059c, MIC: 5efa3ae0)
0:04:16.192449	LOG	Server <---------- DUT
0:04:16.194448	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07a3, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: 40b94bd0)
0:04:16.197446	LOG	PULL_RESP: Protocol version = 02, Token = bd63, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2559954416, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAowcAAqXSPvxAuUvQ'}}
0:04:16.198446	LOG	Server ----------> DUT
0:04:16.202443	LOG	TX_ACK: 02 bd63 05 aa555a0000240409
0:04:16.615999	LOG	PULL_DATA: 02 2173 02 aa555a0000240409
0:04:16.617999	LOG	PULL_ACK: 02 2173 04
0:04:21.219390	LOG	PUSH_ACK: 02 0fa1 01
0:04:21.221389	LOG	PUSH_DATA: Protocol version = 02, Token = 0fa1, Identifier = 00, JSON = {'rxpk': [{'tmst': 2562985322, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCXAsDBwH5aVirr+8='}]}
0:04:21.222388	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b5c, FOpts: 0307), FPort: 01, FRMPayload: 059c, MIC: 58abafef)
0:04:21.223387	LOG	Server <---------- DUT
0:04:21.225386	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:04:21.227385	LOG	Command Answer: 0307
0:04:21.235380	LOG	MAC command communication completed
0:04:21.239378	LOG	Send NewChannelReq process starts
0:04:26.224321	LOG	PUSH_ACK: 02 0fa3 01
0:04:26.228318	LOG	PUSH_DATA: Protocol version = 02, Token = 0fa3, Identifier = 00, JSON = {'rxpk': [{'tmst': 2567982786, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAXQsBkIgDM201'}]}
0:04:26.230313	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b5d, FOpts:), FPort: 01, FRMPayload: 059c, MIC: 03336d35)
0:04:26.231313	LOG	Server <---------- DUT
0:04:26.233310	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07a4, FOpts:), FPort: 00, FRMPayload: 070300000050), MIC: be644b46)
0:04:26.235309	LOG	PULL_RESP: Protocol version = 02, Token = 1be3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2569982786, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YCAgICAApAcATasi+FQ4vmRLRg=='}}
0:04:26.237307	LOG	Server ----------> DUT
0:04:26.240307	LOG	TX_ACK: 02 1be3 05 aa555a0000240409
0:04:26.655710	LOG	PULL_DATA: 02 a68c 02 aa555a0000240409
0:04:26.657710	LOG	PULL_ACK: 02 a68c 04

0:04:31.248109	LOG	PUSH_ACK: 02 0fa4 01
0:04:31.254108	LOG	PUSH_DATA: Protocol version = 02, Token = 0fa4, Identifier = 00, JSON = {'rxpk': [{'tmst': 2572990522, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCXgsHAwF5ziacJAw='}]}
0:04:31.257104	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b5e, FOpts: 0703), FPort: 01, FRMPayload: 059c, MIC: 269c240c)
0:04:31.261102	LOG	Server <---------- DUT
0:04:31.264100	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:04:31.267103	LOG	Command Answer: 0703
0:04:31.275094	LOG	MAC command communication completed
0:04:31.277108	LOG	End Test Step: Uplink - Max Payload via Echo for optional datarate SF7BW250
0:04:31.280107	LOG	Partial Verdict: PASS
0:04:31.284087	LOG	==========
0:04:31.291084	LOG	==========
0:04:31.293081	LOG	Start Test Step: Uplink - Max Payload via Echo for optional datarate FSK
0:04:31.304094	LOG	Send NewChannelReq process starts
0:04:36.238414	LOG	PUSH_ACK: 02 0fa5 01
0:04:36.242411	LOG	PUSH_DATA: Protocol version = 02, Token = 0fa5, Identifier = 00, JSON = {'rxpk': [{'tmst': 2577987978, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAXwsBxG0dBnjC'}]}
0:04:36.243411	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b5f, FOpts:), FPort: 01, FRMPayload: 059c, MIC: 1d0678c2)
0:04:36.244410	LOG	Server <---------- DUT
0:04:36.246409	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07a5, FOpts:), FPort: 00, FRMPayload: 070428768477), MIC: 08670d81)
0:04:36.248408	LOG	PULL_RESP: Protocol version = 02, Token = 5966, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2579987978, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YCAgICAApQcAPTyKsoxaCGcNgQ=='}}
0:04:36.249407	LOG	Server ----------> DUT
0:04:36.252405	LOG	TX_ACK: 02 5966 05 aa555a0000240409
0:04:36.666043	LOG	PULL_DATA: 02 0fd4 02 aa555a0000240409
0:04:36.668041	LOG	PULL_ACK: 02 0fd4 04
0:04:41.252444	LOG	PUSH_ACK: 02 0fa6 01
0:04:41.254443	LOG	PUSH_DATA: Protocol version = 02, Token = 0fa6, Identifier = 00, JSON = {'rxpk': [{'tmst': 2582995692, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCYAsHAwGXMQzqNDA='}]}
0:04:41.256443	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b60, FOpts: 0703), FPort: 01, FRMPayload: 059c, MIC: 0cea3430)
0:04:41.257441	LOG	Server <---------- DUT
0:04:41.259440	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:04:41.260439	LOG	Command Answer: 0703
0:04:41.265436	LOG	MAC command communication completed
0:04:41.270435	LOG	Send MAC command block process starts
0:04:46.239616	LOG	PUSH_ACK: 02 0fa7 01
0:04:46.242616	LOG	PUSH_DATA: Protocol version = 02, Token = 0fa7, Identifier = 00, JSON = {'rxpk': [{'tmst': 2587993140, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAYQsByl1i7zGO'}]}
0:04:46.243614	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b61, FOpts:), FPort: 01, FRMPayload: 059c, MIC: 62ef318e)

0:04:46.244615	LOG	Server <---------- DUT
0:04:46.246614	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07a6, FOpts:), FPort: 00, FRMPayload: 03701700010505d2ad84), MIC: f85f6225)
0:04:46.248612	LOG	PULL_RESP: Protocol version = 02, Token = 5129, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2589993140, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YCAgICAApgcAdYZoE7q7HcEorvhfYiU='}}
0:04:46.250610	LOG	Server ----------> DUT
0:04:46.253610	LOG	TX_ACK: 02 5129 05 aa555a0000240409
0:04:46.876279	LOG	PULL_DATA: 02 cd05 02 aa555a0000240409
0:04:46.877279	LOG	PULL_ACK: 02 cd05 04
0:04:51.211208	LOG	PUSH_ACK: 02 0fa8 01
0:04:51.214206	LOG	PUSH_DATA: Protocol version = 02, Token = 0fa8, Identifier = 00, JSON = {'rxpk': [{'tmst': 2592953779, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -44, 'size': 19, 'data': 'QCAgICCEYgsDBwUHAddF4/m7PA=='}]}
0:04:51.215205	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 84, FCnt: 0b62, FOpts: 03070507), FPort: 01, FRMPayload: 059c, MIC: e3f9bb3c)
0:04:51.217204	LOG	Server <---------- DUT
0:04:51.219203	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:04:51.221202	LOG	Command Answer: 03070507
0:04:51.278170	LOG	MAC command communication completed
0:04:51.288203	LOG	Send Test Command EchoPayloadReq process starts
0:04:56.214892	LOG	PUSH_ACK: 02 0fab 01
0:04:56.217890	LOG	PUSH_DATA: Protocol version = 02, Token = 0fab, Identifier = 00, JSON = {'rxpk': [{'tmst': 2597956039, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCYwsFBwGkbl5lmTE='}]}
0:04:56.219889	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b63, FOpts: 0507), FPort: 01, FRMPayload: 059c, MIC: 5e659931)
0:04:56.220888	LOG	Server <---------- DUT
0:04:56.223887	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07a7, FOpts:), FPort: e0, FRMPayload: 08010101010101010101

0:05:01.294530	LOG	PUSH_DATA: Protocol version = 02, Token = 0fac, Identifier = 00, JSON = {'rxpk': [{'tmst': 2603042465, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -46, 'size': 255, 'data': 'QCAgICCAZAvgeDcuD5DXojPzPisxXUPELpJ2JlQoNM9h1NXb3fuEU4gFBv5Xdyx52XlcktpNGTpFVF02P4FHFQGKhSWq7lUQev74Qt9/a48T6VZX1u3lCq65HcAfPU7/jvEpEkS+0VFKhY9beHZXXCUWocj+aPX4Mlb2HnhJWdoVEKLurRin49haQpIoWDZsZOlDMOgOOcud9h383mu2cv7ey0jrTDaaQ/riVenPaqMPNBxSuLPrQ+Jg49TZOzNLZGlVZjB36QRMWR+HWaZPG4Sc4U625UfngS+J61n5XQX+GDU4dEziu9bJTp+pmGShTmZ3400lL8EHdQULjdPf'}]}
0:05:01.295529	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b64, FOpts:), FPort: e0, FRMPayload: 080202020202020202020

0:05:06.252720	LOG	Frame command sent to the DUT
0:05:06.253717	LOG	PULL_RESP: Protocol version = 02, Token = 7ce5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2609960846, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 255, 'data': 'YCAgICAAqAfgxwVBwKpQEFLDw2IslDDa81+wsVH2WVUo/DkN3nBpRoR1Z3Nu4BrRzYb8w+nHpN2mP1C0mBJcDkhqM2VQGdmFM+zFtPi/UhXlZHFrWVD5JhWtjEWSv/c1HSUMbTPOxb/WD9jFu7WKuHLlamf7J3KwCGDt3Txb6Nm6j32ykYJ/2ukeYL7w3Viv8d2EE4TVEVd/q+OgcgUmnvz19SO7e0FVfeLmAijaPZQIDG87xN1Fh5JAIqKGcA1z4kUqoDBvjutbHCyrpfuismNzONX+9fcKEVxl6YR3tEGy4JAfSR/0uIzYXgmtwIr9CVUW3PgCop4EF2X+fUO0'}}
0:05:06.254717	LOG	Server ----------> DUT
0:05:06.257906	LOG	TX_ACK: 02 7ce5 05 aa555a0000240409
0:05:07.095240	LOG	PULL_DATA: 02 1141 02 aa555a0000240409
0:05:07.097239	LOG	PULL_ACK: 02 1141 04
0:05:11.312850	LOG	PUSH_ACK: 02 0fae 01
0:05:11.314849	LOG	PUSH_DATA: Protocol version = 02, Token = 0fae, Identifier = 00, JSON = {'rxpk': [{'tmst': 2613047655, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -47, 'size': 255, 'data': 'QCAgICCAZgvg8nIv6G3G3AJSL/uQcGNhO6whJi58Vl2Ahd8aWFbc5zp+Pq+do6fF8taMWiD3C70U4gwZ8CMdD691ebGzrnC6MXIQpm30nVLR3eXRj+NsAqq6NM2QLCTprwrS9iOoj8/hgnqqOPPmxAXDBrJUUETyWVnboaVstTBzOL96Z+TqNQVJ8WlXcB8mwd01KgLmy2r6E6LPitdvWshJvHev0mUuGzayHaUOkub04RkqZYMTO7ZMpORyaCPsXYa+7jt8BKXi3Cv4I2L21lQWGNoZu2jL1GUIF95KxNb31hd49uUnGkV5HEypAwricXgpuJr8vbhTslWNrLu/'}]}
0:05:11.316847	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b66, FOpts:), FPort: e0, FRMPayload: 080202020202020202020

0:05:16.201045	LOG	PUSH_DATA: Protocol version = 02, Token = 0faf, Identifier = 00, JSON = {'rxpk': [{'tmst': 2617966011, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAZwsBxBwxfe3q'}]}
0:05:16.203044	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b67, FOpts:), FPort: 01, FRMPayload: 059e, MIC: 317dedea)
0:05:16.205043	LOG	Server <---------- DUT
0:05:16.207042	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07a9, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: 72fcba1b)
0:05:16.210040	LOG	PULL_RESP: Protocol version = 02, Token = 9bc9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2619966011, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAqQcA1JgrbCFy/Lob'}}
0:05:16.212039	LOG	Server ----------> DUT
0:05:16.215037	LOG	TX_ACK: 02 9bc9 05 aa555a0000240409
0:05:17.256274	LOG	PULL_DATA: 02 df38 02 aa555a0000240409
0:05:17.258273	LOG	PULL_ACK: 02 df38 04
0:05:21.280991	LOG	PUSH_ACK: 02 0fb0 01
0:05:21.282991	LOG	PUSH_DATA: Protocol version = 02, Token = 0fb0, Identifier = 00, JSON = {'rxpk': [{'tmst': 2623016365, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCaAsDBwGdvkeK8C8='}]}
0:05:21.284990	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b68, FOpts: 0307), FPort: 01, FRMPayload: 059e, MIC: 478af02f)
0:05:21.285989	LOG	Server <---------- DUT
0:05:21.287988	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:05:21.288990	LOG	Command Answer: 0307
0:05:21.295983	LOG	MAC command communication completed
0:05:21.299981	LOG	Send NewChannelReq process starts
0:05:26.285565	LOG	PUSH_ACK: 02 0fb3 01
0:05:26.287563	LOG	PUSH_DATA: Protocol version = 02, Token = 0fb3, Identifier = 00, JSON = {'rxpk': [{'tmst': 2628013829, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAaQsBSjxIxjuV'}]}
0:05:26.288562	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b69, FOpts:), FPort: 01, FRMPayload: 059e, MIC: 48c63b95)
0:05:26.289562	LOG	Server <---------- DUT
0:05:26.291561	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07aa, FOpts:), FPort: 00, FRMPayload: 070400000050), MIC: f17c98aa)
0:05:26.293561	LOG	PULL_RESP: Protocol version = 02, Token = 6410, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2630013829, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YCAgICAAqgcA36qb+YvO8XyYqg=='}}
0:05:26.294559	LOG	Server ----------> DUT
0:05:26.298557	LOG	TX_ACK: 02 6410 05 aa555a0000240409
0:05:27.345519	LOG	PULL_DATA: 02 7618 02 aa555a0000240409
0:05:27.347518	LOG	PULL_ACK: 02 7618 04
0:05:31.277289	LOG	PUSH_ACK: 02 0fb4 01
0:05:31.280289	LOG	PUSH_DATA: Protocol version = 02, Token = 0fb4, Identifier = 00, JSON = {'rxpk': [{'tmst': 2633021551, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCagsHAwGVbKe2RoM='}]}
0:05:31.281288	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b6a, FOpts: 0703), FPort: 01, FRMPayload: 059e, MIC: a7b64683)
0:05:31.283286	LOG	Server <---------- DUT

0:05:31.284285	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:05:31.286284	LOG	Command Answer: 0703
0:05:31.296279	LOG	MAC command communication completed
0:05:31.299277	LOG	End Test Step: Uplink - Max Payload via Echo for optional datarate FSK
0:05:31.302276	LOG	Partial Verdict: PASS
0:05:31.306273	LOG	==========
0:05:31.313268	LOG	==========
0:05:31.316267	LOG	Start Test Step: Restore default settings
0:05:31.333258	LOG	Send LinkADRReq process starts
0:05:36.265721	LOG	PUSH_ACK: 02 0fb5 01
0:05:36.270719	LOG	PUSH_DATA: Protocol version = 02, Token = 0fb5, Identifier = 00, JSON = {'rxpk': [{'tmst': 2638019015, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAawsBSi4Q+ROU'}]}
0:05:36.272717	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b6b, FOpts:), FPort: 01, FRMPayload: 059e, MIC: 10f91394)
0:05:36.274716	LOG	Server <---------- DUT
0:05:36.276715	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07ab, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: c23a16cc)
0:05:36.279713	LOG	PULL_RESP: Protocol version = 02, Token = 653a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2640019015, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAqwcAsuVwzmvCOhbM'}}
0:05:36.281712	LOG	Server ----------> DUT
0:05:36.284710	LOG	TX_ACK: 02 653a 05 aa555a0000240409
0:05:37.535952	LOG	PULL_DATA: 02 6977 02 aa555a0000240409
0:05:37.537951	LOG	PULL_ACK: 02 6977 04
0:05:41.284827	LOG	PUSH_ACK: 02 0fb6 01
0:05:41.286826	LOG	PUSH_DATA: Protocol version = 02, Token = 0fb6, Identifier = 00, JSON = {'rxpk': [{'tmst': 2643026745, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCbAsDBwHOJBq3F2Y='}]}
0:05:41.289825	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b6c, FOpts: 0307), FPort: 01, FRMPayload: 059e, MIC: 1ab71766)
0:05:41.291823	LOG	Server <---------- DUT
0:05:41.292823	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:05:41.294822	LOG	Command Answer: 0307
0:05:41.303817	LOG	MAC command communication completed
0:05:41.308813	LOG	Send RXParamSetupReq process starts
0:05:46.276128	LOG	PUSH_ACK: 02 0fb7 01
0:05:46.278128	LOG	PUSH_DATA: Protocol version = 02, Token = 0fb7, Identifier = 00, JSON = {'rxpk': [{'tmst': 2648024193, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAbQsBVqWjD2eK'}]}
0:05:46.280126	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b6d, FOpts:), FPort: 01, FRMPayload: 059e, MIC: a30f678a)
0:05:46.281126	LOG	Server <---------- DUT
0:05:46.282126	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07ac, FOpts:), FPort: 00, FRMPayload: 0500d2ad84), MIC: 6603c330)
0:05:46.284124	LOG	PULL_RESP: Protocol version = 02, Token = 0d0f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2650024193, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAArAcA0Sr70xpmA8Mw'}}
0:05:46.286123	LOG	Server ----------> DUT

0:05:46.289121	LOG	TX_ACK: 02 0d0f 05 aa555a0000240409
0:05:47.545214	LOG	PULL_DATA: 02 293b 02 aa555a0000240409
0:05:47.547212	LOG	PULL_ACK: 02 293b 04
0:05:51.289096	LOG	PUSH_ACK: 02 0fb8 01
0:05:51.293090	LOG	PUSH_DATA: Protocol version = 02, Token = 0fb8, Identifier = 00, JSON = {'rxpk': [{'tmst': 2653031922, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCbgsFBwHhycleXJE='}]}
0:05:51.297088	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b6e, FOpts: 0507), FPort: 01, FRMPayload: 059e, MIC: c95e5c91)
0:05:51.301089	LOG	Server <---------- DUT
0:05:51.304084	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:05:51.308082	LOG	Command Answer: 0507
0:05:51.323073	LOG	MAC command communication completed
0:05:51.326070	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:05:56.295425	LOG	PUSH_ACK: 02 0fba 01
0:05:56.297424	LOG	PUSH_DATA: Protocol version = 02, Token = 0fba, Identifier = 00, JSON = {'rxpk': [{'tmst': 2658034514, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCbwsFBwFpvWYcTrE='}]}
0:05:56.298423	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b6f, FOpts: 0507), FPort: 01, FRMPayload: 059e, MIC: 661c4eb1)
0:05:56.300423	LOG	Server <---------- DUT
0:05:56.302422	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07ad, FOpts:), FPort: e0, FRMPayload: 0501), MIC: 247ffd1d)
0:05:56.304438	LOG	Frame command sent to the DUT
0:05:56.306419	LOG	PULL_RESP: Protocol version = 02, Token = 0543, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2660034514, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAArQfg420kf/0d'}}
0:05:56.307425	LOG	Server ----------> DUT
0:05:56.311416	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:05:56.314433	LOG	End Test Step: Restore default settings
0:05:56.317432	LOG	Partial Verdict: PASS
0:05:56.320430	LOG	==========
0:05:56.325427	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_019_A
0:05:56.326408	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_019_B	
Verdict	PASS	
Date	2021-10-18 04:37:16	
Comments	Maximum Allowed Payload (Part 2)	
Technology Version	LCTT v3.1.0_D1 | GUI v1.10.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.1	
Test Specs Version	USv1.5.1/EUv1.6/KRv1.2.1/ASv1.1.1/INv1.1.1/ALLv1.1	
Project	MLSv2.0.0	
Project Creation Date	2021-10-17 22:25:22	
Sample	DevID:SAMR34-XPRO | AppID:CertApp_EU_ABP | SW:MLSv2.0.0 | HW:SAMR34J18B	
Parameters	SF7BW250 Frequency	868.100
	FSK Frequency	868.100
	Conformance	TRUE

