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SYMPHOLIGHT Gateway BACnet



Quick Start Guide

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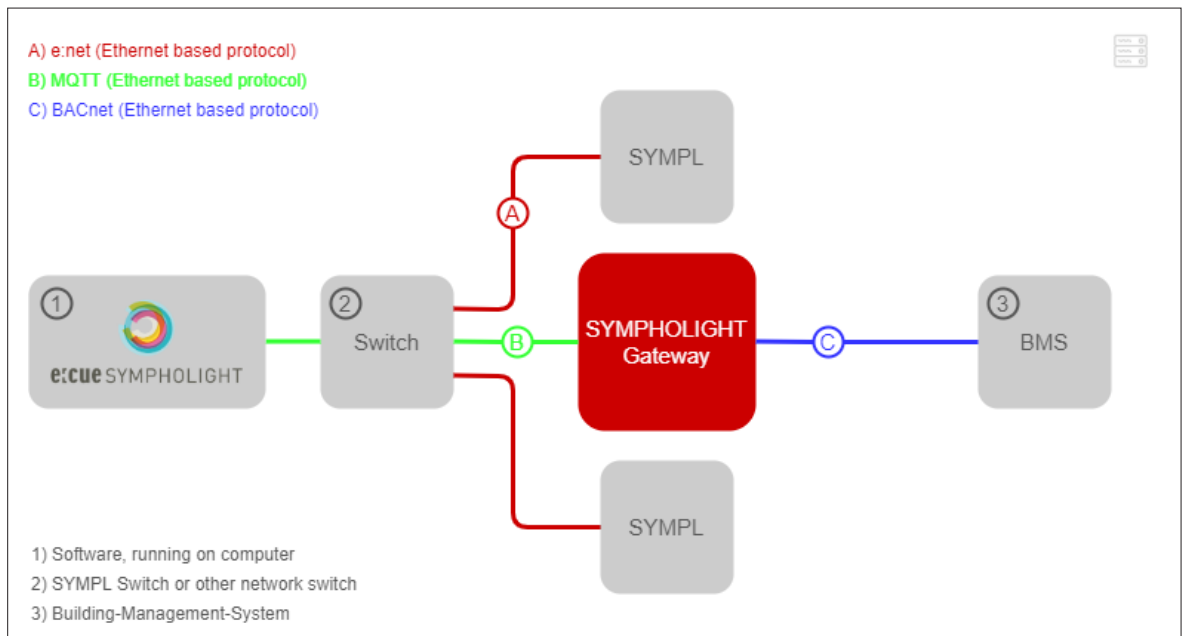
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Quick Start Guide

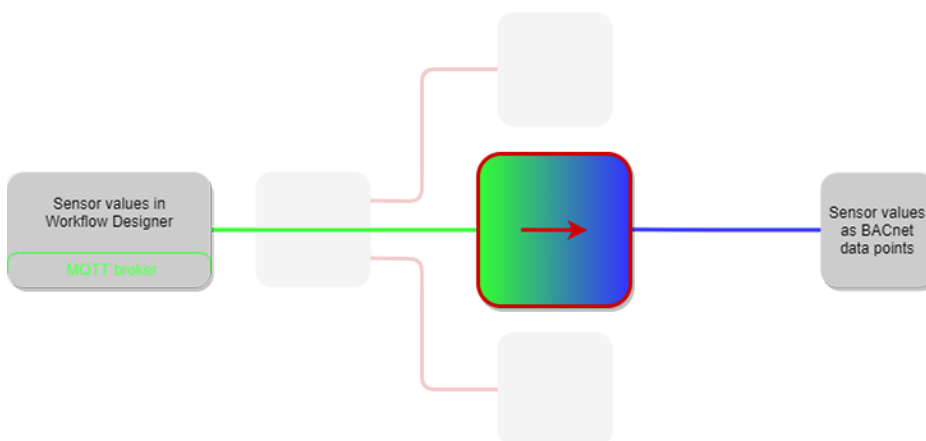
The basic steps to set up the SYMPHOLIGHT Gateway BACnet

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



The credit for MQTT communication enables the full functionality of the MQTT related Workflow blocks in SYMPHOLIGHT. Without the credit, MQTT values are not transmitted. The credit is free of charge with the purchase of a SYMPHOLIGHT Gateway BACnet.

To get the credit, order the **Gateway Communications** credit in SYMPHOLIGHT and send the order request to your local e:cue partner or support@ecue.com.

