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SYMPHOLIGHT Gateway KNX



Quick Start Guide

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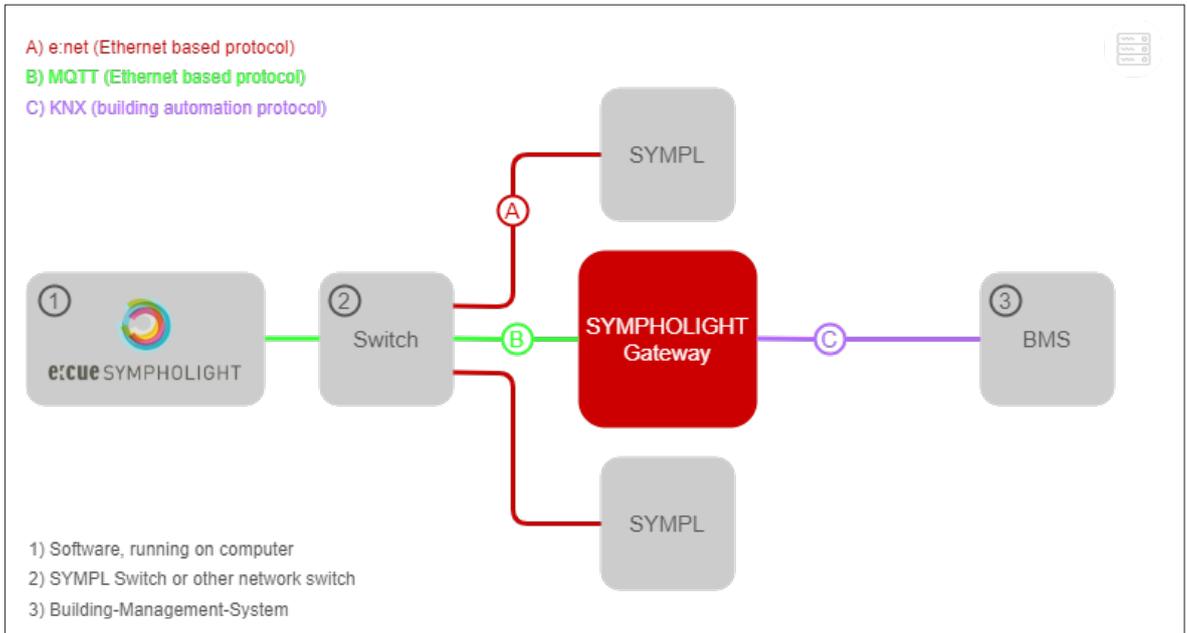
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Quick Start Guide

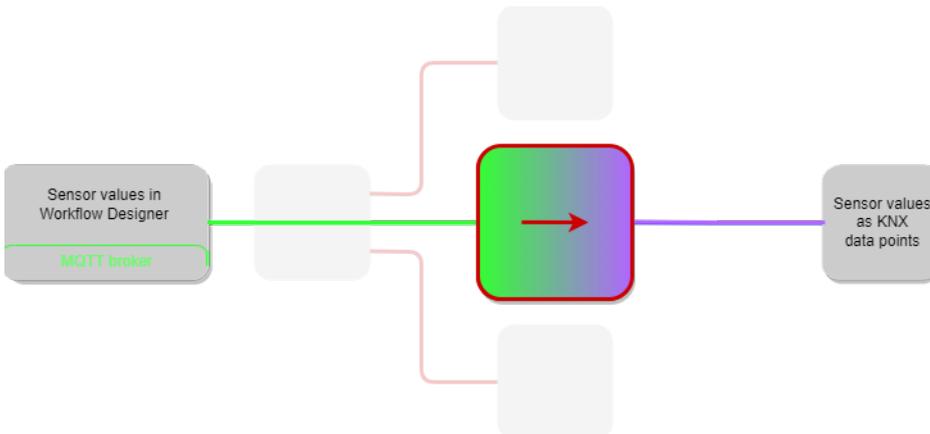
The basic steps to set up the SYMPHOLIGHT Gateway KNX

Overview



In the course of the setup, you will need to:

1. install the SYMPHOLIGHT Gateway KNX ([chapter 1 on page 03](#));
2. configure the networks to enable the communication between SYMPHOLIGHT and the gateway ([chapter 2 on page 04](#) and [chapter 3 on page 05](#));
3. prepare SYMPHOLIGHT to send information in the form of MQTT data ([chapter 4 on page 07](#));
4. configure the SYMPHOLIGHT Gateway KNX to receive MQTT data points ([chapter 5 on page 10](#));
5. configure the SYMPHOLIGHT Gateway KNX to send KNX data ([chapter 6 on page 11](#));
6. define the conversion of MQTT to KNX data points ([chapter 7 on page 12](#)).