Time Stamp (ms)	Event	Summary

0:00:00.011602	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_019_B
0:00:00.043584	LOG	==========
0:00:00.045583	LOG	Start Test Step: Device activation
0:00:00.102550	LOG	Activation process has finished successfully
0:00:00.104549	LOG	Data stored in the DUT after Activation:
0:00:00.108547	LOG	DevAddr: 20202020
0:00:00.110546	LOG	AppEUI: abcdabcdabcdabcd
0:00:00.113544	LOG	NwkSKey: abcdabcdabcdabcdabcdabcdabcdabcd
0:00:00.115544	LOG	AppSKey: 12345678123456781234567812345678
0:00:00.118542	LOG	End Test Step: Device activation
0:00:00.121540	LOG	Partial Verdict: PASS
0:00:00.125538	LOG	==========
0:00:00.129536	LOG	==========
0:00:00.132534	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.140529	LOG	DUT Pre-condition activation process starts
0:00:00.143528	LOG	DUT Pre-condition activation completed
0:00:00.146526	LOG	End Test Step: DUT Pre-condition settings
0:00:00.151523	LOG	Partial Verdict: PASS
0:00:00.155521	LOG	==========
0:00:00.161518	LOG	==========
0:00:00.164516	LOG	Start Test Step: Initial settings for the test
0:00:00.175509	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:00:01.571718	LOG	PUSH_DATA received while waiting first PULL_DATA
0:00:06.566928	LOG	PUSH_DATA received while waiting first PULL_DATA
0:00:07.944146	LOG	PULL_DATA: 02 77f3 02 aa555a0000240409
0:00:07.945145	LOG	PULL_ACK: 02 77f3 04
0:00:07.947144	LOG	First PULL_DATA received
0:00:11.568093	LOG	PUSH_ACK: 02 0fbd 01
0:00:11.574088	LOG	PUSH_DATA: Protocol version = 02, Token = 0fbd, Identifier = 00, JSON = {'rxpk': [{'tmst': 2673037107, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAcgsBU3Bs+vyW'}]}
0:00:11.575087	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b72, FOpts:), FPort: 01, FRMPayload: 059f, MIC: 6cfafc96)
0:00:11.577087	LOG	Server <---------- DUT
0:00:11.578086	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07ae, FOpts:), FPort: e0, FRMPayload: 0500), MIC: ec5909d8)
0:00:11.580084	LOG	Frame command sent to the DUT
0:00:11.582083	LOG	PULL_RESP: Protocol version = 02, Token = a3a1, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2675037107, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAArgfgQBjsWQnY'}}
0:00:11.583083	LOG	Server ----------> DUT
0:00:11.586081	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:00:11.591079	LOG	End Test Step: Initial settings for the test
0:00:11.594077	LOG	Partial Verdict: PASS
0:00:11.598074	LOG	==========
0:00:11.603071	LOG	==========
0:00:11.605070	LOG	Start Test Step: Uplink - Oversized Payload via Echo for datarate SF12BW125
0:00:11.614065	LOG	Send MAC command block process starts
0:00:16.573254	LOG	PUSH_ACK: 02 0fbe 01
0:00:16.575253	LOG	PUSH_DATA: Protocol version = 02, Token = 0fbe, Identifier = 00, JSON = {'rxpk': [{'tmst': 2678039679, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAcwsBobhSfEs4'}]}

0:00:16.576252	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b73, FOpts:), FPort: 01, FRMPayload: 05a0, MIC: 527c4b38)
0:00:16.578251	LOG	Server <---------- DUT
0:00:16.580250	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07af, FOpts:), FPort: 00, FRMPayload: 03000700010505d2ad84), MIC: de68887a)
0:00:16.583249	LOG	PULL_RESP: Protocol version = 02, Token = 275a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2680039679, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YCAgICAArwcAb/i8T1P6v19Fwt5oiHo='}}
0:00:16.584248	LOG	Server ----------> DUT
0:00:16.588246	LOG	TX_ACK: 02 275a 05 aa555a0000240409
0:00:18.053415	LOG	PULL_DATA: 02 13e4 02 aa555a0000240409
0:00:18.055413	LOG	PULL_ACK: 02 13e4 04
0:00:22.881678	LOG	PUSH_ACK: 02 0fbf 01
0:00:22.883677	LOG	PUSH_DATA: Protocol version = 02, Token = 0fbf, Identifier = 00, JSON = {'rxpk': [{'tmst': 2684314785, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -43, 'size': 19, 'data': 'QCAgICCEdAsDBwUHAbfQANMT8w=='}]}
0:00:22.885675	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 84, FCnt: 0b74, FOpts: 03070507), FPort: 01, FRMPayload: 05a0, MIC: 00d313f3)
0:00:22.887674	LOG	Server <---------- DUT
0:00:22.889673	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:22.890672	LOG	Command Answer: 03070507
0:00:22.951638	LOG	MAC command communication completed
0:00:22.964631	LOG	Send Test Command EchoPayloadReq process starts
0:00:27.889838	LOG	PUSH_ACK: 02 0fc1 01
0:00:27.892837	LOG	PUSH_DATA: Protocol version = 02, Token = 0fc1, Identifier = 00, JSON = {'rxpk': [{'tmst': 2689317361, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -53, 'size': 17, 'data': 'QCAgICCCdQsFBwH2eiJ++Ks='}]}
0:00:27.894836	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b75, FOpts: 0507), FPort: 01, FRMPayload: 05a0, MIC: 227ef8ab)
0:00:27.896835	LOG	Server <---------- DUT
0:00:27.898833	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07b0, FOpts:), FPort: e0, FRMPayload: 08010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: fd63c344)
0:00:27.901832	LOG	Frame command sent to the DUT
0:00:27.903830	LOG	PULL_RESP: Protocol version = 02, Token = eb01, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2691317361, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 65, 'data': 'YCAgICAAsAfgOBIWbNXChBDDZqbt6UwfFSWz3W41z0zaCUTCTaWhldykheyBydCg6WxzI+SZLR6IwEltt/1jw0Q='}}
0:00:27.904830	LOG	Server ----------> DUT
0:00:27.909907	LOG	TX_ACK: 02 eb01 05 aa555a0000240409
0:00:28.112945	LOG	PULL_DATA: 02 9481 02 aa555a0000240409
0:00:28.114925	LOG	PULL_ACK: 02 9481 04
0:00:34.386369	LOG	PUSH_ACK: 02 0fc2 01
0:00:34.391366	LOG	PUSH_DATA: Protocol version = 02, Token = 0fc2, Identifier = 00, JSON = {'rxpk': [{'tmst': 2695806332, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 12.0, 'rssi': -45, 'size': 64, 'data': 'QCAgICCAdgvgj/j+0kPxKnscHqtdL8ghNp9vlCJ3BijP7IPwUBu7FfPfSqKgRhWyQxXwmQifO+sHEAtCOFv7Qw=='}]}

0:00:34.393366	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b76, FOpts:), FPort: e0, FRMPayload: 080202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202, MIC: 385bfb43)
0:00:34.394365	LOG	Server <---------- DUT
0:00:34.396364	LOG	Answer in payload: 020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202
0:00:34.397363	LOG	Frame Command Payload in the Answer: 080202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202
0:00:34.402360	LOG	Checking if the payload of the EchoPayloadAns is correct
0:00:34.407357	LOG	End Test Step: Uplink - Oversized Payload via Echo for datarate SF12BW125
0:00:34.412355	LOG	Partial Verdict: PASS
0:00:34.416353	LOG	==========
0:00:34.423348	LOG	==========
0:00:34.426346	LOG	Start Test Step: Uplink - Oversized Payload via Echo for datarate SF11BW125
0:00:34.437341	LOG	Send MAC command block process starts
0:00:37.736476	LOG	PUSH_ACK: 02 0fc3 01
0:00:37.741468	LOG	PUSH_DATA: Protocol version = 02, Token = 0fc3, Identifier = 00, JSON = {'rxpk': [{'tmst': 2699158668, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.2, 'rssi': -51, 'size': 15, 'data': 'QCAgICCAdwsBwNhRpWdu'}]}
0:00:37.744468	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b77, FOpts:), FPort: 01, FRMPayload: 05a1, MIC: 51a5676e)
0:00:37.747466	LOG	Server <---------- DUT
0:00:37.751463	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07b1, FOpts:), FPort: 00, FRMPayload: 03100700010505d2ad84), MIC: 77589ca7)
0:00:37.753462	LOG	PULL_RESP: Protocol version = 02, Token = 69d7, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2701158668, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YCAgICAAsQcAKitgKGXGTbhjb3dYnKc='}}
0:00:37.755461	LOG	Server ----------> DUT
0:00:37.759458	LOG	TX_ACK: 02 69d7 05 aa555a0000240409
0:00:38.173223	LOG	PULL_DATA: 02 03d5 02 aa555a0000240409
0:00:38.175222	LOG	PULL_ACK: 02 03d5 04
0:00:42.316873	LOG	PUSH_ACK: 02 0fc4 01
0:00:42.318872	LOG	PUSH_DATA: Protocol version = 02, Token = 0fc4, Identifier = 00, JSON = {'rxpk': [{'tmst': 2703747599, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -47, 'size': 19, 'data': 'QCAgICCEeAsDBwUHAalkLE+L0w=='}]}
0:00:42.320871	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 84, FCnt: 0b78, FOpts: 03070507), FPort: 01, FRMPayload: 05a1, MIC: 2c4f8bd3)
0:00:42.321871	LOG	Server <---------- DUT
0:00:42.323870	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:42.325868	LOG	Command Answer: 03070507
0:00:42.382836	LOG	MAC command communication completed
0:00:42.394829	LOG	Send Test Command EchoPayloadReq process starts
0:00:47.256073	LOG	PUSH_ACK: 02 0fc5 01
0:00:47.259072	LOG	PUSH_DATA: Protocol version = 02, Token = 0fc5, Identifier = 00, JSON = {'rxpk': [{'tmst': 2708668271, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -43, 'size': 17, 'data': 'QCAgICCCeQsFBwF3/o+C3VQ='}]}

0:00:47.260071	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b79, FOpts: 0507), FPort: 01, FRMPayload: 05a1, MIC: 8f82dd54)
0:00:47.262070	LOG	Server <---------- DUT
0:00:47.264069	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07b2, FOpts:), FPort: e0, FRMPayload: 08010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 46920d41)
0:00:47.266068	LOG	Frame command sent to the DUT
0:00:47.267067	LOG	PULL_RESP: Protocol version = 02, Token = 74a4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2710668271, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 65, 'data': 'YCAgICAAsgfgInZ9idt6ZN2ZSURnQZ/TlUsNaeCRDdCjZcmTQUmL/s+j2NDFqhIqSqckcVktHd5+pRbWikaSDUE='}}
0:00:47.269066	LOG	Server ----------> DUT
0:00:47.273064	LOG	TX_ACK: 02 74a4 05 aa555a0000240409
0:00:48.313474	LOG	PULL_DATA: 02 6925 02 aa555a0000240409
0:00:48.316472	LOG	PULL_ACK: 02 6925 04
0:00:53.171719	LOG	PUSH_ACK: 02 0fc6 01
0:00:53.174718	LOG	PUSH_DATA: Protocol version = 02, Token = 0fc6, Identifier = 00, JSON = {'rxpk': [{'tmst': 2714583818, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -49, 'size': 64, 'data': 'QCAgICCAegvg9p4Zalfslr0zRo5bQYF/FQjudq9Kz714NjeJXb9cfVyfKnyEgtA16J34dcvDuaFHq8z90ihgJw=='}]}
0:00:53.176717	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b7a, FOpts:), FPort: e0, FRMPayload: 08020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202, MIC: d2286027)
0:00:53.178716	LOG	Server <---------- DUT
0:00:53.180714	LOG	Answer in payload: 02020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202
0:00:53.181714	LOG	Frame Command Payload in the Answer: 08020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202
0:00:53.187711	LOG	Checking if the payload of the EchoPayloadAns is correct
0:00:53.191709	LOG	End Test Step: Uplink - Oversized Payload via Echo for datarate SF11BW125
0:00:53.194708	LOG	Partial Verdict: PASS
0:00:53.198706	LOG	==========
0:00:53.202704	LOG	==========
0:00:53.204703	LOG	Start Test Step: Uplink - Oversized Payload via Echo for datarate SF10BW125
0:00:53.218693	LOG	Send MAC command block process starts
0:00:57.251408	LOG	PUSH_ACK: 02 0fc8 01
0:00:57.254405	LOG	PUSH_DATA: Protocol version = 02, Token = 0fc8, Identifier = 00, JSON = {'rxpk': [{'tmst': 2718673418, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -43, 'size': 15, 'data': 'QCAgICCAewsBXfUkCe2X'}]}
0:00:57.256404	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b7b, FOpts:), FPort: 01, FRMPayload: 05a2, MIC: 2409ed97)
0:00:57.257403	LOG	Server <---------- DUT
0:00:57.260402	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07b3, FOpts:), FPort: 00, FRMPayload: 03200700010505d2ad84), MIC: aa97868a)
0:00:57.263400	LOG	PULL_RESP: Protocol version = 02, Token = d221, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2720673418, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YCAgICAAswcAwPf9d3xUgd1swKqXhoo='}}

0:00:57.264399	LOG	Server ----------> DUT
0:00:57.269398	LOG	TX_ACK: 02 d221 05 aa555a0000240409
0:00:58.523686	LOG	PULL_DATA: 02 4810 02 aa555a0000240409
0:00:58.525685	LOG	PULL_ACK: 02 4810 04
0:01:01.881781	LOG	PUSH_ACK: 02 0fc9 01
0:01:01.884780	LOG	PUSH_DATA: Protocol version = 02, Token = 0fc9, Identifier = 00, JSON = {'rxpk': [{'tmst': 2723346310, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -45, 'size': 19, 'data': 'QCAgICCEfAsDBwUHAVdgtym2Ug==’}]}
0:01:01.886779	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 84, FCnt: 0b7c, FOpts: 03070507), FPort: 01, FRMPayload: 05a2, MIC: b729b652)
0:01:01.887778	LOG	Server <---------- DUT
0:01:01.889777	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:01.891776	LOG	Command Answer: 03070507
0:01:01.954740	LOG	MAC command communication completed
0:01:01.967733	LOG	Send Test Command EchoPayloadReq process starts
0:01:06.924922	LOG	PUSH_ACK: 02 0fca 01
0:01:06.929919	LOG	PUSH_DATA: Protocol version = 02, Token = 0fca, Identifier = 00, JSON = {'rxpk': [{'tmst': 2728348894, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 11.5, 'rssi': -44, 'size': 17, 'data': 'QCAgICCCfQsFBwG8OJ/cI4s=’}]}
0:01:06.931918	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b7d, FOpts: 0507), FPort: 01, FRMPayload: 05a2, MIC: 9fdc238b)
0:01:06.933917	LOG	Server <---------- DUT
0:01:06.935916	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07b4, FOpts:), FPort: e0, FRMPayload: 08010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101), MIC: 3d925c90)
0:01:06.938914	LOG	Frame command sent to the DUT
0:01:06.939913	LOG	PULL_RESP: Protocol version = 02, Token = 9ea6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2730348894, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 65, 'data': 'YCAgICAAtAfg+86hE/wHhY5nKBSPD3FMWKc3Tw0AoOwlUw86dwu+d36nrkt3YMtMQduUj74t8EGvN/Wvqj2SXJA=’}}
0:01:06.941912	LOG	Server ----------> DUT
0:01:06.946909	LOG	TX_ACK: 02 9ea6 05 aa555a0000240409
0:01:08.622989	LOG	PULL_DATA: 02 b157 02 aa555a0000240409
0:01:08.624958	LOG	PULL_ACK: 02 b157 04
0:01:12.286882	LOG	PUSH_ACK: 02 0fcb 01
0:01:12.288881	LOG	PUSH_DATA: Protocol version = 02, Token = 0fcb, Identifier = 00, JSON = {'rxpk': [{'tmst': 2733731945, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -44, 'size': 64, 'data': 'QCAgICCAfgvg2iZneJ10aMBQvnud6T9ThiWNVVxI8eAhmHywXDA344Ns0xr3IcBs0tCMX4jEntT7SXhcyCpjCA==’}]}
0:01:12.290879	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b7e, FOpts:), FPort: e0, FRMPayload: 08020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202), MIC: c82a6308)
0:01:12.292878	LOG	Server <---------- DUT
0:01:12.294877	LOG	Answer in payload: 02020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202
0:01:12.295876	LOG	Frame Command Payload in the Answer: 08020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202020202

0:01:12.301873	LOG	Checking if the payload of the EchoPayloadAns is correct
0:01:12.309868	LOG	End Test Step: Uplink - Oversized Payload via Echo for datarate SF10BW125
0:01:12.313868	LOG	Partial Verdict: PASS
0:01:12.317866	LOG	==========
0:01:12.321864	LOG	==========
0:01:12.323863	LOG	Start Test Step: Uplink - Oversized Payload via Echo for datarate SF9BW125
0:01:12.333858	LOG	Send MAC command block process starts
0:01:16.918256	LOG	PUSH_ACK: 02 0fcc 01
0:01:16.921254	LOG	PUSH_DATA: Protocol version = 02, Token = 0fcc, Identifier = 00, JSON = {'rxpk': [{'tmst': 2738354041, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF10BW125', 'codr': '4/5', 'lsnr': 13.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAfwsBbEwOHSkm'}]}
0:01:16.923253	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b7f, FOpts:), FPort: 01, FRMPayload: 05a3, MIC: 0e1d2926)
0:01:16.925252	LOG	Server <---------- DUT
0:01:16.927251	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07b5, FOpts:), FPort: 00, FRMPayload: 03300700010505d2ad84), MIC: 9bed4d44)
0:01:16.931248	LOG	PULL_RESP: Protocol version = 02, Token = c505, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2740354041, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YCAgICAAtQcALunTR0JuepFgypvtTUQ='}}
0:01:16.933248	LOG	Server ----------> DUT
0:01:16.937245	LOG	TX_ACK: 02 c505 05 aa555a0000240409
0:01:18.823175	LOG	PULL_DATA: 02 e47f 02 aa555a0000240409
0:01:18.825174	LOG	PULL_ACK: 02 e47f 04
0:01:21.766508	LOG	PUSH_ACK: 02 0fcd 01
0:01:21.768505	LOG	PUSH_DATA: Protocol version = 02, Token = 0fcd, Identifier = 00, JSON = {'rxpk': [{'tmst': 2743212363, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -47, 'size': 19, 'data': 'QCAgICCEgAsDBwUHAeWNOTNY1Q=='}]}
0:01:21.769506	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 84, FCnt: 0b80, FOpts: 03070507), FPort: 01, FRMPayload: 05a3, MIC: 393358d5)
0:01:21.771505	LOG	Server <---------- DUT
0:01:21.772535	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:21.774504	LOG	Command Answer: 03070507
0:01:21.829471	LOG	MAC command communication completed
0:01:21.841465	LOG	Send Test Command EchoPayloadReq process starts
0:01:26.768677	LOG	PUSH_ACK: 02 0fcf 01
0:01:26.772669	LOG	PUSH_DATA: Protocol version = 02, Token = 0fcf, Identifier = 00, JSON = {'rxpk': [{'tmst': 2748194451, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 12.5, 'rssi': -49, 'size': 17, 'data': 'QCAgICCCgQsFBwGwAGBt9Ww='}]}
0:01:26.773667	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b81, FOpts: 0507), FPort: 01, FRMPayload: 05a3, MIC: 606df56c)
0:01:26.774669	LOG	Server <---------- DUT
0:01:26.776668	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07b6, FOpts:), FPort: e0, FRMPayload: 08010101010101010101

		'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 129, 'data': 'YCAgICAAtgfggAY+M1fDNUdfOOoCQYTfvAOtQmk7R5bM9Sno0NTQEz8Co1lXsiRNK3EDKeAs1LhOxfcEWD+VvHWwRlCOnRVws31ortjevhXZJRO3rNRQobeS4EyKcHXBChjDYNi3TCeuXfSvy8vEUp9xcKBxUnOe/P4VrDLReP2W'}}
0:01:26.780666	LOG	Server ----------> DUT
0:01:26.784662	LOG	TX_ACK: 02 9f93 05 aa555a0000240409
0:01:28.883116	LOG	PULL_DATA: 02 5c13 02 aa555a0000240409
0:01:28.885115	LOG	PULL_ACK: 02 5c13 04
0:01:32.275193	LOG	PUSH_ACK: 02 0fd0 01
0:01:32.277192	LOG	PUSH_DATA: Protocol version = 02, Token = 0fd0, Identifier = 00, JSON = {'rxpk': [{'tmst': 2753732693, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -49, 'size': 128, 'data': 'QCAgICCAggvg5A3+txP0C0/pS+NX6TnwSZhD/ks3tstwg+XxygR5FcXkhjWR+1OZzkFYbKX1O746XJQ+WZz7X/TRE1wwejEFxKvEWycy54zjSxh0jxyLp0UeRs2yEB9B2Z/klzIae++p6pcm2w7PfeOK62Cdj3uGd0pE5MODKcY='}]}
0:01:32.279191	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b82, FOpts:), FPort: e0, FRMPayload: 0802, MIC: c38329c6)
0:01:32.281189	LOG	Server <---------- DUT
0:01:32.282189	LOG	Answer in payload: 02
0:01:32.284188	LOG	Frame Command Payload in the Answer: 0802
0:01:32.290184	LOG	Checking if the payload of the EchoPayloadAns is correct
0:01:32.295183	LOG	End Test Step: Uplink - Oversized Payload via Echo for datarate SF9BW125
0:01:32.298182	LOG	Partial Verdict: PASS
0:01:32.303177	LOG	==========
0:01:32.308174	LOG	==========
0:01:32.310173	LOG	Start Test Step: Uplink - Oversized Payload via Echo for datarate SF8BW125
0:01:32.318170	LOG	Send MAC command block process starts
0:01:36.749934	LOG	PUSH_ACK: 02 0fd1 01
0:01:36.750933	LOG	PUSH_DATA: Protocol version = 02, Token = 0fd1, Identifier = 00, JSON = {'rxpk': [{'tmst': 2758199597, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF9BW125', 'codr': '4/5', 'lsnr': 12.8, 'rssi': -49, 'size': 15, 'data': 'QCAgICCAgwsBvhgPPkJo'}]}
0:01:36.752932	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b83, FOpts:), FPort: 01, FRMPayload: 05a4, MIC: 0f3e4268)
0:01:36.753931	LOG	Server <---------- DUT
0:01:36.754931	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07b7, FOpts:), FPort: 00, FRMPayload: 03400700010505d2ad84), MIC: 1fd85c97)
0:01:36.757929	LOG	PULL_RESP: Protocol version = 02, Token = b716, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2760199597, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YCAgICAAtwcAYb76nqQFdLJCph/YXJc='}}
0:01:36.758929	LOG	Server ----------> DUT
0:01:36.761927	LOG	TX_ACK: 02 b716 05 aa555a0000240409