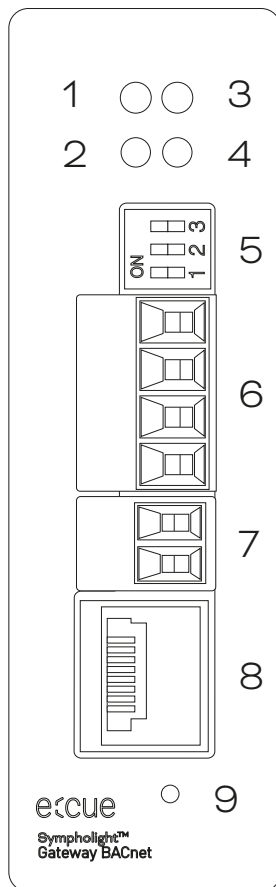
To employ the ordered credit, wait for a response from your distributor. Once you have received a dongle upgrade file from the distributor, open SYMPHOLIGHT. At **Help | License and Credits** overview click the “Upgrade dongle from file” button. Select the received file and your credits in SYMPHOLIGHT will be extended.

- 0.4 Network cable (RJ45)
- 0.5 optional: Network switch

1 Install the SYMPHOLIGHT Gateway BACnet

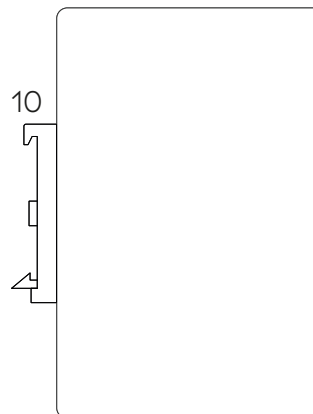
- 1.1 Mount the SYMPHOLIGHT Gateway BACnet.
- 1.2 Connect all cables (power supply, Ethernet) to the SYMPHOLIGHT Gateway BACnet.

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:

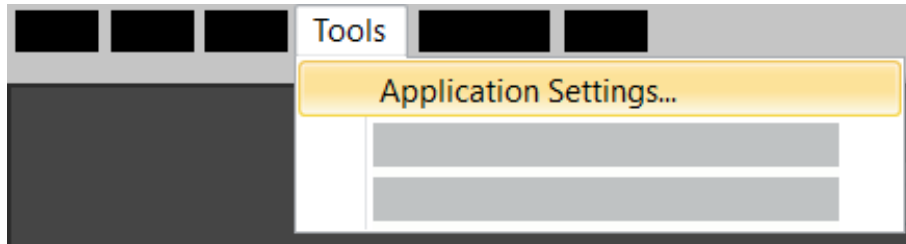


- 1.3 Power on the device.

2 Configure the network and web server of SYMPHOLIGHT

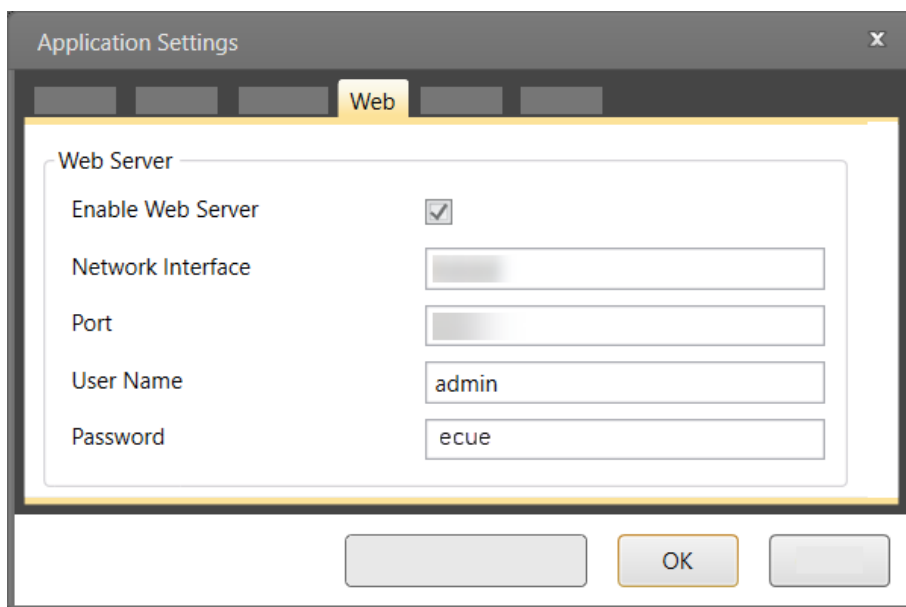
2.1 Open SYMPHOLIGHT on the computer.

