Guide for configuring and working with the Forteza (AxACFA) integration module

ACFA PSIM 1.5

Last update 15/07/2025

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1 List of terms used in the Guide for configuring and working with the Forteza (AxACFA) integration module

Perimeter intrusion detection system (PID) is a software package used to control perimeter violations.

Server *PSIM* is a computer with the installed server/Remote Administrator's workstation configuration of *Axxon PSIM*.

The Forteza sensor is a detector used to protect facilities, perimeter areas (depending on the type of sensor connected) and to make an alarm notification when an intruder crosses the detection zone.

The Zebra sensor is a one-position radio wave detector used to protect perimeter areas, open and closed areas, storage facilities, tunnels, overpasses and to make alarm messages when an intruder appears in the protected area.

The Cyclops sensor is a one-position combined detector used to protect perimeter areas, open and closed areas, storage facilities, tunnels, overpasses and to make alarm messages when an intruder appears in the protected area.

The Format sensor is a two-position combined detector used to protect perimeter areas, open and closed areas, storage facilities, tunnels, overpasses and to make alarm messages when an intruder appears in the protected area.

The Liana sensor is a vibration detector used to register and analyze signals from mechanical vibrations of the perimeter fence when someone tries to get through or destroy it (climbing over, sawing through, or biting through the fence), as well as from deformation or soil vibration (when digging under the fence).

2 Introduction into the Guide for configuring and working with the Forteza (AxACFA) integration module

On the page:

2.1 Purpose of the document

The *Guide for configuring and working with the Forteza (AxACFA) integration module* is a reference and information manual and is intended for users of the *Forteza (AxACFA)* module on the basis of *ACFA PSIM*.

The Guide has the following information:

1. General information about the *Forteza (AxACFA)* integration module.
2. Configuring the *Forteza (AxACFA)* integration module.
3. Working with the *Forteza (AxACFA)* integration module.

2.2 General information about the Forteza (AxACFA) integration module

The *Forteza (AxACFA)* program module is a part of *ACFA PSIM* and is used to configure and provide the interaction of *ACFA PSIM* with the *Forteza* cable perimeter security system (manufacturer—"Okhrannaya technika" CJSC).

Note

For detailed information about the *Forteza (AxACFA)* PID, refer to the official reference documentation for this system.

Before configuring the *Forteza (AxACFA)* PID integration module, do the following:

1. Install the *Forteza (AxACFA)* PID hardware on the protected facility (see manufacturer's reference documentation).
2. Connect the *Forteza (AxACFA)* PID to the server.

3 Supported hardware and licensing of the Forteza (AxACFA) integration module

Manufacturer	"OKHRANNAYA TECHNIKA" LLC Address: 442960, Penza region, Zarechny, P.O. box 45 Phone/fax: +7-8412-65-53-16 (multi-channel) Email: support@ict.co Website: www.forteza-eu.com
Type of integration	Low-level protocol
Hardware connection	RS-485

Supported hardware

Hardware	Function
Zebra-30 + Phosphorus series	One-position radio wave detector
Forteza series	Two-position radio wave detector
Cyclop-10 series	One-position combined detector
Format-100 series	Two-position combined detector
LIANA series	Vibration detector

Module protection
Per device.

