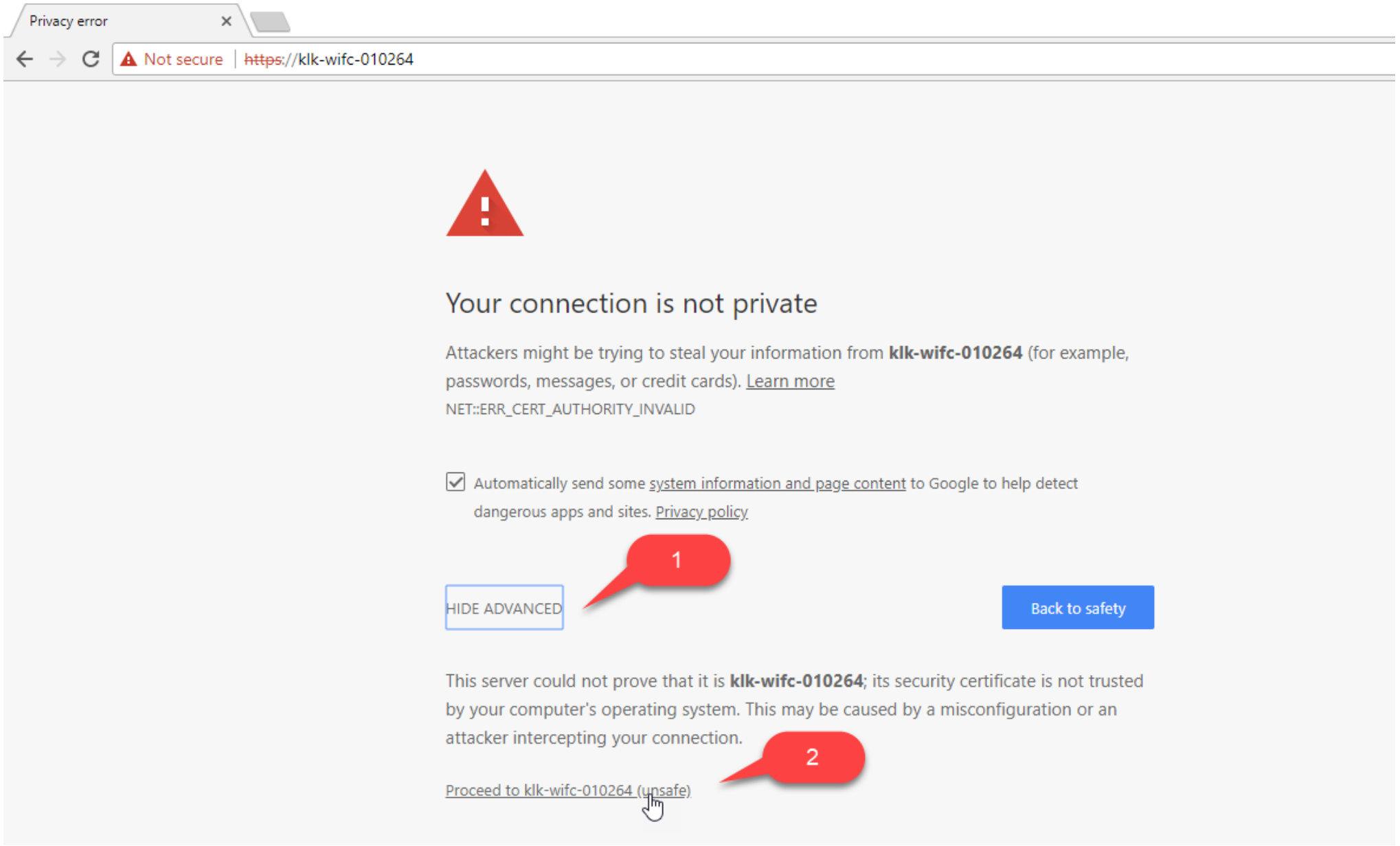
Ifemto Setup and Configuration

REV 2.0

ขั้นตอนการเข้า SPN บน Ifemto

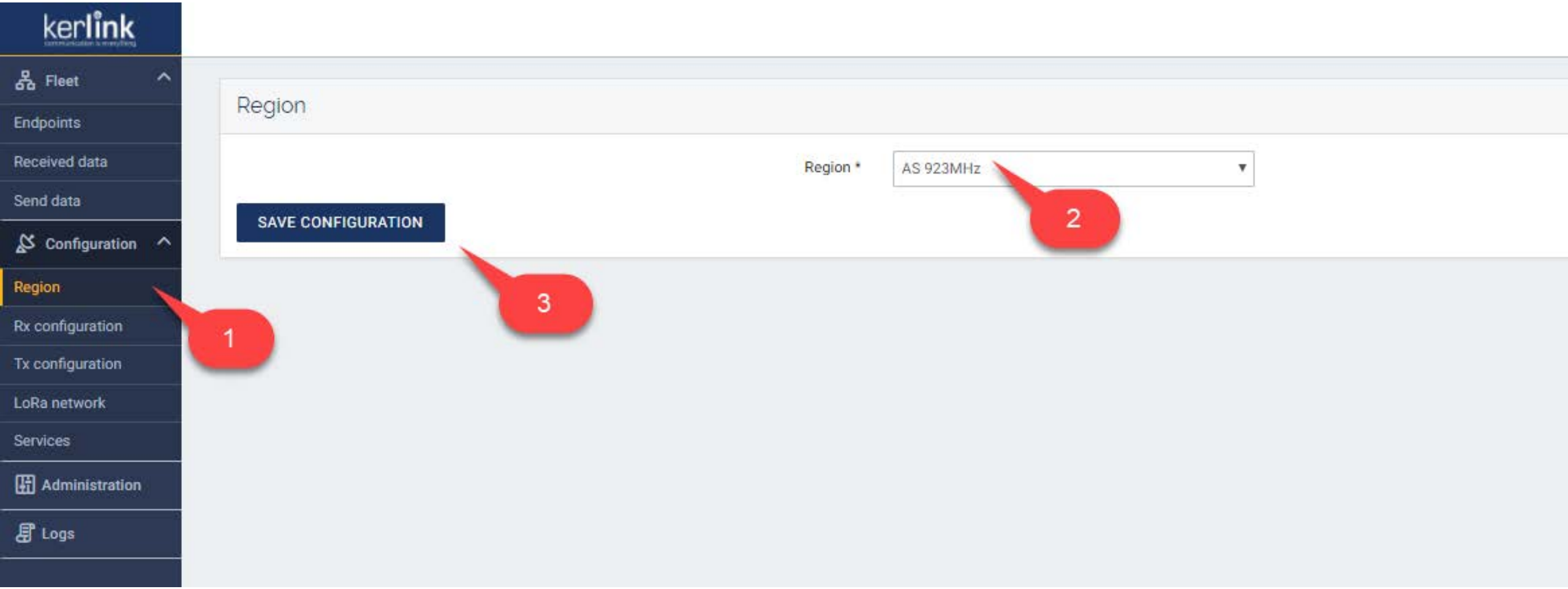
http://klk-wifc-010264/ แนะนำใช้งาน Chrome browser