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**



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**
Pasword: **ecue**

ecue

ecue SYMPHOLIGHT Gateway | SYMPHOLIGHT Gateway

Authentication required

The gateway needs user name and password to login.

User name:

admin

Password:

...

Login

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

ecue

General

General

IP-Network

● IP-Network

Network adapter LAN1

MAC address:

DHCP:

Off

☐

On

IP address:

Netmask:

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

ecue

MQTT

MQTT

Settings

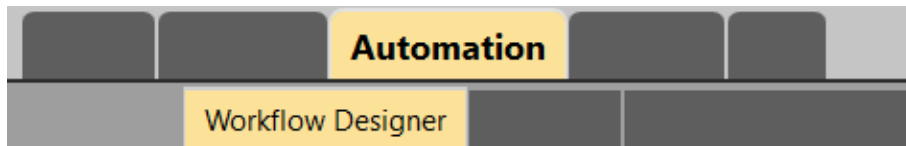
1630 – MQTT driver settings

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

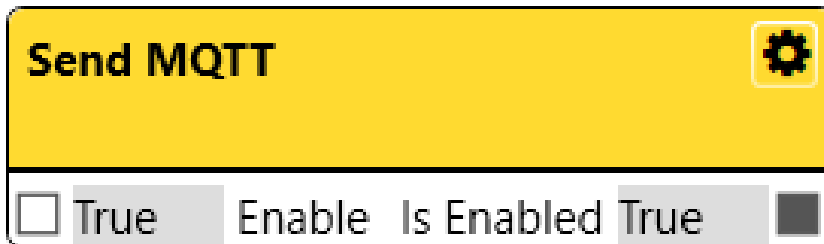
4 Prepare SYMPHOLIGHT to send information in the form of MQTT data

- Create MQTT Workflow Block in SYMPHOLIGHT

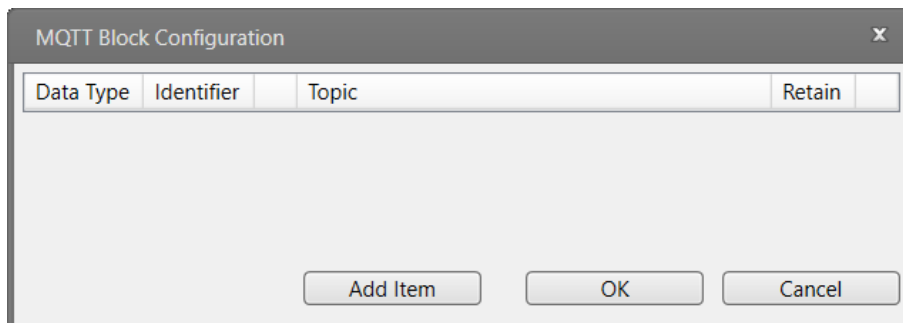
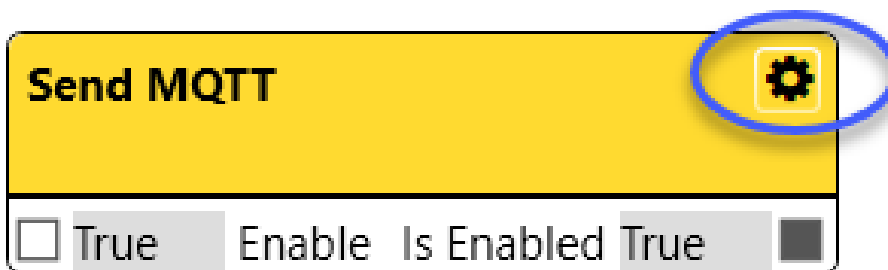
4.1 In SYMPHOLIGHT, go to Automation | Workflow Designer.



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).

