Guide for configuring and working with the Satel GPRS-A integration module

ACFA PSIM 1.3.1

Last update 27/05/2025

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1 Introduction into the Guide for configuring and working with the Satel GPRS-A integration module

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1.1 Purpose of the document

The *Guide for configuring and working with the Satel GPRS-A integration module* is a reference and information manual for configuration specialists and operators of the *Satel GPRS-A* integration module. This module is part of security alarm systems implemented on the basis of *ACFA PSIM*.

The Guide has the following information:

1. General information about the *Satel GPRS-A* integration module.
2. Configuring the *Satel GPRS-A* integration module.
3. Working with the *Satel GPRS-A* integration module.

1.2 General information about the Satel GPRS-A integration module

The *Satel GPRS-A* integration module is a universal monitoring module that can operate autonomously and as a part of *ACFA PSIM* and is used to perform the following functions:

1. Configuration of the *Satel GPRS-A* controller (manufactured by *Satel*).
2. Interaction between the *Satel GPRS-A* controller and *ACFA PSIM* (monitoring, control).

Note

For more information about the *Satel GPRS-A* integration module, see the official reference documentation for this system (manufactured by Satel).

Before configuring the *Satel GPRS-A* integration module, do the following:

1. Install the required hardware on the protected facility (see the official reference documentation).
2. Install the manufacturer's software on your computer or the manufacturer's app on your phone (see the official reference documentation).

2 Supported hardware and software and licensing of the Satel GPRS-A integration module

Manufacturer	SATEL 80-298 Gdansk, Poland, ul. Budowlanych 66 Phone: +48 58 320-94-00 Fax: +48 58 320-94-01 Email: satel@satel.pl Website: www.satel.pl
Integration type	SOFT-SOFT
Hardware connection	Mobile network

Supported hardware

Hardware	Function
GPRS-A	Universal monitoring module
GPRS-A LTE	Universal monitoring module