0:01:39.063622	LOG	PULL_DATA: 02 716e 02 aa555a0000240409
0:01:39.067619	LOG	PULL_ACK: 02 716e 04
0:01:41.714913	LOG	PUSH_ACK: 02 0fd2 01
0:01:41.716912	LOG	PUSH_DATA: Protocol version = 02, Token = 0fd2, Identifier = 00, JSON = {'rxpk': [{'tmst': 2763140271, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -46, 'size': 19, 'data': 'QCAgICCEhAsDBwUHAZaM44ttDw==\'}]}
0:01:41.717910	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 84, FCnt: 0b84, FOpts: 03070507), FPort: 01, FRMPayload: 05a4, MIC: e38b6d0f)
0:01:41.718911	LOG	Server <---------- DUT
0:01:41.720908	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:41.722907	LOG	Command Answer: 03070507
0:01:41.780874	LOG	MAC command communication completed
0:01:41.791867	LOG	Send Test Command EchoPayloadReq process starts
0:01:46.703083	LOG	PUSH_ACK: 02 0fd3 01
0:01:46.705084	LOG	PUSH_DATA: Protocol version = 02, Token = 0fd3, Identifier = 00, JSON = {'rxpk': [{'tmst': 2768132599, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -45, 'size': 17, 'data': 'QCAgICCChQsFBwFp11zMfow=\'}]}
0:01:46.706081	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b85, FOpts: 0507), FPort: 01, FRMPayload: 05a4, MIC: 5ccc7e8c)
0:01:46.707083	LOG	Server <---------- DUT
0:01:46.709082	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07b8, FOpts:), FPort: e0, FRMPayload: 0801010101010101010101

0:01:56.695144	LOG	PUSH_ACK: 02 0fd6 01
0:01:56.698143	LOG	PUSH_DATA: Protocol version = 02, Token = 0fd6, Identifier = 00, JSON = {'rxpk': [{'tmst': 2778137751, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -45, 'size': 17, 'data': 'QCAgICCChwsFBwGgZUhU7Qo='}]}
0:01:56.700142	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b87, FOpts: 0507), FPort: 01, FRMPayload: 05a4, MIC: 4854ed0a)
0:01:56.701141	LOG	Server <---------- DUT
0:01:56.703140	LOG	Resend the Frame command. May the DUT did not listen
0:01:56.705139	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07b9, FOpts:), FPort: e0, FRMPayload: 08010101010101010101

		1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 1010101010101010101010101010101010101010101010101010101010101010101 0101010101010101010101010101010101010101010101010101010101010101010 10101010101010101), MIC: 4fe8eb66)
0:02:06.682808	LOG	Frame command sent to the DUT
0:02:06.683808	LOG	PULL_RESP: Protocol version = 02, Token = edce, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2790142911, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 256, 'data': 'YCAgICAAugfg5B/RFwYKwr+/7fVAdC553NigjCttXJlDlKG9dnBsjOOQHYAyvIfANS2BzXWWVSlcuUcNm1XAt/DJaC1Ql8k3389+RoPH9nC3B4JZYZisemTbWw0iceu4Kj4xOp53ja63HiKYsKek3KhH55zTCxi506PLOjDLzT2Qa7ahms/+EeUX9NB7HsxJN0kE8EzbMqdAxcTtOFxqIf+w9U3rgQMpENEOwyZlZxe2GscNMo+f7z3M7UxYDbIyM2yBzUnssPgzjtme0LziQfA2JdFsKoGN3KdynW5KirB1XKMln4JsMVQt3C8xghAaLU7WfM7XREtN9UufT+jrZg==''}}
0:02:06.685807	LOG	Server ----------> DUT
0:02:06.688805	LOG	TX_ACK: 02 edce 05 aa555a0000240409
0:02:09.622592	LOG	PULL_DATA: 02 690f 02 aa555a0000240409
0:02:09.627589	LOG	PULL_ACK: 02 690f 04
0:02:11.713406	LOG	PUSH_ACK: 02 0fd9 01
0:02:11.715405	LOG	PUSH_DATA: Protocol version = 02, Token = 0fd9, Identifier = 00, JSON = {'rxpk': [{'tmst': 2793145503, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -47, 'size': 17, 'data': 'QCAgICCCigsFBwH4iwGSWTk='}]}
0:02:11.716406	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b8a, FOpts: 0507), FPort: 01, FRMPayload: 05a4, MIC: 01925939)
0:02:11.717406	LOG	Server <---------- DUT
0:02:11.719405	LOG	Packet received from unexpected FPort 01
0:02:16.701578	LOG	PUSH_ACK: 02 0fda 01
0:02:16.703578	LOG	PUSH_DATA: Protocol version = 02, Token = 0fda, Identifier = 00, JSON = {'rxpk': [{'tmst': 2798148095, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCiwsFBwErzGbVBR4='}]}
0:02:16.704578	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b8b, FOpts: 0507), FPort: 01, FRMPayload: 05a4, MIC: 66d5051e)
0:02:16.706575	LOG	Server <---------- DUT
0:02:16.708575	LOG	Packet received from unexpected FPort 01
0:02:19.702875	LOG	PULL_DATA: 02 4192 02 aa555a0000240409
0:02:19.704874	LOG	PULL_ACK: 02 4192 04
0:02:21.689767	LOG	PUSH_ACK: 02 0fdb 01
0:02:21.691750	LOG	PUSH_DATA: Protocol version = 02, Token = 0fdb, Identifier = 00, JSON = {'rxpk': [{'tmst': 2803150687, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -44, 'size': 17, 'data': 'QCAgICCCjAsFBwHYgFs97dE='}]}
0:02:21.693747	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b8c, FOpts: 0507), FPort: 01, FRMPayload: 05a4, MIC: 5b3dedd1)
0:02:21.694747	LOG	Server <---------- DUT
0:02:21.696754	LOG	Packet received from unexpected FPort 01
0:02:26.694911	LOG	PUSH_ACK: 02 0fdd 01
0:02:26.697911	LOG	PUSH_DATA: Protocol version = 02, Token = 0fdd, Identifier = 00, JSON = {'rxpk': [{'tmst': 2808153279, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCjQsFBwH1HC4OfRk='}]}
0:02:26.699909	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b8d, FOpts: 0507), FPort: 01, FRMPayload: 05a4, MIC: 2e0e7d19)
0:02:26.700908	LOG	Server <---------- DUT

0:02:26.702907	LOG	Packet received from unexpected FPort 01
0:02:29.783160	LOG	PULL_DATA: 02 4b03 02 aa555a0000240409
0:02:29.784162	LOG	PULL_ACK: 02 4b03 04
0:02:31.684083	LOG	PUSH_ACK: 02 0fde 01
0:02:31.686081	LOG	PUSH_DATA: Protocol version = 02, Token = 0fde, Identifier = 00, JSON = {'rxpk': [{'tmst': 2813155871, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.2, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCjgsFBwGCfakyaC0='}]}
0:02:31.687083	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b8e, FOpts: 0507), FPort: 01, FRMPayload: 05a4, MIC: a932682d)
0:02:31.688082	LOG	Server <---------- DUT
0:02:31.690081	LOG	Packet received from unexpected FPort 01
0:02:31.696076	LOG	End Test Step: Uplink - Oversized Payload via Echo for datarate SF8BW125
0:02:31.700075	LOG	Partial Verdict: PASS
0:02:31.704071	LOG	==========
0:02:31.708069	LOG	==========
0:02:31.710068	LOG	Start Test Step: Uplink - Oversized Payload via Echo for datarate SF7BW125
0:02:31.720064	LOG	Send MAC command block process starts
0:02:36.724226	LOG	PUSH_ACK: 02 0fdf 01
0:02:36.726225	LOG	PUSH_DATA: Protocol version = 02, Token = 0fdf, Identifier = 00, JSON = {'rxpk': [{'tmst': 2818158455, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF8BW125', 'codr': '4/5', 'lsnr': 11.8, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCjwsFBwFj+GcdMRo='}]}
0:02:36.727225	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b8f, FOpts: 0507), FPort: 01, FRMPayload: 05a4, MIC: 671d311a)
0:02:36.728222	LOG	Server <---------- DUT
0:02:36.730223	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07bb, FOpts:), FPort: 00, FRMPayload: 03500700010505d2ad84), MIC: ecdb18a4)
0:02:36.732222	LOG	PULL_RESP: Protocol version = 02, Token = db31, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2820158455, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YCAgICAAuwcANiIyONm46keuM+zbGKQ='}}
0:02:36.733222	LOG	Server ----------> DUT
0:02:36.737219	LOG	TX_ACK: 02 db31 05 aa555a0000240409
0:02:39.882433	LOG	PULL_DATA: 02 2cc2 02 aa555a0000240409
0:02:39.887432	LOG	PULL_ACK: 02 2cc2 04
0:02:41.673420	LOG	PUSH_ACK: 02 0fe0 01
0:02:41.675419	LOG	PUSH_DATA: Protocol version = 02, Token = 0fe0, Identifier = 00, JSON = {'rxpk': [{'tmst': 2823119841, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -46, 'size': 19, 'data': 'QCAgICCEkAsDBwUHARHPZdDBQw=='}]}
0:02:41.676417	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 84, FCnt: 0b90, FOpts: 03070507), FPort: 01, FRMPayload: 05a4, MIC: 65d0c143)
0:02:41.677418	LOG	Server <---------- DUT
0:02:41.678416	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:41.680416	LOG	Command Answer: 03070507
0:02:41.736384	LOG	MAC command communication completed
0:02:41.748376	LOG	Send Test Command EchoPayloadReq process starts
0:02:46.661592	LOG	PUSH_ACK: 02 0fe1 01
0:02:46.666591	LOG	PUSH_DATA: Protocol version = 02, Token = 0fe1, Identifier = 00, JSON = {'rxpk': [{'tmst': 2828122425, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -44, 'size': 17, 'data': 'QCAgICCCkQsFBwE9vQwqHLE='}]}

0:02:46.667592	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b91, FOpts: 0507), FPort: 01, FRMPayload: 05a4, MIC: 0c2a1cb1)
0:02:46.668592	LOG	Server <---------- DUT
0:02:46.670589	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07bc, FOpts:), FPort: e0, FRMPayload: 08010101010101010101

0:02:56.668913	LOG	PULL_RESP: Protocol version = 02, Token = 960d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2840127609, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 256, 'data': 'YCAgICAAvQfgUiJc/KcsyHHqO3Mm4Ligeg0ZZuhVUTsx3jS5lf8BUQaDvhZ5UsCLLgSfESKX5/WG3piUt1MysvU6i6rRGDtS+0eFoLF7ptlJrsz0AQh1hudtvZuzGt4j8MvZ3I3VgawoGNFDbP1Uf400/TdzO7e+xV9nkc+PQ2+Cx3c7f+b4wqBdqMwgXY0BNgNfheZ0ZHnuCj5WG03w/lyd7eJk6wu8DnRSCMxPsOY5pS2DWeNg8KIRLcfLux+TD52P/Ofmpwl914gUIjvaxTBxlJZjTtmG1KIHlXhYDyEZRsVM6MNbowztnfHDefBS/cLrisYKprYQgVU/MewB4Q=='}}
0:02:56.669913	LOG	Server ----------> DUT
0:02:56.673911	LOG	TX_ACK: 02 960d 05 aa555a0000240409
0:03:00.243168	LOG	PULL_DATA: 02 a68b 02 aa555a0000240409
0:03:00.245167	LOG	PULL_ACK: 02 a68b 04
0:03:01.694345	LOG	PUSH_ACK: 02 0fe5 01
0:03:01.696344	LOG	PUSH_DATA: Protocol version = 02, Token = 0fe5, Identifier = 00, JSON = {'rxpk': [{'tmst': 2843130185, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.2, 'rssi': -44, 'size': 17, 'data': 'QCAgICCClAsFBwHEZjwfiGA='}]}
0:03:01.697344	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b94, FOpts: 0507), FPort: 01, FRMPayload: 05a4, MIC: 3c1f8860)
0:03:01.699344	LOG	Server <---------- DUT
0:03:01.700342	LOG	Packet received from unexpected FPort 01
0:03:06.683177	LOG	PUSH_ACK: 02 0fe6 01
0:03:06.685177	LOG	PUSH_DATA: Protocol version = 02, Token = 0fe6, Identifier = 00, JSON = {'rxpk': [{'tmst': 2848132801, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 17, 'data': 'QCAgICCClQsFBwEDfeiEy5A='}]}
0:03:06.687176	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b95, FOpts: 0507), FPort: 01, FRMPayload: 05a4, MIC: e884cb90)
0:03:06.688175	LOG	Server <---------- DUT
0:03:06.690175	LOG	Resend the Frame command. May the DUT did not listen
0:03:06.692173	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07be, FOpts:), FPort: e0, FRMPayload: 08010101010101010101

0:03:11.671611	LOG	PUSH_ACK: 02 0fe7 01
0:03:11.673610	LOG	PUSH_DATA: Protocol version = 02, Token = 0fe7, Identifier = 00, JSON = {'rxpk': [{'tmst': 2853135393, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -44, 'size': 17, 'data': 'QCAgICCClgsFBwGCIQs/yqk='}]}
0:03:11.675609	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b96, FOpts: 0507), FPort: 01, FRMPayload: 05a4, MIC: 0b3fcaa9)
0:03:11.676608	LOG	Server <---------- DUT
0:03:11.677608	LOG	Packet received from unexpected FPort 01
0:03:16.711801	LOG	PUSH_ACK: 02 0fe8 01
0:03:16.712799	LOG	PUSH_DATA: Protocol version = 02, Token = 0fe8, Identifier = 00, JSON = {'rxpk': [{'tmst': 2858137977, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -46, 'size': 17, 'data': 'QCAgICCClwsFBwHLsP696Ak='}]}
0:03:16.714798	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b97, FOpts: 0507), FPort: 01, FRMPayload: 05a4, MIC: febde809)
0:03:16.715798	LOG	Server <---------- DUT
0:03:16.716797	LOG	Packet received from unexpected FPort 01
0:03:20.342587	LOG	PULL_DATA: 02 602b 02 aa555a0000240409
0:03:20.344586	LOG	PULL_ACK: 02 602b 04
0:03:21.698818	LOG	PUSH_ACK: 02 0fe9 01
0:03:21.701816	LOG	PUSH_DATA: Protocol version = 02, Token = 0fe9, Identifier = 00, JSON = {'rxpk': [{'tmst': 2863140561, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCmAsFBwGxUACgVWc='}]}
0:03:21.703815	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b98, FOpts: 0507), FPort: 01, FRMPayload: 05a4, MIC: 00a05567)
0:03:21.704814	LOG	Server <---------- DUT
0:03:21.706813	LOG	Packet received from unexpected FPort 01
0:03:26.706098	LOG	PUSH_ACK: 02 0feb 01
0:03:26.710096	LOG	PUSH_DATA: Protocol version = 02, Token = 0feb, Identifier = 00, JSON = {'rxpk': [{'tmst': 2868143153, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCmQsFBwEjbUd7YV0='}]}
0:03:26.713094	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b99, FOpts: 0507), FPort: 01, FRMPayload: 05a4, MIC: 477b615d)
0:03:26.714096	LOG	Server <---------- DUT
0:03:26.716092	LOG	Packet received from unexpected FPort 01
0:03:30.422822	LOG	PULL_DATA: 02 cfa9 02 aa555a0000240409
0:03:30.424821	LOG	PULL_ACK: 02 cfa9 04
0:03:31.696100	LOG	PUSH_ACK: 02 0fec 01
0:03:31.699099	LOG	PUSH_DATA: Protocol version = 02, Token = 0fec, Identifier = 00, JSON = {'rxpk': [{'tmst': 2873145745, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCmgsFBwHxanSo4Og='}]}
0:03:31.700098	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b9a, FOpts: 0507), FPort: 01, FRMPayload: 05a4, MIC: 74a8e0e8)
0:03:31.702097	LOG	Server <---------- DUT
0:03:31.704096	LOG	Packet received from unexpected FPort 01
0:03:31.711092	LOG	End Test Step: Uplink - Oversized Payload via Echo for datarate SF7BW125
0:03:31.716089	LOG	Partial Verdict: PASS
0:03:31.721086	LOG	==========
0:03:31.727083	LOG	==========
0:03:31.729082	LOG	Start Test Step: Uplink - Oversized Payload via Echo for datarate SF7BW250
0:03:31.742074	LOG	Send NewChannelReq process starts
0:03:36.685272	LOG	PUSH_ACK: 02 0fed 01

0:03:36.687270	LOG	PUSH_DATA: Protocol version = 02, Token = 0fed, Identifier = 00, JSON = {'rxpk': [{'tmst': 2878148337, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCmwsFBwF/s8omShk='}]}
0:03:36.689269	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b9b, FOpts: 0507), FPort: 01, FRMPayload: 05a4, MIC: ca264a19)
0:03:36.690268	LOG	Server <---------- DUT
0:03:36.692267	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07bf, FOpts:), FPort: 00, FRMPayload: 070328768466), MIC: c76c83db)
0:03:36.695266	LOG	PULL_RESP: Protocol version = 02, Token = a94c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2880148337, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YCAgICAAvwcAe61SH87Zx2yD2w=='}}
0:03:36.697265	LOG	Server ----------> DUT
0:03:36.701262	LOG	TX_ACK: 02 a94c 05 aa555a0000240409
0:03:40.472340	LOG	PULL_DATA: 02 3b80 02 aa555a0000240409
0:03:40.477338	LOG	PULL_ACK: 02 3b80 04
0:03:41.709639	LOG	PUSH_ACK: 02 0fee 01
0:03:41.712638	LOG	PUSH_DATA: Protocol version = 02, Token = 0fee, Identifier = 00, JSON = {'rxpk': [{'tmst': 2883150931, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCnAsHAwHF0NLNUDk='}]}
0:03:41.714637	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0b9c, FOpts: 0703), FPort: 01, FRMPayload: 05a4, MIC: d2cd5039)
0:03:41.715636	LOG	Server <---------- DUT
0:03:41.717634	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:03:41.719633	LOG	Command Answer: 0703
0:03:41.725630	LOG	MAC command communication completed
0:03:41.735625	LOG	Send MAC command block process starts
0:03:46.697844	LOG	PUSH_ACK: 02 0fef 01
0:03:46.699844	LOG	PUSH_DATA: Protocol version = 02, Token = 0fef, Identifier = 00, JSON = {'rxpk': [{'tmst': 2888148379, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -47, 'size': 15, 'data': 'QCAgICCAnQsBUUIkG1WY'}]}
0:03:46.701843	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b9d, FOpts:), FPort: 01, FRMPayload: 05a4, MIC: 241b5598)
0:03:46.702842	LOG	Server <---------- DUT
0:03:46.703844	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07c0, FOpts:), FPort: 00, FRMPayload: 03600f00010505d2ad84), MIC: c7bea567)
0:03:46.706840	LOG	PULL_RESP: Protocol version = 02, Token = d1ef, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2890148379, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YCAgICAAwAcAwQVmo8SMihIc9ce+pWc='}}
0:03:46.708839	LOG	Server ----------> DUT
0:03:46.711838	LOG	TX_ACK: 02 d1ef 05 aa555a0000240409
0:03:50.482459	LOG	PULL_DATA: 02 001f 02 aa555a0000240409
0:03:50.484460	LOG	PULL_ACK: 02 001f 04
0:03:51.714732	LOG	PUSH_ACK: 02 0ff0 01
0:03:51.716730	LOG	PUSH_DATA: Protocol version = 02, Token = 0ff0, Identifier = 00, JSON = {'rxpk': [{'tmst': 2893150955, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAngsBQk601CZJ'}]}
0:03:51.717729	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b9e, FOpts:), FPort: 01, FRMPayload: 05a4, MIC: b4d42649)

