AM476230031, AM476240031, AM476250031

SYMPHOLIGHT Gateway BACnet

Quick Start Guide

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Quick Start Guide

The basic steps to set up the SYMPHOLIGHT Gateway BACnet

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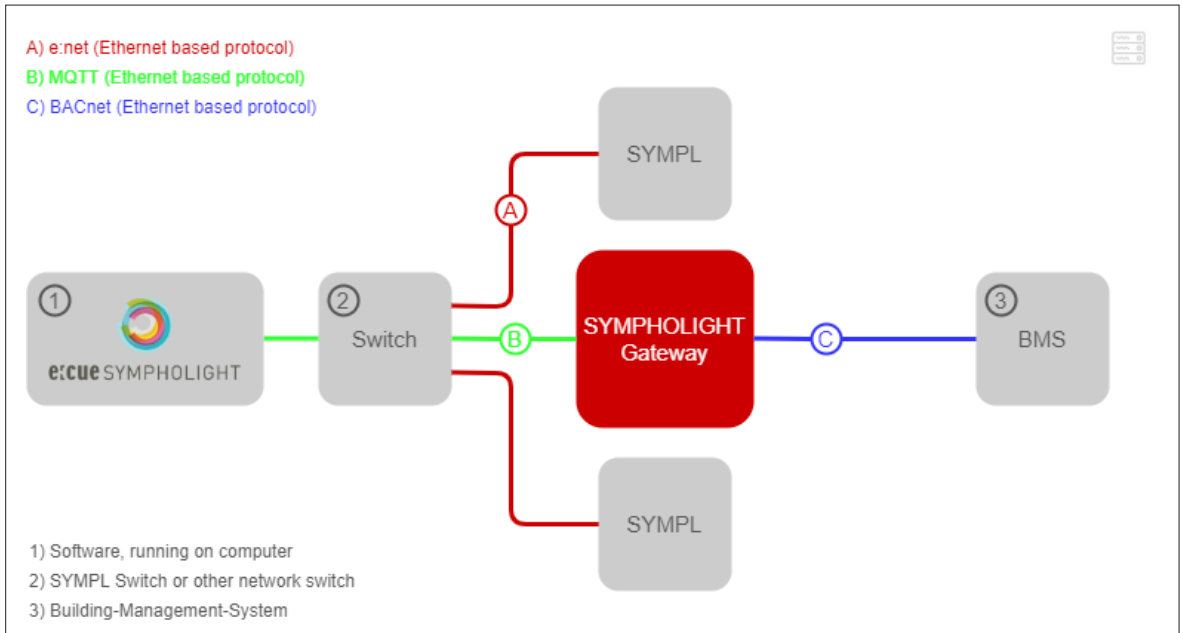
In the course of the setup, you will need to:

1. install the SYMPHOLIGHT Gateway BACnet (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);

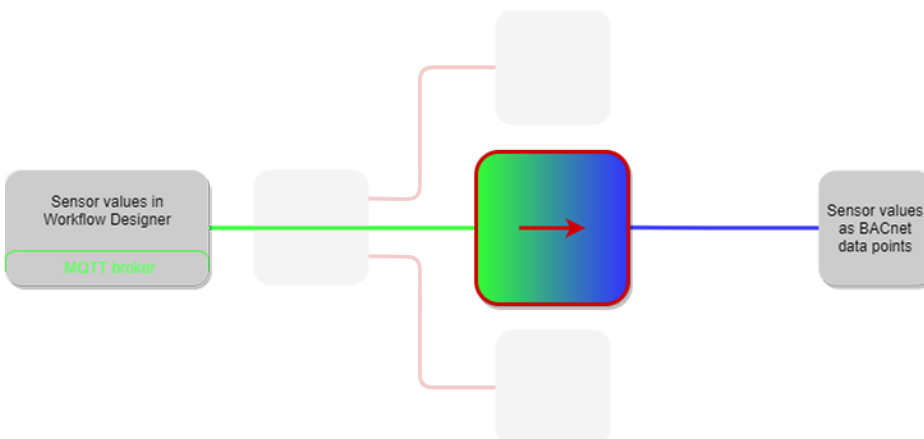3. prepare SYMPHOLIGHT to send information in the form of MQTT data (chapter 4 on page 07);

4. configure the SYMPHOLIGHT Gateway BACnet to receive MQTT data points (chapter 5 on page 10);

5. configure the SYMPHOLIGHT Gateway BACnet to send BACnet data (chapter 6 on page 11);

6. define the conversion of MQTT to Bacnet data points (chapter 7 on page 12).