MQTT Block Configuration

	Data Type	Identifier	←	Topic	Retain	✕
	Double ▾	Value 1	←	<input type="text"/>	<input type="checkbox"/>	✕

Add ItemOKCancel

MQTT Block Configuration

	Data Type	Identifier	←	Topic	Retain	✕
	Bool ▾	Is1	←	1stfloor/room1/lightswitch1	<input type="checkbox"/>	✕
	Bool ▾	Is2	←	1stfloor/room1/lightswitch2	<input checked="" type="checkbox"/>	✕
	Bool ▾	Is3	←	1stfloor/room1/lightswitch3	<input type="checkbox"/>	✕

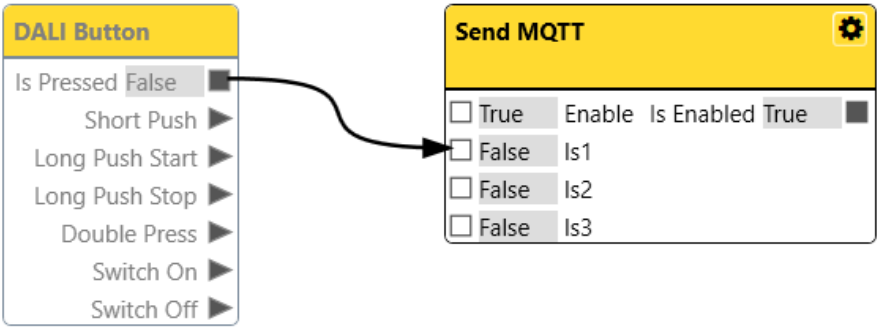
Add ItemOKCancel

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.

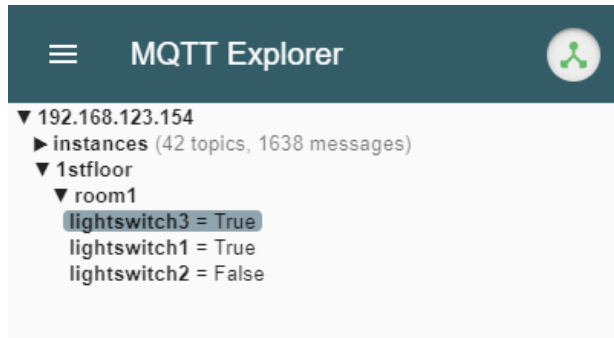
4.4 In the Workspace, connect Workflow Blocks to the Send MQTT Block as required by the installation.





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)

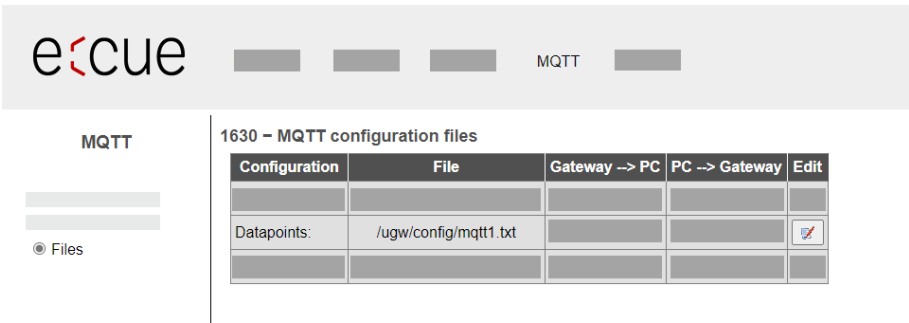
Password = Password of the web server of SYMPHOLIGHT (see [step 2.3](#)) (default: ecue)

The SYMPHOLIGHT credit for MQTT communication is required.

