

HOW-TO

Integration Cloud2Cloud Via OAuth2

Important Note

Cloud2Cloud integration requires a license.
Please visit www.whatwatt.ch/pricing for more information.



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Version	Date	Author	Changes
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1.	Introduction	4
2.	Setup on whatwatt	4
3.	Add whatwatt Go devices to Integration	4
4.	OAuth2 Authorization	4
5.	REST API Calls for Authorized User	4
6.	Integration with whatwatt MQTT Service	4

1. Introduction

This document describes how to integrate with whatwatt Cloud to collect real time telemetry data from whatwatt Go devices connected to the smart meters.

Telemetry data is available on whatwatt Cloud's MQTT service. MQTT protocol is efficient, reliable and secure and is considered as an industry standard for IoT messaging. To integrate with whatwatt Cloud it is only required to connect to whatwatt MQTT service and to subscribe to a topic where the whatwatt Go device is publishing telemetry data with a defined frequency and format.

Important note

Cloud2Cloud integration requires a license. Please visit www.whatwatt.ch/pricing for more information.

2. Setup on whatwatt

To setup your integration on whatwatt please use contact form on www.whatwatt.ch/contact and give us the following details to whatwatt:

- **Email address** of your existing whatwatt Account.
- URL that references a **Logo of your Company**.
- **Redirect URL(s)** you want to use for OAuth2 Authorization on whatwatt Cloud.

3. Add whatwatt Go devices to Integration

Instruct your Customers to use whatwatt mobile iOS/Android application to add their whatwatt Go devices to their whatwatt Accounts.

Once the whatwatt Go device is connected to the smart meter and to the Internet it starts to publish telemetry data.

4. OAuth2 Authorization

After your request is processed you will receive the details required to make the OAuth2 Authorization on whatwatt Cloud.

5. REST API Calls for Authorized User

After your request is processed you will receive a specification of the REST API call allowing you to get all the details required to connect to whatwatt MQTT Service and start receiving telemetry data for a particular whatwatt Go device.

You are allowed to make this REST API call once a user has logged in with OAuth2 to whatwatt in your Service. Then you can ask for the connection details of any whatwatt Go device owned by this user.

6. Integration with whatwatt MQTT Service

The details required to connect to the MQTT Service and to subscribe for receiving telemetry data are:

- **URI** of whatwatt MQTT service.
- **Username** and **password** required to authorize (basic auth) on whatwatt MQTT Service.
- **Topic** to subscribe to in order to start receiving telemetry data from your whatwatt Go devices.

After your request is processed you will also receive:

- **Template** of telemetry data published by MQTT Service.
- **Public certificate** of whatwatt MQTT server. It allows the MQTT client on your side to make sure it connects to the whatwatt server.

Notes

- When connecting to the MQTT server you need to specify a Client ID. You have to use the username as the Client ID. If you want to establish multiple MQTT connections then additionally append a sequence of several (e.g. 8) random alphanumeric characters to the "username" when specifying Client ID (e.g. if username is whatwatt.integration.id-of-integration then Client ID will be whatwatt.integration.id-of-integration:GMRnajt6n). This is required because every connection (with the same username/password) needs a unique Client ID.
- MQTT Credentials do not expire.
- Recommended subscription QoS is 0 or 1 (whatwatt Go devices publish data with QoS=1).
- whatwatt Go devices can be identified by their MAC addresses (WIFI MAC/ID). The MAC address of whatwatt Go device is available in the published topic (e.g. ext/uuid/uuid/ECC9FF5C7AD4).