

LinkSmart Demo

This page provides an overview of public LinkSmart services and demos:

[[MQTT Broker](#)] [[Grafana](#)]

MQTT Broker

This is a public Mosquitto MQTT broker that can be used freely for a variety of IoT application.

URI	ssl://demo.linksmart.eu:8883
Hostname	demo.linksmart.eu
Port	8883
Username	linksmart
Password	demo

The communication with the broker is encrypted with a CA signed certificate. Example usages are provided below.

Mosquitto Client

(<https://mosquitto.org/>)

Mosquitto client does not use the system root certificates automatically. This may work on your Linux machine (subscribe to all (#)):

```
mosquitto_sub -h demo.linksmart.eu -p 8883 -u linksmart -P demo -d --capath /etc/ssl/certs -t "#"
```

If it doesn't, we must provide a CA bundle certificate manually. Here, we'll download and use [CA certificates extracted from Mozilla](#):

```
curl -O https://curl.haxx.se/ca/cacert.pem
```

Subscribe to all (#):

```
mosquitto_sub -h demo.linksmart.eu -p 8883 -u linksmart -P demo -d --cafile cacert.pem -t "#"
```

Publish to "test":


```
mosquitto_pub -h demo.linksmart.eu -p 8883 -u linksmart -P demo -d --cafile cacert.pem -t "LS/test" -m "hello there"
```

MQTT.fx

(<https://mqttfx.jensd.de/>)

Enable SSL and provide the username and password:

Profile Name

Profile Type 

MQTT Broker Profile Settings

Broker Address

Broker Port

Client ID

General **User Credentials** **SSL/TLS** Proxy LWT

Enable SSL/TLS Protocol

CA signed server certificate


CA certificate file

CA certificate keystore

Self signed certificates

Self signed certificates in keystores

Profile Name

Profile Type 

MQTT Broker Profile Settings

Broker Address

Broker Port

Client ID

General **User Credentials** SSL/TLS Proxy LWT

User Name

Password

Subscribe to # to see what is currently being published to the broker. Or just publish some test messages yourself:


[Publish](#)
[Subscribe](#)
[Scripts](#)
[Broker Status](#)
[Log](#)

»

Hello World!

MQTT over WebSockets

The LinkSmart Demo also supports MQTT connections via WebSockets (SSL-encrypted on port 9002). You can try this by running [HiveMQ's Websockets Client Showcase](#). The SSL checkbox is currently not available on their website so you will need to download the client from [here](#) and run it locally on your machine (make sure to check SSL and to provide username and password):


Websockets Client Showcase

Connection ● connected ⌵

Host *	Port *	ClientID *		
<input type="text" value="demo.linksmart.eu"/>	<input type="text" value="9002"/>	<input type="text" value="clientId-vMtGy2YuSk"/>	<input type="button" value="Disconnect"/>	
Username	Password	Keep Alive	SSL	Clean Session
<input type="text" value="linksmart"/>	<input type="password" value="...."/>	<input type="text" value="60"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Last-Will Topic	Last-Will QoS		Last-Will Retain	
<input type="text"/>	<input type="text" value="0"/>		<input type="checkbox"/>	
Last-Will Message				
<input type="text"/>				

Publish ⌵

Topic	QoS	Retain	
<input type="text" value="LS/my_topic"/>	<input type="text" value="0"/>	<input type="checkbox"/>	<input type="button" value="Publish"/>
Message			
<input type="text" value="Hello World!"/>			

Subscriptions ⌵

Qos: 2 x

LS/my_topic

Messages ⌵

2018-09-10 10:35:36
Topic: LS/my_topic
Qos: 0

Hello World!

Grafana

We use [Grafana](#) to view and analyse a variety of sensor data. LinkSmart provides the following Grafana Plugins:

Name	Plugin Page	Demo
LinkSmart SensorThings (Data source plugin for visualizing OGC SensorThings sensor and location data.)	Link	Dashboard