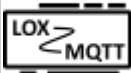


Plugin-Daten	
Autor	Martin Barnasconi
Logo	
Status	BETA
Version	0.8.1
Min. LB Version	3.0.0
Pre-Release Download	https://github.com/nufke/LoxBerry-Plugin-Lox2MQTT/archive/refs/tags/v0.8.1.zip
Beschreibung	LoxBerry plugin to enable communication between the Loxone Miniserver and MQTT
Sprachen	EN

Lox2MQTT

[Version History...](#)

[See GitHub Releases](#)

Plugin functionality

LoxBerry plugin to enable communication between the Loxone Miniserver and MQTT. This plugin connects to the Loxone Miniserver websocket and the LoxBerry MQTT Widget and publishes Miniserver control state changes over MQTT. In addition, control commands can be send over MQTT to control the Miniserver directly.

NOTE: The current version is not production ready. Use it at your own risk.

Download

The latest version of the plugin can be found in Github:

<https://github.com/nufke/LoxBerry-Plugin-Lox2MQTT>

Installation

Use the LoxBerry plugin installation procedure.

Configuration

Lox2MQTT

Lox2MQTT enables communication between the Loxone Miniserver and MQTT. It connects to the Loxone Miniserver websocket and the LoxBerry MQTT Widget and publishes Miniserver state changes over MQTT. Furthermore, specific commands can be send over MQTT to control the Miniserver directly.

Miniserver(s) configuration

This section lists the available Miniservers. Miniserver not listed? Configure your Miniservers [here](#).

Miniserver 1

Enable

Enable miniserver in MQTT communication

NOTE: Miniserver(s) configured as Client can be controlled via a Gateway Miniserver and do not need to be enabled explicitly.

Miniserver topic name

Options

Use other Miniserver login credentials

Publish structure

Publish control state changes

Retain published MQTT messages

Subscribe to MQTT to control the Miniserver

WARNING! Publishing and subscribing to control state changes will increase the load on your Loxone Miniserver and MQTT server.

Save and Apply

Lox2MQTT running, PID: 20189

The plugin detects and lists the available Miniservers. For each Miniserver, the following configuration options are available:

- **Enable Miniserver in MQTT communication:** Enable or disable Miniserver in MQTT communication (default: enabled). Note that Miniserver(s) configured as Client can be controlled via a Gateway Miniserver and do not need to be enabled explicitly.
- **Miniserver topic name:** MQTT topic name used when publishing control state changes and subscribing to Miniserver control commands (default: loxone)
- **Options:**
 - **Use other Miniserver login credentials:** Connect to the Miniserver as a different user (default: false)
 - **Publish structure:** the Miniserver structure is published over MQTT (default: false)
 - **Publish control state changes:** the Miniserver control state changes are published over MQTT (default: false)
 - **Retain published MQTT messages:** Published MQTT messages will be retained by the MQTT server (default: false)
 - **Subscribe to MQTT to control the Miniserver:** Control commands sent over MQTT will control the Miniserver (default: false)
- **Miniserver username:** Miniserver username (if enabled, default: empty)
- **Miniserver password:** Miniserver password (if enabled, default: empty)

When saving the configuration, the Lox2MQTT plugin will be restarted automatically. Updates to the general Miniserver settings or plugin logging level will also restart this plugin. The process status of the Lox2MQTT plugin is shown at the bottom of the configuration page. When the status is colored green, the process is running as expected. In case of issues, the text color is red and check the log file for more details.

WARNING! Publishing and subscribing to control state changes will increase the load on your Loxone

Miniserver(s) and MQTT server.

Broadcasting Miniserver state changes over MQTT

Each Miniserver state change is broadcasted over MQTT, using the following topic structure:

```
<mqttTopic>/<serialnr>/<uuid> <value>
```

Each MQTT message uses a topic name `<mqttTopic>` as is defined in the configuration, to identify messages send to or from a Loxone Miniserver. The next topic level specifies the serial number `serialnr` of the Miniserver, followed by a unique identifier `uuid` representing a control state, which can be found in the Loxone structure file `LoxAPP3.json` on your Miniserver.