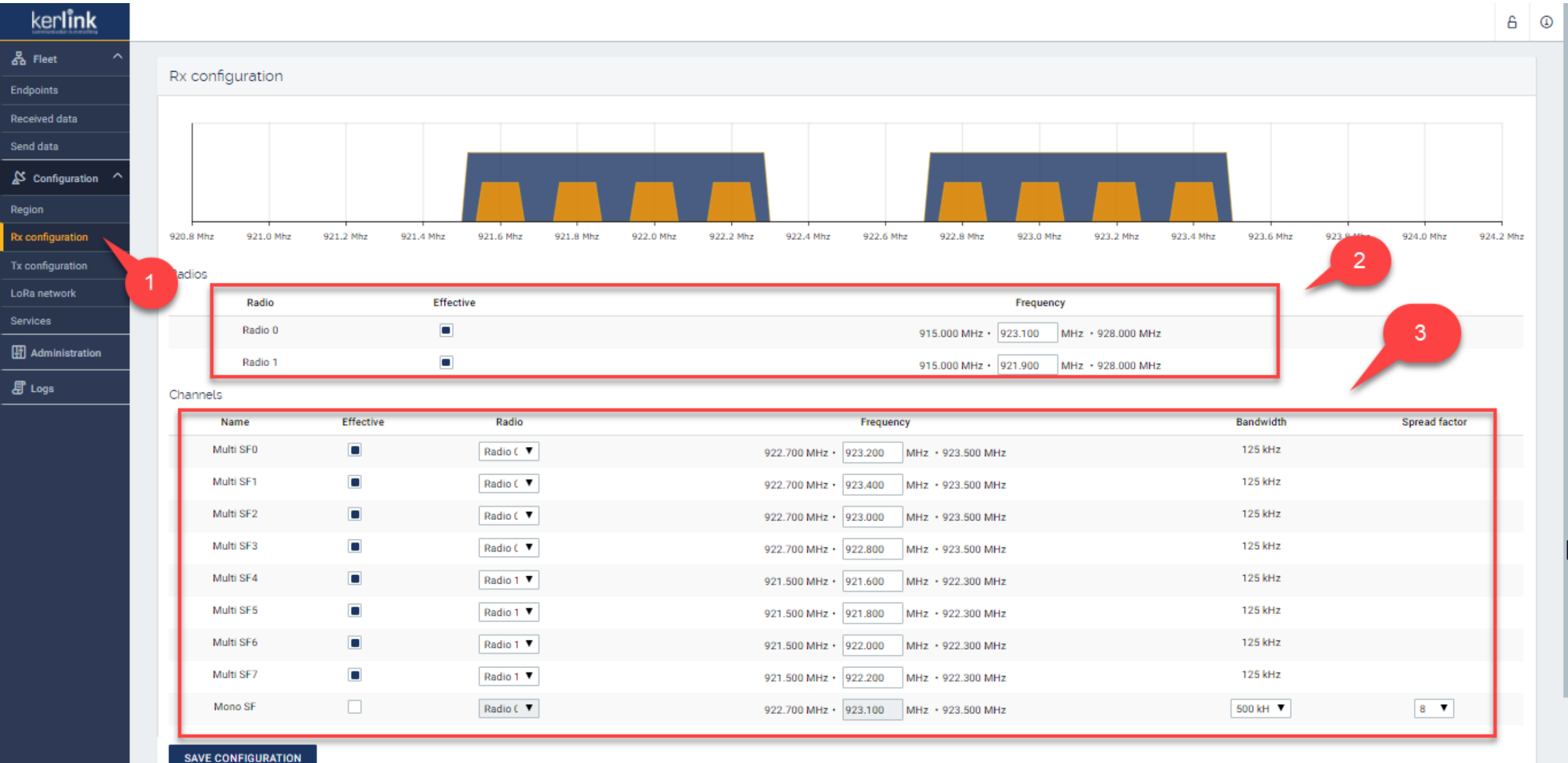
1) spn
2) spnpwd

ขั้นตอนการ ตั้งค่า Ifemto CELL

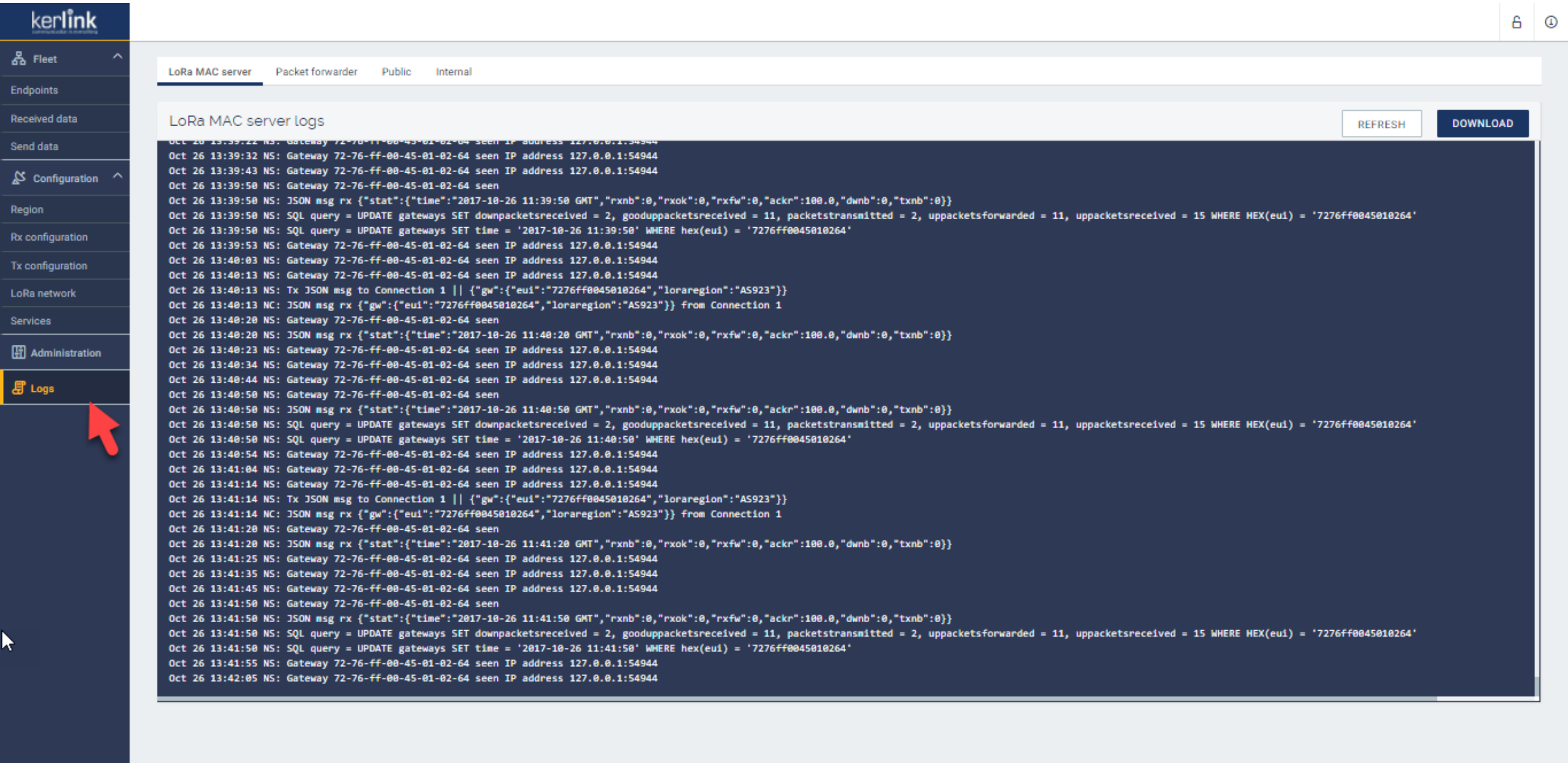
ตั้งค่า **Region**


kerlink
Fleet
Endpoints
Received data
Send data
Configuration
Region
Rx configuration
Tx configuration