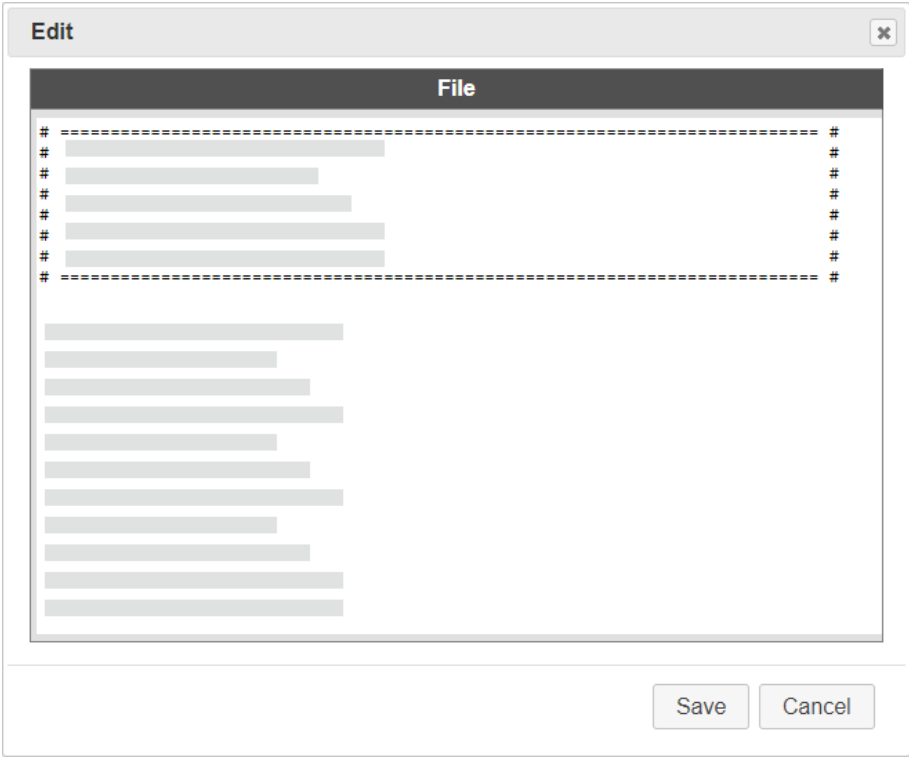
5 Configure the SYMPHOLIGHT Gateway BACnet to receive MQTT data points

- 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.

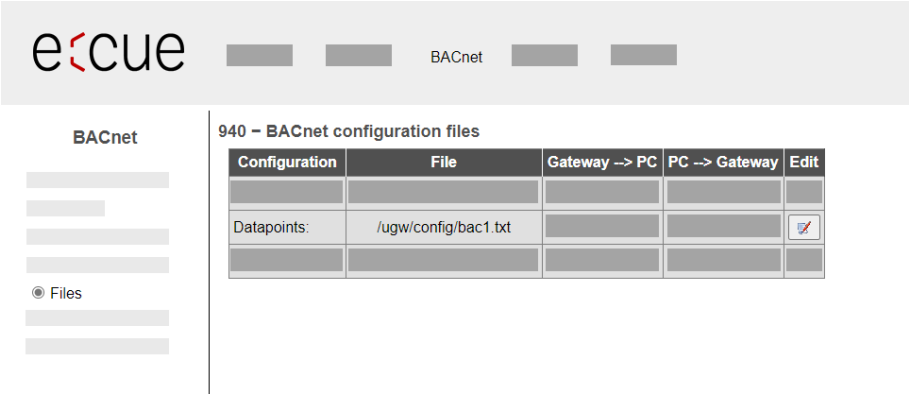


You can import a configuration for multiple data points in one single step via Start Upload.

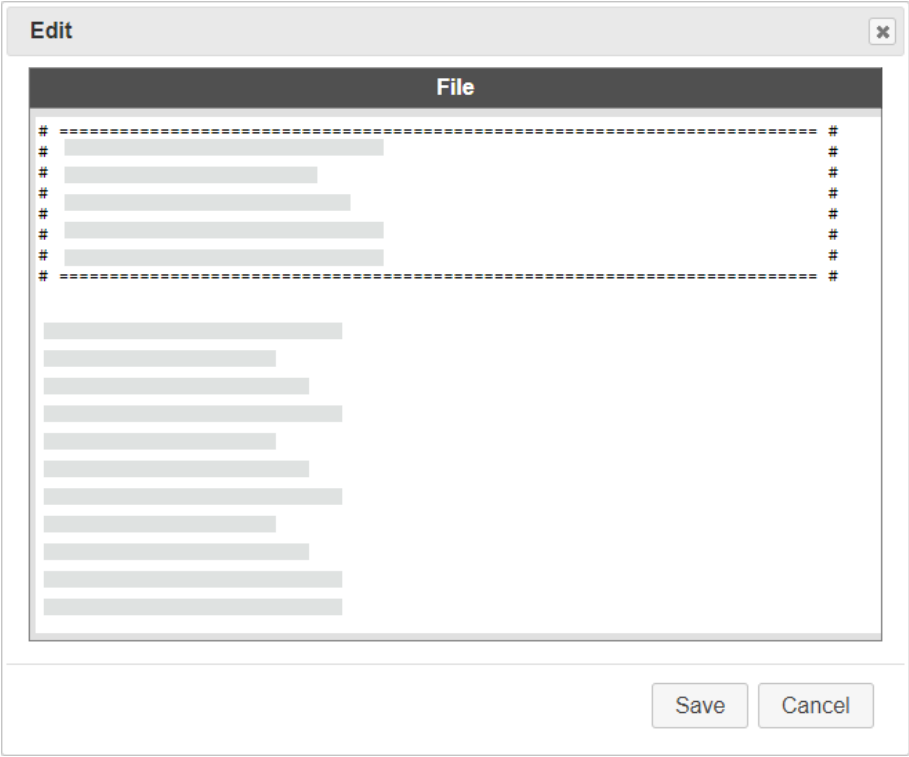
6 Configure the SYMPHOLIGHT Gateway BACnet to send BACnet data

- 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.

