Guide for configuring and working with the BACnet Client integration module

ACFA PSIM 1.13

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

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1.1 Purpose of the document

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

The Guide has the following information:

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

1.2 General information about the BACnet Client integration module

The *BACnet Client* integration module is used to connect any hardware that supports the *BACnet Ethernet* protocol. The *BACnet Client* 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 Client module

Per each device (**ACFASensor**).

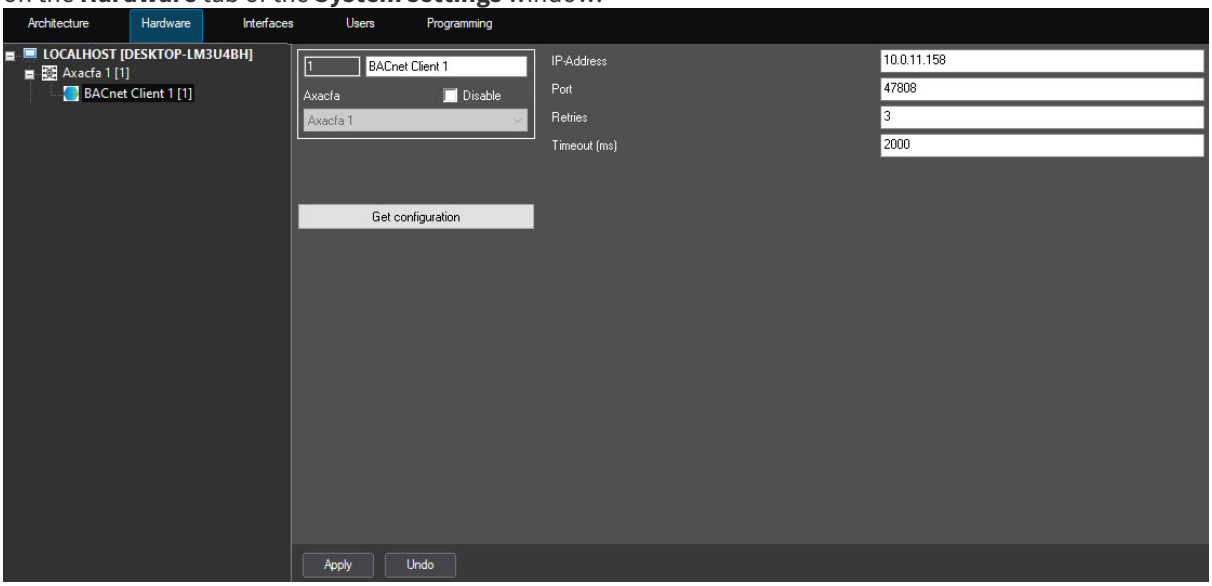
3 Configuring the BACnet Client integration module

3.1 Configuring the parent object of the BACnet Client integration module

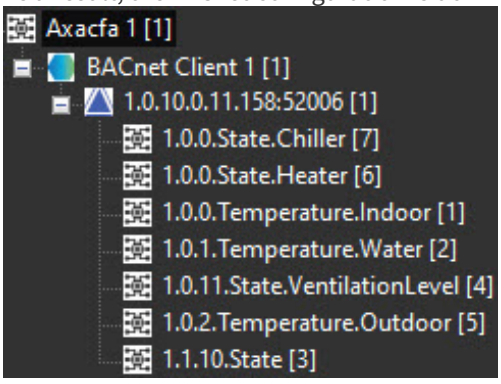
To work with the *BACnet Client* integration module, you must install and configure the *AxACFA* feature. For more details, see Connecting and configuring the AxACFA feature.

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

1. Go to the settings panel of the **BACnet Client** 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 computer on which the *Axxon PSIM* software is installed.
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:

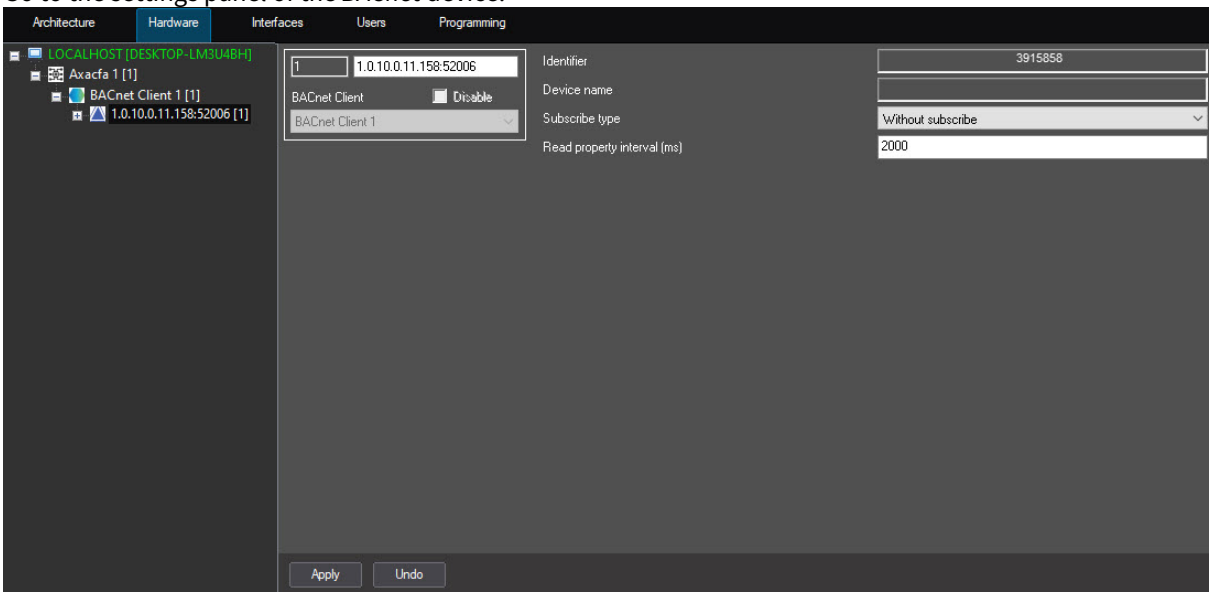


Configuration of the parent object is complete.