0 To get started you need:

0.1   Computer with ⭕ SYMPHOLIGHT installed

0.2   SYMPHOLIGHT license

0.3   Additional SYMPHOLIGHT credit for MQTT communication with the SYMPHOLIGHT Workflow Designer

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

0.4   Network cable (RJ45)

0.5   optional: Network switch

1   Install the SYMPHOLIGHT Gateway BACnet

1.1   Mount the SYMPHOLIGHT Gateway BACnet.

1.2   Connect all cables (power supply, Ethernet) to the SYMPHOLIGHT Gateway BACnet.

View from front:
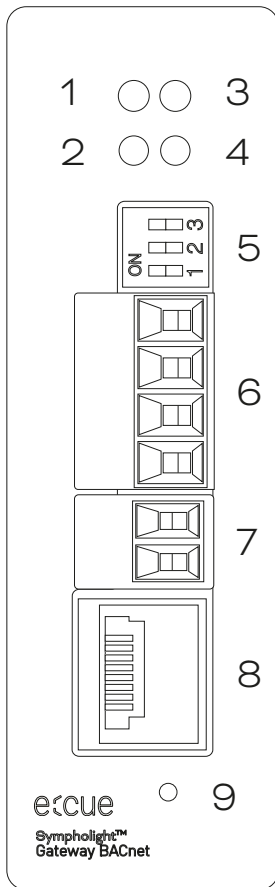
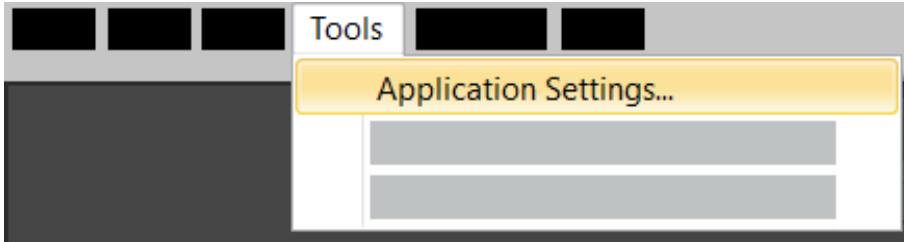|	
1	LED Power
2	LED Status
3	LED RX - no function
4	LED TX - no function
5	DIP switches - no function
6	RS485 - no function
7	Power supply (V –, V + top to bottom)
8	Ethernet port (RJ45)
9	Reset button
10	DIN rail bracket

View from side:
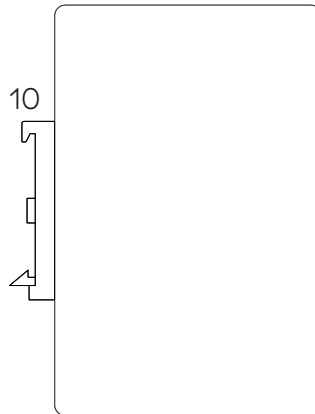
1.3   Power on the device.