0 To get started you need:

- 0.1 Configured and running KNX system.
- 0.2 Computer with SYMPHOLIGHT installed.
- 0.3 SYMPHOLIGHT license.
- 0.4 Additional SYMPHOLIGHT credit for MQTT communication with the SYMPHOLIGHT Workflow Designer.



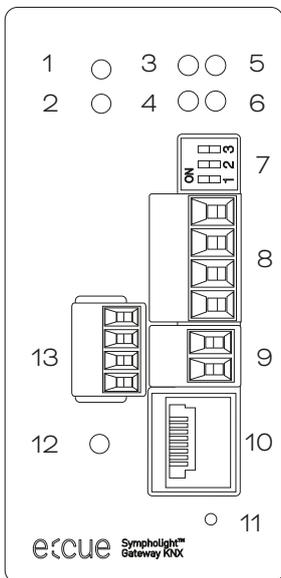
If you need a credit, contact your local e:cue partner or support@ecue.com.

- 0.5 Network cable (RJ45).
- 0.6 optional: Network switch.

1 Install the SYMPHOLIGHT Gateway KNX

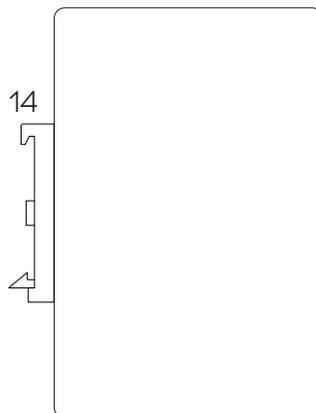
- 1.1 Mount the SYMPHOLIGHT Gateway KNX.
- 1.2 Connect all cables (power supply, Ethernet) to the SYMPHOLIGHT Gateway KNX.

View from front:



- 1 LED KNX Rx
- 2 LED KNX Tx
- 3 LED Power
- 4 LED Status
- 5 LED - no function
- 6 LED - no function
- 7 DIP switches - no function
- 8 RS-485 interface - no function
- 9 Power supply (V - or GND, V + top to bottom)
- 10 Ethernet port
- 11 Reset button
- 12 LED KNX Power
- 13 KNX interface
- 14 DIN rail bracket

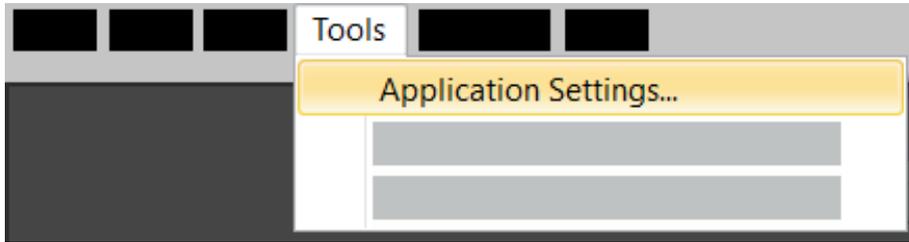
View from side:



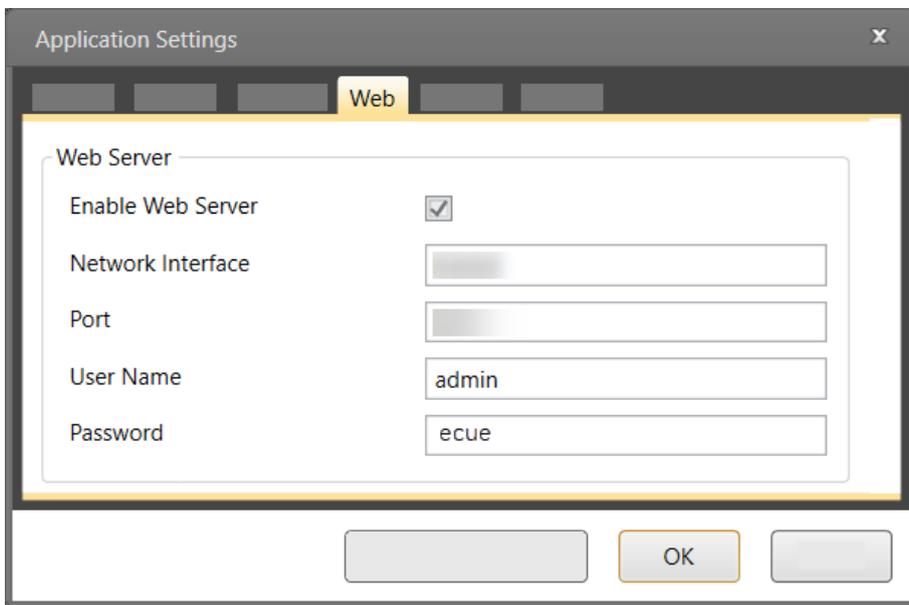
- 1.3 Power on the device.

2 Configure the network and web server of SYMPHOLIGHT

- 2.1 Open SYMPHOLIGHT on the computer.
- 2.2 Go to *Tools | Application Settings*.



- 2.3 Go to *Web*.
Enable the web server. Select its network interface and port. Set the user name and password (default: admin, ecue).

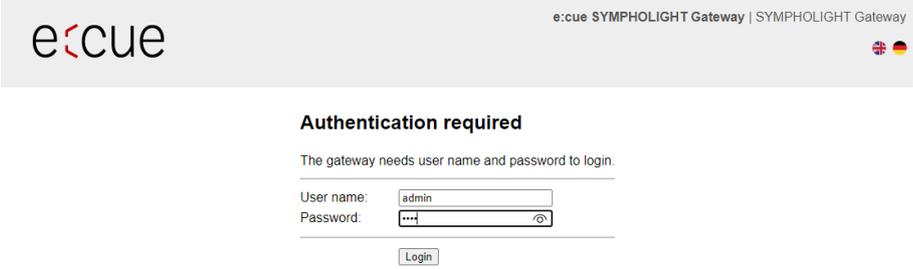


3 Configure the network of the SYMPHOLIGHT Gateway KNX

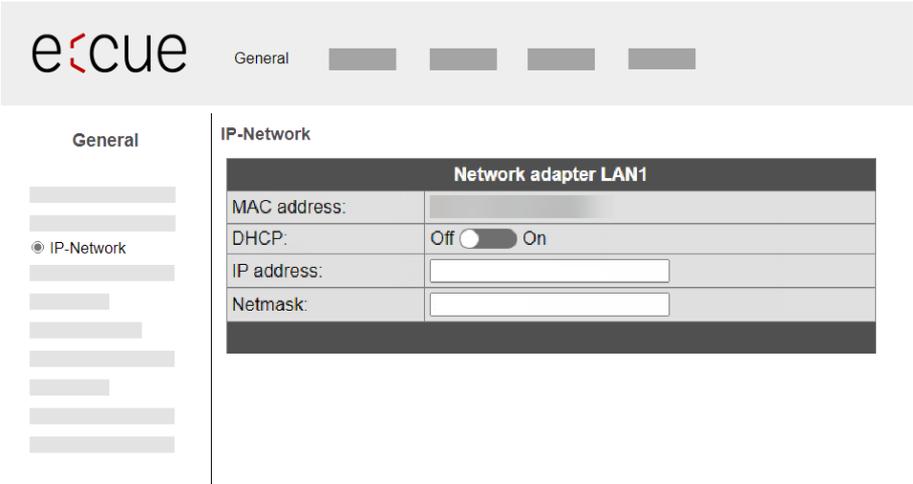
- 3.1 Connect the SYMPHOLIGHT Gateway KNX to your computer with a network cable.
 Enter the IP address of the SYMPHOLIGHT Gateway KNX web server in a web browser: `http://192.168.123.1`
 Default settings:
 IP address: **192.168.123.1**
 Network mask: **255.255.0.0**

i Note that your computer's LAN connection has to be set appropriately. For a manual setting, define the IP address as 192.168.123.2, for example. The network mask must match that of the SYMPHOLIGHT Gateway KNX.