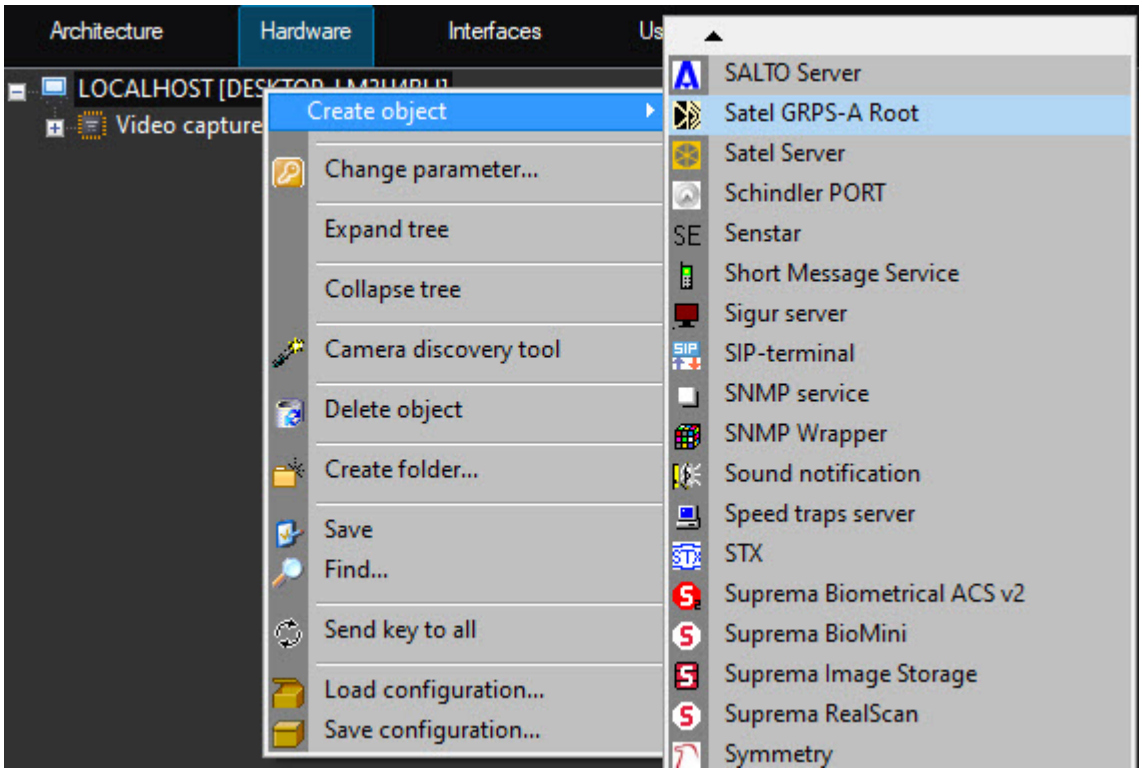
Supported software

Software	Function
GX Soft version 2.0.0 or higher	Satel Software

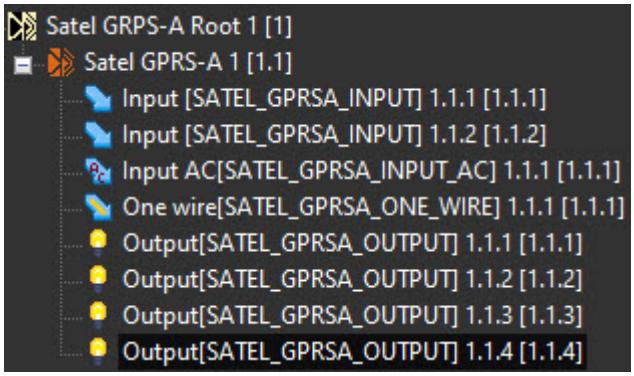
The license: https://sale.axxonsoft.com/sale/secure/goods/goodsEdit.jsf?goodsId=274504.

3 Configuring the Satel GPRS-A integration module

To configure the *Satel GPRS-A* integration module, create the **Satel GPRS-A Root** object on the **Hardware** tab of the **System settings** window.



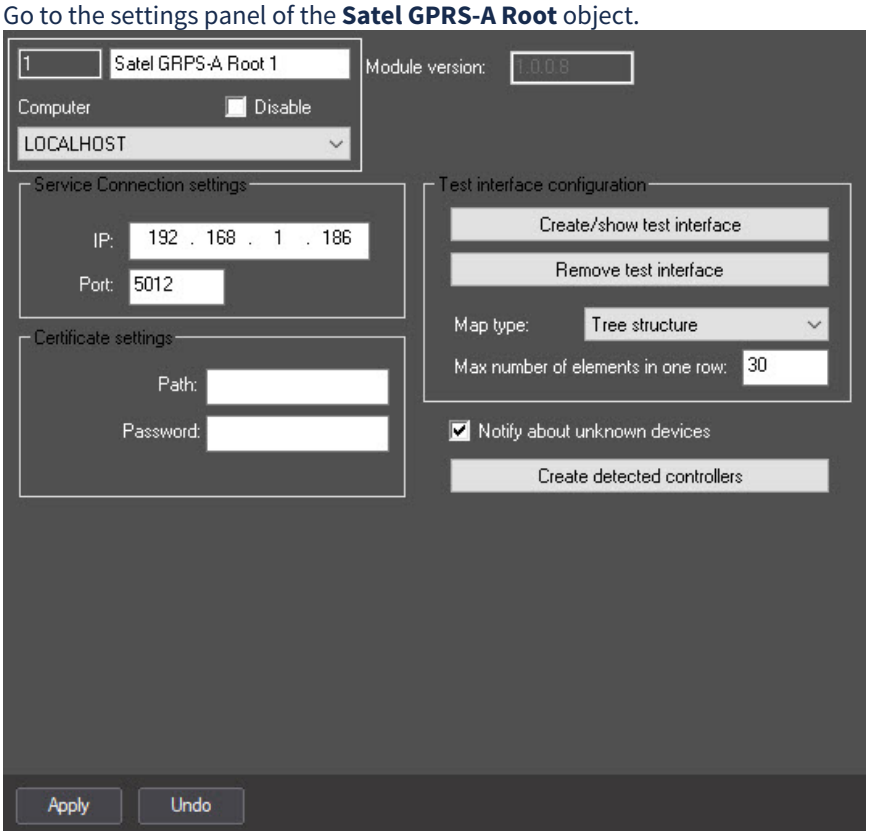
Then, by clicking the module object, you can create controllers, as well as inputs and outputs for individual controllers. You can also create objects automatically.