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).
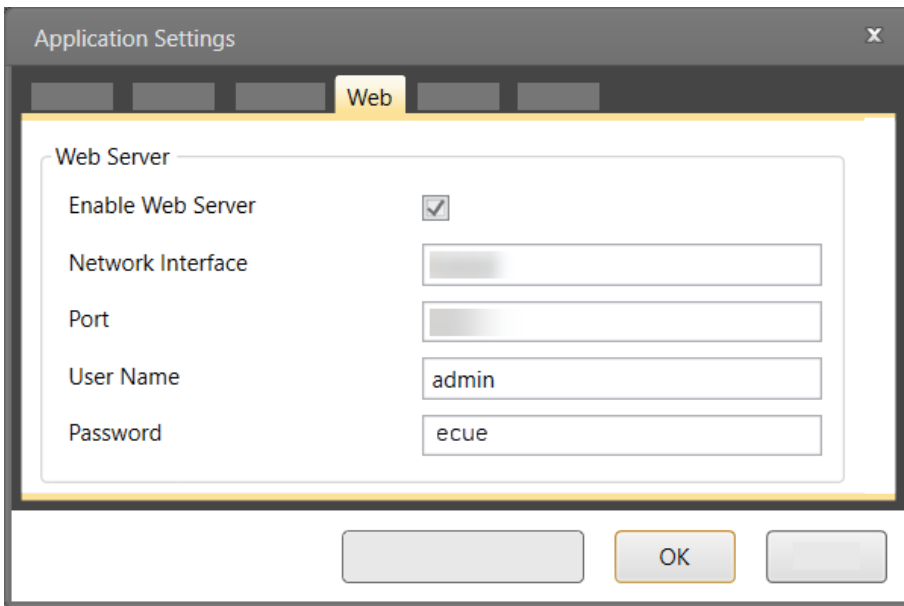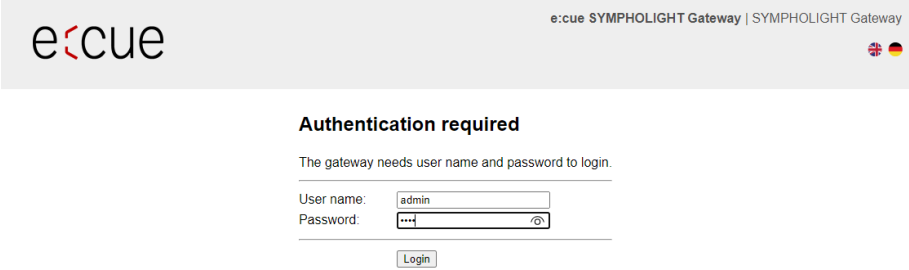
## 3 Configure the network of the SYMPHOLIGHT Gateway BACnet

3.1 Connect the SYMPHOLIGHT Gateway BACnet to your computer with a network cable.

Enter the IP address of the SYMPHOLIGHT Gateway BACnet 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**

ℹ️ 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 BACnet.

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 BACnet.
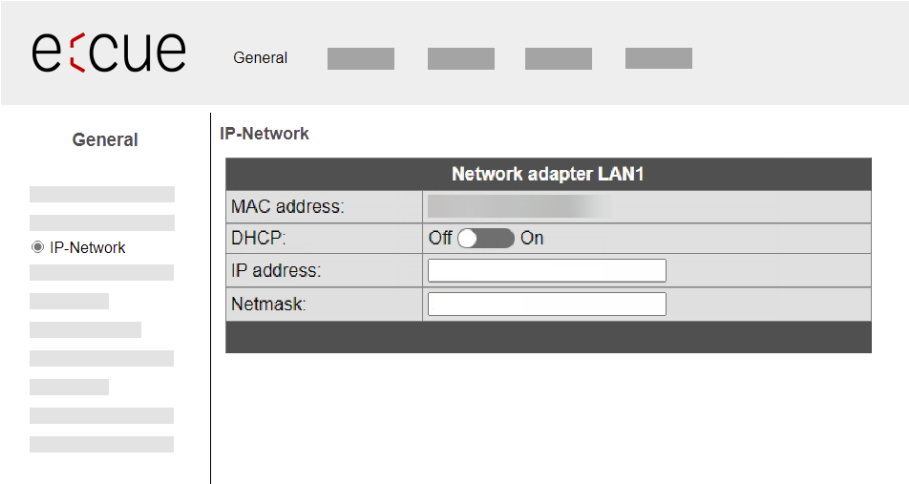
3.4   Go to *MQTT | Settings*.

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)
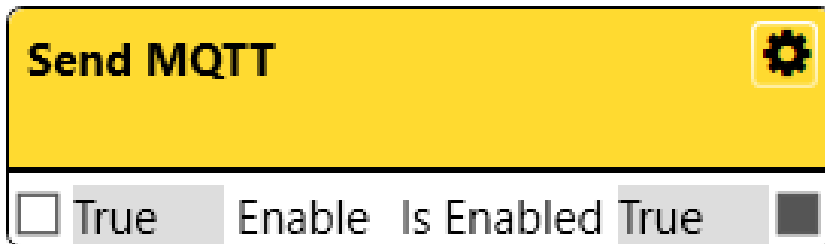
Encryption: enable