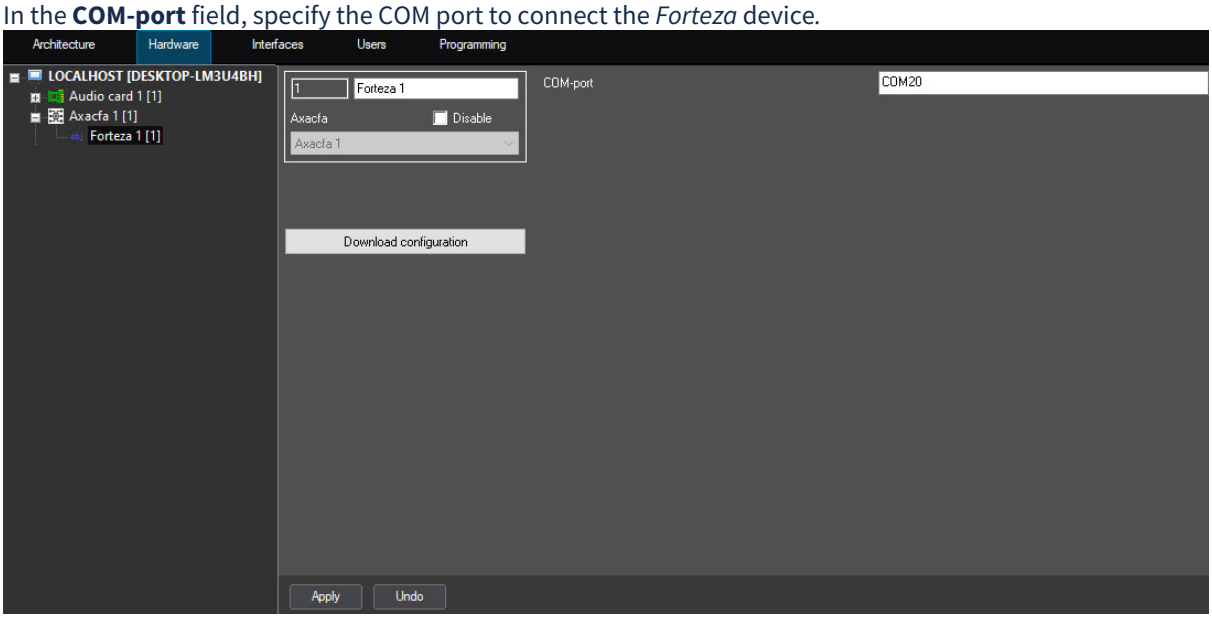
4 Configuring the Forteza (AxACFA) integration module

4.1 Configuring the connection of the Forteza (AxACFA) integration module

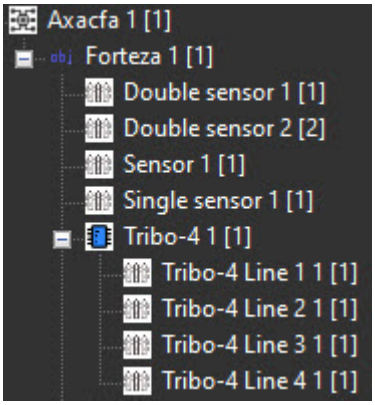
To work with the *Forteza (AxACFA)* integration module, you must install and configure the *AxACFA* feature. For more details, see Connecting and configuring the AxACFA feature.

To connect the *Forteza (AxACFA)* integration module, do the following:

1. Create the **Forteza** parent object on the basis of the **Axacfa** object on the **Hardware** tab of the **System settings** window.
2. In the **COM-port** field, specify the COM port to connect the *Forteza* device.



3. To save the changes, click the **Apply** button.
4. Click the **Download configuration** button to download the configuration and build the hardware tree. A hardware tree is built:



Configuring the connection of the *Forteza (AxACFA)* integration module is complete.

5 Working with the Forteza (AxACFA) integration module

5.1 General information about working with the Forteza (AxACFA) integration module

The macros and following interface objects are used to work with the *Forteza (AxACFA)* integration module:

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

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

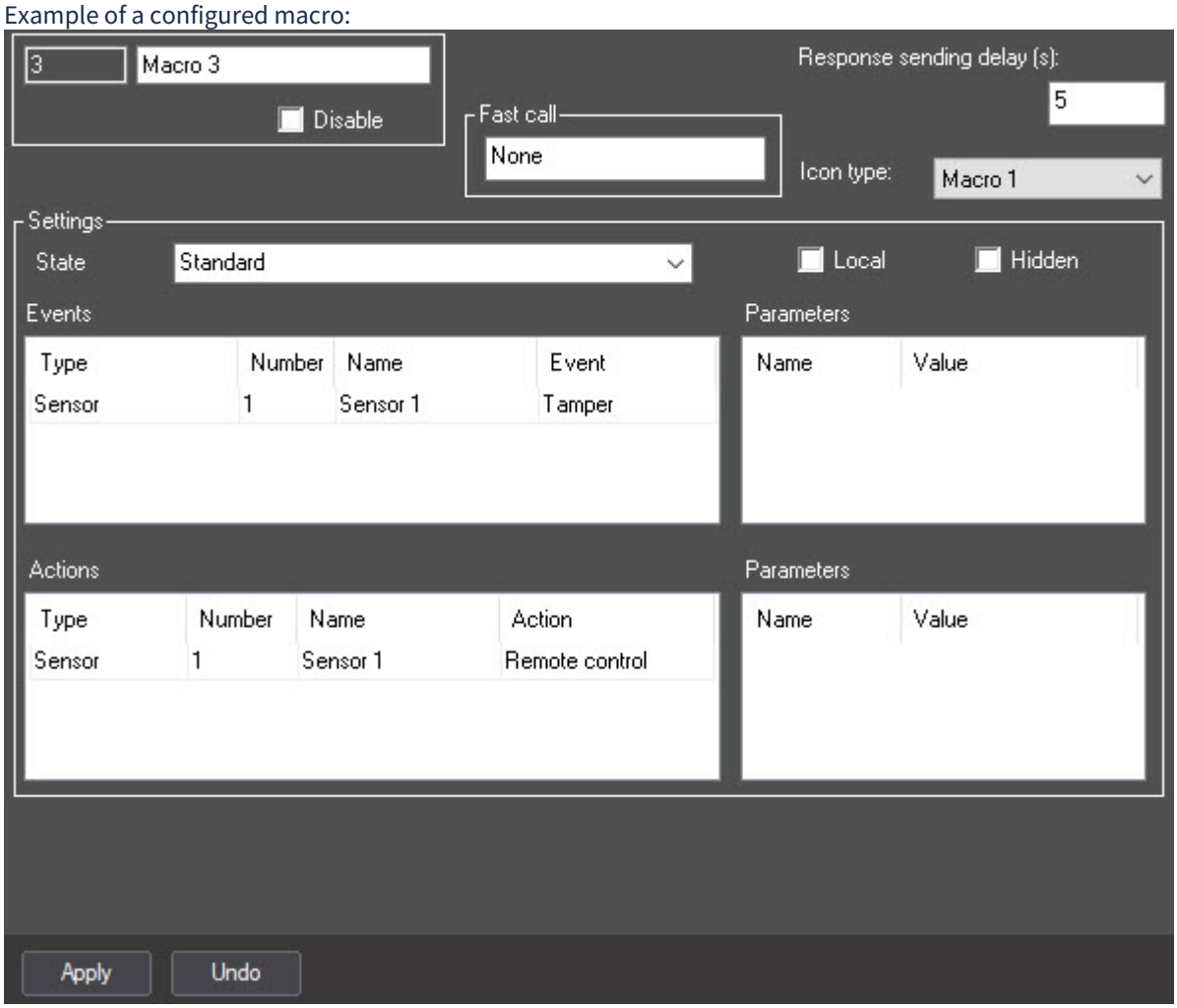
For the information on working with these interface objects, see the *Axxon PSIM* Operator's Guide.

5.2 Example of a configured macro of the Forteza (AxACFA) integration module

Creating and using macros
Examples of macros

When working with the *Forteza (AxACFA)* integration module, you can configure a macro that triggers when an event is received from *Forteza (AxACFA)* devices.

Example of a configured macro:



5.3 Managing the parent object of the Forteza (AxACFA) integration module

You cannot manage the parent object of the *Forteza (AxACFA)* integration module in the **Map** window.

The parent object of the *Forteza (AxACFA)* integration module can have the following states:

	Connected
	Disconnected

5.4 Managing the single sensor of the Forteza (AxACFA) integration module

You can manage the single sensor of the *Forteza (AxACFA)* integration module in the **Map** window using the menu of the corresponding object.

Commands to manage the single sensor of the *Forteza (AxACFA)* integration module are described in the table:

Menu command	Function
Arm	Arm single sensor
Disarm	Disarm single sensor
Handle alarms	Confirm single sensor alarms
Remote control	Set remote control of single sensor

The following states of the single sensor of the *Forteza (AxACFA)* integration module are possible:

	Unknown
	Connected
	Disconnected
	Armed
	Disarmed
	Alarm
	Unhandled alarm
	Remote control alarm

	Alarm init
	Low power
	Tamper

5.5 Managing the double sensor of the Forteza (AxACFA) integration module

You can manage the double sensor of the *Forteza (AxACFA)* integration module in the **Map** window using the menu of the corresponding object.