- 3.2 Enter the user name and password.
 Default settings:
 User name: **admin**
 Password: **ecue**



- 3.3 Go to **General | IP-Network**.
 Configure the **Network adapter LAN1** (**DHCP**, **IP address** and **network mask**) for the SYMPHOLIGHT Gateway KNX.



3.4 Go to **MQTT | Settings**.

Configure the following **User settings** for the MQTT driver:

Host = IP address of the web server of SYMPHOLIGHT (see [step 2.3](#))

Port = 8883

User = User name of the web server of SYMPHOLIGHT (see [step 2.3](#))

Password = Password of the web server of SYMPHOLIGHT (see [step 2.3](#))

Encryption: enable

The screenshot displays the e:cue web interface for MQTT driver settings. The top navigation bar includes the e:cue logo and a 'MQTT' menu item. On the left, a sidebar shows 'MQTT' and 'Settings' (selected). The main content area is titled '1630 - MQTT driver settings' and features a 'User settings' table with the following fields:

User settings	
Host	<input type="text"/>
Port	<input type="text" value="8883"/>
Client-ID	<input type="text"/>
User	<input type="text"/>
Password	<input type="text"/>
	<input type="text"/>
Encryption	<input type="text" value="TLSv1_2"/>

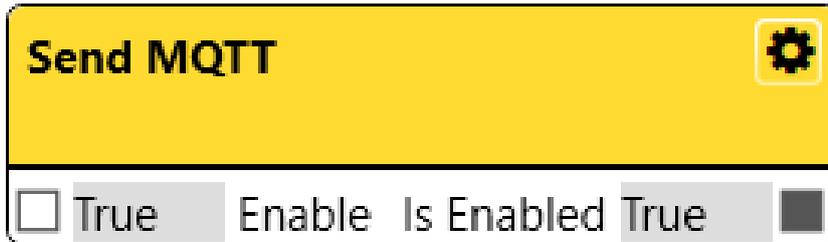
4 Prepare SYMPHOLIGHT to send information in the form of MQTT data

- Create MQTT Workflow Block in SYMPHOLIGHT

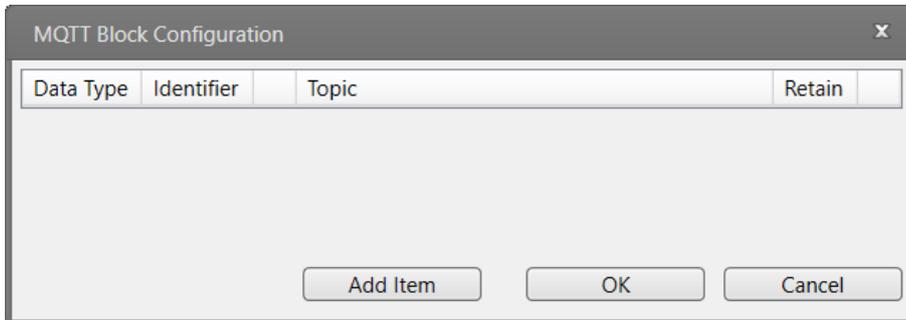
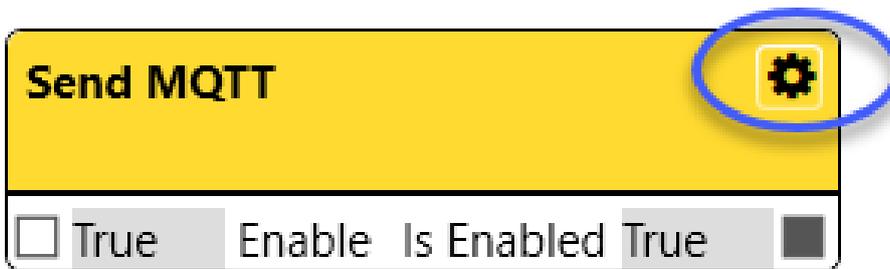
- 4.1 In SYMPHOLIGHT, go to *Automation | Workflow Designer*.