LoRa network
Services
Administration
Logs
Region
Region *
AS 923MHz
SAVE CONFIGURATION
1
2
3

ตั้งค่าย่านความถี่ดังรูป

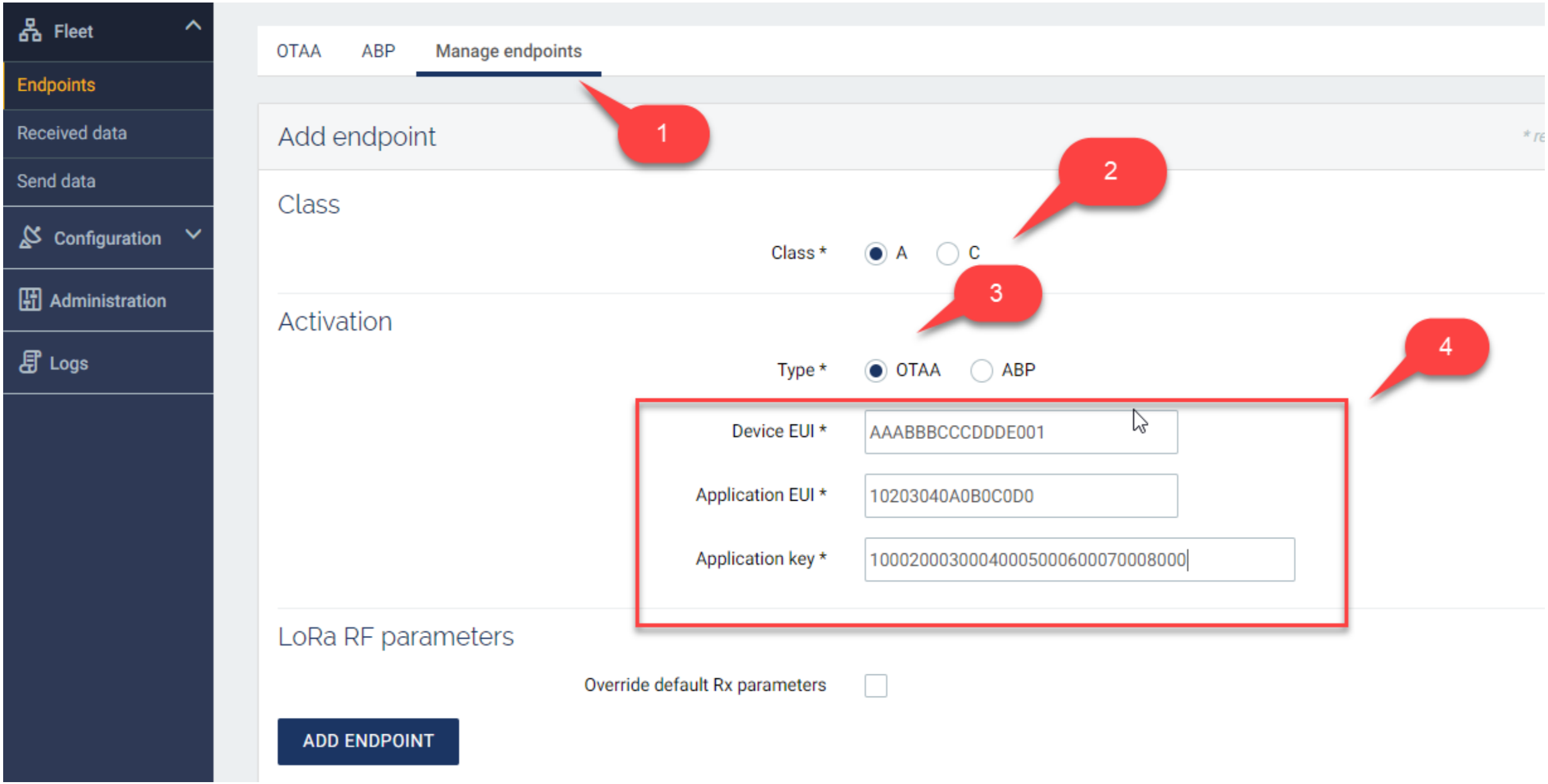


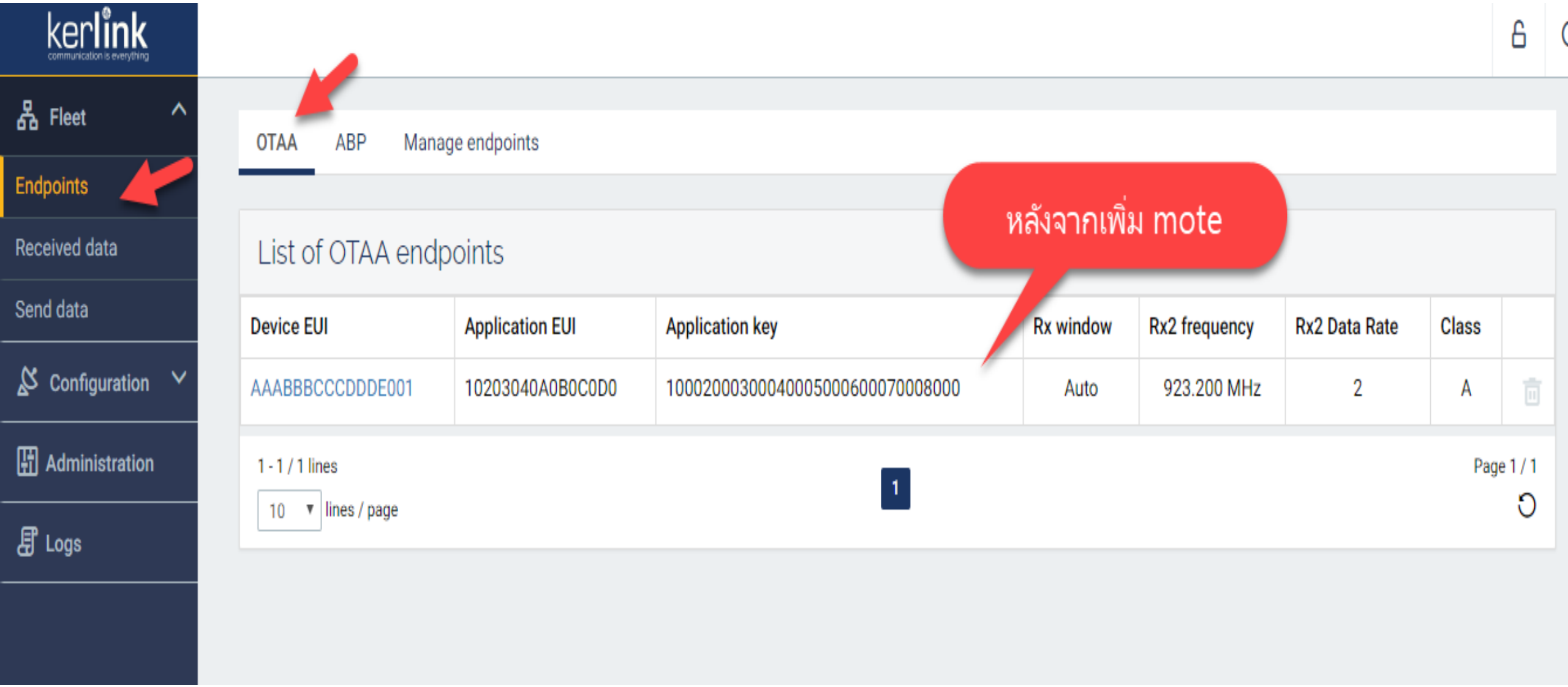
เราสามารถดูการทำงานของ ifemto cell ได้จากเมนู logs



