

FAQ - Application server connection examples PSK

Introduction

On this page we would like to show some connection examples using Pre-shared-key (PSK) and error descriptions.

Set-up:

- Nx70 software 2.44.0
- DECT handset R700H software release 11
- Linux Ubuntu system to send MQTT messages
- mosquitto_sub version 1.6.9 running on libmosquitto 1.6.9.
- Application server enabled [FAQ - Application servers](#)
- Messaging and Location enabled for the handset [FAQ - Messaging and Location how to enable/disable per handset](#)

MQTT message example:

- Prio 1 message
- To handset with SIP ID 1013
- With "Fire" icon and some text
- Nx70 IP address: 192.168.178.190, Port 8884

MQTT example

```
mosquitto_pub -u as1 --psk-identity as1 --psk 123456789012345678901234567890ab -t 'as1/msg/xxl/msgsrv/req/setMsg' -m '{"msgId":"1","payload":{"amsgId":"23642","sip_id":"1013","msg":{"server_msg_status":"new","prio":"1","title":{"text":"Message prio 1","color":"04"},"status_icon":"0D","status_text":"accept","ttl":"600","alert_info":{"msg_melody_low","override_silencing":"no","vibration":"no","ringtone_volume":"50","deletable":"yes","local_ignore":"yes","presentation_time":"30","body_starter":"Body starter"},"msg_icon":{"value":"28"},"body":{"msg_icon":{"value":"4E","color":"04"}},{\"paragraph\":{\"text\":\"Prio 1 message: some longer test to check how long the message can be\",\"blink\":\"no\",\"underline\":\"yes\",\"bold\":\"yes\",\"align\":\"left\",\"color\":\"00\"}},{\"paragraph\":{\"text\":\"This text is only shown in detailed view\",\"blink\":\"no\",\"underline\":\"no\",\"bold\":\"no\",\"align\":\"left\"}}},{\"reply_options\":{\"option_id\":\"1\",\"reply\":{\"text\":\"Msg1SK1\"}},{\"option_id\":\"2\",\"reply\":{\"text\":\"Msg1SK2\"}},{\"option_id\":\"3\",\"make_call\":{\"text\":\"Call\",\"to\":\"1021\"}}}}}' -p 8884 -h 192.168.178.190
```

Syslog output - No error

```
MQTT New connection from 192.168.178.61 on port 8884.
Syslog New client connected from 192.168.178.61 as mosq-PQBgyaFiibZow66I2k (c1, k60, u'as1').
...
```

Error: Wrong port number - port 8882

```
mosquitto_pub -u as1 --psk-identity as1.... -p 8882 -h 192.168.178.190
```

Error: Connection refused

Error: Wrong port number - using port 8885 for client certificates

```
mosquitto_pub -u as1 --psk-identity as1.... -p 8882 -h 192.168.178.190
```

Error: The connection was lost.

Syslog New connection from 192.168.178.61 on port 8885.

Syslog SSL routines:tls_process_client_certificate:peer did not return a certificate

Syslog Socket error on client <unknown>, disconnecting.\n

Connection error: Connection Refused: identifier rejected.

```
mosquitto_pub -u as1 --psk-identity as1.... -p 8882 -h 192.168.178.190
```

Connection error: Connection Refused: identifier rejected.
Error: The connection was refused.

Syslog New connection from 192.168.7.122 on port 8884.
Syslog Socket error on client <unknown>, disconnecting.

Solution: add -I 'as1' (Capital i)

```
mosquitto_pub -u as1 --psk-identity as1.... -p 8882 -h 192.168.178.190 -I 'as1'
```

Usage of "-i" parameter depends on the mosquitto version on host and device.
When version 2.0.11 (released on 26.11.2021) is on host and 1.5.4 on the device this additional parameter is needed

Error: Handset has no License enabled

```
mosquitto_pub -u as1 --psk-identity as1.... -p 8882 -h 192.168.178.190
```

There will be no error

Syslog AML messaging disabled for this hs: 035edb3a92\n

Error: MQTT username or password is wrong

```
mosquitto_pub -u as1 --psk-identity as1.... -p 8882 -h 192.168.178.190
```

Error: A TLS error occurred.