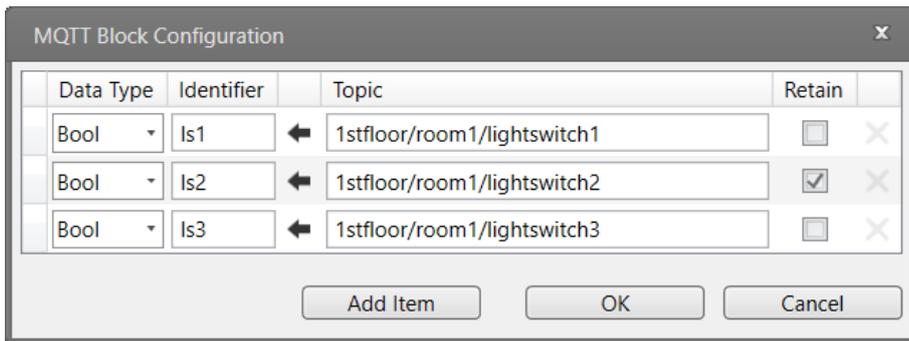
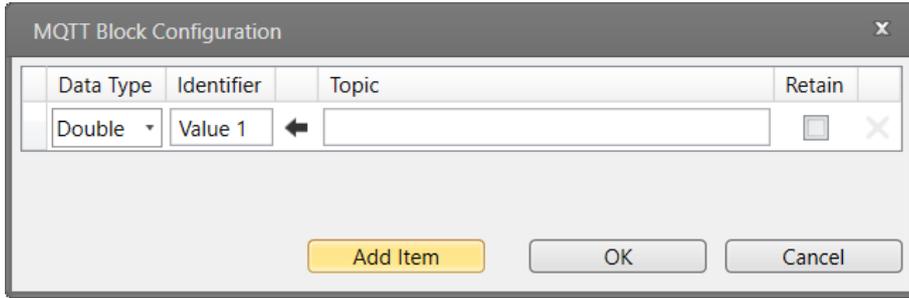
Add a *Send MQTT* Block to the Workspace.



- 4.2 Click the cogwheel icon of the *Send MQTT* Block to open the extended configuration



4.3 Add for each MQTT data point an item in the list. Configure the items accordingly (Data Type, Topic, Retain).

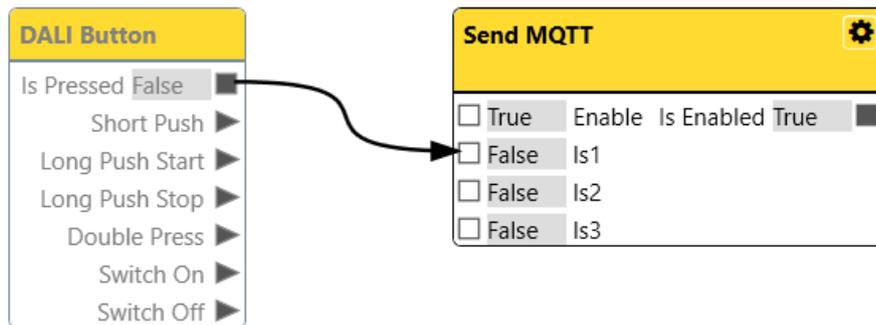


Click on  to copy the Topic entry to the Identifier entry if desired.



Note that the Topic must comply with the naming conventions. The Topic entry appears in the MQTT broker. The Identifier entry names the PortIn only.

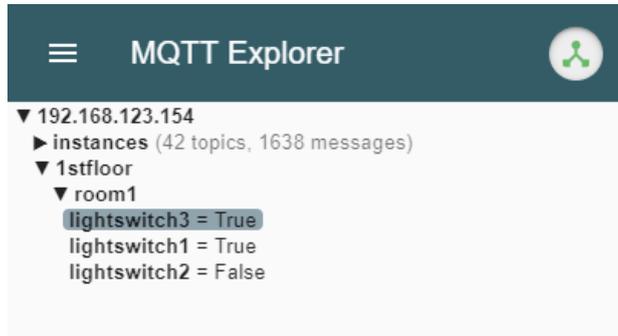
4.4 In the Workspace, connect Workflow Blocks to the Send MQTT Block as required by the installation.





