

## 1. Gateway Configuration

Note: Gateway firmware version should be higher 80.0.0.28

1.1 Navigate to "LoRaWAN/Network Server/Applications/", click the

Edit button.

					For you	r device security, please change the defau		
Status		General	Applications	Profiles	Device	Packets		
LoRaWAN	-	Applications					Edit	
Packet Forwarder			1	D	Name	Description	Payload Codec	Operation
Network Server				1	cloud	cloud	None	
Network	•							±
System	•							

## 1.2 Configure MQTT Parameters

			F	For your device security, please change the default password
Status	General Applicatio	ns Profiles	Device	Packets
LoRaWAN	Applications			
Packet Forwarder	Name	cloud		
Network Server	Description Payload Codec	cloud None	•	
Network 🕨	Data Transmission			
System 🕨				
Maintenance	Туре	MQTT	٣	
АРР	General			
	Broker Address	110.87.		
	Broker Port	9004		
	Client ID	testddd		
	Connection Timeout/s	30		
	Keep Alive Interval/s	60		
	User Credentials			
	Enable			
	Username	admin		
	Password			
	TL S			



Data Type	topic	
Uplink data	/ursalink/uplink	QoS 0 ~
Downlink data	/ursalink/downlink/\$deveui	QoS 0 ~
Join notification	/ursalink/uplink/\$deveui/join	QoS 0 ~
ACK notification	/ursalink/uplink/\$deveui/ack	QoS 0 ~
Error notification	/ursalink/uplink/\$deveui/err	QoS 0 ~
	Save Cancel	

# 2. MQTT.fx Connection

# 2.1 MQTT.fx Configuration

Edit Connection Profiles			— 🗆 X
MQTT_Broker			
local mosquitto	Profile Name	MQTT_Broker	
	Profile Type	MQTT Broker	
	MQTT Broker Profile Settings	)	
	Broker Address	110.87	
	Broker Port	9004	
	Client ID	c39a9df289f74cbdb29a66d1611ef878	Generate
	General User Credentials User Name Password	SSL/TLS Proxy LWT	

## 2.2 Subscribe Uplink Topic

MOTT fx - 1.7.1			-	n.	×
File Extrus Help					
MOTT.Buker · Ø Correct Disconnect					- e e
Publish Subscribe Scripts Broker Status Log					
Jurgalink/uplink			e51 Qe53	2 Altern	
/wssfink/uplink	215	Autalitecupline			227
(11)	Dump Herouges Mids (Createria)	Azallelogilik			(258
		Ambéhalik			Qe5.0
					Qe5.0
		Ansalisiologilisis			250 Qe5 0
		Arrafisk/splink			211
		Arsalisiv/splinix			212
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					Qu5.0
	L L	/ursallek/uplink			(23)
				_	Quố C
		1			
Topks Collector (1)	Scan Stop ot≁	"Twint" - 1 ( "sec", - 2 + 2 + 2 + 2 + 2 + 4 + 4 + 4 + 2 + 2 +			
		"taritude": 0 "togitude": 0 "\$titude": 0			
		"cuinfe'   { "frequency": 65585000, "dubble":   secol: luce': 1/001			
		"based dtb" : 125, "sgread actor" : 7 1.			
		"not"::Tree, 1:4/5" "coreleate"::4/5" "font"::200,			
		"BANA" : "COLE"			
				_	



### 2.3 Control the DO

2.31 When the downlink data topic is blank

Data Type	topic	
Uplink data	/ursalink/uplink	QoS 0 ~
Downlink data		QoS 0 ~
Join notification		QoS 0 ~
ACK notification		QoS 0 ~
Error notification		QoS 0 ~
	Save Cancel	

#### Publish Topic Format :

application/[applicationID/device/[devEUI]/tx
Sample :

application/1/device/24e1612292633821/tx

🕲 MQTT.fx - 1.7.1			
File Extras Help			
MQTT_Broker	Connect Disconnect		
Publish Subscribe Scrip	bts Broker Status Log application/1/device/24e1612292633821/tx	▼ Publish	
	["confirmed": true,"fport": 85,"deta": "CQEA/w=="]		

#### 2.32 When the downlink data topic is filled

Example: The UG85's topic: /ursalink/downlink/\$deveui

Data Type	topic	
Uplink data	/ursalink/uplink	QoS 0 ~
Downlink data	/ursalink/downlink/\$deveul	QoS 0 ~
Join notification	/ursalink/uplink/\$deveui/join	QoS 0 ~
ACK notification	/ursalink/uplink/\$deveui/ack	QoS 0 ~
Error notification	/ursalink/uplink/\$deveui/err	QoS 0 ~

Publish Topic Format : /ursalink/downlink/[devEUI] Sample : /ursalink/downlink/24e1612292633821

{"confirmed": true, "fport": 85,"data": "CQEA/w=="}



#### Command:

For UC1122&UC1152 Set DO1 high {"confirmed": true,"fport": 85,"data": "CQEA/w=="} Set DO1 low {"confirmed": true,"fport": 85,"data": "CQAA/w=="}

### For UC1114

Set DO1 high {"confirmed": true,"fport": 85,"data": "CQEA/w=="} Set DO1 low {"confirmed": true,"fport": 85,"data": "CQAA/w=="} Set DO2 high {"confirmed": true,"fport": 85,"data": "CgEA/w=="} Set DO2 low {"confirmed": true,"fport": 85,"data": "CgAA/w=="}