



Guide for configuring and working with the ActiveMQ Broker integration module

ACFA PSIM 1.1

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1 Introduction into the Guide for configuring and working with the ActiveMQ Broker integration module

On the page:

- [Purpose of the document](#)
- [General information about the ActiveMQ Broker integration module](#)

1.1 Purpose of the document

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

The Guide has the following information:

1. General information about the *ActiveMQ Broker* integration module.
2. Configuring the *ActiveMQ Broker* integration module.
3. Working with the *ActiveMQ Broker* integration module.

1.2 General information about the ActiveMQ Broker integration module

The *ActiveMQ Broker* integration module is part of *ACFA PSIM* and is designed to connect devices that use it for work. Apache ActiveMQ is a widely used open-source, multiprotocol message broker built on Java. Apache ActiveMQ broadcasts messages from the sender to the recipient. It can connect multiple clients and servers and allows messages to be stored in a queue, instead of requiring both the client and server to be available for communication at the same time. Such message brokers are often used in enterprise systems or any systems with a complex architecture.

2 Supported software and licensing of the ActiveMQ Broker module

Module licensing

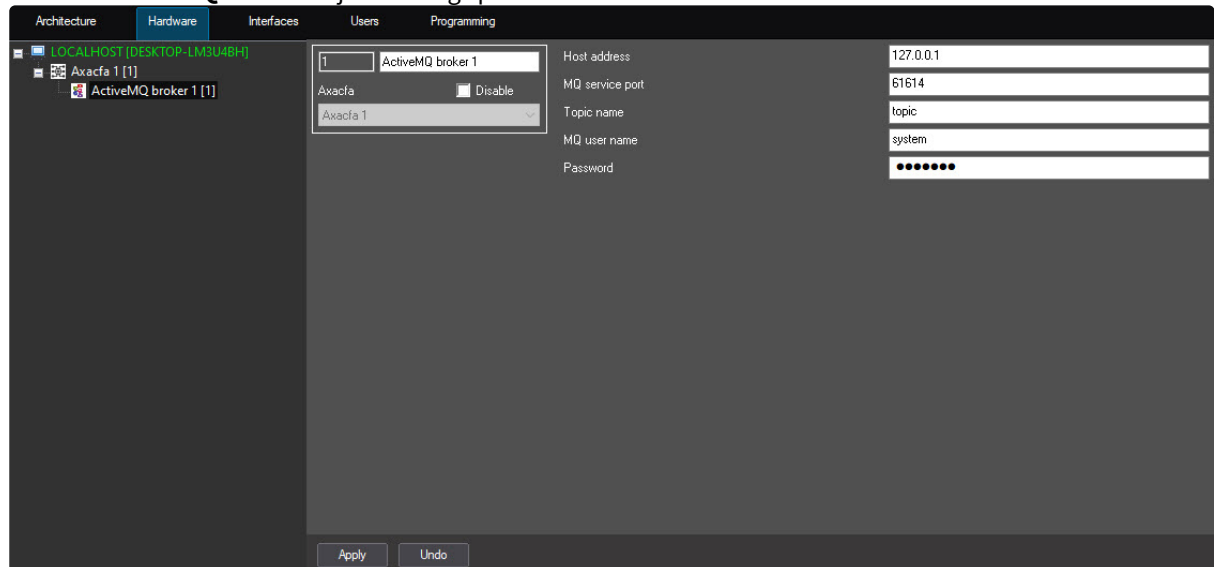
Module isn't licensed.

3 Configuring the ActiveMQ Broker parent object

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

The **ActiveMQ broker** parent object is created on the basis of the **Axacfa** object. To configure it, do the following:

1. Go to the **ActiveMQ broker** object settings panel.



2. In the **Host address** field, specify the IP address of the computer that will receive messages from the device connected via the broker.
3. In the **MQ service port** field, specify the port number of the computer used for the message broker operation.
4. In the **Topic name** field, specify the name of the topic used to group messages.
5. In the **MQ user name** field, specify the ActiveMQ user name.
6. In the **Password** field, specify the ActiveMQ password.
7. Click **Apply** to save the settings.

The **ActiveMQ broker** parent object is configured.

4 Working with the ActiveMQ Broker integration module

4.1 General information about working with the ActiveMQ Broker integration module

The following interface objects are used to work with the *ActiveMQ Broker* integration module:

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

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

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

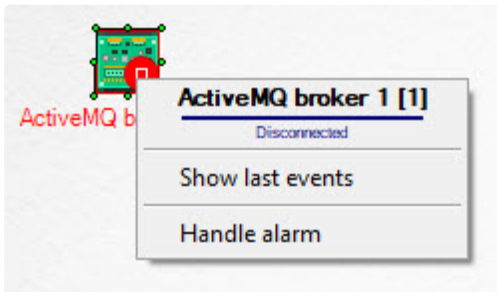
Example of a handled alarm event from the Event Viewer:

Event viewer 1 [~6]

<input type="checkbox"/> Show filters Clear				
Source	Event	F Add. info	C...	Date and time
ActiveMQ broker 1	System message	Alarm handled		7/25/2024 3:05:50 PM

4.2 Managing the ActiveMQ Broker parent object



You can manage the parent object of the *ActiveMQ Broker* module in the **Map** interactive window using the **ActiveMQ broker** object.





Command for managing the *ActiveMQ Broker* module parent object:

- Handle alarm—acknowledge alarm on device.

The following states of the *ActiveMQ Broker* module parent object are possible:

	Unknown
	Connected

	Disconnected
	Alarm

4.3 Example of a configured macro command of the ActiveMQ Broker module

✔ [Creating and using macros](#)
[Examples of macros](#)

When working with the *ActiveMQ Broker* integration module, you can configure a macro command that will be triggered when an event is received from connected devices.

An example of a configured macro command:

Disable

Response sending delay (s):

Fast call

Icon type: Macro 1

Settings

Local
 Hidden

State Standard

Events

Type	Number	Name	Event
ActiveMQ broker	1	ActiveMQ broker 1	Alarm not handled

Parameters

Name	Value

Actions

Type	Number	Name	Action
ActiveMQ broker	1	ActiveMQ broker 1	Handle alarm

Parameters

Name	Value

Apply

Undo