You can check SYMPHOLIGHT's MQTT settings on your computer with the application "MQTT Explorer".

Example:



In the "MQTT Explorer", enter the following settings to connect to the MQTT broker in SYMPHOLIGHT:

Name: free text

Validate certificate: OFF

Encryption (tls): ON

Protocol: mqtt

Host: IP address of the web server of SYMPHOLIGHT (see [step 2.3](#))

Port: 8883

Username: User name of the web server of SYMPHOLIGHT (see [step 2.3](#)) (default: admin)

Password: Password of the web server of SYMPHOLIGHT (see [step 2.3](#)) (default: ecue)

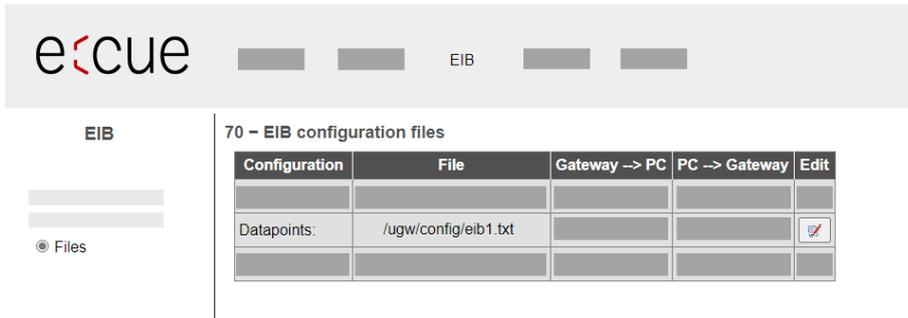
The SYMPHOLIGHT credit for MQTT communication is required.

6 Configure the SYMPHOLIGHT Gateway KNX to send KNX data

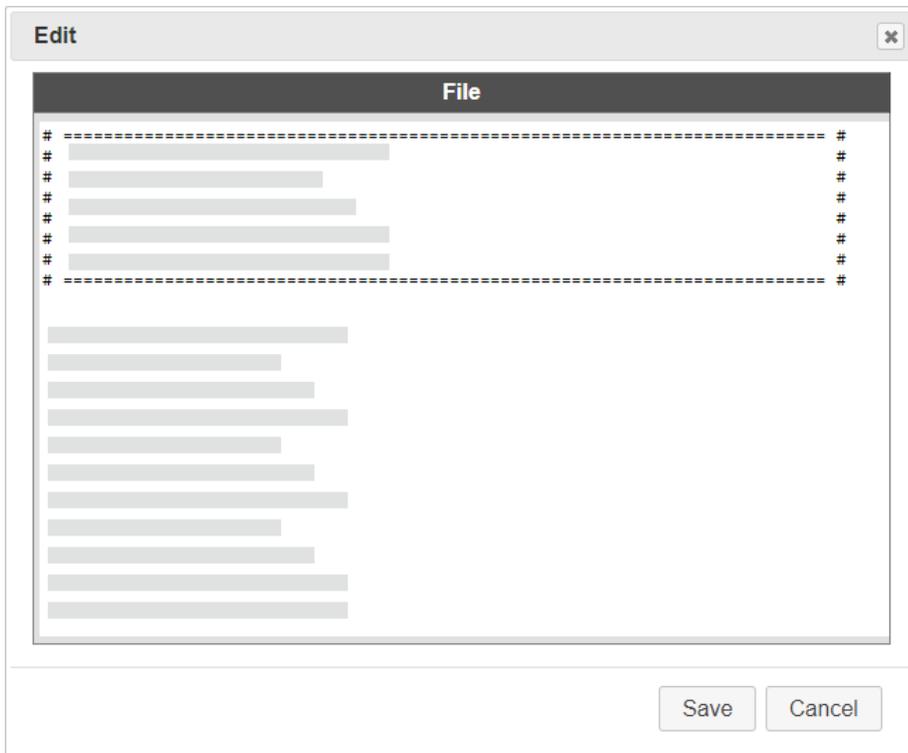
- Create KNX data points in the SYMPHOLIGHT Gateway KNX

6.1 Go to **EIB | Files**.

At **Datapoints**, click the **Edit** button.