3.1 Configuring the root of the Satel GPRS-A integration module

To configure the root of the *Satel GPRS-A* integration module, do the following:

1. Go to the settings panel of the **Satel GPRS-A Root** object.



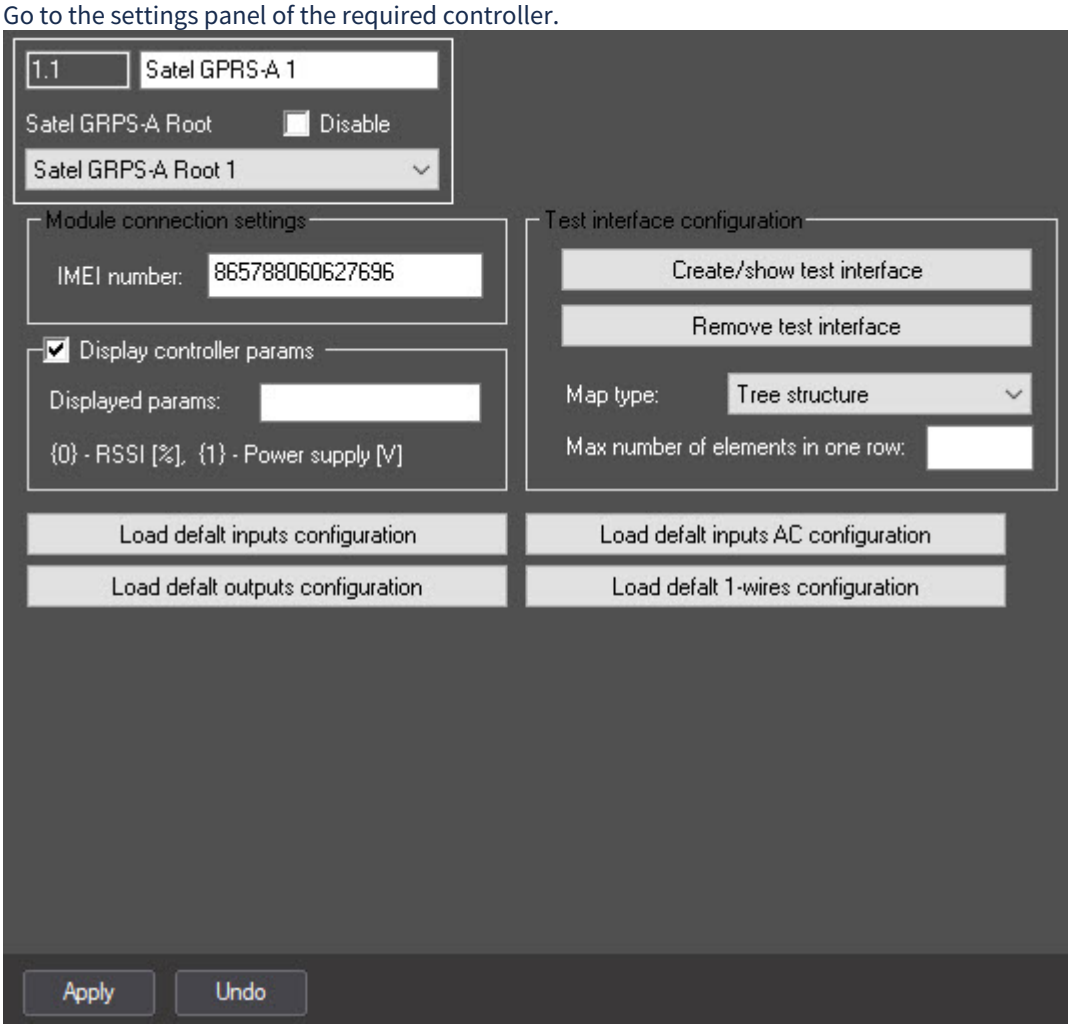
2. In the **IP** field, enter the IP address of the server with which the *GPRS-A* controllers will connect.
3. In the **Port** field, enter the port on which listening and communication with *GPRS-A* controllers will be carried out.
4. In the **Path** field, enter the path to the certificate. If there is no certificate, the module generates its own.
5. In the **Password** field, enter the password for certificate authentication if required.
6. Click the **Create/show test interface** button to create a map containing the controller and all I/O child objects of this controller.
7. Click the **Remove test interface** button to remove the created test interface if it exists.
8. From the **Map type** drop-down list, select the type of arrangement of objects on the test interface map. You can choose between alignment of objects in a line or in a parent-child tree.
9. In the **Max number of elements in one row** field, enter the maximum number of elements on the map that can be in one row.
10. Set the **Notify about unknown devices** checkbox to get a notification when an unknown device is detected.
11. Click the **Create detected controllers** button to add all detected controllers to the object tree.
12. Click the **Apply** button to save the settings.

Configuration of the root of the *Satel GPRS-A* integration module is complete.

