



# Guide for configuring and working with the BACnet Server integration module

ACFA PSIM 1.5

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# 1 Introduction into the Guide for configuring and working with the BACnet Server integration module

## On the page:

- Purpose of the document
- General information about the BACnet Server integration module

## 1.1 Purpose of the document

The *Guide for configuring and working with the BACnet Server integration module* is a reference and information manual and is intended for configuration specialists and operators of the *BACnet Server integration module*.

The Guide has the following information:

1. General information about the *BACnet Server* integration module.
2. Configuring the *BACnet Server* integration module.
3. Working with the *BACnet Server* integration module.

## 1.2 General information about the BACnet Server integration module

The *BACnet Server* integration module is used to connect any hardware that supports the *BACnet Ethernet* protocol. The *BACnet Server* integration module enables the exchange and processing of data between *Axxon PSIM* and BACnet devices.

### Note

All standard device types are supported. We cannot guarantee operation of non-standard device types.

## 2 Supported hardware and licensing of the BACnet Server module

Per each device (**ACFASensor**).

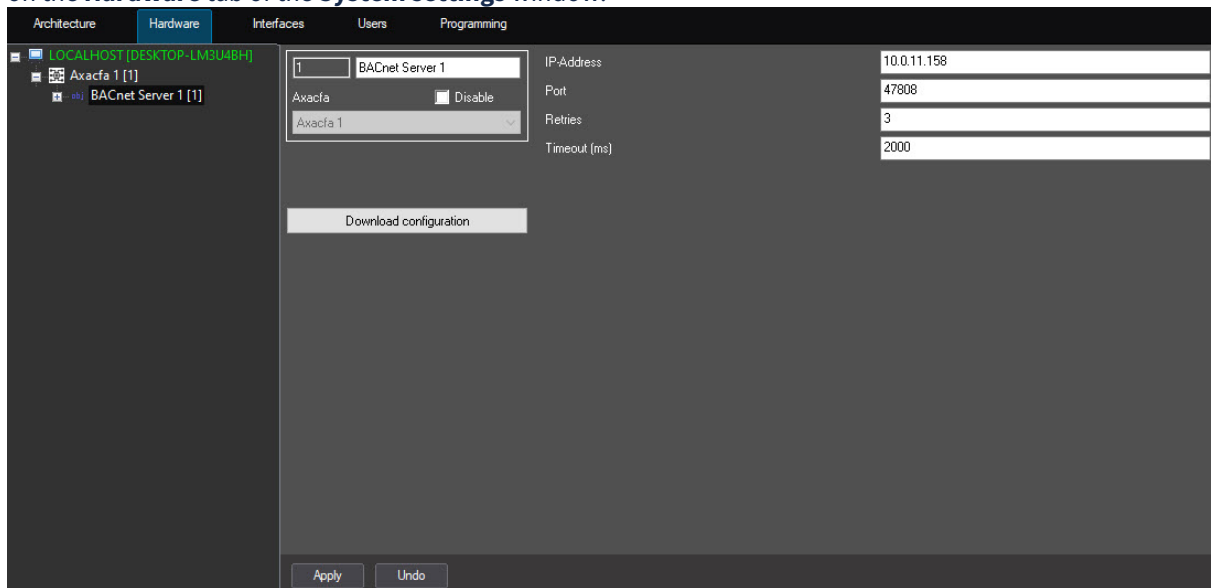
## 3 Configuring the BACnet Server integration module

### 3.1 Configuring the parent object of the BACnet Server integration module

To work with the *BACnet Server* integration module, you must install and configure the *AxACFA* feature. For more details, see [Connecting and configuring the AxACFA feature](#).

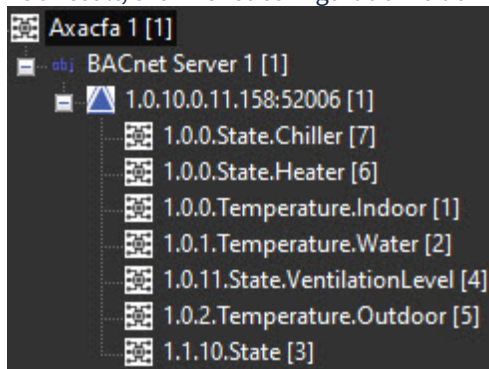
To configure the *BACnet Server* parent object, do the following:

1. Go to the settings panel of the **BACnet Server** parent object that is created on the basis of the **Axacfa** object on the **Hardware** tab of the **System settings** window.



2. In the **IP Address** field, specify the IP address of the device that is connected via the *BACnet* protocol.
3. In the **Port** field, specify the number of the port to connect to the *BACnet* device. The default port is **47808**.
4. In the **Retries** field, specify the number of attempts to connect to the *BACnet* server. The default number is **3**.
5. In the **Timeout (ms)** field, specify in milliseconds the time interval between attempts to connect to the *BACnet* server. The default value is **2000**.
6. Click the **Apply** button to apply the settings.
7. Click the **Download configuration** button.