0:03:51.718729	LOG	Server <---------- DUT
0:03:51.720728	LOG	MAC command not received because FPort field is not set to 0 and FOpts field is empty
0:03:56.715020	LOG	PUSH_ACK: 02 0ff2 01
0:03:56.717001	LOG	PUSH_DATA: Protocol version = 02, Token = 0ff2, Identifier = 00, JSON = {'rxpk': [{'tmst': 2898153563, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAnwsBNVmmEh9A'}]}
0:03:56.719000	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0b9f, FOpts:), FPort: 01, FRMPayload: 05a4, MIC: a6121f40)
0:03:56.720000	LOG	Server <---------- DUT
0:03:56.721001	LOG	Resend the MAC Block command. May the DUT did not listen
0:03:56.723000	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07c1, FOpts:), FPort: 00, FRMPayload: 03600f00010505d2ad84), MIC: 392f4e44)
0:03:56.724997	LOG	PULL_RESP: Protocol version = 02, Token = 5205, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2900153563, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YCAgICAAwQcA9vvZNxLIboQw6TkvTkQ='}}
0:03:56.726997	LOG	Server ----------> DUT
0:03:56.729995	LOG	TX_ACK: 02 5205 05 aa555a0000240409
0:04:00.502854	LOG	PULL_DATA: 02 ff5d 02 aa555a0000240409
0:04:00.504853	LOG	PULL_ACK: 02 ff5d 04
0:04:01.668194	LOG	PUSH_ACK: 02 0ff3 01
0:04:01.671192	LOG	PUSH_DATA: Protocol version = 02, Token = 0ff3, Identifier = 00, JSON = {'rxpk': [{'tmst': 2903135593, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -49, 'size': 19, 'data': 'QCAgICCEoAsDBwUHAQ9SWy0pow=='}]}
0:04:01.673191	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 84, FCnt: 0ba0, FOpts: 03070507), FPort: 01, FRMPayload: 05a4, MIC: 5b2d29a3)
0:04:01.674190	LOG	Server <---------- DUT
0:04:01.676189	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:04:01.678188	LOG	Command Answer: 03070507
0:04:01.754145	LOG	MAC command communication completed
0:04:01.775133	LOG	Send Test Command EchoPayloadReq process starts
0:04:06.708336	LOG	PUSH_ACK: 02 0ff4 01
0:04:06.711334	LOG	PUSH_DATA: Protocol version = 02, Token = 0ff4, Identifier = 00, JSON = {'rxpk': [{'tmst': 2908138173, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -50, 'size': 17, 'data': 'QCAgICCCoQsFBwH3PK+I/S8='}]}
0:04:06.712334	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0ba1, FOpts: 0507), FPort: 01, FRMPayload: 05a4, MIC: af88fd2f)
0:04:06.714332	LOG	Server <---------- DUT
0:04:06.746316	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07c2, FOpts:), FPort: e0, FRMPayload: 08010101010101010101

		'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 256, 'data': 'YCAgICAAwgfg3cQr1OtDNsEHfliHM5cc1a9xjjEao64RJ1PQCxGzgRFGwTcg98ziS47jFf1Qo01Vx2tE1k7BNl06DcTklc9ofjTHF/ArD7ymEDslmMtoijc0b9KEm5aOQSJspumWG05s8vE2SOre4eHAhBGw/1bQWE/I3DaZw5NeTkQlmeyJNd01F8XSviU3vmjNmdZTvgxJ1U6QWSxpGWbrzn1Ekdr8RTo6DLKZtholEvej6Zm4HKy3X0MU1l0eAHVmBPR3eTK8WEQXgWiEzec9OjzfrrcvxzPmrbVNynTwdGZhZuGjFS7Wz7OTdtvYL9tHklzRNBFPR9w8oytksQ=='}}
0:04:06.751311	LOG	Server ----------> DUT
0:04:06.755309	LOG	TX_ACK: 02 3f91 05 aa555a0000240409
0:04:10.532168	LOG	PULL_DATA: 02 3271 02 aa555a0000240409
0:04:10.537165	LOG	PULL_ACK: 02 3271 04
0:04:11.695508	LOG	PUSH_ACK: 02 0ff5 01
0:04:11.697507	LOG	PUSH_DATA: Protocol version = 02, Token = 0ff5, Identifier = 00, JSON = {'rxpk': [{'tmst': 2913140761, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -50, 'size': 17, 'data': 'QCAgICCCogsFBwHsvmLtyJI='}]}
0:04:11.699508	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0ba2, FOpts: 0507), FPort: 01, FRMPayload: 05a4, MIC: 62edc892)
0:04:11.700507	LOG	Server <---------- DUT
0:04:11.701505	LOG	Packet received from unexpected FPort 01
0:04:16.684810	LOG	PUSH_ACK: 02 0ff6 01
0:04:16.686809	LOG	PUSH_DATA: Protocol version = 02, Token = 0ff6, Identifier = 00, JSON = {'rxpk': [{'tmst': 2918143349, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -50, 'size': 17, 'data': 'QCAgICCCowsFBwH53klq3mU='}]}
0:04:16.688808	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0ba3, FOpts: 0507), FPort: 01, FRMPayload: 05a4, MIC: 496ade65)
0:04:16.690807	LOG	Server <---------- DUT
0:04:16.692806	LOG	Resend the Frame command. May the DUT did not listen
0:04:16.693805	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07c3, FOpts:), FPort: e0, FRMPayload: 08010101010101010101

0:04:21.676000	LOG	PUSH_DATA: Protocol version = 02, Token = 0ff7, Identifier = 00, JSON = {'rxpk': [{'tmst': 2923145933, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -49, 'size': 17, 'data': 'QCAgICCCpAsFBwGWesTaVfQ='}]}
0:04:21.677000	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0ba4, FOpts: 0507), FPort: 01, FRMPayload: 05a4, MIC: c4da55f4)
0:04:21.677999	LOG	Server <---------- DUT
0:04:21.679998	LOG	Packet received from unexpected FPort 01
0:04:26.674307	LOG	PUSH_ACK: 02 0ff9 01
0:04:26.676306	LOG	PUSH_DATA: Protocol version = 02, Token = 0ff9, Identifier = 00, JSON = {'rxpk': [{'tmst': 2928148521, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -49, 'size': 17, 'data': 'QCAgICCCpQsFBwH9mZfVxHg='}]}
0:04:26.677305	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0ba5, FOpts: 0507), FPort: 01, FRMPayload: 05a4, MIC: 97d5c478)
0:04:26.679303	LOG	Server <---------- DUT
0:04:26.680302	LOG	Resend the Frame command. May the DUT did not listen
0:04:26.683300	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07c4, FOpts:), FPort: e0, FRMPayload: 08010101010101010101

0:04:36.708635	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0ba7, FOpts: 0507), FPort: 01, FRMPayload: 05a4, MIC: 353cc59b)
0:04:36.709635	LOG	Server <---------- DUT
0:04:36.711634	LOG	Packet received from unexpected FPort 01
0:04:40.982213	LOG	PULL_DATA: 02 502b 02 aa555a0000240409
0:04:40.986210	LOG	PULL_ACK: 02 502b 04
0:04:41.692809	LOG	PUSH_ACK: 02 0ffd 01
0:04:41.694808	LOG	PUSH_DATA: Protocol version = 02, Token = 0ffd, Identifier = 00, JSON = {'rxpk': [{'tmst': 2943156257, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -50, 'size': 17, 'data': 'QCAgICCCqAsFBwE8gZDT9dc='}]}
0:04:41.695810	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0ba8, FOpts: 0507), FPort: 01, FRMPayload: 05a4, MIC: 90d3f5d7)
0:04:41.696809	LOG	Server <---------- DUT
0:04:41.698806	LOG	Packet received from unexpected FPort 01
0:04:46.732218	LOG	PUSH_ACK: 02 0ffe 01
0:04:46.734217	LOG	PUSH_DATA: Protocol version = 02, Token = 0ffe, Identifier = 00, JSON = {'rxpk': [{'tmst': 2948158833, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -50, 'size': 17, 'data': 'QCAgICCCqQsFBwEcAT/ILWk='}]}
0:04:46.735217	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0ba9, FOpts: 0507), FPort: 01, FRMPayload: 05a4, MIC: 3fc82d69)
0:04:46.737215	LOG	Server <---------- DUT
0:04:46.738215	LOG	Packet received from unexpected FPort 01
0:04:51.062763	LOG	PULL_DATA: 02 8191 02 aa555a0000240409
0:04:51.063764	LOG	PULL_ACK: 02 8191 04
0:04:51.721389	LOG	PUSH_ACK: 02 0fff 01
0:04:51.723388	LOG	PUSH_DATA: Protocol version = 02, Token = 0fff, Identifier = 00, JSON = {'rxpk': [{'tmst': 2953161425, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -50, 'size': 17, 'data': 'QCAgICCCqgsFBwHIvda/tKQ='}]}
0:04:51.724388	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0baa, FOpts: 0507), FPort: 01, FRMPayload: 05a4, MIC: d6bfb4a4)
0:04:51.725389	LOG	Server <---------- DUT
0:04:51.726388	LOG	Packet received from unexpected FPort 01
0:04:51.733382	LOG	Send LinkADRReq process starts
0:04:56.724984	LOG	PUSH_ACK: 02 1001 01
0:04:56.726983	LOG	PUSH_DATA: Protocol version = 02, Token = 1001, Identifier = 00, JSON = {'rxpk': [{'tmst': 2958164017, 'chan': 8, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW250', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -50, 'size': 17, 'data': 'QCAgICCCqwsFBwGPl2Q4rzw='}]}
0:04:56.728982	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0bab, FOpts: 0507), FPort: 01, FRMPayload: 05a4, MIC: 6438af3c)
0:04:56.730981	LOG	Server <---------- DUT
0:04:56.733979	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07c5, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: 738e39b6)
0:04:56.736977	LOG	PULL_RESP: Protocol version = 02, Token = f26a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2960164017, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAxQcARn/Xo49zjjm2'}}
0:04:56.738976	LOG	Server ----------> DUT
0:04:56.741974	LOG	TX_ACK: 02 f26a 05 aa555a0000240409
0:05:01.142528	LOG	PULL_DATA: 02 bdcc 02 aa555a0000240409
0:05:01.144528	LOG	PULL_ACK: 02 bdcc 04
0:05:01.725199	LOG	PUSH_ACK: 02 1002 01

0:05:01.727199	LOG	PUSH_DATA: Protocol version = 02, Token = 1002, Identifier = 00, JSON = {'rxpk': [{'tmst': 2963192333, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCrAsDBwGJiNlw7lk='}]}
0:05:01.729197	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0bac, FOpts: 0307), FPort: 01, FRMPayload: 05a4, MIC: d970ee59)
0:05:01.730195	LOG	Server <---------- DUT
0:05:01.732194	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:05:01.733194	LOG	Command Answer: 0307
0:05:01.739190	LOG	MAC command communication completed
0:05:01.743190	LOG	Send NewChannelReq process starts
0:05:06.765214	LOG	PUSH_ACK: 02 1003 01
0:05:06.767213	LOG	PUSH_DATA: Protocol version = 02, Token = 1003, Identifier = 00, JSON = {'rxpk': [{'tmst': 2968189789, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCArQsB8mwQO50J'}]}
0:05:06.769212	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0bad, FOpts:), FPort: 01, FRMPayload: 05a4, MIC: 103b9d09)
0:05:06.770212	LOG	Server <---------- DUT
0:05:06.772210	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07c6, FOpts:), FPort: 00, FRMPayload: 070300000050), MIC: 1afd1db3)
0:05:06.775209	LOG	PULL_RESP: Protocol version = 02, Token = 5f3c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2970189789, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YCAgICAAxgcA5ZPRk2iBGv0dsw=='}}
0:05:06.777207	LOG	Server ----------> DUT
0:05:06.780206	LOG	TX_ACK: 02 5f3c 05 aa555a0000240409
0:05:11.182710	LOG	PULL_DATA: 02 95e9 02 aa555a0000240409
0:05:11.187708	LOG	PULL_ACK: 02 95e9 04
0:05:11.751387	LOG	PUSH_ACK: 02 1004 01
0:05:11.752386	LOG	PUSH_DATA: Protocol version = 02, Token = 1004, Identifier = 00, JSON = {'rxpk': [{'tmst': 2973197503, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -44, 'size': 17, 'data': 'QCAgICCCrgsHAwHuimDKiZY='}]}
0:05:11.754385	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0bae, FOpts: 0703), FPort: 01, FRMPayload: 05a4, MIC: 60ca8996)
0:05:11.755385	LOG	Server <---------- DUT
0:05:11.756385	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:05:11.757384	LOG	Command Answer: 0703
0:05:11.763380	LOG	MAC command communication completed
0:05:11.767378	LOG	End Test Step: Uplink - Oversized Payload via Echo for datarate SF7BW250
0:05:11.770377	LOG	Partial Verdict: PASS
0:05:11.773375	LOG	==========
0:05:11.778372	LOG	==========
0:05:11.779371	LOG	Start Test Step: Uplink - Oversized Payload via Echo for datarate FSK
0:05:11.791365	LOG	Send NewChannelReq process starts
0:05:16.739221	LOG	PUSH_ACK: 02 1005 01
0:05:16.745217	LOG	PUSH_DATA: Protocol version = 02, Token = 1005, Identifier = 00, JSON = {'rxpk': [{'tmst': 2978194967, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCArwsBfUskCiXe'}]}
0:05:16.749216	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0baf, FOpts:), FPort: 01, FRMPayload: 05a4, MIC: 240a25de)
0:05:16.753213	LOG	Server <---------- DUT

0:05:16.754212	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07c7, FOpts:), FPort: 00, FRMPayload: 070428768477), MIC: d05df608)
0:05:16.757211	LOG	PULL_RESP: Protocol version = 02, Token = 953e, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2980194967, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YCAgICAAxwcAgyMuCsqO0F32CA=='}}
0:05:16.758210	LOG	Server ----------> DUT
0:05:16.761208	LOG	TX_ACK: 02 953e 05 aa555a0000240409
0:05:21.372323	LOG	PULL_DATA: 02 8e8c 02 aa555a0000240409
0:05:21.374291	LOG	PULL_ACK: 02 8e8c 04
0:05:21.756075	LOG	PUSH_ACK: 02 1006 01
0:05:21.758074	LOG	PUSH_DATA: Protocol version = 02, Token = 1006, Identifier = 00, JSON = {'rxpk': [{'tmst': 2983202689, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -43, 'size': 17, 'data': 'QCAgICCCsAsHAwF/iuxW7TY='}]}
0:05:21.760072	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0bb0, FOpts: 0703), FPort: 01, FRMPayload: 05a4, MIC: ec56ed36)
0:05:21.762071	LOG	Server <---------- DUT
0:05:21.763071	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:05:21.764070	LOG	Command Answer: 0703
0:05:21.770066	LOG	MAC command communication completed
0:05:21.775064	LOG	Send MAC command block process starts
0:05:26.756240	LOG	PUSH_ACK: 02 1008 01
0:05:26.758238	LOG	PUSH_DATA: Protocol version = 02, Token = 1008, Identifier = 00, JSON = {'rxpk': [{'tmst': 2988200161, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAsQsBHf25Ddh1'}]}
0:05:26.759237	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0bb1, FOpts:), FPort: 01, FRMPayload: 05a4, MIC: b90dd875)
0:05:26.760237	LOG	Server <---------- DUT
0:05:26.762236	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07c8, FOpts:), FPort: 00, FRMPayload: 03701700010505d2ad84), MIC: 946d8671)
0:05:26.764235	LOG	PULL_RESP: Protocol version = 02, Token = f8ce, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 2990200161, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YCAgICAAyAcAZXjmyU0jO+Aeh5RthnE='}}
0:05:26.765234	LOG	Server ----------> DUT
0:05:26.768234	LOG	TX_ACK: 02 f8ce 05 aa555a0000240409
0:05:31.381747	LOG	PULL_DATA: 02 2934 02 aa555a0000240409
0:05:31.383746	LOG	PULL_ACK: 02 2934 04
0:05:31.715003	LOG	PUSH_ACK: 02 1009 01
0:05:31.716002	LOG	PUSH_DATA: Protocol version = 02, Token = 1009, Identifier = 00, JSON = {'rxpk': [{'tmst': 2993160801, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -46, 'size': 19, 'data': 'QCAgICCEsgsDBwUHAQw0xi9Fcg=='}]}
0:05:31.718001	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 84, FCnt: 0bb2, FOpts: 03070507), FPort: 01, FRMPayload: 05a4, MIC: c62f4572)
0:05:31.719001	LOG	Server <---------- DUT
0:05:31.720999	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:05:31.721999	LOG	Command Answer: 03070507
0:05:31.776967	LOG	MAC command communication completed
0:05:31.789959	LOG	Send Test Command EchoPayloadReq process starts
0:05:36.702219	LOG	PUSH_ACK: 02 100a 01

0:05:36.704218	LOG	PUSH_DATA: Protocol version = 02, Token = 100a, Identifier = 00, JSON = {'rxpk': [{'tmst': 2998163067, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -44, 'size': 17, 'data': 'QCAgICCCswsFBwHkUhURcS8='}]}
0:05:36.705218	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0bb3, FOpts: 0507), FPort: 01, FRMPayload: 05a4, MIC: 1511712f)
0:05:36.707217	LOG	Server <---------- DUT
0:05:36.709216	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07c9, FOpts:), FPort: e0, FRMPayload: 0801010101010101010101

0:05:46.741060	LOG	Frame command sent to the DUT
0:05:46.743059	LOG	PULL_RESP: Protocol version = 02, Token = e7aa, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3010168241, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 256, 'data': 'YCAgICAAygfgMZiT5qh6QM6n009wL3X0P0uolNZa7ELvuAtLOSGxDFkp7F7oRhpao9gFXda2eFk1Lb6+ysOFKAN+lHgqAVENrXrTEmiunPaxU0aQVA6UbpwYRi/u15Pll2R4itSBgZyPo+B7v4mbHmgsKWJvtagUQSLihAZ/wzJEildU3RiT1ENgYof9ED18e8eijn6KoDOgN7jACtsvmjac0aZw2lGQxruE8Z3Mg8thYpQm1+TXs9A8AlowN/ZxbTabkSQ4Q4dpNoTufQDcoIfa5Leqe2ptn1dBc6LcVZxdrBULjc7ASMA7sv95yXBa3t2xlfKYe9Ca7gaV0UHMqw==''}}
0:05:46.744057	LOG	Server ----------> DUT
0:05:46.747057	LOG	TX_ACK: 02 e7aa 05 aa555a0000240409
0:05:51.572082	LOG	PULL_DATA: 02 de78 02 aa555a0000240409
0:05:51.574082	LOG	PULL_ACK: 02 de78 04
0:05:51.719999	LOG	PUSH_ACK: 02 100e 01
0:05:51.722998	LOG	PUSH_DATA: Protocol version = 02, Token = 100e, Identifier = 00, JSON = {'rxpk': [{'tmst': 3013170838, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCtgsFBwGT/lx7BFc='}]}
0:05:51.723997	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0bb6, FOpts: 0507), FPort: 01, FRMPayload: 05a4, MIC: 5c7b0457)
0:05:51.725996	LOG	Server <---------- DUT
0:05:51.726995	LOG	Packet received from unexpected FPort 01
0:05:56.725161	LOG	PUSH_ACK: 02 1010 01
0:05:56.727160	LOG	PUSH_DATA: Protocol version = 02, Token = 1010, Identifier = 00, JSON = {'rxpk': [{'tmst': 3018173423, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCtwsFBwEoQYBVKjw='}]}
0:05:56.729159	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0bb7, FOpts: 0507), FPort: 01, FRMPayload: 05a4, MIC: 80552a3c)
0:05:56.731158	LOG	Server <---------- DUT
0:05:56.732157	LOG	Resend the Frame command. May the DUT did not listen
0:05:56.735156	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07cb, FOpts:), FPort: e0, FRMPayload: 08010101010101010101

