# MQTT

*Applies to: SocketPlug, WallSwitchOne, WallSwitchDual*

Formera devices contains a MQTT client that can connect to a MQTT server and publish local changes and subscribe to control messages.

* MQTT 1.3.1 compliant
* Connections can be secured using TLS 1.0

## MQTT settings in web UI or using REST Api

### Web UI

*TODO: Insert screenshot*

### REST Api

Post message to settings endpoint.

PUT http://{{url}}/api/settings

Example settings json to enable MQTT:

{  
 "mqtt\_enabled": true,  
 "mqtt\_secure": false,  
 "mqtt\_host": "192.168.0.99",  
 "mqtt\_port": 1883,  
 "mqtt\_user": "username",  
 "mqtt\_token": "passw@rd"

}

Power cycle or issue reset command to reboot device after changing settings.

## Topics

### Status topic

Online status of the device. The device will publish a persistent message to this topic when connected or disconnected. The message carries a Last Will of “offline”.

{mqttUser}/{deviceId}/status

Message content

online | offline

### Relay status and control topic

These topics can be subscribed to on the MQTT server to receive updates and to control the device relay.

Device publishes to this topic:

{mqttUser}/{deviceId}/switches/{switchId}

Switch id is zero based index. i.e 0 for SocketPlug and WallSwitchOne and 0 or 1 for WallSwitchDual

Message content is ascii string containing 0 for ‘off’ and 1 for ‘on’.

“0” | “1”

For control of the device it subscribes to topic:

{mqttUser}/{deviceId}/switches/{switchId}/set

Control message content is ascii string containing 1 for ‘on’. All other content will be treated as ‘off’.

“0” | “1”