As a result, the *BACnet* configuration is downloaded, and the hardware tree is built:

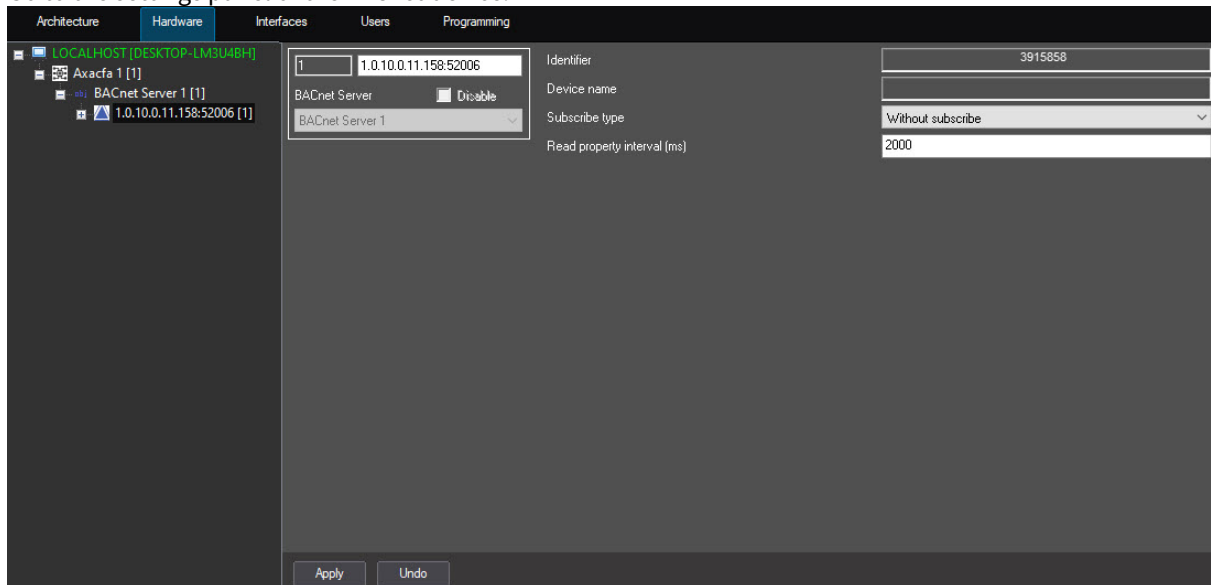


Configuration of the parent object is complete.

## 3.2 Configuring the device of the BACnet Server integration module

To configure the *BACnet* device that is created on the basis of the *BACnet Server* parent object after you download the configuration, do the following:

1. Go to the settings panel of the *BACnet* device.



2. From the **Subscribe type** drop-down list, select the mode of displaying the events of parameter change:
  - **Without subscribe**—events of parameter change aren't displayed;
  - **Normal**—all events of parameter change are displayed;
  - **Read property (not recommended)**—events of parameter change are displayed for the time period specified in the **Read property interval (ms)** field.
3. In the **Read property interval (ms)** field, specify the time in milliseconds for polling the *BACnet* server. This setting is valid only if you select the **Read property** subscribe type in the previous step.
4. Click the **Apply** button to save the changes.

Configuration of the *BACnet* device is complete.

## 4 Working with the BACnet Server integration module

### 4.1 General information about working with the BACnet Server integration module

The following interface objects are used to work with the *BACnet Server* integration module:

1. **Map.**
2. **Event Viewer.**

For the information on configuring these objects, see the *Axxon PSIM Administrator's Guide*.

For the information on working with these objects, see the *Axxon PSIM Operator's Guide*.

### 4.2 Managing the BACnet Server parent object

You cannot manage the *BACnet Server* parent object in the **Map** window.

The *BACnet Server* parent object can have the following states:

	Connected
	Disconnected
	Unknown

### 4.3 Managing the BACnet Server device

You cannot manage the *BACnet Server* device in the **Map** window.

The *BACnet Server* device can have the following states:

	Connected
	Disconnected
	Unknown




### 4.4 Managing the BACnet Server property

You can manage the *BACnet Server* property in the **Map** window using the menu of the corresponding object.

Command to manage the *BACnet Server* property is:

- **Set value**—set the value of the *BACnet Server* property.

The *BACnet Server* property can have the following states:

	Normal
	Alarm
	Unknown

## 4.5 Example of a configured macro when working with the BACnet Server integration module

- ✓ [Creating and using macros](#)  
[Examples of macros](#)

When you work with the *BACnet Server* integration module, you can configure a macro that triggers when an event is received from a *BACnet Server* device.

Example of a configured macro:

Response sending delay (s):

Disable

Fast call

Icon type:

**Settings**

State:

Local  Hidden

**Events**

Type	Number	Name	Event
Property	1	1.0.0.Temperature.Indoor	Value updated

**Parameters**

Name	Value

**Actions**

Type	Number	Name	Action
Property	1	1.0.0.Temperature.Indoor	Set value

**Parameters**

Name	Value