0:06:01.718481	LOG	PUSH_DATA: Protocol version = 02, Token = 1012, Identifier = 00, JSON = {'rxpk': [{'tmst': 3023176018, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCuAsFBwHQTUq71rQ='}]}
0:06:01.720480	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0bb8, FOpts: 0507), FPort: 01, FRMPayload: 05a4, MIC: 4abbd6b4)
0:06:01.722479	LOG	Server <---------- DUT
0:06:01.723478	LOG	Packet received from unexpected FPort 01
0:06:01.782445	LOG	PULL_DATA: 02 16ad 02 aa555a0000240409
0:06:01.783476	LOG	PULL_ACK: 02 16ad 04
0:06:06.704653	LOG	PUSH_ACK: 02 1013 01
0:06:06.706652	LOG	PUSH_DATA: Protocol version = 02, Token = 1013, Identifier = 00, JSON = {'rxpk': [{'tmst': 3028178600, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -44, 'size': 17, 'data': 'QCAgICCCuQsFBwEJtgq2H+g='}]}
0:06:06.707653	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0bb9, FOpts: 0507), FPort: 01, FRMPayload: 05a4, MIC: 0ab61fe8)
0:06:06.708653	LOG	Server <---------- DUT
0:06:06.710650	LOG	Packet received from unexpected FPort 01
0:06:11.744797	LOG	PUSH_ACK: 02 1014 01
0:06:11.747793	LOG	PUSH_DATA: Protocol version = 02, Token = 1014, Identifier = 00, JSON = {'rxpk': [{'tmst': 3033181199, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -44, 'size': 17, 'data': 'QCAgICCCugsFBwHXBL9wXCI='}]}
0:06:11.748794	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0bba, FOpts: 0507), FPort: 01, FRMPayload: 05a4, MIC: bf705c22)
0:06:11.750793	LOG	Server <---------- DUT
0:06:11.751792	LOG	Packet received from unexpected FPort 01
0:06:11.862608	LOG	PULL_DATA: 02 2151 02 aa555a0000240409
0:06:11.864605	LOG	PULL_ACK: 02 2151 04
0:06:16.733843	LOG	PUSH_ACK: 02 1015 01
0:06:16.736842	LOG	PUSH_DATA: Protocol version = 02, Token = 1015, Identifier = 00, JSON = {'rxpk': [{'tmst': 3038183801, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCuwsFBwGDAnmXb18='}]}
0:06:16.737841	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0bbb, FOpts: 0507), FPort: 01, FRMPayload: 05a4, MIC: 79976f5f)
0:06:16.739840	LOG	Server <---------- DUT
0:06:16.740839	LOG	Packet received from unexpected FPort 01
0:06:21.723436	LOG	PUSH_ACK: 02 1016 01
0:06:21.725435	LOG	PUSH_DATA: Protocol version = 02, Token = 1016, Identifier = 00, JSON = {'rxpk': [{'tmst': 3043186390, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCvAsFBwEfqmkgPQM='}]}
0:06:21.727434	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0bbc, FOpts: 0507), FPort: 01, FRMPayload: 05a4, MIC: 69203d03)
0:06:21.729432	LOG	Server <---------- DUT
0:06:21.730432	LOG	Packet received from unexpected FPort 01
0:06:21.738446	LOG	Send LinkADRReq process starts
0:06:21.942605	LOG	PULL_DATA: 02 2e21 02 aa555a0000240409
0:06:21.943605	LOG	PULL_ACK: 02 2e21 04
0:06:26.724989	LOG	PUSH_ACK: 02 1018 01
0:06:26.726988	LOG	PUSH_DATA: Protocol version = 02, Token = 1018, Identifier = 00, JSON = {'rxpk': [{'tmst': 3048188970, 'chan': 9, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'FSK', 'datr': 50000, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCvQsFBwFBynXNa60='}]}
0:06:26.728987	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0bbd, FOpts: 0507), FPort: 01, FRMPayload: 05a4, MIC: 75cd6bad)
0:06:26.729986	LOG	Server <---------- DUT
0:06:26.732985	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07cc, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: 88deaee8)

0:06:26.735983	LOG	PULL_RESP: Protocol version = 02, Token = 11a3, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3050188970, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAzAcA/QqSzHuI3q7o'}}
0:06:26.737982	LOG	Server ----------> DUT
0:06:26.740980	LOG	TX_ACK: 02 11a3 05 aa555a0000240409
0:06:31.801891	LOG	PUSH_ACK: 02 101a 01
0:06:31.803890	LOG	PUSH_DATA: Protocol version = 02, Token = 101a, Identifier = 00, JSON = {'rxpk': [{'tmst': 3053238988, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCvgsDBwHA06uWsNc='}]}
0:06:31.805908	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0bbe, FOpts: 0307), FPort: 01, FRMPayload: 05a4, MIC: ab96b0d7)
0:06:31.807889	LOG	Server <---------- DUT
0:06:31.808906	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:06:31.810887	LOG	Command Answer: 0307
0:06:31.817882	LOG	MAC command communication completed
0:06:31.820881	LOG	Send NewChannelReq process starts
0:06:31.981836	LOG	PULL_DATA: 02 702d 02 aa555a0000240409
0:06:31.984834	LOG	PULL_ACK: 02 702d 04
0:06:36.790109	LOG	PUSH_ACK: 02 101b 01
0:06:36.792108	LOG	PUSH_DATA: Protocol version = 02, Token = 101b, Identifier = 00, JSON = {'rxpk': [{'tmst': 3058236452, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICCAvwsB7H0hRiJS'}]}
0:06:36.794107	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0bbf, FOpts:), FPort: 01, FRMPayload: 05a4, MIC: 21462252)
0:06:36.795107	LOG	Server <---------- DUT
0:06:36.796108	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07cd, FOpts:), FPort: 00, FRMPayload: 070400000050), MIC: 9ecff536)
0:06:36.799105	LOG	PULL_RESP: Protocol version = 02, Token = 5459, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3060236452, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 19, 'data': 'YCAgICAAzQcAd1MDx+mZns/1Ng=='}}
0:06:36.800104	LOG	Server ----------> DUT
0:06:36.803102	LOG	TX_ACK: 02 5459 05 aa555a0000240409
0:06:41.796622	LOG	PUSH_ACK: 02 101d 01
0:06:41.801618	LOG	PUSH_DATA: Protocol version = 02, Token = 101d, Identifier = 00, JSON = {'rxpk': [{'tmst': 3063244183, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCwAsHAwFEDCj+zHg='}]}
0:06:41.802618	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0bc0, FOpts: 0703), FPort: 01, FRMPayload: 05a4, MIC: 28fecc78)
0:06:41.804617	LOG	Server <---------- DUT
0:06:41.806615	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:06:41.807616	LOG	Command Answer: 0703
0:06:41.813614	LOG	MAC command communication completed
0:06:41.815612	LOG	End Test Step: Uplink - Oversized Payload via Echo for datarate FSK
0:06:41.818611	LOG	Partial Verdict: PASS
0:06:41.822609	LOG	==========
0:06:41.826606	LOG	==========
0:06:41.829602	LOG	Start Test Step: Restore default settings
0:06:41.845594	LOG	Send LinkADRReq process starts
0:06:42.051685	LOG	PULL_DATA: 02 7ea2 02 aa555a0000240409

0:06:42.053684	LOG	PULL_ACK: 02 7ea2 04
0:06:46.788101	LOG	PUSH_ACK: 02 101e 01
0:06:46.790100	LOG	PUSH_DATA: Protocol version = 02, Token = 101e, Identifier = 00, JSON = {'rxpk': [{'tmst': 3068241647, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAwQsBilKUzZnG'}]}
0:06:46.792098	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0bc1, FOpts:), FPort: 01, FRMPayload: 05a4, MIC: 94cd99c6)
0:06:46.793098	LOG	Server <---------- DUT
0:06:46.796096	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07ce, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: fa05d773)
0:06:46.799095	LOG	PULL_RESP: Protocol version = 02, Token = 5a59, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3070241647, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAzgcAtP8bUjT6Bddz'}}
0:06:46.800094	LOG	Server ----------> DUT
0:06:46.804092	LOG	TX_ACK: 02 5a59 05 aa555a0000240409
0:06:51.802976	LOG	PUSH_ACK: 02 101f 01
0:06:51.807974	LOG	PUSH_DATA: Protocol version = 02, Token = 101f, Identifier = 00, JSON = {'rxpk': [{'tmst': 3073249369, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCwgsDBwGeIr1DO0I='}]}
0:06:51.809973	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0bc2, FOpts: 0307), FPort: 01, FRMPayload: 05a4, MIC: bd433b42)
0:06:51.812971	LOG	Server <---------- DUT
0:06:51.817969	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:06:51.821986	LOG	Command Answer: 0307
0:06:51.834962	LOG	MAC command communication completed
0:06:51.840961	LOG	Send RXParamSetupReq process starts
0:06:52.262297	LOG	PULL_DATA: 02 9e49 02 aa555a0000240409
0:06:52.264296	LOG	PULL_ACK: 02 9e49 04
0:06:56.805728	LOG	PUSH_ACK: 02 1021 01
0:06:56.807730	LOG	PUSH_DATA: Protocol version = 02, Token = 1021, Identifier = 00, JSON = {'rxpk': [{'tmst': 3078246825, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAwwsBCzd6/n5I'}]}
0:06:56.808727	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0bc3, FOpts:), FPort: 01, FRMPayload: 05a4, MIC: 7afe7e48)
0:06:56.810726	LOG	Server <---------- DUT
0:06:56.811725	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07cf, FOpts:), FPort: 00, FRMPayload: 0500d2ad84), MIC: 194f64e0)
0:06:56.813724	LOG	PULL_RESP: Protocol version = 02, Token = 88a6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3080246825, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF7BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAAzwcAn2R5ZOcZT2Tg'}}
0:06:56.814723	LOG	Server ----------> DUT
0:06:56.817722	LOG	TX_ACK: 02 88a6 05 aa555a0000240409
0:07:01.807238	LOG	PUSH_ACK: 02 1022 01
0:07:01.810237	LOG	PUSH_DATA: Protocol version = 02, Token = 1022, Identifier = 00, JSON = {'rxpk': [{'tmst': 3083254538, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 17, 'data': 'QCAgICCCxAsFBwGfy6JibXU='}]}
0:07:01.812236	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0bc4, FOpts: 0507), FPort: 01, FRMPayload: 05a4, MIC: a2626d75)
0:07:01.813235	LOG	Server <---------- DUT

0:07:01.815234	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:07:01.816234	LOG	Command Answer: 0507
0:07:01.829227	LOG	MAC command communication completed
0:07:01.832225	LOG	Send Test Command RegionalDutyCycleCtrlReq process starts
0:07:02.272255	LOG	PULL_DATA: 02 2860 02 aa555a0000240409
0:07:02.274254	LOG	PULL_ACK: 02 2860 04
0:07:06.797689	LOG	PUSH_ACK: 02 1024 01
0:07:06.799687	LOG	PUSH_DATA: Protocol version = 02, Token = 1024, Identifier = 00, JSON = {'rxpk': [{'tmst': 3088257130, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -46, 'size': 17, 'data': 'QCAgICCCxQsFBwFjLtvDbXc='}]}
0:07:06.801686	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0bc5, FOpts: 0507), FPort: 01, FRMPayload: 05a4, MIC: dbc36d77)
0:07:06.803685	LOG	Server <---------- DUT
0:07:06.805684	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07d0, FOpts:), FPort: e0, FRMPayload: 0501), MIC: ffcc06e3)
0:07:06.808682	LOG	Frame command sent to the DUT
0:07:06.809681	LOG	PULL_RESP: Protocol version = 02, Token = ed2a, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3090257130, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAA0AfgBnD/zAbj'}}
0:07:06.811680	LOG	Server ----------> DUT
0:07:06.817677	LOG	Send Test Command RegionalDutyCycleCtrlReq process completed
0:07:06.822674	LOG	End Test Step: Restore default settings
0:07:06.826672	LOG	Partial Verdict: PASS
0:07:06.831669	LOG	==========
0:07:06.837666	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_019_B
0:07:06.839664	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_020	
Verdict	PASS	
Date	2021-10-18 04:44:26	
Comments	MAC Command(s) in App-Payload and/or Frame Options	
Technology Version	LCTT v3.1.0_D1 | GUI v1.10.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.1	
Test Specs Version	USv1.5.1/EUv1.6/KRv1.2.1/ASv1.1.1/INv1.1.1/ALLv1.1	
Project	MLSv2.0.0	
Project Creation Date	2021-10-17 22:25:22	
Sample	DevID:SAMR34-XPRO | AppID:CertApp_EU_ABP | SW:MLSv2.0.0 | HW:SAMR34J18B	
Parameters	Conformance	TRUE

Time Stamp (ms)	Event	Summary
0:00:00.014273	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_020
0:00:00.053250	LOG	==========
0:00:00.055249	LOG	Start Test Step: Device activation
0:00:00.110218	LOG	Activation process has finished successfully
0:00:00.113217	LOG	Data stored in the DUT after Activation:
0:00:00.115217	LOG	DevAddr: 20202020
0:00:00.117213	LOG	AppEUI: abcdabcdabcdabcd
0:00:00.121211	LOG	NwkSKey: abcdabcdabcdabcdabcdabcdabcdabcd
0:00:00.123210	LOG	AppSKey: 12345678123456781234567812345678
0:00:00.126208	LOG	End Test Step: Device activation
0:00:00.129206	LOG	Partial Verdict: PASS

0:00:00.133204	LOG	==========
0:00:00.138201	LOG	==========
0:00:00.140200	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.150195	LOG	DUT Pre-condition activation process starts
0:00:00.152194	LOG	DUT Pre-condition activation completed
0:00:00.155192	LOG	End Test Step: DUT Pre-condition settings
0:00:00.159190	LOG	Partial Verdict: PASS
0:00:00.163187	LOG	==========
0:00:00.168184	LOG	==========
0:00:00.170184	LOG	Start Test Step: MAC Commands in App-Payload (FRMPayload) only (FPort = 0)
0:00:00.180178	LOG	Send MAC command block process starts
0:00:01.712356	LOG	PUSH_DATA received while waiting first PULL_DATA
0:00:02.398963	LOG	PULL_DATA: 02 bb78 02 aa555a0000240409
0:00:02.400962	LOG	PULL_ACK: 02 bb78 04
0:00:02.402961	LOG	First PULL_DATA received
0:00:06.701527	LOG	PUSH_ACK: 02 1026 01
0:00:06.708521	LOG	PUSH_DATA: Protocol version = 02, Token = 1026, Identifier = 00, JSON = {'rxpk': [{'tmst': 3098257148, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAxwsBAqY3LfRb'}]}
0:00:06.713518	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0bc7, FOpts:), FPort: 01, FRMPayload: 05a5, MIC: 372df45b)
0:00:06.717516	LOG	Server <---------- DUT
0:00:06.722513	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07d1, FOpts:), FPort: 00, FRMPayload: 060502d2ad8408010350000061), MIC: faec83e8)
0:00:06.728513	LOG	PULL_RESP: Protocol version = 02, Token = e3f9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3100257148, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 26, 'data': 'YCAgICAA0QcArI6uURkjfOWt3Bs4L/rsg+g='}}
0:00:06.730507	LOG	Server ----------> DUT
0:00:06.733505	LOG	TX_ACK: 02 e3f9 05 aa555a0000240409
0:00:11.726675	LOG	PUSH_ACK: 02 1027 01
0:00:11.729673	LOG	PUSH_DATA: Protocol version = 02, Token = 1027, Identifier = 00, JSON = {'rxpk': [{'tmst': 3103275174, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -46, 'size': 23, 'data': 'QCAgICCIyAsGAAYFBwgDBwERI0ByT2M='}]}
0:00:11.730673	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 88, FCnt: 0bc8, FOpts: 0600060507080307), FPort: 01, FRMPayload: 05a5, MIC: 40724f63)
0:00:11.731676	LOG	Server <---------- DUT
0:00:11.732671	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:11.734670	LOG	Command Answer: 0600060507080307
0:00:11.812624	LOG	MAC command communication completed
0:00:11.814624	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:12.609173	LOG	PULL_DATA: 02 8b3c 02 aa555a0000240409
0:00:12.611172	LOG	PULL_ACK: 02 8b3c 04
0:00:21.759985	LOG	PUSH_ACK: 02 1029 01
0:00:21.761984	LOG	PUSH_DATA: Protocol version = 02, Token = 1029, Identifier = 00, JSON = {'rxpk': [{'tmst': 3113270030, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -45, 'size': 18, 'data': 'QCAgICCDyQsFBwgBP8hg6+Ns'}]}
0:00:21.763982	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 83, FCnt: 0bc9, FOpts: 050708), FPort: 01, FRMPayload: 05a5, MIC: 60ebe36c)
0:00:21.764983	LOG	Server <---------- DUT

0:00:21.766980	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07d2, FOpts:), FPort: e0, FRMPayload: 0700), MIC: ed70aebd)
0:00:21.768981	LOG	Frame command sent to the DUT
0:00:21.770977	LOG	PULL_RESP: Protocol version = 02, Token = d412, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3115270030, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAA0gfgweHtcK69'}}
0:00:21.772978	LOG	Server ----------> DUT
0:00:21.775976	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:21.778974	LOG	End Test Step: MAC Commands in App-Payload (FRMPayload) only (FPort = 0)
0:00:21.782970	LOG	Partial Verdict: PASS
0:00:21.787967	LOG	==========
0:00:21.793964	LOG	==========
0:00:21.796980	LOG	Start Test Step: MAC Commands in Frame Options (FOpts) only (FPort != 0)
0:00:21.808955	LOG	Send MAC command block process starts
0:00:22.818383	LOG	PULL_DATA: 02 0948 02 aa555a0000240409
0:00:22.821381	LOG	PULL_ACK: 02 0948 04
0:00:31.764309	LOG	PUSH_ACK: 02 102a 01
0:00:31.768307	LOG	PUSH_DATA: Protocol version = 02, Token = 102a, Identifier = 00, JSON = {'rxpk': [{'tmst': 3123270045, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAygsBKzerpR8R'}]}
0:00:31.770307	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0bca, FOpts:), FPort: 01, FRMPayload: 05a6, MIC: aba51f11)
0:00:31.771325	LOG	Server <---------- DUT
0:00:31.773307	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 0d, FCnt: 07d3, FOpts: 060502d2ad8408010350000061), FPort: , FRMPayload:), MIC: b283c028)
0:00:31.776305	LOG	PULL_RESP: Protocol version = 02, Token = ea3d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3125270045, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 25, 'data': 'YCAgICAN0wcGBQLSrYQIAQNQAABhsoPAKA=='}}
0:00:31.777304	LOG	Server ----------> DUT
0:00:31.781301	LOG	TX_ACK: 02 ea3d 05 aa555a0000240409
0:00:32.828705	LOG	PULL_DATA: 02 089e 02 aa555a0000240409
0:00:32.830705	LOG	PULL_ACK: 02 089e 04
0:00:36.760495	LOG	PUSH_ACK: 02 102b 01
0:00:36.762476	LOG	PUSH_DATA: Protocol version = 02, Token = 102b, Identifier = 00, JSON = {'rxpk': [{'tmst': 3128288094, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 23, 'data': 'QCAgICCIywsGAAYFBwgDBwE/S9ynkLI='}]}
0:00:36.763475	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 88, FCnt: 0bcb, FOpts: 0600060507080307), FPort: 01, FRMPayload: 05a6, MIC: dca790b2)
0:00:36.765474	LOG	Server <---------- DUT
0:00:36.767472	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:36.768472	LOG	Command Answer: 0600060507080307
0:00:36.848428	LOG	MAC command communication completed
0:00:36.851427	LOG	Send Test Command TxFramesCtrlReq process starts
0:00:42.908989	LOG	PULL_DATA: 02 3296 02 aa555a0000240409
0:00:42.910988	LOG	PULL_ACK: 02 3296 04
0:00:46.745815	LOG	PUSH_ACK: 02 102d 01
0:00:46.746815	LOG	PUSH_DATA: Protocol version = 02, Token = 102d, Identifier = 00, JSON = {'rxpk': [{'tmst': 3138282950, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.2, 'rssi': -45, 'size': 18, 'data': 'QCAgICCDzAsFBwgBzVGIWy7E'}]}

0:00:46.748812	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 83, FCnt: 0bcc, FOpts: 050708), FPort: 01, FRMPayload: 05a6, MIC: 885b2ec4)
0:00:46.749811	LOG	Server <---------- DUT
0:00:46.750812	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07d4, FOpts:), FPort: e0, FRMPayload: 0700), MIC: c2557512)
0:00:46.753811	LOG	Frame command sent to the DUT
0:00:46.754809	LOG	PULL_RESP: Protocol version = 02, Token = cfbd, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3140282950, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAA1AfgOZ/CVXUS'}}
0:00:46.755808	LOG	Server ----------> DUT
0:00:46.758808	LOG	Send Test Command TxFramesCtrlReq process completed
0:00:46.761805	LOG	End Test Step: MAC Commands in Frame Options (FOpts) only (FPort != 0)
0:00:46.764803	LOG	Partial Verdict: PASS
0:00:46.768801	LOG	==========
0:00:46.772798	LOG	==========
0:00:46.774798	LOG	Start Test Step: MAC Commands in App-Payload (FRMPayload) and FOpts
0:00:46.783792	LOG	Send Test Command RxAppCntReq process starts
0:00:53.058233	LOG	PULL_DATA: 02 2a5b 02 aa555a0000240409
0:00:53.061232	LOG	PULL_ACK: 02 2a5b 04
0:00:56.727158	LOG	PUSH_ACK: 02 102f 01
0:00:56.730153	LOG	PUSH_DATA: Protocol version = 02, Token = 102f, Identifier = 00, JSON = {'rxpk': [{'tmst': 3148282962, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 11.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAzQsB37kGgDGk'}]}
0:00:56.731152	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0bcd, FOpts:), FPort: 01, FRMPayload: 05a7, MIC: 068031a4)
0:00:56.732182	LOG	Server <---------- DUT
0:00:56.734180	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07d5, FOpts:), FPort: e0, FRMPayload: 09), MIC: 6592b5f8)
0:00:56.737178	LOG	Frame command sent to the DUT
0:00:56.739148	LOG	PULL_RESP: Protocol version = 02, Token = 1bbc, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3150282962, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAA1QfgqmWStfg='}}
0:00:56.740147	LOG	Server ----------> DUT
0:00:56.745144	LOG	TX_ACK: 02 1bbc 05 aa555a0000240409
0:01:01.741940	LOG	PUSH_ACK: 02 1030 01
0:01:01.743937	LOG	PUSH_DATA: Protocol version = 02, Token = 1030, Identifier = 00, JSON = {'rxpk': [{'tmst': 3153293604, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 16, 'data': 'QCAgICCAzgvgxyipGKw4IQ=='}]}
0:01:01.744937	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0bce, FOpts:), FPort: e0, FRMPayload: 09a805, MIC: 18ac3821)
0:01:01.745938	LOG	Server <---------- DUT
0:01:01.747936	LOG	Answer in payload: a805
0:01:01.748935	LOG	Frame Command Payload in the Answer: 09a805
0:01:01.753932	LOG	RX Count received by DUT: 1448
0:01:01.755931	LOG	Send Test Command RxAppCntReq process completed
0:01:01.758932	LOG	Send MAC command block in FOpts and FRMPayload process starts
0:01:03.248329	LOG	PULL_DATA: 02 ca42 02 aa555a0000240409
0:01:03.253327	LOG	PULL_ACK: 02 ca42 04
0:01:11.766498	LOG	PUSH_ACK: 02 1031 01
0:01:11.768497	LOG	PUSH_DATA: Protocol version = 02, Token = 1031, Identifier = 00, JSON = {'rxpk': [{'tmst': 3163290692, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu':