3.2 Configuring the device of the BACnet Client integration module

To configure the *BACnet* device that is created on the basis of the *BACnet Client* 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 Client integration module

4.1 General information about working with the BACnet Client integration module

The following interface objects are used to work with the *BACnet Client* 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 Client parent object

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

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

	Connected
	Disconnected
	Unknown

4.3 Managing the BACnet Client device

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

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

	Connected
	Disconnected
	Unknown

4.4 Managing the BACnet Client property

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

Command to manage the *BACnet Client* property is:

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

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

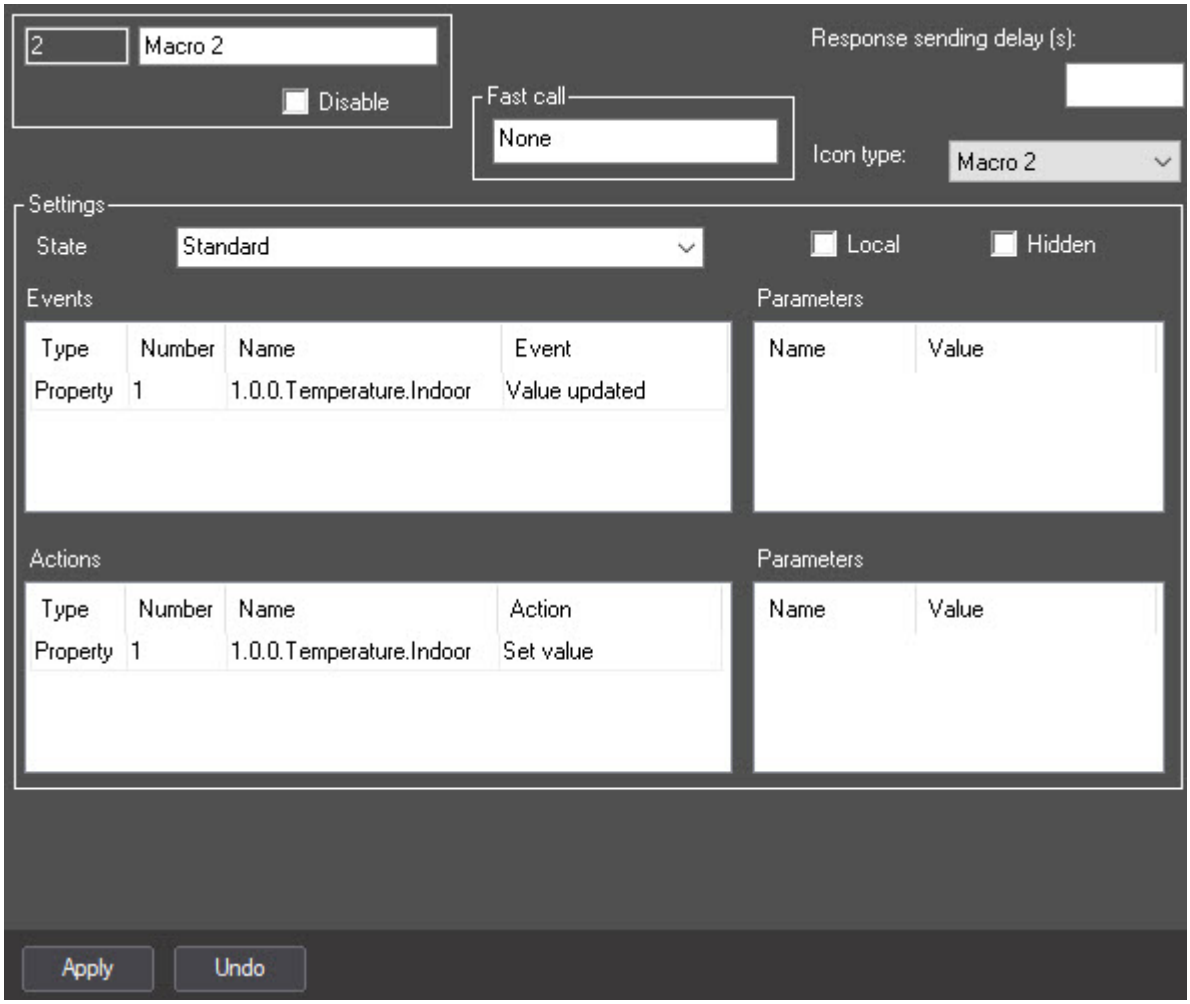
	Normal
	Alarm
	Unknown

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

Creating and using macros
Examples of macros

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

Example of a configured macro:


2
Macro 2
Disable
Fast call
None
Response sending delay (s):
Icon type:
Macro 2
Settings
State
Standard
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
Apply
Undo