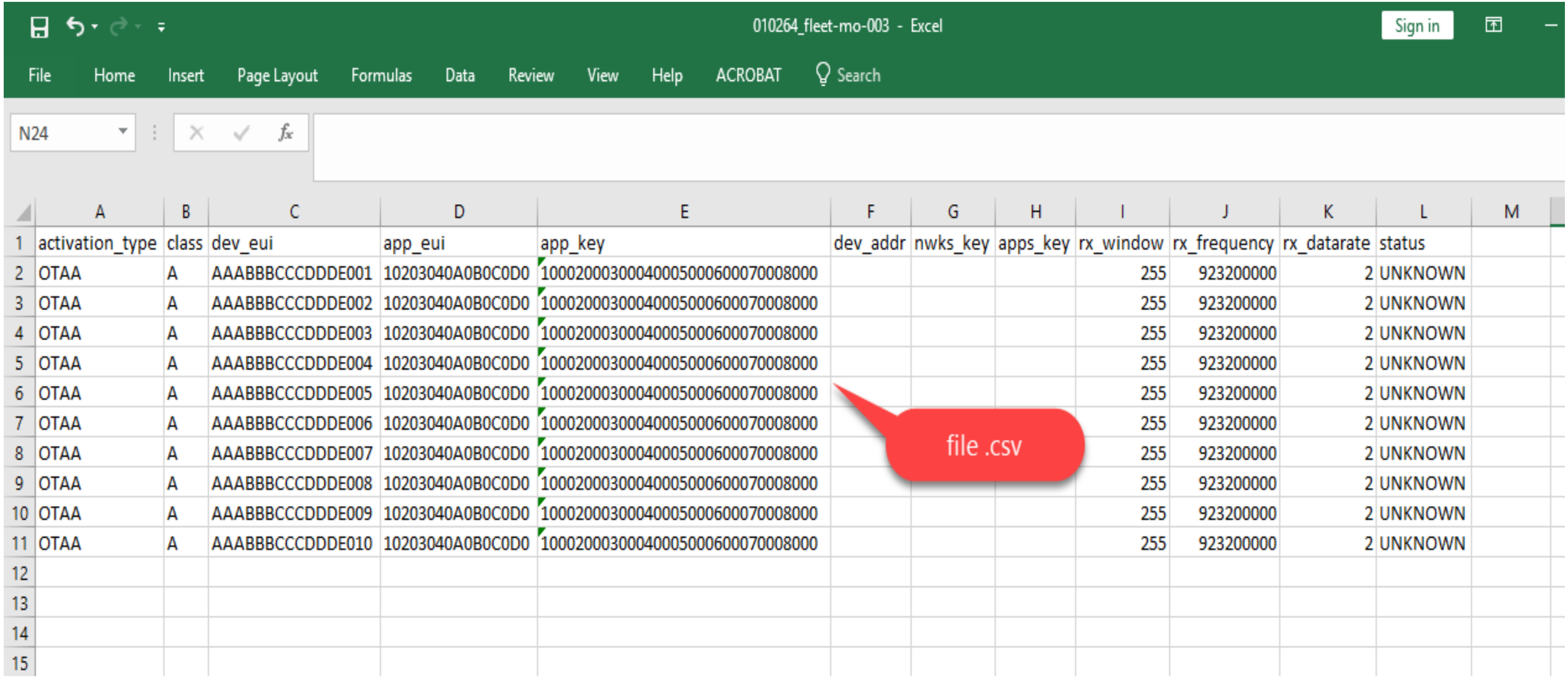
ขั้นตอนการ import end-device หรือ การ ACTIVATION