		'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICCAzwsB41yalK8b'}]}
0:01:11.769496	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0bcf, FOpts:), FPort: 01, FRMPayload: 05a8, MIC: 9a94af1b)
0:01:11.770496	LOG	Server <---------- DUT
0:01:11.772495	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 0f, FCnt: 07d6, FOpts: 03000000610300000061050 2d2ad84), FPort: 00, FRMPayload: 0350000061080106), MIC: 59cc4b58)
0:01:11.774494	LOG	PULL_RESP: Protocol version = 02, Token = 70a6, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3165290692, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 36, 'data': 'YCAgICAP1gcDAAAAYQMAAABhBQLSrYQAaWp0IM+znStZzEtY'}}
0:01:11.775493	LOG	Server ----------> DUT
0:01:11.779491	LOG	TX_ACK: 02 70a6 05 aa555a0000240409
0:01:13.458910	LOG	PULL_DATA: 02 46a9 02 aa555a0000240409
0:01:13.460909	LOG	PULL_ACK: 02 46a9 04
0:01:16.397214	LOG	PUSH_ACK: 02 1033 01
0:01:16.399213	LOG	PUSH_DATA: Protocol version = 02, Token = 1033, Identifier = 00, JSON = {'rxpk': [{'tmst': 3167915039, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCAzwsB41yalK8b'}]}
0:01:16.401211	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0bcf, FOpts:), FPort: 01, FRMPayload: 05a8, MIC: 9a94af1b)
0:01:16.402210	LOG	Server <---------- DUT
0:01:16.404210	LOG	MAC command not received because FPort field is not set to 0 and FOpts field is empty
0:01:16.408208	LOG	MAC command communication completed
0:01:16.411205	LOG	Send MAC command block in FOpts and FRMPayload process starts
0:01:21.747594	LOG	PUSH_ACK: 02 1034 01
0:01:21.750594	LOG	PUSH_DATA: Protocol version = 02, Token = 1034, Identifier = 00, JSON = {'rxpk': [{'tmst': 3173295855, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -44, 'size': 15, 'data': 'QCAgICCA0QsB1vF91oGl'}]}
0:01:21.752591	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0bd1, FOpts:), FPort: 01, FRMPayload: 05a8, MIC: 7dd681a5)
0:01:21.753590	LOG	Server <---------- DUT
0:01:21.754590	LOG	PHYPayload: (MHDR: a0, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 0f, FCnt: 07d7, FOpts: 03000000610300000061050 2d2ad84), FPort: 00, FRMPayload: 0350000061080106), MIC: 044ada76)
0:01:21.756589	LOG	PULL_RESP: Protocol version = 02, Token = ea56, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3175295855, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 36, 'data': 'oCAgICAP1wcDAAAAYQMAAABhBQLSrYQAWYmoQ94ClZAEStp2'}}
0:01:21.758592	LOG	Server ----------> DUT
0:01:21.763584	LOG	TX_ACK: 02 ea56 05 aa555a0000240409
0:01:23.648398	LOG	PULL_DATA: 02 ba5c 02 aa555a0000240409
0:01:23.650378	LOG	PULL_ACK: 02 ba5c 04
0:01:26.404816	LOG	PUSH_ACK: 02 1035 01
0:01:26.406817	LOG	PUSH_DATA: Protocol version = 02, Token = 1035, Identifier = 00, JSON = {'rxpk': [{'tmst': 3177920191, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -44, 'size': 15, 'data': 'QCAgICCA0QsB1vF91oGl'}]}
0:01:26.407816	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0bd1, FOpts:), FPort: 01, FRMPayload: 05a8, MIC: 7dd681a5)
0:01:26.408816	LOG	Server <---------- DUT

0:01:26.410813	LOG	MAC command not received because FPort field is not set to 0 and FOpts field is empty
0:01:26.411812	LOG	Confirmed wrong MAC Command. MAC Command answer received with ACK bit to 0
0:01:26.414812	LOG	MAC command communication completed
0:01:26.416811	LOG	Send Test Command RxAppCntReq process starts
0:01:31.754784	LOG	PUSH_ACK: 02 1036 01
0:01:31.755782	LOG	PUSH_DATA: Protocol version = 02, Token = 1036, Identifier = 00, JSON = {'rxpk': [{'tmst': 3183301015, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA0wsBrj6aLlNL'}]}
0:01:31.757781	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0bd3, FOpts:), FPort: 01, FRMPayload: 05a8, MIC: 9a2e534b)
0:01:31.759779	LOG	Server <---------- DUT
0:01:31.761780	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07d8, FOpts:), FPort: e0, FRMPayload: 09), MIC: 70425d72)
0:01:31.763779	LOG	Frame command sent to the DUT
0:01:31.764778	LOG	PULL_RESP: Protocol version = 02, Token = 2642, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3185301015, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAA2Afg43BCXXI='}}
0:01:31.766777	LOG	Server ----------> DUT
0:01:31.770792	LOG	TX_ACK: 02 2642 05 aa555a0000240409
0:01:33.657817	LOG	PULL_DATA: 02 56db 02 aa555a0000240409
0:01:33.661815	LOG	PULL_ACK: 02 56db 04
0:01:36.760057	LOG	PUSH_ACK: 02 1037 01
0:01:36.762057	LOG	PUSH_DATA: Protocol version = 02, Token = 1037, Identifier = 00, JSON = {'rxpk': [{'tmst': 3188311665, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 16, 'data': 'QCAgICCA1AvgteOdjCOyGQ=='}]}
0:01:36.763055	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0bd4, FOpts:), FPort: e0, FRMPayload: 09a905, MIC: 8c23b219)
0:01:36.764057	LOG	Server <---------- DUT
0:01:36.765057	LOG	Answer in payload: a905
0:01:36.767055	LOG	Frame Command Payload in the Answer: 09a905
0:01:36.770052	LOG	RX Count received by DUT: 1449
0:01:36.772052	LOG	Send Test Command RxAppCntReq process completed
0:01:36.777050	LOG	End Test Step: MAC Commands in App-Payload (FRMPayload) and FOpts
0:01:36.781047	LOG	Partial Verdict: PASS
0:01:36.784046	LOG	==========
0:01:36.789042	LOG	==========
0:01:36.791040	LOG	Start Test Step: Incorrect MAC Commands
0:01:36.802033	LOG	Send LinkADRReq process starts
0:01:43.738100	LOG	PULL_DATA: 02 ad84 02 aa555a0000240409
0:01:43.740099	LOG	PULL_ACK: 02 ad84 04
0:01:46.796365	LOG	PUSH_ACK: 02 1039 01
0:01:46.798364	LOG	PUSH_DATA: Protocol version = 02, Token = 1039, Identifier = 00, JSON = {'rxpk': [{'tmst': 3198308753, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCA1QsBjCyWFOJR'}]}
0:01:46.800364	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0bd5, FOpts:), FPort: 01, FRMPayload: 05a9, MIC: 9614e251)
0:01:46.801363	LOG	Server <---------- DUT
0:01:46.803361	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07d9, FOpts:), FPort: 00, FRMPayload: 0380000000), MIC: 59e0eacb)

0:01:46.805362	LOG	PULL_RESP: Protocol version = 02, Token = 8a09, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3200308753, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAA2QcAxxlOzCNZ4OrL'}}
0:01:46.806362	LOG	Server ----------> DUT
0:01:46.811357	LOG	TX_ACK: 02 8a09 05 aa555a0000240409
0:01:51.809523	LOG	PUSH_ACK: 02 103a 01
0:01:51.811521	LOG	PUSH_DATA: Protocol version = 02, Token = 103a, Identifier = 00, JSON = {'rxpk': [{'tmst': 3203316485, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -44, 'size': 17, 'data': 'QCAgICCC1gsDBAFfTcmors8='}]}
0:01:51.813520	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0bd6, FOpts: 0304), FPort: 01, FRMPayload: 05a9, MIC: c9a8aecf)
0:01:51.814520	LOG	Server <---------- DUT
0:01:51.816519	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:01:51.818517	LOG	Command Answer: 0304
0:01:51.822515	LOG	MAC command communication completed
0:01:51.826512	LOG	Answer received from DUT: 04
0:01:51.830511	LOG	Send LinkADRReq process starts
0:01:53.948309	LOG	PULL_DATA: 02 fc1d 02 aa555a0000240409
0:01:53.950309	LOG	PULL_ACK: 02 fc1d 04
0:02:01.783866	LOG	PUSH_ACK: 02 103b 01
0:02:01.785865	LOG	PUSH_DATA: Protocol version = 02, Token = 103b, Identifier = 00, JSON = {'rxpk': [{'tmst': 3213316517, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA1wsBOn5QYevj'}]}
0:02:01.787864	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0bd7, FOpts:), FPort: 01, FRMPayload: 05a9, MIC: 5061ebe3)
0:02:01.788863	LOG	Server <---------- DUT
0:02:01.792861	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07da, FOpts:), FPort: 00, FRMPayload: 03010000), MIC: 01a3e9f0)
0:02:01.795859	LOG	PULL_RESP: Protocol version = 02, Token = 2051, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3215316517, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YCAgICAA2gcAJZKN3wGj6fA='}}
0:02:01.796858	LOG	Server ----------> DUT
0:02:01.801855	LOG	TX_ACK: 02 2051 05 aa555a0000240409
0:02:04.108548	LOG	PULL_DATA: 02 b27b 02 aa555a0000240409
0:02:04.113545	LOG	PULL_ACK: 02 b27b 04
0:02:06.765041	LOG	PUSH_ACK: 02 103c 01
0:02:06.768040	LOG	PUSH_DATA: Protocol version = 02, Token = 103c, Identifier = 00, JSON = {'rxpk': [{'tmst': 3218319078, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICCA2AsBtMah8Dwu'}]}
0:02:06.770038	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0bd8, FOpts:), FPort: 01, FRMPayload: 05a9, MIC: a1f03c2e)
0:02:06.771038	LOG	Server <---------- DUT
0:02:06.773037	LOG	MAC command not received because FPort field is not set to 0 and FOpts field is empty
0:02:11.808181	LOG	PUSH_ACK: 02 103d 01
0:02:11.810180	LOG	PUSH_DATA: Protocol version = 02, Token = 103d, Identifier = 00, JSON = {'rxpk': [{'tmst': 3223321654, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCA2QsBkeFJqkyV'}]}

0:02:11.812179	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0bd9, FOpts:), FPort: 01, FRMPayload: 05a9, MIC: 49aa4c95)
0:02:11.814177	LOG	Server <---------- DUT
0:02:11.816177	LOG	Resend the MAC command. May the DUT did not listen
0:02:11.818176	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07db, FOpts:), FPort: 00, FRMPayload: 03010000), MIC: 724d8ca3)
0:02:11.821174	LOG	PULL_RESP: Protocol version = 02, Token = 616d, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3225321654, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YCAgICAA2wcAHD6Rw3JNjKM='}}
0:02:11.823173	LOG	Server ----------> DUT
0:02:11.828170	LOG	TX_ACK: 02 616d 05 aa555a0000240409
0:02:14.137860	LOG	PULL_DATA: 02 bf50 02 aa555a0000240409
0:02:14.139858	LOG	PULL_ACK: 02 bf50 04
0:02:16.767369	LOG	PUSH_ACK: 02 103f 01
0:02:16.770367	LOG	PUSH_DATA: Protocol version = 02, Token = 103f, Identifier = 00, JSON = {'rxpk': [{'tmst': 3228324239, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA2gsBOD61jYc2'}]}
0:02:16.772366	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0bda, FOpts:), FPort: 01, FRMPayload: 05a9, MIC: b58d8736)
0:02:16.773365	LOG	Server <---------- DUT
0:02:16.775364	LOG	MAC command not received because FPort field is not set to 0 and FOpts field is empty
0:02:21.809509	LOG	PUSH_ACK: 02 1040 01
0:02:21.812507	LOG	PUSH_DATA: Protocol version = 02, Token = 1040, Identifier = 00, JSON = {'rxpk': [{'tmst': 3233326815, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA2wsBZmtVp6E+'}]}
0:02:21.813507	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0bdb, FOpts:), FPort: 01, FRMPayload: 05a9, MIC: 55a7a13e)
0:02:21.815505	LOG	Server <---------- DUT
0:02:21.817505	LOG	Resend the MAC command. May the DUT did not listen
0:02:21.818504	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07dc, FOpts:), FPort: 00, FRMPayload: 03010000), MIC: d4244e63)
0:02:21.821505	LOG	PULL_RESP: Protocol version = 02, Token = 4e6c, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3235326815, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YCAgICAA3AcA04nWJdQkTmM='}}
0:02:21.822504	LOG	Server ----------> DUT
0:02:21.829498	LOG	Send Unknown command process starts
0:02:24.338248	LOG	PULL_DATA: 02 c4e7 02 aa555a0000240409
0:02:24.340248	LOG	PULL_ACK: 02 c4e7 04
0:02:26.775866	LOG	PUSH_ACK: 02 1041 01
0:02:26.777865	LOG	PUSH_DATA: Protocol version = 02, Token = 1041, Identifier = 00, JSON = {'rxpk': [{'tmst': 3238329377, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCA3AsBKpv0X+qG'}]}
0:02:26.779864	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0bdc, FOpts:), FPort: 01, FRMPayload: 05a9, MIC: f45fea86)
0:02:26.780864	LOG	Server <---------- DUT
0:02:26.783862	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07dd, FOpts:), FPort: 00, FRMPayload: 7f), MIC: 45e9d494)
0:02:26.786860	LOG	PULL_RESP: Protocol version = 02, Token = 6f96, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3240329377, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr':

		'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAA3QcAkUXp1JQ='}}
0:02:26.787860	LOG	Server ----------> DUT
0:02:26.792857	LOG	TX_ACK: 02 6f96 05 aa555a0000240409
0:02:31.789024	LOG	PUSH_ACK: 02 1042 01
0:02:31.791023	LOG	PUSH_DATA: Protocol version = 02, Token = 1042, Identifier = 00, JSON = {'rxpk': [{'tmst': 3243331955, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA3QsBUnH1TjkI'}]}
0:02:31.793021	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0bdd, FOpts:), FPort: 01, FRMPayload: 05a9, MIC: f54e3908)
0:02:31.794021	LOG	Server <---------- DUT
0:02:31.796020	LOG	MAC command not received because FPort field is not set to 0 and FOpts field is empty
0:02:31.802016	LOG	Send MAC command block process starts
0:02:34.348572	LOG	PULL_DATA: 02 b17f 02 aa555a0000240409
0:02:34.352570	LOG	PULL_ACK: 02 b17f 04
0:02:36.779194	LOG	PUSH_ACK: 02 1043 01
0:02:36.781193	LOG	PUSH_DATA: Protocol version = 02, Token = 1043, Identifier = 00, JSON = {'rxpk': [{'tmst': 3248334531, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA3gsBvvgo7/i2'}]}
0:02:36.783192	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0bde, FOpts:), FPort: 01, FRMPayload: 05a9, MIC: 28eff8b6)
0:02:36.784193	LOG	Server <---------- DUT
0:02:36.786191	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07de, FOpts:), FPort: 00, FRMPayload: 0603010000), MIC: 098f5ba4)
0:02:36.788188	LOG	PULL_RESP: Protocol version = 02, Token = b9be, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3250334531, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAA3gcAl3zpsbsJj1uk'}}
0:02:36.789190	LOG	Server ----------> DUT
0:02:36.794185	LOG	TX_ACK: 02 b9be 05 aa555a0000240409
0:02:41.834329	LOG	PUSH_ACK: 02 1044 01
0:02:41.835328	LOG	PUSH_DATA: Protocol version = 02, Token = 1044, Identifier = 00, JSON = {'rxpk': [{'tmst': 3253342254, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -44, 'size': 18, 'data': 'QCAgICCD3wsGAAYBa5rvXp21'}]}
0:02:41.837325	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 83, FCnt: 0bdf, FOpts: 060006), FPort: 01, FRMPayload: 05a9, MIC: ef5e9db5)
0:02:41.838327	LOG	Server <---------- DUT
0:02:41.839326	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:41.840325	LOG	Command Answer: 060006
0:02:41.877304	LOG	MAC command communication completed
0:02:41.880302	LOG	Send MAC command block process starts
0:02:44.557782	LOG	PULL_DATA: 02 5f3c 02 aa555a0000240409
0:02:44.559781	LOG	PULL_ACK: 02 5f3c 04
0:02:51.819664	LOG	PUSH_ACK: 02 1046 01
0:02:51.822662	LOG	PUSH_DATA: Protocol version = 02, Token = 1046, Identifier = 00, JSON = {'rxpk': [{'tmst': 3263342278, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -44, 'size': 15, 'data': 'QCAgICCA4AsBkVuZQOjS'}]}
0:02:51.824661	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0be0, FOpts:), FPort: 01, FRMPayload: 05a9, MIC: 9940e8d2)
0:02:51.825661	LOG	Server <---------- DUT

0:02:51.827659	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07df, FOpts:), FPort: 00, FRMPayload: 03500000617f06), MIC: f9193245)
0:02:51.830658	LOG	PULL_RESP: Protocol version = 02, Token = b5c9, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3265342278, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 20, 'data': 'YCAgICAA3wcAnHJkDMVwqfkZMkU='}}
0:02:51.831657	LOG	Server ----------> DUT
0:02:51.836654	LOG	TX_ACK: 02 b5c9 05 aa555a0000240409
0:02:54.768551	LOG	PULL_DATA: 02 bb69 02 aa555a0000240409
0:02:54.771548	LOG	PULL_ACK: 02 bb69 04
0:02:56.841373	LOG	PUSH_ACK: 02 1047 01
0:02:56.843372	LOG	PUSH_DATA: Protocol version = 02, Token = 1047, Identifier = 00, JSON = {'rxpk': [{'tmst': 3268349977, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -44, 'size': 17, 'data': 'QCAgICCC4QsDBwGVp24QGDg='}]}
0:02:56.845374	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0be1, FOpts: 0307), FPort: 01, FRMPayload: 05a9, MIC: 6e101838)
0:02:56.846371	LOG	Server <---------- DUT
0:02:56.848369	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:02:56.849369	LOG	Command Answer: 0307
0:02:56.888366	LOG	MAC command communication completed
0:02:56.892362	LOG	Receive frame on specific channels process starts
0:02:56.902339	LOG	Attempt 1/15
0:03:04.848060	LOG	PULL_DATA: 02 85c3 02 aa555a0000240409
0:03:04.853058	LOG	PULL_ACK: 02 85c3 04
0:03:06.813945	LOG	PUSH_ACK: 02 1048 01
0:03:06.815946	LOG	PUSH_DATA: Protocol version = 02, Token = 1048, Identifier = 00, JSON = {'rxpk': [{'tmst': 3278350017, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA4gsBoXWEv0S4'}]}
0:03:06.817945	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0be2, FOpts:), FPort: 01, FRMPayload: 05a9, MIC: 84bf44b8)
0:03:06.818945	LOG	Server <---------- DUT
0:03:06.820942	LOG	Attempt 2/15
0:03:11.803522	LOG	PUSH_ACK: 02 1049 01
0:03:11.805520	LOG	PUSH_DATA: Protocol version = 02, Token = 1049, Identifier = 00, JSON = {'rxpk': [{'tmst': 3283352593, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA4wsBMSMeod0I'}]}
0:03:11.806522	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0be3, FOpts:), FPort: 01, FRMPayload: 05a9, MIC: 1ea1dd08)
0:03:11.807521	LOG	Server <---------- DUT
0:03:11.809520	LOG	Attempt 3/15
0:03:14.927945	LOG	PULL_DATA: 02 07b7 02 aa555a0000240409
0:03:14.929943	LOG	PULL_ACK: 02 07b7 04
0:03:16.814874	LOG	PUSH_ACK: 02 104b 01
0:03:16.816873	LOG	PUSH_DATA: Protocol version = 02, Token = 104b, Identifier = 00, JSON = {'rxpk': [{'tmst': 3288355169, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA5AsBPeeOMOgd'}]}
0:03:16.818872	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0be4, FOpts:), FPort: 01, FRMPayload: 05a9, MIC: 8e30e81d)
0:03:16.819872	LOG	Server <---------- DUT
0:03:16.820873	LOG	Attempt 4/15
0:03:21.804342	LOG	PUSH_ACK: 02 104c 01