6.2 Configure the KNX data points in the **File** pop-up window and save the configuration.



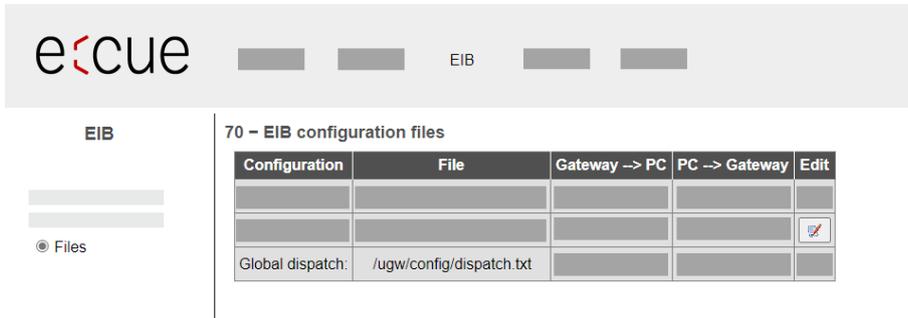
i You can import a configuration for multiple data points in one single step via **Start Upload**.

7 Define the conversion of MQTT to KNX data points

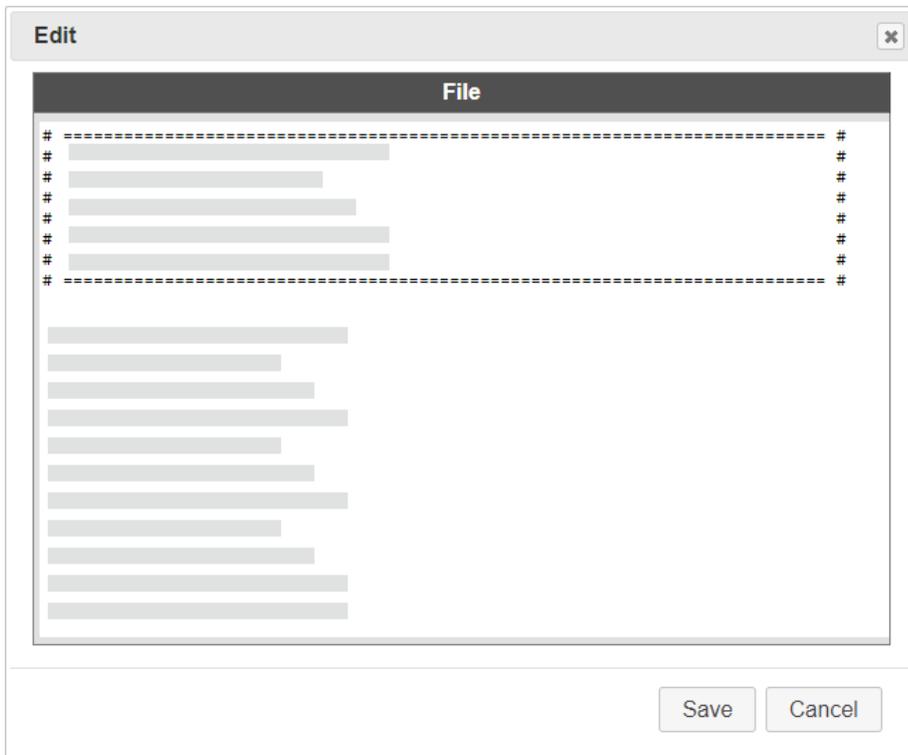
- Link the KNX data points to the MQTT data points in the SYMPHOLIGHT Gateway KNX

7.1 Go to **EIB | Files**.

At **Global dispatch**, click the **Edit** button.



7.2 Match the KNX data points to the MQTT data points in the **File** pop-up window and save the configuration.



i You can import a configuration for multiple data points in one single step via **Start Upload**.

The SYMPHOLIGHT Gateway KNX including the MQTT and KNX data points are now configured.



The Quick Start is completed.

Possible following actions:

- configure further settings of the SYMPHOLIGHT Gateway KNX
- complete the Workflow in the SYMPHOLIGHT Workflow Designer
- test your project on the installation.

Downloads and more information at:

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Problems or compliments? Please contact

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