Commands to manage the double sensor of the *Forteza (AxACFA)* integration module are described in the table:

Menu command	**Function**
Arm	Arm double sensor
Disarm	Disarm double sensor
Handle alarms	Confirm double sensor alarms

The following states of the double sensor of the *Forteza (AxACFA)* integration module are possible:

	Unknown
	Connected
	Disconnected
	Armed
	Disarmed

	Alarm
	Unhandled alarm
	Alarm RL
	Alarm IR
	Remote control alarm
	Alarm init
	Low power
	Tamper

5.6 Managing the sensor of the Forteza (AxACFA) integration module

You can manage the sensor of the *Forteza (AxACFA)* integration module in the **Map** window using the menu of the corresponding object.

Commands to manage the sensor of the *Forteza (AxACFA)* integration module are described in the table:

Menu command	Function
Arm	Arm sensor
Disarm	Disarm sensor
Handle alarm	Confirm sensor alarms
Remote control	Set remote sensor control
Off AE	Enable sensor AE

Menu command	Function
On AE	Disable sensor AE

The following states of the sensor of the *Forteza (AxACFA)* integration module are possible:

	Unknown
	Connected
	Disconnected
	Armed
	Disarmed
	Alarm
	Unhandled alarm
	Remote control alarm
	Alarm init
	Low power
	Tamper

5.7 Managing the Liana detector of the Forteza (AxACFA) integration module

You can manage the "Liana" detector of the *Forteza (AxACFA)* integration module in the **Map** window using the menu of the corresponding object.

Commands to manage the "Liana" detector of the *Forteza (AxACFA)* integration module are described in the table:

Menu command	**Function**
Arm	Arm the Liana detector
Disarm	Disarm the Liana detector
Handle alarm	Confirm the Liana detector alarms

The following states of the "Liana" detector of the *Forteza (AxACFA)* integration module are possible:

	Unknown
	Connected
	Disconnected
	Armed
	Disarmed
	Alarm
	Unhandled alarm
	Remote control alarm

	Alarm init
	Low power
	Tamper

5.8 Managing the first line of the Liana detector of the Forteza (AxACFA) integration module

You can manage the first line of the "Liana" detector of the *Forteza (AxACFA)* integration module in the **Map** window using the menu of the corresponding object.

Commands to manage the first line of the "Liana" detector of the *Forteza (AxACFA)* integration module are described in the table:

Menu command	**Fucntion**
Arm line	Arm the first line of the Liana detector
Disarm line	Disarm the first line of the Liana detector

The following states of the first line of the "Liana" detector of the *Forteza (AxACFA)* integration module are possible:

	Unknown
	Armed
	Disarmed
	Alarm
	Unhandled alarm

5.9 Managing the second line of the Liana detector of the Forteza (AxACFA) integration module

You can manage the second line of the "Liana" detector of the *Forteza (AxACFA)* integration module in the **Map** window using the menu of the corresponding object.

Commands to manage the second line of the "Liana" detector of the *Forteza (AxACFA)* integration module are described in the table:

Menu command	Function
Arm line	Arm the second line of the Liana detector
Disarm line	Disarm the second line of the Liana detector

The following states of the second line of the "Liana" detector of the *Forteza (AxACFA)* integration module are possible:

	Unknown
	Armed
	Disarmed
	Alarm
	Unhandled alarm

5.10 Managing the third line of the Liana detector of the Forteza (AxACFA) integration module

You can manage the third line of the "Liana" detector of the *Forteza (AxACFA)* integration module in the **Map** window using the menu of the corresponding object.

Commands to manage the third line of the "Liana" detector of the *Forteza (AxACFA)* integration module are described in the table:

Menu command	Function
Arm line	Arm the third line of the Liana detector

Menu command	Function
Disarm line	Disarm the third line of the Liana detector

The following states of the third line of the "Liana" detector of the *Forteza (AxACFA)* integration module are possible:

	Unknown
	Armed
	Disarmed
	Alarm
	Unhandled alarm

5.11 Managing the fourth line of the Liana detector of the Forteza (AxACFA) integration module

You can manage the fourth line of the "Liana" detector of the *Forteza (AxACFA)* integration module in the **Map** window using the menu of the corresponding object.

Commands to manage the fourth line of the "Liana" detector of the *Forteza (AxACFA)* integration module are described in the table:

Menu command	Function
Arm line	Arm the fourth line of the Liana detector
Disarm line	Disarm the fourth line of the Liana detector

The following states of the fourth line of the "Liana" detector of the *Forteza (AxACFA)* integration module are possible:

	Unknown
	Armed
	Disarmed
	Alarm
	Unhandled alarm