0:03:21.805341	LOG	PUSH_DATA: Protocol version = 02, Token = 104c, Identifier = 00, JSON = {'rxpk': [{'tmst': 3293357745, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -43, 'size': 15, 'data': 'QCAgICCA5QsBDO6iNo3X'}]}
0:03:21.807340	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0be5, FOpts:), FPort: 01, FRMPayload: 05a9, MIC: a2368dd7)
0:03:21.808359	LOG	Server <---------- DUT
0:03:21.810339	LOG	Attempt 5/15
0:03:25.007707	LOG	PULL_DATA: 02 5932 02 aa555a0000240409
0:03:25.009705	LOG	PULL_ACK: 02 5932 04
0:03:26.843665	LOG	PUSH_ACK: 02 104d 01
0:03:26.846663	LOG	PUSH_DATA: Protocol version = 02, Token = 104d, Identifier = 00, JSON = {'rxpk': [{'tmst': 3298360329, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA5gsBFhd89txY'}]}
0:03:26.848663	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0be6, FOpts:), FPort: 01, FRMPayload: 05a9, MIC: 7cf6dc58)
0:03:26.850661	LOG	Server <---------- DUT
0:03:26.852660	LOG	Attempt 6/15
0:03:31.833835	LOG	PUSH_ACK: 02 104e 01
0:03:31.835834	LOG	PUSH_DATA: Protocol version = 02, Token = 104e, Identifier = 00, JSON = {'rxpk': [{'tmst': 3303362897, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA5wsBOoQBJ42F'}]}
0:03:31.836834	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0be7, FOpts:), FPort: 01, FRMPayload: 05a9, MIC: 01278d85)
0:03:31.837833	LOG	Server <---------- DUT
0:03:31.839832	LOG	Attempt 7/15
0:03:35.087888	LOG	PULL_DATA: 02 1224 02 aa555a0000240409
0:03:35.092885	LOG	PULL_ACK: 02 1224 04
0:03:36.821954	LOG	PUSH_ACK: 02 104f 01
0:03:36.823969	LOG	PUSH_DATA: Protocol version = 02, Token = 104f, Identifier = 00, JSON = {'rxpk': [{'tmst': 3308365465, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA6AsBLye/LgNR'}]}
0:03:36.825950	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0be8, FOpts:), FPort: 01, FRMPayload: 05a9, MIC: bf2e0351)
0:03:36.826950	LOG	Server <---------- DUT
0:03:36.827949	LOG	Attempt 8/15
0:03:41.812122	LOG	PUSH_ACK: 02 1050 01
0:03:41.816120	LOG	PUSH_DATA: Protocol version = 02, Token = 1050, Identifier = 00, JSON = {'rxpk': [{'tmst': 3313368025, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA6QsBUcVzTIlC'}]}
0:03:41.820118	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0be9, FOpts:), FPort: 01, FRMPayload: 05a9, MIC: 734c8942)
0:03:41.823116	LOG	Server <---------- DUT
0:03:41.827114	LOG	Attempt 9/15
0:03:45.168219	LOG	PULL_DATA: 02 7459 02 aa555a0000240409
0:03:45.170218	LOG	PULL_ACK: 02 7459 04
0:03:46.814286	LOG	PUSH_ACK: 02 1052 01
0:03:46.816285	LOG	PUSH_DATA: Protocol version = 02, Token = 1052, Identifier = 00, JSON = {'rxpk': [{'tmst': 3318370601, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 15, 'data': 'QCAgICCA6gsBd7YZy6Pu'}]}

0:03:46.817285	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0bea, FOpts:), FPort: 01, FRMPayload: 05a9, MIC: 19cba3ee)
0:03:46.818283	LOG	Server <---------- DUT
0:03:46.819283	LOG	Attempt 10/15
0:03:51.852713	LOG	PUSH_ACK: 02 1053 01
0:03:51.854710	LOG	PUSH_DATA: Protocol version = 02, Token = 1053, Identifier = 00, JSON = {'rxpk': [{'tmst': 3323373185, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -45, 'size': 15, 'data': 'QCAgICCA6wsB7mGEJH8H'}]}
0:03:51.856710	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0beb, FOpts:), FPort: 01, FRMPayload: 05a9, MIC: 84247f07)
0:03:51.857709	LOG	Server <---------- DUT
0:03:51.858708	LOG	Attempt 11/15
0:03:55.247599	LOG	PULL_DATA: 02 cd2e 02 aa555a0000240409
0:03:55.249598	LOG	PULL_ACK: 02 cd2e 04
0:03:56.842694	LOG	PUSH_ACK: 02 1054 01
0:03:56.844693	LOG	PUSH_DATA: Protocol version = 02, Token = 1054, Identifier = 00, JSON = {'rxpk': [{'tmst': 3328375753, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -45, 'size': 15, 'data': 'QCAgICCA7AsBf0Owk2+A'}]}
0:03:56.846692	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0bec, FOpts:), FPort: 01, FRMPayload: 05a9, MIC: b0936f80)
0:03:56.847692	LOG	Server <---------- DUT
0:03:56.849691	LOG	Attempt 12/15
0:04:01.829865	LOG	PUSH_ACK: 02 1055 01
0:04:01.831864	LOG	PUSH_DATA: Protocol version = 02, Token = 1055, Identifier = 00, JSON = {'rxpk': [{'tmst': 3333378321, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -45, 'size': 15, 'data': 'QCAgICCA7QsBCCxrb3g0'}]}
0:04:01.833865	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0bed, FOpts:), FPort: 01, FRMPayload: 05a9, MIC: 6b6f7834)
0:04:01.834864	LOG	Server <---------- DUT
0:04:01.835862	LOG	Attempt 13/15
0:04:05.327959	LOG	PULL_DATA: 02 b523 02 aa555a0000240409
0:04:05.332955	LOG	PULL_ACK: 02 b523 04
0:04:06.872083	LOG	PUSH_ACK: 02 1056 01
0:04:06.874082	LOG	PUSH_DATA: Protocol version = 02, Token = 1056, Identifier = 00, JSON = {'rxpk': [{'tmst': 3338380889, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA7gsBSUf774A2'}]}
0:04:06.876084	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0bee, FOpts:), FPort: 01, FRMPayload: 05a9, MIC: fbef8036)
0:04:06.878080	LOG	Server <---------- DUT
0:04:06.880078	LOG	Attempt 14/15
0:04:11.863250	LOG	PUSH_ACK: 02 1057 01
0:04:11.865250	LOG	PUSH_DATA: Protocol version = 02, Token = 1057, Identifier = 00, JSON = {'rxpk': [{'tmst': 3343383473, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA7wsB6T8Jb+dI'}]}
0:04:11.866248	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0bef, FOpts:), FPort: 01, FRMPayload: 05a9, MIC: 096fe748)
0:04:11.868247	LOG	Server <---------- DUT
0:04:11.869246	LOG	Attempt 15/15
0:04:15.407490	LOG	PULL_DATA: 02 0963 02 aa555a0000240409
0:04:15.409489	LOG	PULL_ACK: 02 0963 04
0:04:16.865662	LOG	PUSH_ACK: 02 1059 01

0:04:16.867661	LOG	PUSH_DATA: Protocol version = 02, Token = 1059, Identifier = 00, JSON = {'rxpk': [{'tmst': 3348386049, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA8AsBw3dMFJX/'}]}
0:04:16.868661	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0bf0, FOpts:), FPort: 01, FRMPayload: 05a9, MIC: 4c1495ff)
0:04:16.869660	LOG	Server <---------- DUT
0:04:16.875657	LOG	Receive frame on specific channels process tested successfully
0:04:16.878655	LOG	End Test Step: Incorrect MAC Commands
0:04:16.882652	LOG	Partial Verdict: PASS
0:04:16.885651	LOG	==========
0:04:16.889648	LOG	==========
0:04:16.892647	LOG	Start Test Step: Restore default settings
0:04:16.903641	LOG	Send RXTimingSetupReq process starts
0:04:21.853219	LOG	PUSH_ACK: 02 105a 01
0:04:21.855220	LOG	PUSH_DATA: Protocol version = 02, Token = 105a, Identifier = 00, JSON = {'rxpk': [{'tmst': 3353388633, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA8QsBdsIJTVY3'}]}
0:04:21.856219	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0bf1, FOpts:), FPort: 01, FRMPayload: 05a9, MIC: 094d5637)
0:04:21.857219	LOG	Server <---------- DUT
0:04:21.859219	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07e0, FOpts:), FPort: 00, FRMPayload: 0800), MIC: 1f4134fd)
0:04:21.861215	LOG	PULL_RESP: Protocol version = 02, Token = f9cb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3355388633, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAA4AcAcFQfQTT9'}}
0:04:21.862215	LOG	Server ----------> DUT
0:04:21.865215	LOG	TX_ACK: 02 f9cb 05 aa555a0000240409
0:04:25.427723	LOG	PULL_DATA: 02 a805 02 aa555a0000240409
0:04:25.429692	LOG	PULL_ACK: 02 a805 04
0:04:26.845890	LOG	PUSH_ACK: 02 105b 01
0:04:26.847889	LOG	PUSH_DATA: Protocol version = 02, Token = 105b, Identifier = 00, JSON = {'rxpk': [{'tmst': 3358396329, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -44, 'size': 16, 'data': 'QCAgICCB8gsIATlC8Qv34Q=='}]}
0:04:26.848887	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 81, FCnt: 0bf2, FOpts: 08), FPort: 01, FRMPayload: 05a9, MIC: f10bf7e1)
0:04:26.849886	LOG	Server <---------- DUT
0:04:26.851885	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:04:26.852886	LOG	Command Answer: 08
0:04:26.862897	LOG	MAC command communication completed
0:04:26.866896	LOG	Send MAC command block process starts
0:04:35.507974	LOG	PULL_DATA: 02 805a 02 aa555a0000240409
0:04:35.512972	LOG	PULL_ACK: 02 805a 04
0:04:36.869202	LOG	PUSH_ACK: 02 105c 01
0:04:36.870201	LOG	PUSH_DATA: Protocol version = 02, Token = 105c, Identifier = 00, JSON = {'rxpk': [{'tmst': 3368401521, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.0, 'rssi': -47, 'size': 16, 'data': 'QCAgICCB8wsIAZHLn/oxSg=='}]}
0:04:36.872201	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 81, FCnt: 0bf3, FOpts: 08), FPort: 01, FRMPayload: 05a9, MIC: 9ffa314a)
0:04:36.873202	LOG	Server <---------- DUT

0:04:36.874199	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07e1, FOpts:), FPort: 00, FRMPayload: 03500700010500d2ad84), MIC: ff60d2c0)
0:04:36.877197	LOG	PULL_RESP: Protocol version = 02, Token = 5e4f, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3370401521, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF10BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 23, 'data': 'YCAgICAA4QcAZ6CMDMLbB3bIhP9g0sA='}}
0:04:36.878197	LOG	Server ----------> DUT
0:04:36.881195	LOG	TX_ACK: 02 5e4f 05 aa555a0000240409
0:04:45.697809	LOG	PULL_DATA: 02 8040 02 aa555a0000240409
0:04:45.699808	LOG	PULL_ACK: 02 8040 04
0:04:46.885135	LOG	PUSH_ACK: 02 105e 01
0:04:46.887135	LOG	PUSH_DATA: Protocol version = 02, Token = 105e, Identifier = 00, JSON = {'rxpk': [{'tmst': 3378406698, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.5, 'rssi': -44, 'size': 19, 'data': 'QCAgICCE9AsDBwUHAdWW4cx1nQ=='}]}
0:04:46.888134	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 84, FCnt: 0bf4, FOpts: 03070507), FPort: 01, FRMPayload: 05a9, MIC: e1cc759d)
0:04:46.889133	LOG	Server <---------- DUT
0:04:46.891132	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:04:46.892132	LOG	Command Answer: 03070507
0:04:46.953098	LOG	MAC command communication completed
0:04:46.962110	LOG	End Test Step: Restore default settings
0:04:46.966108	LOG	Partial Verdict: PASS
0:04:46.971087	LOG	==========
0:04:46.975084	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_020
0:04:46.977083	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_021	
Verdict	PASS	
Date	2021-10-18 04:49:16	
Comments	Multiple MAC commands prioritization	
Technology Version	LCTT v3.1.0_D1 | GUI v1.10.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.1	
Test Specs Version	USv1.5.1/EUv1.6/KRv1.2.1/ASv1.1.1/INv1.1.1/ALLv1.1	
Project	MLSv2.0.0	
Project Creation Date	2021-10-17 22:25:22	
Sample	DevID:SAMR34-XPRO | AppID:CertApp_EU_ABP | SW:MLSv2.0.0 | HW:SAMR34J18B	
Parameters	Conformance	TRUE

Time Stamp (ms)	Event	Summary
0:00:00.030819	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_021
0:00:00.063797	LOG	==========
0:00:00.065796	LOG	Start Test Step: Device activation
0:00:00.121764	LOG	Activation process has finished successfully
0:00:00.124763	LOG	Data stored in the DUT after Activation:
0:00:00.126762	LOG	DevAddr: 20202020
0:00:00.128760	LOG	AppEUI: abcdabcdabcdabcd
0:00:00.155745	LOG	NwkSKey: abcdabcdabcdabcdabcdabcdabcdabcd
0:00:00.158743	LOG	AppSKey: 12345678123456781234567812345678
0:00:00.161742	LOG	End Test Step: Device activation
0:00:00.164740	LOG	Partial Verdict: PASS
0:00:00.167738	LOG	==========

0:00:00.172736	LOG	==========
0:00:00.174734	LOG	Start Test Step: DUT Pre-condition settings
0:00:00.183729	LOG	DUT Pre-condition activation process starts
0:00:00.186728	LOG	DUT Pre-condition activation completed
0:00:00.189726	LOG	End Test Step: DUT Pre-condition settings
0:00:00.192724	LOG	Partial Verdict: PASS
0:00:00.195723	LOG	==========
0:00:00.200719	LOG	==========
0:00:00.203718	LOG	Start Test Step: Test MAC Command priorization
0:00:00.214714	LOG	Send MAC command block process starts
0:00:05.779555	LOG	PULL_DATA: 02 aa45 02 aa555a0000240409
0:00:05.781554	LOG	PULL_ACK: 02 aa45 04
0:00:05.783553	LOG	First PULL_DATA received
0:00:06.860941	LOG	PUSH_ACK: 02 105f 01
0:00:06.863939	LOG	PUSH_DATA: Protocol version = 02, Token = 105f, Identifier = 00, JSON = {'rxpk': [{'tmst': 3388411850, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 8.2, 'rssi': -45, 'size': 17, 'data': 'QCAgICCC9QsFBwHKHbpisho='}]}
0:00:06.865938	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0bf5, FOpts: 0507), FPort: 01, FRMPayload: 05a9, MIC: ba62b21a)
0:00:06.867937	LOG	Server <---------- DUT
0:00:06.869936	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 06, FCnt: 07e2, FOpts: 060350070001), FPort: e0, FRMPayload: 20), MIC: 82257410)
0:00:06.873934	LOG	PULL_RESP: Protocol version = 02, Token = 31de, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3390411850, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 20, 'data': 'YCAgICAG4gcGA1AHAAHgeYIldBA='}}
0:00:06.874933	LOG	Server ----------> DUT
0:00:06.878931	LOG	TX_ACK: 02 31de 05 aa555a0000240409
0:00:15.908808	LOG	PULL_DATA: 02 275b 02 aa555a0000240409
0:00:15.910807	LOG	PULL_ACK: 02 275b 04
0:00:16.906243	LOG	PUSH_ACK: 02 1060 01
0:00:16.908241	LOG	PUSH_DATA: Protocol version = 02, Token = 1060, Identifier = 00, JSON = {'rxpk': [{'tmst': 3398422205, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 21, 'data': 'QCAgICCG9gsGAAYDBwIBig2naFYH'}]}
0:00:16.910240	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 86, FCnt: 0bf6, FOpts: 060006030702), FPort: 01, FRMPayload: 05aa, MIC: a7685607)
0:00:16.911241	LOG	Server <---------- DUT
0:00:16.913239	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:16.914240	LOG	Command Answer: 060006030702
0:00:16.915239	LOG	Sending LinkCheckAns to DUT: 022e01
0:00:16.917238	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07e3, FOpts:), FPort: 00, FRMPayload: 022e01), MIC: 51d0640c)
0:00:16.919235	LOG	PULL_RESP: Protocol version = 02, Token = 2ac5, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3400422205, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 16, 'data': 'YCAgICAA4wcA7lptUdBkDA=='}}
0:00:16.921236	LOG	Server ----------> DUT
0:00:16.961211	LOG	MAC command communication completed
0:00:16.963210	LOG	End Test Step: Test MAC Command priorization
0:00:16.969226	LOG	Partial Verdict: PASS
0:00:16.973204	LOG	==========
0:00:16.978201	LOG	==========
0:00:16.980200	LOG	Start Test Step: Test MAC Command payload truncation

0:00:16.990212	LOG	Send LinkADRReq process starts
0:00:25.948131	LOG	PULL_DATA: 02 c487 02 aa555a0000240409
0:00:25.951111	LOG	PULL_ACK: 02 c487 04
0:00:26.866592	LOG	PUSH_ACK: 02 1062 01
0:00:26.868590	LOG	PUSH_DATA: Protocol version = 02, Token = 1062, Identifier = 00, JSON = {'rxpk': [{'tmst': 3408417054, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA9wsBGB2c7G4K'}]}
0:00:26.869590	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0bf7, FOpts:), FPort: 01, FRMPayload: 05aa, MIC: 9cec6e0a)
0:00:26.871589	LOG	Server <---------- DUT
0:00:26.872589	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07e4, FOpts:), FPort: 00, FRMPayload: 0350070001), MIC: fe819610)
0:00:26.874587	LOG	PULL_RESP: Protocol version = 02, Token = d30b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3410417054, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 18, 'data': 'YCAgICAA5AcAityUHBb+gZYQ'}}
0:00:26.876586	LOG	Server ----------> DUT
0:00:26.879584	LOG	TX_ACK: 02 d30b 05 aa555a0000240409
0:00:31.878036	LOG	PUSH_ACK: 02 1063 01
0:00:31.883034	LOG	PUSH_DATA: Protocol version = 02, Token = 1063, Identifier = 00, JSON = {'rxpk': [{'tmst': 3413424773, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -46, 'size': 17, 'data': 'QCAgICCC+AsDBwEJVdJ/8ls='}]}
0:00:31.884035	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0bf8, FOpts: 0307), FPort: 01, FRMPayload: 05aa, MIC: d27ff25b)
0:00:31.885033	LOG	Server <---------- DUT
0:00:31.887031	LOG	FRMPayload field and FOpts field are present. MAC command shall be present in FOpts field
0:00:31.888031	LOG	Command Answer: 0307
0:00:31.894027	LOG	MAC command communication completed
0:00:31.898025	LOG	Send MAC command block process starts
0:00:36.118632	LOG	PULL_DATA: 02 9880 02 aa555a0000240409
0:00:36.120630	LOG	PULL_ACK: 02 9880 04
0:00:41.903349	LOG	PUSH_ACK: 02 1064 01
0:00:41.905347	LOG	PUSH_DATA: Protocol version = 02, Token = 1064, Identifier = 00, JSON = {'rxpk': [{'tmst': 3423424813, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 10.5, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA+QsBmxjZFPoJ'}]}
0:00:41.907346	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0bf9, FOpts:), FPort: 01, FRMPayload: 05aa, MIC: d914fa09)
0:00:41.908346	LOG	Server <---------- DUT
0:00:41.910345	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07e5, FOpts:), FPort: 00, FRMPayload: 060500d2ad840606060606060606060606060606060300070001), MIC: a8f1e6b0)
0:00:41.912344	LOG	PULL_RESP: Protocol version = 02, Token = 7cd4, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3425424813, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 39, 'data': 'YCAgICAA5QcANSQ5v6THTKd8wKb6b5tY4PYMy+OkfHsu/0io8eaw'}}
0:00:41.913343	LOG	Server ----------> DUT
0:00:41.916341	LOG	TX_ACK: 02 7cd4 05 aa555a0000240409
0:00:46.318843	LOG	PULL_DATA: 02 f01d 02 aa555a0000240409
0:00:46.321842	LOG	PULL_ACK: 02 f01d 04
0:00:49.646956	LOG	PUSH_ACK: 02 1065 01