ขั้นตอนการใส่ Activation ของ mote board



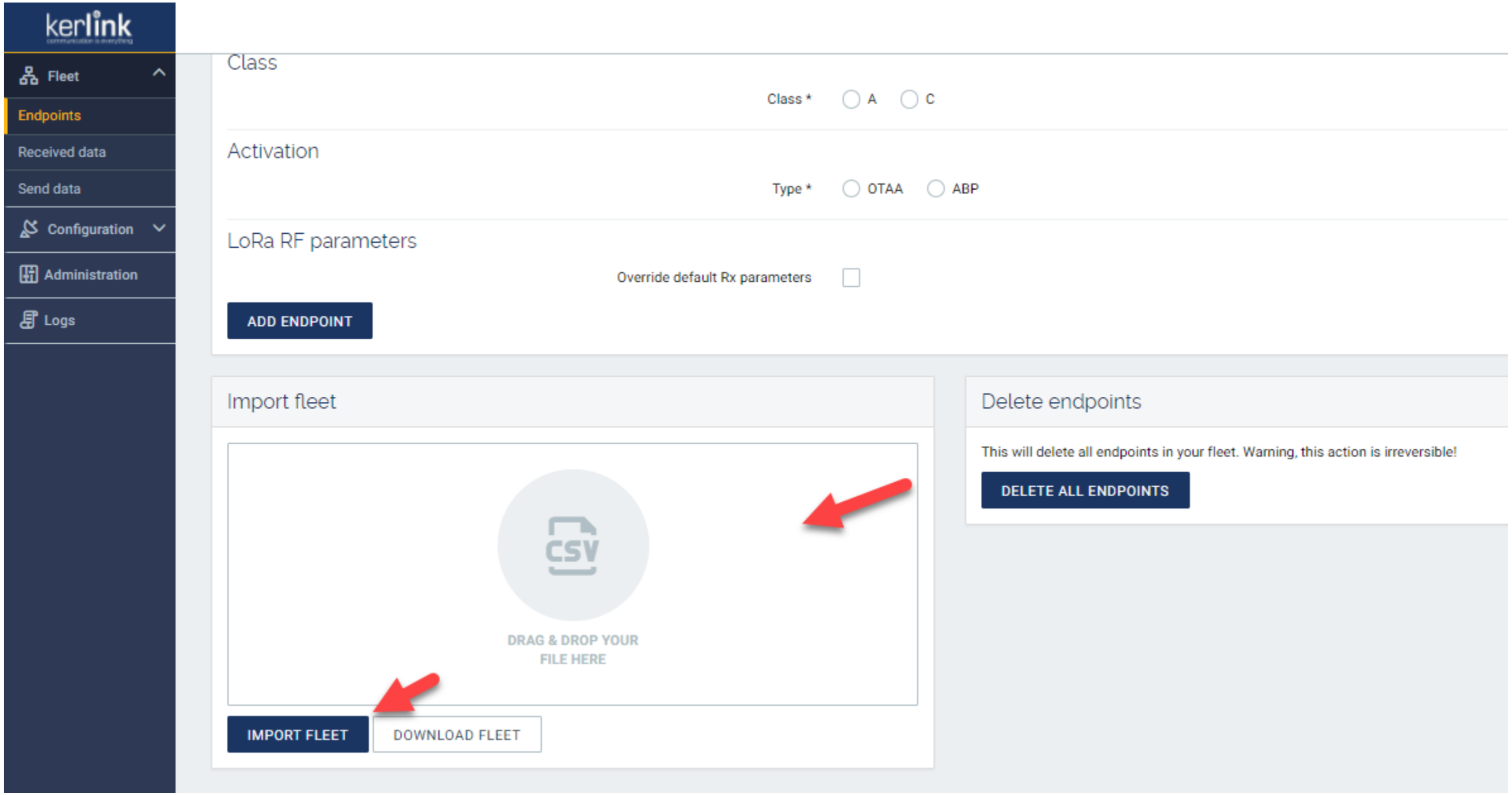

kerlink
communication is everything
Fleet
Endpoints
Received data
Send data
Configuration
Administration
Logs
OTAA
ABP
Manage endpoints
หลังจากเพิ่ม mote
List of OTAA endpoints
Device EUI
Application EUI
Application key
Rx window
Rx2 frequency
Rx2 Data Rate
Class
AAABBBCCCDDDE001
10203040A0B0C0D0
10002000300040005000600070008000
Auto
923.200 MHz
2
A
1 - 1 / 1 lines
10
lines / page
1
Page 1 / 1