If enabled, each last Miniserver control state broadcast is retained by the MQTT server. This enables MQTT clients to receive the latest state values immediately after subscribing to the topic.

Example

```
loxone/0123456789AB/01234567-abcd-0123-ffffeeeeddddcccc 0.8431345820426941
```

Where `loxone` is the MQTT topic indicating a Miniserver message, `0123456789AB` is the Miniserver serial nr., and `01234567-abcd-0123-ffffeeeeddddcccc` the `uuid` of the control state, and the value is `0.8431345820426941`.

Broadcasting Miniserver structure over MQTT

Broadcasting the Miniserver structure might be relevant for MQTT subscribers such as mobile apps to receive information on the available controls, their properties, capabilities and states. If enabled, the Miniserver structure (`LoxAPP3.json`) is broadcasted over MQTT, but only once, at plugin startup. It uses the following topic structure:

```
<mqttTopic>/<serialnr>/structure <LoxAPP3.json>
```

If enabled, the Miniserver structure is retained by the MQTT server. This enables MQTT clients to receive the latest structure immediately after subscribing to the topic.

Controlling the Loxone Miniserver over MQTT

To control a Loxone Miniserver, a messages should be send using the following topic structure:

```
<mqttTopic>/<serialnr>/<uuid>/cmd <command> or  
<mqttTopic>/<serialnr>/<uuid>/<subcontrol>/cmd <command>
```

Note that Loxone subcontrols share the same `uuid` inherited from the parent control, and therefore define an additional string `subcontrol`. The name for the `subcontrol` can be found in the Loxone Miniserver structure file `LoxAPP3.json` listed under the `uuid` of the parent control.

Example

```
loxone/0123456789AB/01234567-abcd-0123-ffffeeeeddddcccc/cmd Off
```

In this example, a switch on Miniserver 0123456789AB with uuid 01234567-abcd-0123-ffffeeeeddddcccc is switched Off.

FAQ

Q: What is the difference between the LoxBerry MQTT Gateway and Lox2MQTT?

A: LoxBerry MQTT Gateway communicates to the Miniserver via HTTP Virtual Inputs or UDP messages, which require additional infrastructure in your LoXone Config program. The Lox2MQTT plugin connects to the Miniserver websocket and has direct access to the Miniserver controls and states. Therefore there are no changes required in your LoXone Config program.

Q: I receive state information from my Miniserver over MQTT, but I do not recognize the format and identifiers

A: A received MQTT message has the following format: `<mqttTopic>/<serialnr>/<uuid><value>`. Each MQTT message uses the Miniserver topic name (`mqttTopic`) as defined in the configuration to identify messages coming from a LoXone Miniserver. The next topic level specifies the serial number (`serialnr`) of your Miniserver, followed by the unique identifier (`uuid`) representing a control state as defined in the LoXone structure file `LoxAPP3.json` on your Miniserver.

Q: Can I change the Miniserver control states via MQTT?

A: Yes, you can send MQTT messages which are converted to commands for the LoXone Miniserver. A transmitted MQTT message should have the following format: `<mqttTopic>/<serialnr>/<uuid>/cmd <command>`. Note the command extension (`/cmd`) in this message, which has been added to the unique identifier of a control or subcontrol. The allowed values for command are defined in the [LoXone Structure File](#).

Q: Where can I find my LoXone Miniserver structure file `LoxAPP3.json`?

A: You can download your structure file via URL http://miniserver_ip_address/data/LoxAPP3.json or access it via FTP in directory `web/data/LoxAPP3.json`. In both cases, login credentials are required.

Issues and questions

Please submit your issues and questions via the GitHub issue tracker:

<https://github.com/nufke/LoxBerry-Plugin-Lox2MQTT/issues> or use [https://www.loxforum.com/Lox2MQTT thread](https://www.loxforum.com/Lox2MQTT-thread)

From:

<https://wiki.loxberry.de/> - **LoxBerry Wiki - BEYOND THE LIMITS**

Permanent link:

<https://wiki.loxberry.de/plugins/lox2mqtt/start>

Last update: **2025/02/15 14:44**