4 Prepare SYMPHOLIGHT to send information in the form of MQTT data
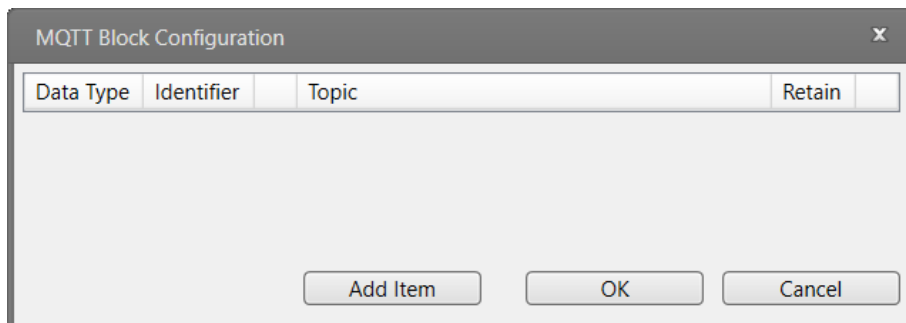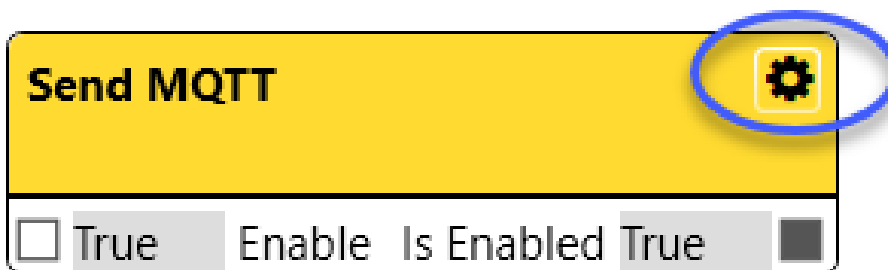
- Create MQTT Workflow Block in SYMPHOLIGHT

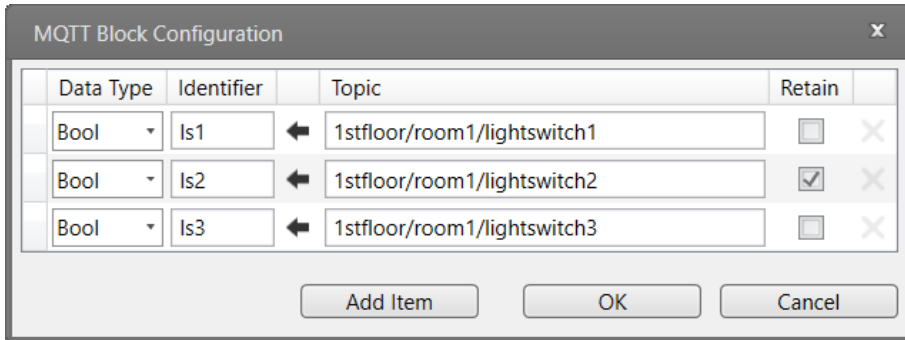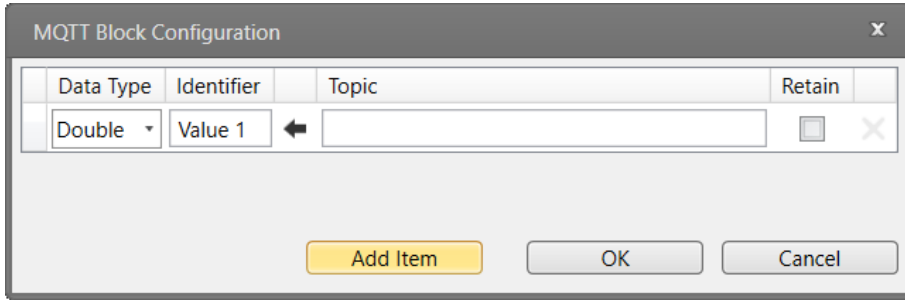4.1 In SYMPHOLIGHT, go to *Automation | Workflow Designer*.

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).
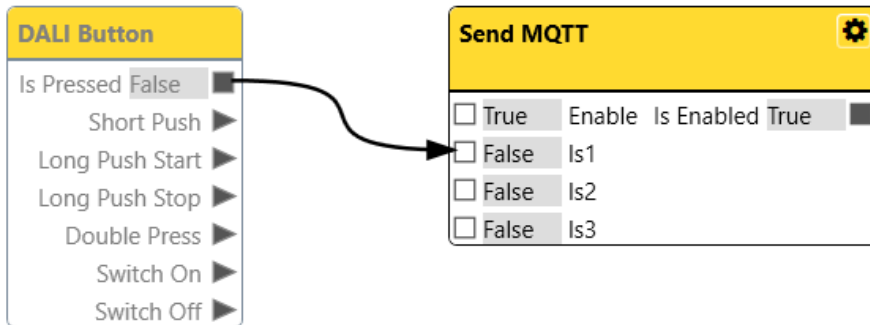

Click on ← to copy the *Topic* entry to the *Identifier* entry if desired.