สามารถ activation ของ mote หลายค่าโดยใช้รูปแบบไฟล์ .CSV ตาม form ข้างล่างนี้

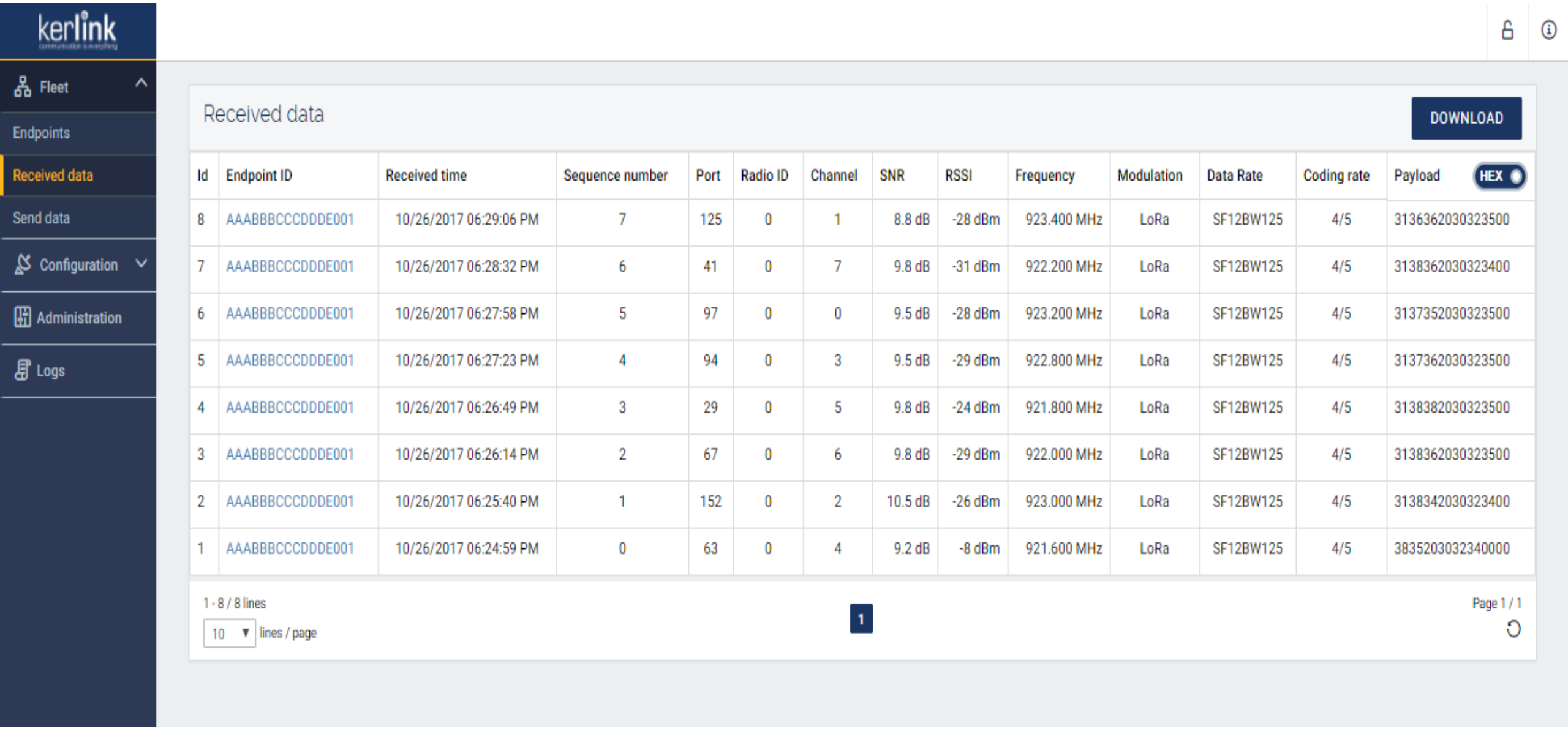


	A	B	C	D	E	F	G	H	I	J	K	L	M
1	activation_type	class	dev_eui	app_eui	app_key	dev_addr	nwks_key	apps_key	rx_window	rx_frequency	rx_datarate	status	
2	OTAA	A	AAABBBCCCDDDE001	10203040A0B0C0D0	10002000300040005000600070008000				255	923200000	2	UNKNOWN	
3	OTAA	A	AAABBBCCCDDDE002	10203040A0B0C0D0	10002000300040005000600070008000				255	923200000	2	UNKNOWN	
4	OTAA	A	AAABBBCCCDDDE003	10203040A0B0C0D0	10002000300040005000600070008000				255	923200000	2	UNKNOWN	
5	OTAA	A	AAABBBCCCDDDE004	10203040A0B0C0D0	10002000300040005000600070008000				255	923200000	2	UNKNOWN	
6	OTAA	A	AAABBBCCCDDDE005	10203040A0B0C0D0	10002000300040005000600070008000				255	923200000	2	UNKNOWN	
7	OTAA	A	AAABBBCCCDDDE006	10203040A0B0C0D0	10002000300040005000600070008000				255	923200000	2	UNKNOWN	
8	OTAA	A	AAABBBCCCDDDE007	10203040A0B0C0D0	10002000300040005000600070008000				255	923200000	2	UNKNOWN	
9	OTAA	A	AAABBBCCCDDDE008	10203040A0B0C0D0	10002000300040005000600070008000				255	923200000	2	UNKNOWN	
10	OTAA	A	AAABBBCCCDDDE009	10203040A0B0C0D0	10002000300040005000600070008000				255	923200000	2	UNKNOWN	
11	OTAA	A	AAABBBCCCDDDE010	10203040A0B0C0D0	10002000300040005000600070008000				255	923200000	2	UNKNOWN	
12													
13													
14													
15													

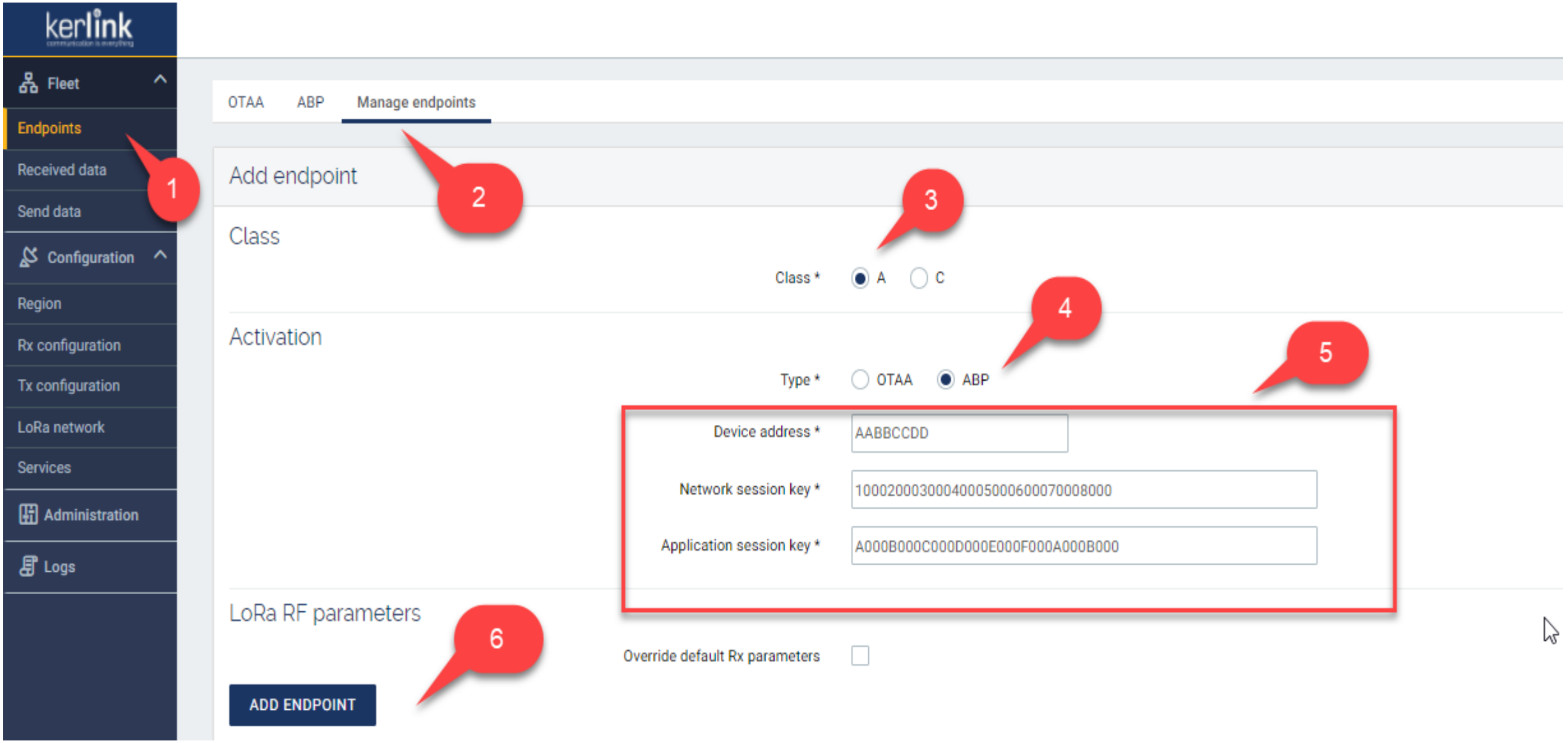
การนำไฟล์เข้ามาเพิ่มใน **ifemto** ลากวาง แล้วกด **import fleet** ดังรูป



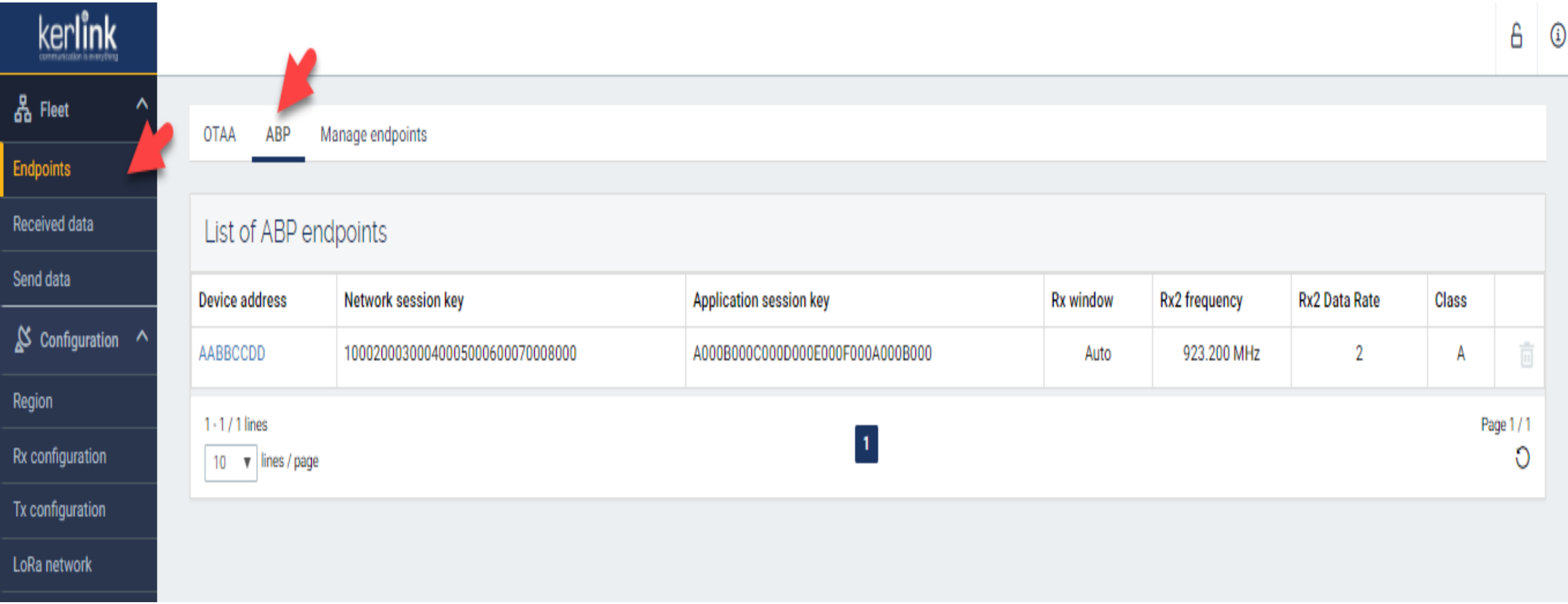
หลังจากทำการ **import** ไฟล์จะได้ **mote** ที่ทำการ **activation** ดังรูป