0:00:49.649954	LOG	PUSH_DATA: Protocol version = 02, Token = 1065, Identifier = 00, JSON = {'rxpk': [{'tmst': 3431163065, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 10.2, 'rssi': -45, 'size': 63, 'data': 'QCAgICCA+gsAf0uJZy/FGnEYFYjm/3LiDIiorivME7WOM8525PTlozohkJHMwpOF/9l+ToRkLQc4K4CJBlxA'}]}
0:00:49.650953	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0bfa, FOpts:), FPort: 00, FRMPayload: 06000705070600070600070600070600070600070600070600070600070600070600070600070600070600070600070600070600007, MIC: 89065c40)
0:00:49.652952	LOG	Server <---------- DUT
0:00:49.654951	LOG	Command Answer: 06000705070600070600070600070600070600070600070600070600070600070600070600070600070600070600070600070600007
0:00:49.781879	LOG	MAC command communication completed
0:00:49.784877	LOG	Check previous uplink data rate process starts
0:00:49.788875	LOG	Uplink received with expected Data Rate
0:00:49.792873	LOG	End Test Step: Test MAC Command payload truncation
0:00:49.796873	LOG	Partial Verdict: PASS
0:00:49.800870	LOG	==========
0:00:49.805865	LOG	==========
0:00:49.807864	LOG	Start Test Step: Test MAC Command payload without truncation
0:00:49.816859	LOG	Send MAC command block process starts
0:00:56.398126	LOG	PULL_DATA: 02 43f7 02 aa555a0000240409
0:00:56.400124	LOG	PULL_ACK: 02 43f7 04
0:01:06.478408	LOG	PULL_DATA: 02 d49d 02 aa555a0000240409
0:01:06.481407	LOG	PULL_ACK: 02 d49d 04
0:01:16.558688	LOG	PULL_DATA: 02 29e6 02 aa555a0000240409
0:01:16.561686	LOG	PULL_ACK: 02 29e6 04
0:01:26.637970	LOG	PULL_DATA: 02 c19d 02 aa555a0000240409
0:01:26.641969	LOG	PULL_ACK: 02 c19d 04
0:01:36.718251	LOG	PULL_DATA: 02 3f8e 02 aa555a0000240409
0:01:36.722249	LOG	PULL_ACK: 02 3f8e 04
0:01:46.798533	LOG	PULL_DATA: 02 cbf5 02 aa555a0000240409
0:01:46.800532	LOG	PULL_ACK: 02 cbf5 04
0:01:56.877815	LOG	PULL_DATA: 02 b1d4 02 aa555a0000240409
0:01:56.881812	LOG	PULL_ACK: 02 b1d4 04
0:02:06.968090	LOG	PULL_DATA: 02 5859 02 aa555a0000240409
0:02:06.971088	LOG	PULL_ACK: 02 5859 04
0:02:17.047487	LOG	PULL_DATA: 02 dad8 02 aa555a0000240409
0:02:17.049486	LOG	PULL_ACK: 02 dad8 04
0:02:27.127768	LOG	PULL_DATA: 02 b35a 02 aa555a0000240409
0:02:27.131766	LOG	PULL_ACK: 02 b35a 04
0:02:37.218044	LOG	PULL_DATA: 02 185e 02 aa555a0000240409
0:02:37.223042	LOG	PULL_ACK: 02 185e 04
0:02:47.298325	LOG	PULL_DATA: 02 9f40 02 aa555a0000240409
0:02:47.299324	LOG	PULL_ACK: 02 9f40 04
0:02:57.377608	LOG	PULL_DATA: 02 b964 02 aa555a0000240409
0:02:57.381605	LOG	PULL_ACK: 02 b964 04
0:03:07.457762	LOG	PULL_DATA: 02 c751 02 aa555a0000240409
0:03:07.461742	LOG	PULL_ACK: 02 c751 04
0:03:17.538028	LOG	PULL_DATA: 02 e4b7 02 aa555a0000240409
0:03:17.540025	LOG	PULL_ACK: 02 e4b7 04
0:03:27.617311	LOG	PULL_DATA: 02 6e27 02 aa555a0000240409
0:03:27.619307	LOG	PULL_ACK: 02 6e27 04
0:03:37.697589	LOG	PULL_DATA: 02 ae42 02 aa555a0000240409

0:03:37.702586	LOG	PULL_ACK: 02 ae42 04
0:03:47.777870	LOG	PULL_DATA: 02 c4d8 02 aa555a0000240409
0:03:47.779869	LOG	PULL_ACK: 02 c4d8 04
0:03:57.857313	LOG	PULL_DATA: 02 2985 02 aa555a0000240409
0:03:57.859312	LOG	PULL_ACK: 02 2985 04
0:04:07.937593	LOG	PULL_DATA: 02 7568 02 aa555a0000240409
0:04:07.942590	LOG	PULL_ACK: 02 7568 04
0:04:18.016875	LOG	PULL_DATA: 02 1341 02 aa555a0000240409
0:04:18.018874	LOG	PULL_ACK: 02 1341 04
0:04:28.097155	LOG	PULL_DATA: 02 5dc5 02 aa555a0000240409
0:04:28.099155	LOG	PULL_ACK: 02 5dc5 04
0:04:38.177434	LOG	PULL_DATA: 02 15b5 02 aa555a0000240409
0:04:38.180432	LOG	PULL_ACK: 02 15b5 04
0:04:48.257715	LOG	PULL_DATA: 02 1eef 02 aa555a0000240409
0:04:48.259714	LOG	PULL_ACK: 02 1eef 04
0:04:58.337026	LOG	PULL_DATA: 02 8ed2 02 aa555a0000240409
0:04:58.341000	LOG	PULL_ACK: 02 8ed2 04
0:05:08.417276	LOG	PULL_DATA: 02 4aa6 02 aa555a0000240409
0:05:08.422274	LOG	PULL_ACK: 02 4aa6 04
0:05:18.497557	LOG	PULL_DATA: 02 30e9 02 aa555a0000240409
0:05:18.499555	LOG	PULL_ACK: 02 30e9 04
0:05:28.323981	LOG	PUSH_ACK: 02 1070 01
0:05:28.326979	LOG	PUSH_DATA: Protocol version = 02, Token = 1070, Identifier = 00, JSON = {'rxpk': [{'tmst': 3709845289, 'chan': 2, 'rfch': 1, 'freq': 868.5, 'stat': 1, 'modu': 'LORA', 'datr': 'SF12BW125', 'codr': '4/5', 'lsnr': 8.0, 'rssi': -43, 'size': 17, 'data': 'QCAgICCC+wsFBwGx5onfqBI='}]}
0:05:28.327979	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 82, FCnt: 0bfb, FOpts: 0507), FPort: 01, FRMPayload: 05aa, MIC: 89dfa812)
0:05:28.329978	LOG	Server <---------- DUT
0:05:28.331977	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07e6, FOpts:), FPort: 00, FRMPayload: 060500d2ad840606060606060606060606060606060350070001), MIC: f8b53984)
0:05:28.334975	LOG	PULL_RESP: Protocol version = 02, Token = 19bb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3711845289, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 39, 'data': 'YCAgICAA5gcAeS1M+zX0Qp+f1VgA0IpFfbIO9jqeZ5Rk2LP4tTmE'}}
0:05:28.336974	LOG	Server ----------> DUT
0:05:28.339972	LOG	TX_ACK: 02 19bb 05 aa555a0000240409
0:05:28.546885	LOG	PULL_DATA: 02 e6e9 02 aa555a0000240409
0:05:28.550853	LOG	PULL_ACK: 02 e6e9 04
0:05:38.627136	LOG	PULL_DATA: 02 4dad 02 aa555a0000240409
0:05:38.634131	LOG	PULL_ACK: 02 4dad 04
0:05:48.707415	LOG	PULL_DATA: 02 3b31 02 aa555a0000240409
0:05:48.709414	LOG	PULL_ACK: 02 3b31 04
0:05:58.786696	LOG	PULL_DATA: 02 64a9 02 aa555a0000240409
0:05:58.788695	LOG	PULL_ACK: 02 64a9 04
0:06:08.866976	LOG	PULL_DATA: 02 5913 02 aa555a0000240409
0:06:08.871974	LOG	PULL_ACK: 02 5913 04
0:06:18.947257	LOG	PULL_DATA: 02 ec1d 02 aa555a0000240409
0:06:18.949256	LOG	PULL_ACK: 02 ec1d 04
0:06:29.026537	LOG	PULL_DATA: 02 eb15 02 aa555a0000240409
0:06:29.028536	LOG	PULL_ACK: 02 eb15 04
0:06:39.106817	LOG	PULL_DATA: 02 a360 02 aa555a0000240409
0:06:39.114813	LOG	PULL_ACK: 02 a360 04

0:06:49.197092	LOG	PULL_DATA: 02 7db6 02 aa555a0000240409
0:06:49.199091	LOG	PULL_ACK: 02 7db6 04
0:06:59.276374	LOG	PULL_DATA: 02 a1db 02 aa555a0000240409
0:06:59.278372	LOG	PULL_ACK: 02 a1db 04
0:07:09.356654	LOG	PULL_DATA: 02 7bb7 02 aa555a0000240409
0:07:09.361651	LOG	PULL_ACK: 02 7bb7 04
0:07:19.436934	LOG	PULL_DATA: 02 909a 02 aa555a0000240409
0:07:19.438933	LOG	PULL_ACK: 02 909a 04
0:07:29.516215	LOG	PULL_DATA: 02 a61e 02 aa555a0000240409
0:07:29.518213	LOG	PULL_ACK: 02 a61e 04
0:07:39.596495	LOG	PULL_DATA: 02 6cf0 02 aa555a0000240409
0:07:39.601492	LOG	PULL_ACK: 02 6cf0 04
0:07:42.154044	LOG	PUSH_ACK: 02 1075 01
0:07:42.156043	LOG	PUSH_DATA: Protocol version = 02, Token = 1075, Identifier = 00, JSON = {'rxpk': [{'tmst': 3843708195, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.2, 'rssi': -45, 'size': 65, 'data': 'QCAgICCA/AsAJBUC7sgvvV0LF03ehZrhrWTzAnIza4RMgH9CNA7IUEYK6tylffUpAIQi26J53jmzabMyWW1dJVI='}]}
0:07:42.158041	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0bfc, FOpts:), FPort: 00, FRMPayload: 06000605070600006060307, MIC: 6d5d2552)
0:07:42.159041	LOG	Server <---------- DUT
0:07:42.161040	LOG	Command Answer: 06000605070600006060006060006060006060006060006060006060006060006060006060006060006060006060006060006060006060006060006060307
0:07:42.289966	LOG	MAC command communication completed
0:07:42.291967	LOG	Check previous uplink data rate process starts
0:07:42.295963	LOG	Uplink received with expected Data Rate
0:07:42.300961	LOG	End Test Step: Test MAC Command payload without truncation
0:07:42.303959	LOG	Partial Verdict: PASS
0:07:42.307956	LOG	==========
0:07:42.312954	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_021
0:07:42.315953	LOG	Final Verdict: PASS

Test Case	TP_A_EU868_ED_MAC_104_BV_022	
Verdict	PASS	
Date	2021-10-18 04:57:01	
Comments	FPort 224 Deactivation	
Technology Version	LCTT v3.1.0_D1 | GUI v1.10.0	
Core Version	LoRaWAN_L2v1.0.4/RP2_v1.0.1	
Test Specs Version	USv1.5.1/EUv1.6/KRv1.2.1/ASv1.1.1/INv1.1.1/ALLv1.1	
Project	MLSv2.0.0	
Project Creation Date	2021-10-17 22:25:22	
Sample	DevID:SAMR34-XPRO | AppID:CertApp_EU_ABP | SW:MLSv2.0.0 | HW:SAMR34J18B	
Parameters	Conformance	TRUE

Time Stamp (ms)	Event	Summary
0:00:00.011666	LOG	Start Test Case: TP_A_EU868_ED_MAC_104_BV_022
0:00:00.049644	LOG	==========
0:00:00.051643	LOG	Start Test Step: Device activation
0:00:00.110610	LOG	Activation process has finished successfully
0:00:00.112609	LOG	Data stored in the DUT after Activation:
0:00:00.115607	LOG	DevAddr: 20202020

0:00:00.117606	LOG	AppEUI: abcdabcdabcdabcd
0:00:00.119605	LOG	NwkSKey: abcdabcdabcdabcdabcdabcdabcdabcd
0:00:00.121604	LOG	AppSKey: 12345678123456781234567812345678
0:00:00.124602	LOG	End Test Step: Device activation
0:00:00.127600	LOG	Partial Verdict: PASS
0:00:00.131598	LOG	==========
0:00:00.135595	LOG	==========
0:00:00.137595	LOG	Start Test Step: FPort 224 Deactivation
1:10:43.972451	LOG	FPort 224 Deactivation process starts
1:10:48.517922	LOG	PULL_DATA: 02 2f98 02 aa555a0000240409
1:10:48.519921	LOG	PULL_ACK: 02 2f98 04
1:10:48.521920	LOG	First PULL_DATA received
1:10:58.597444	LOG	PULL_DATA: 02 6b0c 02 aa555a0000240409
1:10:58.599444	LOG	PULL_ACK: 02 6b0c 04
1:11:08.677834	LOG	PULL_DATA: 02 b9eb 02 aa555a0000240409
1:11:08.678834	LOG	PULL_ACK: 02 b9eb 04
1:11:18.758226	LOG	PULL_DATA: 02 641a 02 aa555a0000240409
1:11:18.766221	LOG	PULL_ACK: 02 641a 04
1:11:28.847632	LOG	PULL_DATA: 02 16ac 02 aa555a0000240409
1:11:28.849613	LOG	PULL_ACK: 02 16ac 04
1:11:38.928003	LOG	PULL_DATA: 02 151a 02 aa555a0000240409
1:11:38.930003	LOG	PULL_ACK: 02 151a 04
1:11:39.698605	LOG	PUSH_ACK: 02 121d 01
1:11:39.701573	LOG	PUSH_DATA: Protocol version = 02, Token = 121d, Identifier = 00, JSON = {'rxpk': [{'tmst': 3851511668, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF11BW125', 'codr': '4/5', 'lsnr': 13.5, 'rssi': -49, 'size': 15, 'data': 'QCAgICDA8AwBI7fCzJEi'}]}
1:11:39.702591	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: c0, FCnt: 0cf0, FOpts:), FPort: 01, FRMPayload: 05aa, MIC: c2cc9122)
1:11:39.704571	LOG	Server <---------- DUT
1:11:39.705571	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07e7, FOpts:), FPort: e0, FRMPayload: 7e), MIC: 2429793f)
1:11:39.708569	LOG	Frame command sent to the DUT
1:11:39.710568	LOG	PULL_RESP: Protocol version = 02, Token = a895, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3853511668, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 14, 'data': 'YCAgICAA5wfgKiQpeT8='}}
1:11:39.711567	LOG	Server ----------> DUT
1:11:39.725560	LOG	Send Test Command TxPeriodicityChange process starts
1:11:48.948428	LOG	PULL_DATA: 02 aefe 02 aa555a0000240409
1:11:48.952426	LOG	PULL_ACK: 02 aefe 04
1:11:50.051820	LOG	PUSH_ACK: 02 121f 01
1:11:50.056818	LOG	PUSH_DATA: Protocol version = 02, Token = 121f, Identifier = 00, JSON = {'rxpk': [{'tmst': 3861889454, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA8QwBDqXufLSv'}]}
1:11:50.060812	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0cf1, FOpts:), FPort: 01, FRMPayload: 0000, MIC: ee7cb4af)
1:11:50.062814	LOG	Server <---------- DUT
1:11:50.064807	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07e8, FOpts:), FPort: e0, FRMPayload: 0601), MIC: 24789bfc)
1:11:50.067806	LOG	Frame command sent to the DUT
1:11:50.068806	LOG	PULL_RESP: Protocol version = 02, Token = a9bc, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3863889454, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 15, 'data': 'YCAgICAA6Afg1vUkeJv8'}}

1:11:50.070804	LOG	Server ----------> DUT
1:11:50.074801	LOG	Send Test Command TxPeriodicityChange process completed
1:11:50.078799	LOG	Check if last uplink FPort is not 224 process starts
1:11:50.085797	LOG	Check if last uplink FPort is not 224 process complete
1:11:50.089796	LOG	Wait Until FPort 224 is disabled process starts
1:11:58.317330	LOG	PUSH_ACK: 02 1220 01
1:11:58.319328	LOG	PUSH_DATA: Protocol version = 02, Token = 1220, Identifier = 00, JSON = {'rxpk': [{'tmst': 3870147177, 'chan': 1, 'rfch': 1, 'freq': 868.3, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -46, 'size': 15, 'data': 'QCAgICCA8gwBq8VdnjbW'}]}
1:11:58.321328	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0cf2, FOpts:), FPort: 01, FRMPayload: 0001, MIC: 5d9e36d6)
1:11:58.322346	LOG	Server <---------- DUT
1:11:58.324326	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07e9, FOpts:), FPort: e0, FRMPayload: 08010203), MIC: 23e711c3)
1:11:58.327326	LOG	PULL_RESP: Protocol version = 02, Token = 1abb, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3872147177, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YCAgICAA6QfgSmt37SPnEcM='}}
1:11:58.328326	LOG	Server ----------> DUT
1:11:58.330325	LOG	Echo in FPort 224 sent to the DUT
1:11:58.957973	LOG	PULL_DATA: 02 b56d 02 aa555a0000240409
1:11:58.959972	LOG	PULL_ACK: 02 b56d 04
1:12:03.287565	LOG	PUSH_ACK: 02 1221 01
1:12:03.289563	LOG	PUSH_DATA: Protocol version = 02, Token = 1221, Identifier = 00, JSON = {'rxpk': [{'tmst': 3875149761, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.0, 'rssi': -45, 'size': 15, 'data': 'QCAgICCA8wwBpKxuv/93'}]}
1:12:03.291562	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0cf3, FOpts:), FPort: 01, FRMPayload: 0002, MIC: 6ebfff77)
1:12:03.293561	LOG	Server <---------- DUT
1:12:03.295560	LOG	PHYPayload: (MHDR: 60, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 00, FCnt: 07ea, FOpts:), FPort: e0, FRMPayload: 08010203), MIC: 29304b33)
1:12:03.298559	LOG	PULL_RESP: Protocol version = 02, Token = 168b, Identifier = 03, JSON = {'txpk': {'imme': False, 'tmst': 3877149761, 'rfch': 0, 'powe': 14, 'ipol': True, 'datr': 'SF12BW125', 'freq': 869.525, 'modu': 'LORA', 'codr': '4/5', 'prea': 8, 'ncrc': True, 'size': 17, 'data': 'YCAgICAA6gfgPPQOHCkwSzM='}}
1:12:03.299559	LOG	Server ----------> DUT
1:12:03.301556	LOG	Echo in FPort 224 sent to the DUT
1:12:08.289781	LOG	PUSH_ACK: 02 1222 01
1:12:08.292779	LOG	PUSH_DATA: Protocol version = 02, Token = 1222, Identifier = 00, JSON = {'rxpk': [{'tmst': 3880152331, 'chan': 0, 'rfch': 1, 'freq': 868.1, 'stat': 1, 'modu': 'LORA', 'datr': 'SF7BW125', 'codr': '4/5', 'lsnr': 9.8, 'rssi': -47, 'size': 15, 'data': 'QCAgICCA9AwBRPSj86fR'}], 'stat': {'time': '2021-05-14 10:07:05 GMT', 'rxnb': 5, 'rxok': 4, 'rxfw': 4, 'ackr': 80.0, 'dwnb': 4, 'txnb': 4}}
1:12:08.293779	LOG	DATA: (MHDR: 40, MACPayload: (FHDR: (DevAddr: 20202020, FCtrl: 80, FCnt: 0cf4, FOpts:), FPort: 01, FRMPayload: 0003, MIC: a3f3a7d1)
1:12:08.295780	LOG	Server <---------- DUT
1:12:08.300775	LOG	Wait Until FPort 224 is disabled process starts
1:12:08.303775	LOG	FPort 224 Deactivation process completed successfully
1:12:08.306774	LOG	End Test Step: FPort 224 Deactivation
1:12:08.310772	LOG	Partial Verdict: PASS
1:12:08.314767	LOG	==========
1:12:08.320764	LOG	End Test Case: TP_A_EU868_ED_MAC_104_BV_022
1:12:08.323763	LOG	Final Verdict: PASS

Appendix B – ICS

NAME	VALUE
DUT is a Class A Device (All End Devices)	TRUE
DUT works in EU 868MHz ISM Band	TRUE
DUT supports Adaptive Data Rate (ADR) feature	TRUE
DUT supports DlChannelReq MAC command	TRUE
DUT supports LinkADRReq block	TRUE
DUT supports the Lorawan-1.0.x-join-synch-issues-remedies-v1.0.0	TRUE
DUT implements LoRaWAN v1.0.4 certification requirements	TRUE
DUT supports uplink re-transmissions for Confirmed frames	TRUE

Appendix C – IXIT

NAME	VALUE
Minimum transmission power	0
Maximum transmission power	0
End-device identifier (DevEUI)	'1234567812345678'O
End-device Address asigned during activation (DevAddr)	'20202020'O
Maximum number of uplinks re-transmission	1
Frame counter size	32
Application session key (AppSKey)	'12345678123456781234567812345678'O
Network session key (NwkSKey)	'ABCDABCDABCDABCDABCDABCDABCDABCD'O
Application key (AppKey)	'1234567812345678ABCDABCDABCDABCD'O
Application identifier (AppEUI)	'ABCDABCDABCDABCD'O
End-device Address (DevAddr)	'20202020'O

Appendix D – General Parameters

NAME	VALUE
Gateway IP Address	10.40.56.123
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
General frequency offset applied that defines the AS923 country	0
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 B default pingSlot frequency	869.525
AS923 Beacon DR	SF9BW125
AS923 Beacon default frequency	923.4
AS923 Class B default pingSlot frequency	923.4
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
KR920 RX2 Receive window frequency	921.9
Gateway model	Semtech
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
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	10.40.56.41

Appendix E – Photographs