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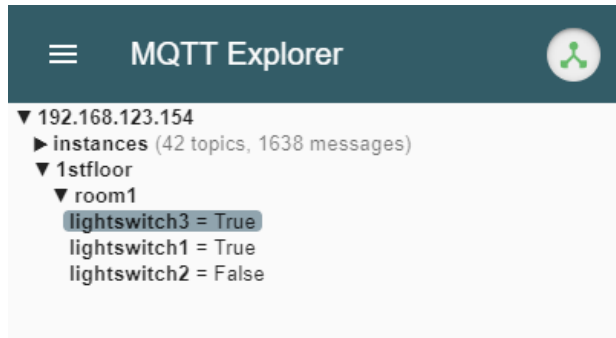The *Topic* entry appears in the MQTT broker. The *Identifier* entry names the PortIn only.

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

i   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 certifcate: 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)

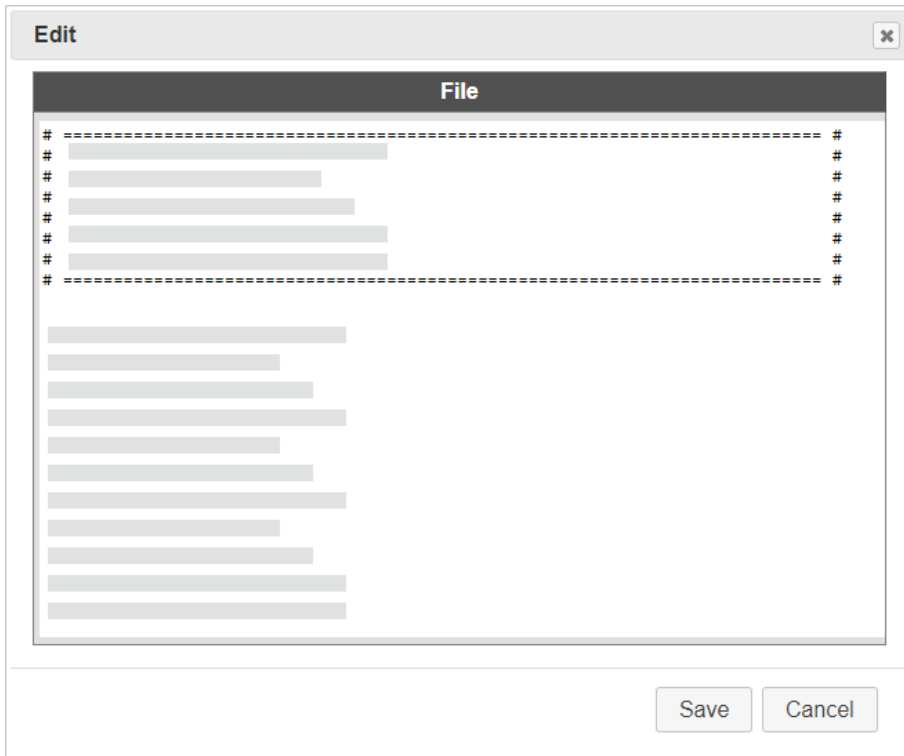The SYMPHOLIGHT credit for MQTT communication is required.