การตั้งค่า ABP


kerlink
Fleet
Endpoints
Received data
Send data
Configuration
Region
Rx configuration
Tx configuration
LoRa network
Services
Administration
Logs
OTAA
ABP
Manage endpoints
Add endpoint
Class
Class *
A
C
Activation
Type *
OTAA
ABP
Device address *
AABBCCDD
Network session key *
10002000300040005000600070008000
Application session key *
A000B000C000D000E000F000A000B000
LoRa RF parameters
Override default Rx parameters
ADD ENDPOINT
1
2
3
4
5
6

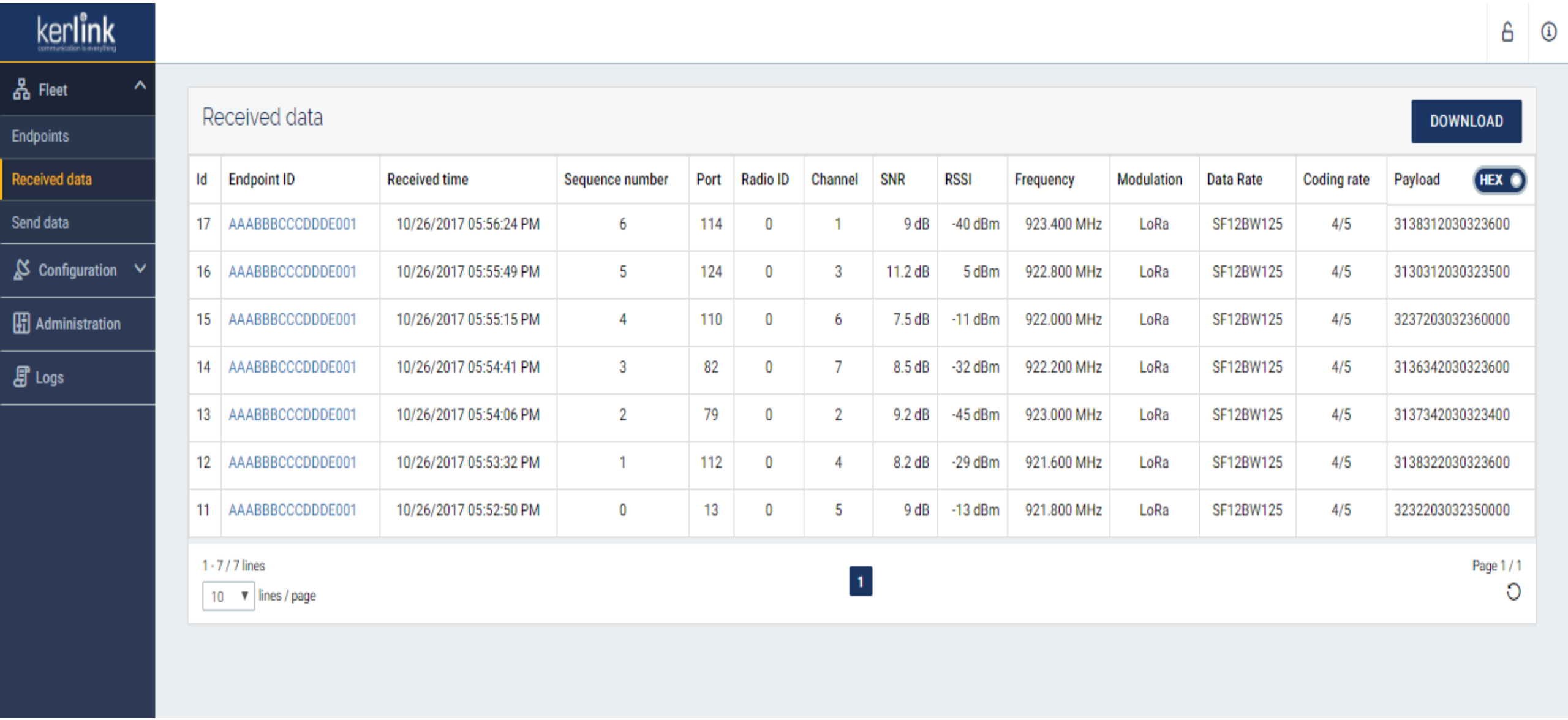
การตั้งค่า ABP


kerlink
Fleet
Endpoints
Received data
Send data
Configuration
Region
Rx configuration
Tx configuration
LoRa network
OTAA
ABP
Manage endpoints
List of ABP endpoints
Device address
Network session key
Application session key
Rx window
Rx2 frequency
Rx2 Data Rate
Class
AABBCCDD
10002000300040005000600070008000
A000B000C000D000E000F000A000B000
Auto
923.200 MHz
2
A
1 - 1 / 1 lines
10
lines / page
1
Page 1 / 1