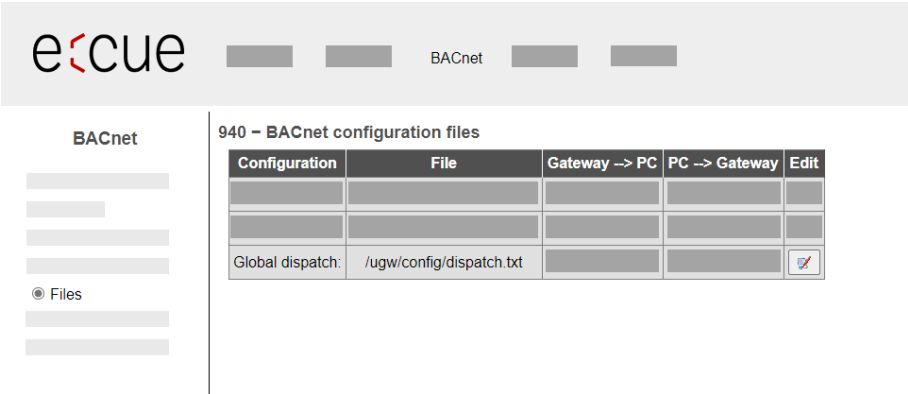


You can import a configuration for multiple data points in one single step via Start Upload.

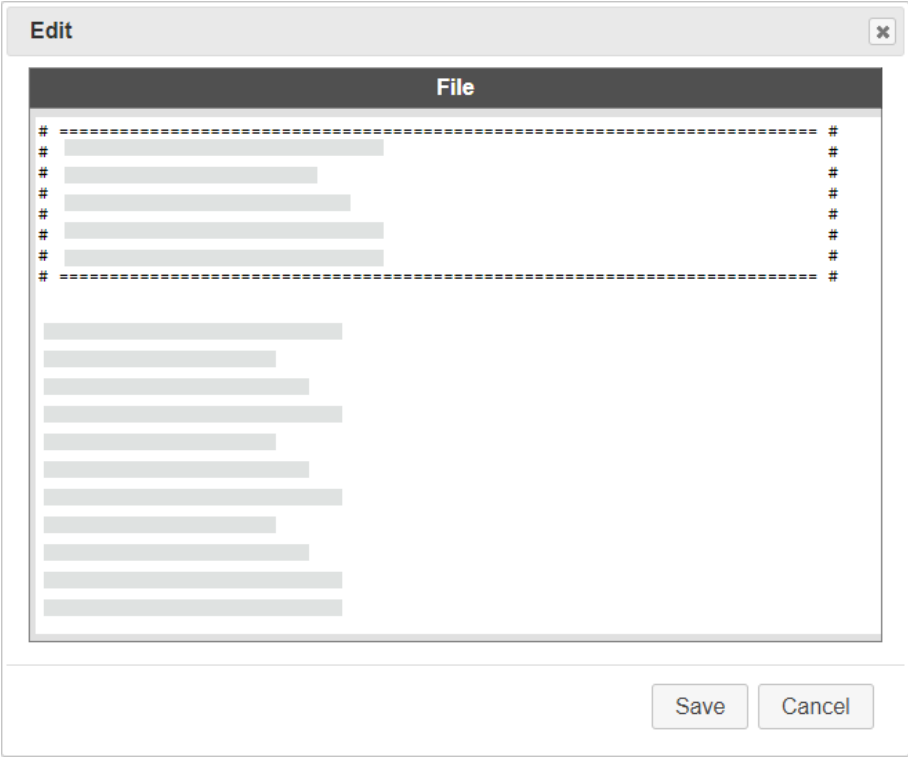
7 Define the conversion of MQTT to Bacnet data points

- 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.



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 installation.

Downloads and more information at:

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

Problems or compliments? Please contact

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