5 Configure the SYMPHOLIGHT Gateway BACnet to receive MQTT data points

- Create MQTT data points in the SYMPHOLIGHT Gateway BACnet

5.1   At the web interface of the SYMPHOLIGHT Gateway BACnet , go to _MQTT | Files_.

At _Datapoints_, click the _Edit_ button.
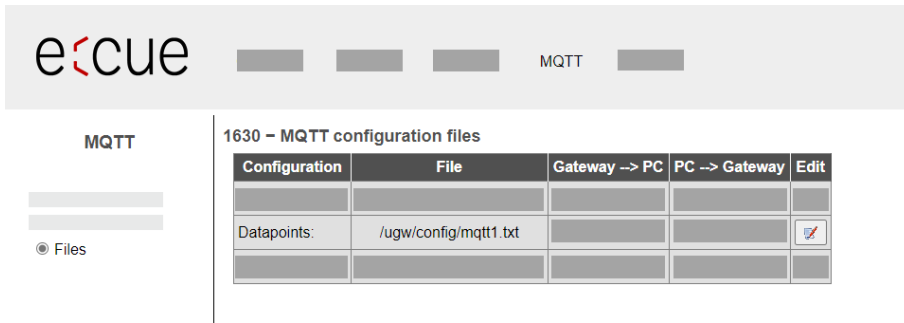
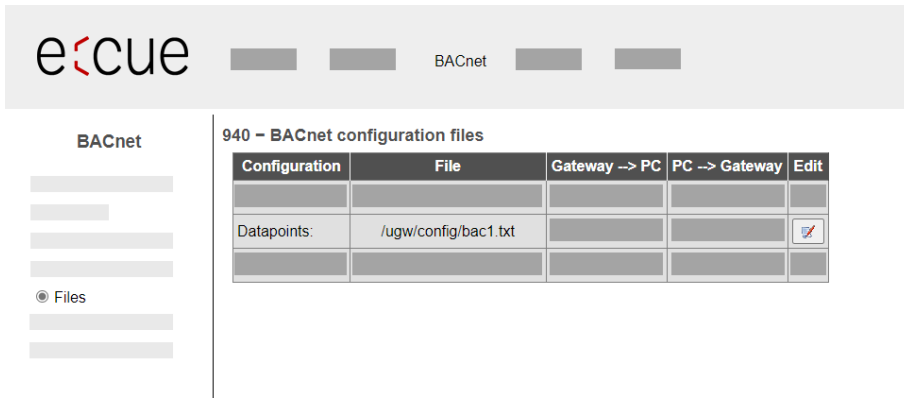5.2   Configure the MQTT data points in the _File_ pop-up window and save the configuration.

ℹ   You can import a configuration for multiple data points in one single step via _Start Upload_.

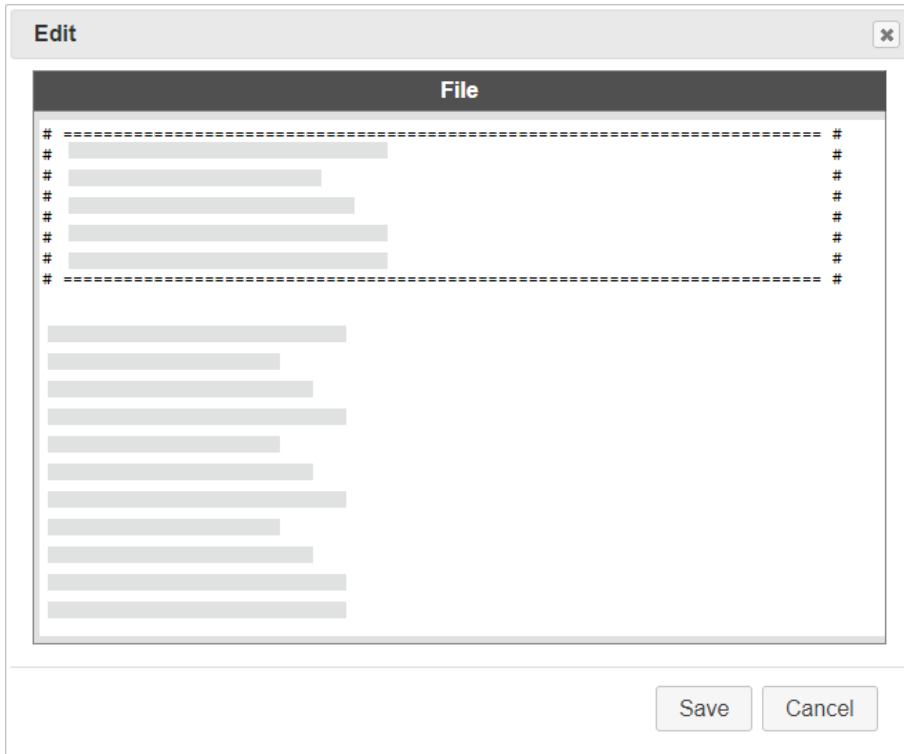## 6 Configure the SYMPHOLIGHT Gateway BACnet to send BACnet data

