

Overview of the Smappee API

This document gives a general description of what values can be read out using the Smappee API.

The detailed overview can be found here:

<https://smappee.atlassian.net/wiki/spaces/DEVAPI/overview>

Overview and general description of the Smappee API Methods

- Get Servicelocations: gives an overview of all the Smappee Devices (Locations) which are setup under a specific user account (using the mobile app).
- Get Servicelocation Info: gives detailed info of specific Smappee in an account
- Get Consumption: provides the measurement values of a Smappee for a given interval
- Get Events: gives a overview of the appliance events recorded by the Smappee.
- Get Itemized bill: Provides the energy consumption per appliance during a specified range of time.
- Actuator ON: Command to switch ON a specified comfort plug connected to the Smappee
- Actuator OFF: Command to switch OFF a specified comfort plug connected to the Smappee
- Get Sensor Consumption: gives measurement values of the Gas & Watermonitor

1. Get Servicelocations

'Get Servicelocations' gives a list of all the Smappee Devices (Locations) with setup under a specific user account.

2. Get Servicelocation Info

'Get Servicelocation' Info gives the following detailed info of one specific Smappee device:

- Name specific by the user
- Timezone
- Physical Location (longitude, latitude) as specific using the user using the mobile app.
- Tarif and currency of the electricity
- List of appliances recognized by the Smappee NILM Technology (general name added by the user and type)
- Actuators: list with name of the Comfort Plug which are setup using the mobile app.
- Sensors: overview of the Gas & Water meter(s) connected to the Smappee. This gives an overview of the setup of the inputs

- Channel Configuration:
 - For Smappee Plus / Pro: overview of the different inputs (channels) and their configuration:
 - Name
 - Phase
 - Input type (consumption, production, submeter)
 - Reversed activation state (true, false)
 - NILM activation state (true, false)
 - Balanced activation state (true, false)
 - CT Type config (50A, 200A, 400A)
 - All Smappee Monitors: overview of the different MQTT topics

3. Get Consumption

'Get Consumption' provides the electricity consumption and production values of electricity for a given interval.

The following type aggregation values for electricity consumption can be read are:

- 5 min values (only available for the last 14 days)
- Hourly values
- Daily values
- Monthly values
- Quarterly values

The electricity consumption values that are read:

- Total (Active Power) Consumption, in watt hours (Wh)
- Total Production (Solar), in watt hours (Wh)
- Always ON, in watt (Wh – version 2)

For Smappee Plus and Pro monitors only, the following data is also reported:

- Active & Reactive Power Consumption per input (channel), in watt hours (VARh)
- Voltages per phase (V)

4. Get Events

'Get Events' gives an overview of the appliance events recorded by the Smappee and the (active) power of the appliance:

- Power value (watts) as a result of the appliance event. Positive value in case the appliance is switched on (power increase of the appliance), negative value in case the appliance is switched off (power decrease of the appliance).
- Total power (watts) after the event: this describes the total load of the complete installation. This value indicates the current status of the total load in the installation when appliance is switch on.

5. Get Itemized bill

Returns the breakdown of energy consumption per appliance during a specified range of time.

The call supports two aggregation levels to obtain different levels of details:

- Monthly values of
- Yearly values

6. Actuator ON/OFF

'Actuator ON or OFF' are command to turn a specified comfort plug connected to the Smappee ON or OFF. This can be done for a specific period or permanently.

The interval of which the comfort plugs can be turned on are 300,900,1800 or 3600 seconds. Any other value results in turning on for an undetermined period of time.

7. Get Sensor Consumption

'Get Sensor Consumption' gives the setup and measurements values of the sensor (puls) inputs of the Gas & Water meter(s) that is connected to the Smappee.

The following type aggregation values can be read are:

- 5 min values (only available for the last 14 days)
- Hourly values
- Daily values
- Monthly values
- Quarterly values

The values that are read from the Gas & Watermonitor are:

- Timestamp (UTC stamp)
- Value of input 1
- Values of input 2
- Temperature (°Celsius multiplied by factor 10)
- Relative Humidity (%)
- Battery level (%) Total (Active Power) Consumption, in watt hours (Wh)