ผลการรับค่าที่ส่งจาก mote board หรือ End-device

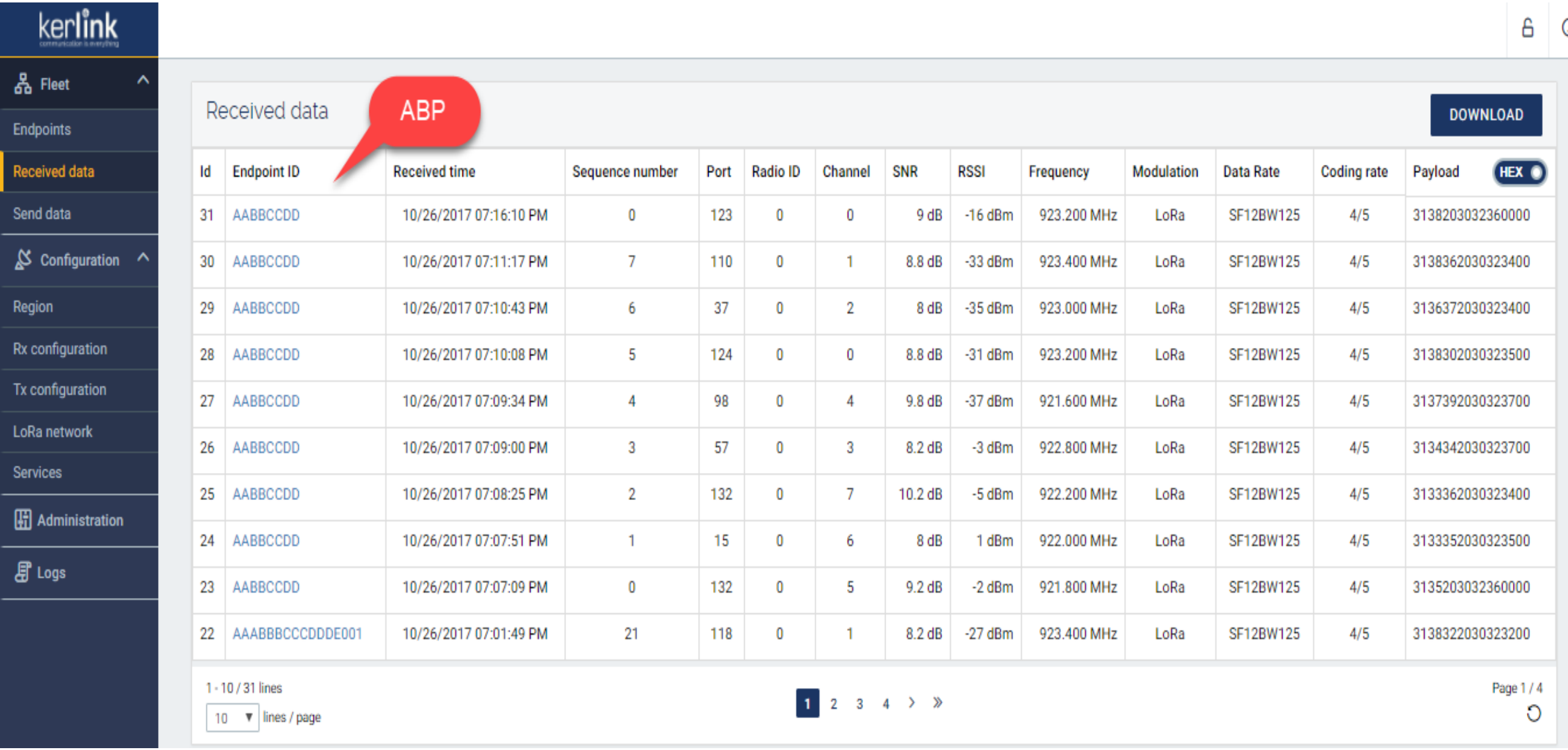
ข้อมูลที่ส่งจาก Mote board RN2903: DM164139 (Microchip LoRa)

OTAA mode



Id	Endpoint ID	Received time	Sequence number	Port	Radio ID	Channel	SNR	RSSI	Frequency	Modulation	Data Rate	Coding rate	Payload
17	AAABBBCCCDDDE001	10/26/2017 05:56:24 PM	6	114	0	1	9 dB	-40 dBm	923.400 MHz	LoRa	SF12BW125	4/5	3138312030323600
16	AAABBBCCCDDDE001	10/26/2017 05:55:49 PM	5	124	0	3	11.2 dB	5 dBm	922.800 MHz	LoRa	SF12BW125	4/5	3130312030323500
15	AAABBBCCCDDDE001	10/26/2017 05:55:15 PM	4	110	0	6	7.5 dB	-11 dBm	922.000 MHz	LoRa	SF12BW125	4/5	3237203032360000
14	AAABBBCCCDDDE001	10/26/2017 05:54:41 PM	3	82	0	7	8.5 dB	-32 dBm	922.200 MHz	LoRa	SF12BW125	4/5	3136342030323600
13	AAABBBCCCDDDE001	10/26/2017 05:54:06 PM	2	79	0	2	9.2 dB	-45 dBm	923.000 MHz	LoRa	SF12BW125	4/5	3137342030323400
12	AAABBBCCCDDDE001	10/26/2017 05:53:32 PM	1	112	0	4	8.2 dB	-29 dBm	921.600 MHz	LoRa	SF12BW125	4/5	3138322030323600
11	AAABBBCCCDDDE001	10/26/2017 05:52:50 PM	0	13	0	5	9 dB	-13 dBm	921.800 MHz	LoRa	SF12BW125	4/5	3232203032350000

ABP mode


kerlink
Fleet
Endpoints
Received data
Send data
Configuration
Region
Rx configuration
Tx configuration
LoRa network
Services
Administration
Logs
Received data
ABP
DOWNLOAD
HEX
Id
Endpoint ID
Received time
Sequence number
Port
Radio ID
Channel
SNR
RSSI
Frequency
Modulation
Data Rate
Coding rate
Payload
31 AABBCCDD 10/26/2017 07:16:10 PM 0 123 0 0 9 dB -16 dBm 923.200 MHz LoRa SF12BW125 4/5 3138203032360000
30 AABBCCDD 10/26/2017 07:11:17 PM 7 110 0 1 8.8 dB -33 dBm 923.400 MHz LoRa SF12BW125 4/5 3138362030323400
29 AABBCCDD 10/26/2017 07:10:43 PM 6 37 0 2 8 dB -35 dBm 923.000 MHz LoRa SF12BW125 4/5 3136372030323400
28 AABBCCDD 10/26/2017 07:10:08 PM 5 124 0 0 8.8 dB -31 dBm 923.200 MHz LoRa SF12BW125 4/5 3138302030323500
27 AABBCCDD 10/26/2017 07:09:34 PM 4 98 0 4 9.8 dB -37 dBm 921.600 MHz LoRa SF12BW125 4/5 3137392030323700
26 AABBCCDD 10/26/2017 07:09:00 PM 3 57 0 3 8.2 dB -3 dBm 922.800 MHz LoRa SF12BW125 4/5 3134342030323700
25 AABBCCDD 10/26/2017 07:08:25 PM 2 132 0 7 10.2 dB -5 dBm 922.200 MHz LoRa SF12BW125 4/5 3133362030323400
24 AABBCCDD 10/26/2017 07:07:51 PM 1 15 0 6 8 dB 1 dBm 922.000 MHz LoRa SF12BW125 4/5 3133352030323500
23 AABBCCDD 10/26/2017 07:07:09 PM 0 132 0 5 9.2 dB -2 dBm 921.800 MHz LoRa SF12BW125 4/5 3135203032360000
22 AAABBBCCCDDDE001 10/26/2017 07:01:49 PM 21 118 0 1 8.2 dB -27 dBm 923.400 MHz LoRa SF12BW125 4/5 3138322030323200
1 - 10 / 31 lines
10 lines / page
1 2 3 4
Page 1 / 4

THANK YOU