- Create BACnet data points in the SYMPHOLIGHT Gateway BACnet

6.1   Go to *BACnet | Files*.

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

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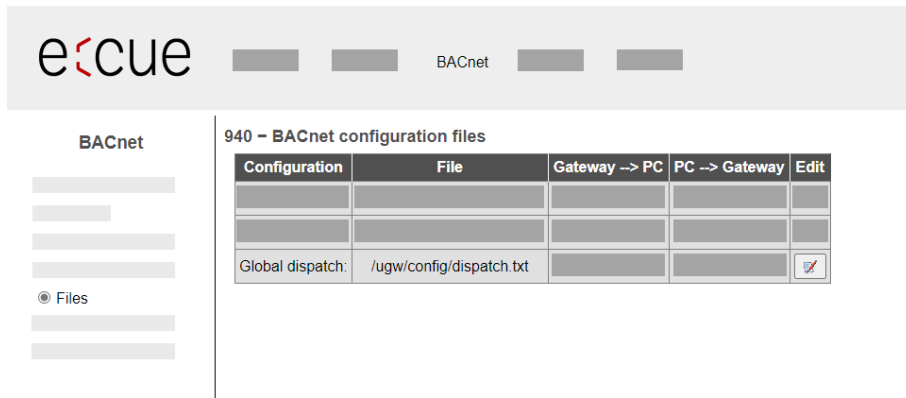

ℹ You can import a configuration for multiple data points in one single step via *Start Upload*.
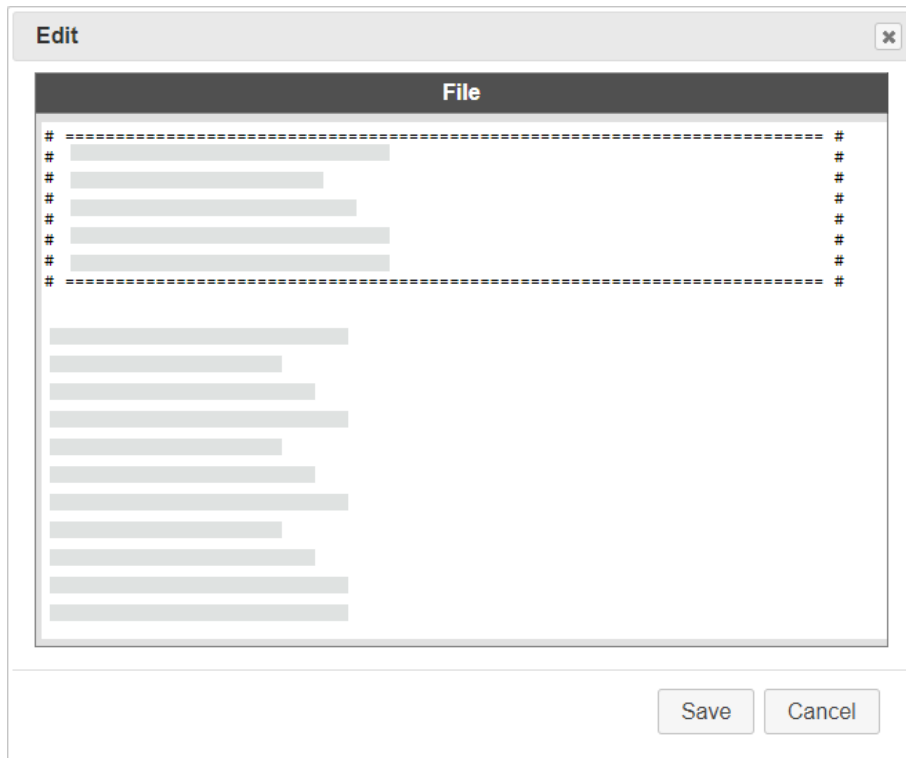
7   Define the conversion of MQTT to Bacnet data points

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

7.1   Go to *BACnet | Files*.

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

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

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

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

The Quick Start is completed.

Possible following actions:

- configure further settings of the SYMPHOLIGHT Gateway BACnet

- complete the Workflow in the SYMPHOLIGHT Workflow Designer

- configure the BMS for the incoming BACnet data

- test your project on the instllation.

Downloads and more information at:

www.ecue.com and www.traxon-ecue.com

Problems or compliments? Please contact
support@ecue.com

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