3.2 Configuring the controller of the Satel GPRS-A integration module

To configure the controller of the *Satel GPRS-A* integration module, do the following:

1. Go to the settings panel of the required controller.



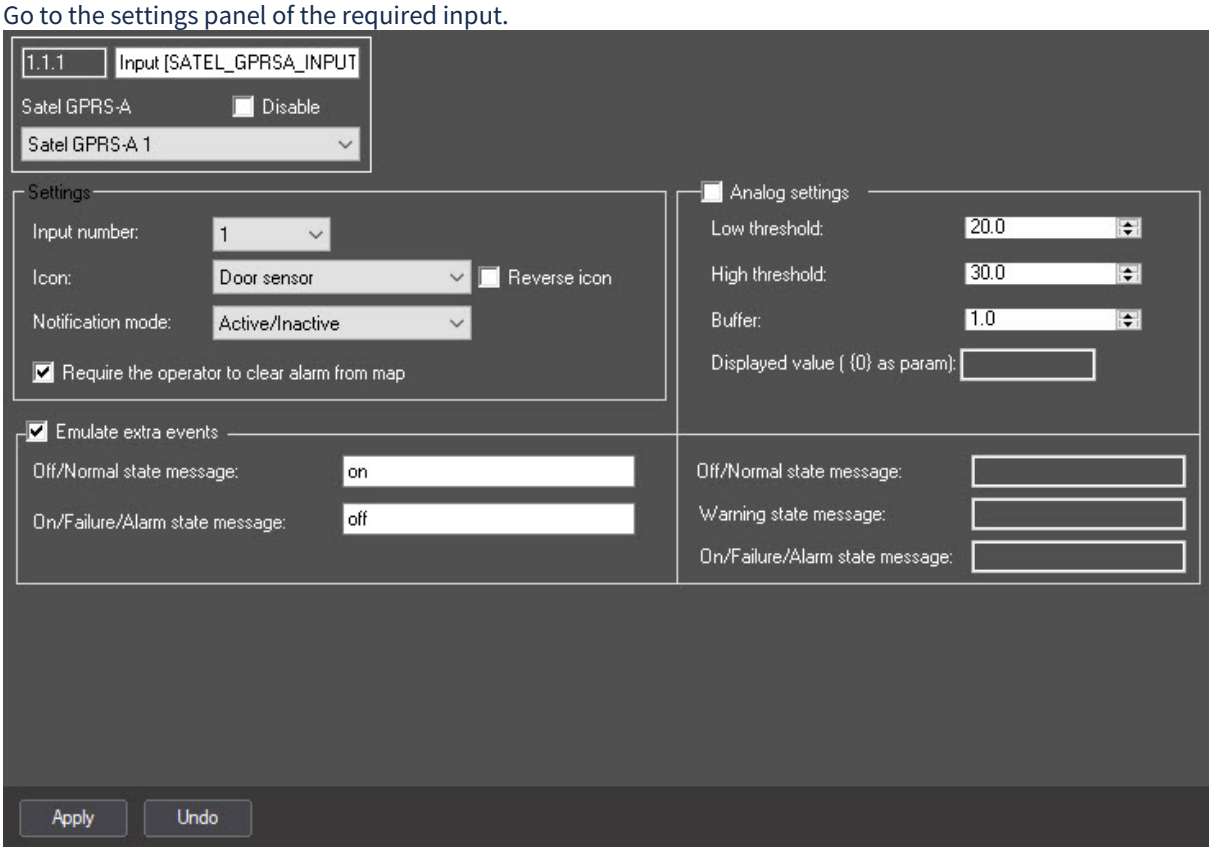
2. In the **IMEI number** field, enter the IMEI number to connect to the *Satel GPRS-A* integration module. It is a unique number by which the controller is recognized.
3. Set the **Display controller params** checkbox to display controller parameters on the map.
4. In the **Displayed params** field, enter the displayed text.
5. Click the **Create/show test interface** button to create a map containing the controller and all I/O child objects of this controller.
6. Click the **Remove test interface** button to remove the created test interface if it exists.
7. From the **Map type** drop-down list, select the type of arrangement of objects on the test interface map. You can choose between alignment of objects in a line or in a parent-child tree.
8. In the **Max number of elements in one row** field, enter the maximum number of elements on the map that can be in one row.
9. Click the **Load default inputs configuration** button to create default inputs with a basic configuration.
10. Click the **Load default inputs AC configuration** button to create default inputs AC with a basic configuration.
11. Click the **Load default outputs configuration** button to create default outputs with a basic configuration.
12. Click the **Load default 1-wires configuration** button to create default 1-wires with a basic configuration.
13. Click the **Apply** button to save the settings.

Configuration of the controller of the *Satel GPRS-A* integration module is complete.

3.3 Configuring the input of the Satel GPRS-A integration module

To configure the input of the *Satel GPRS-A* integration module, do the following:

1. Go to the settings panel of the required input.



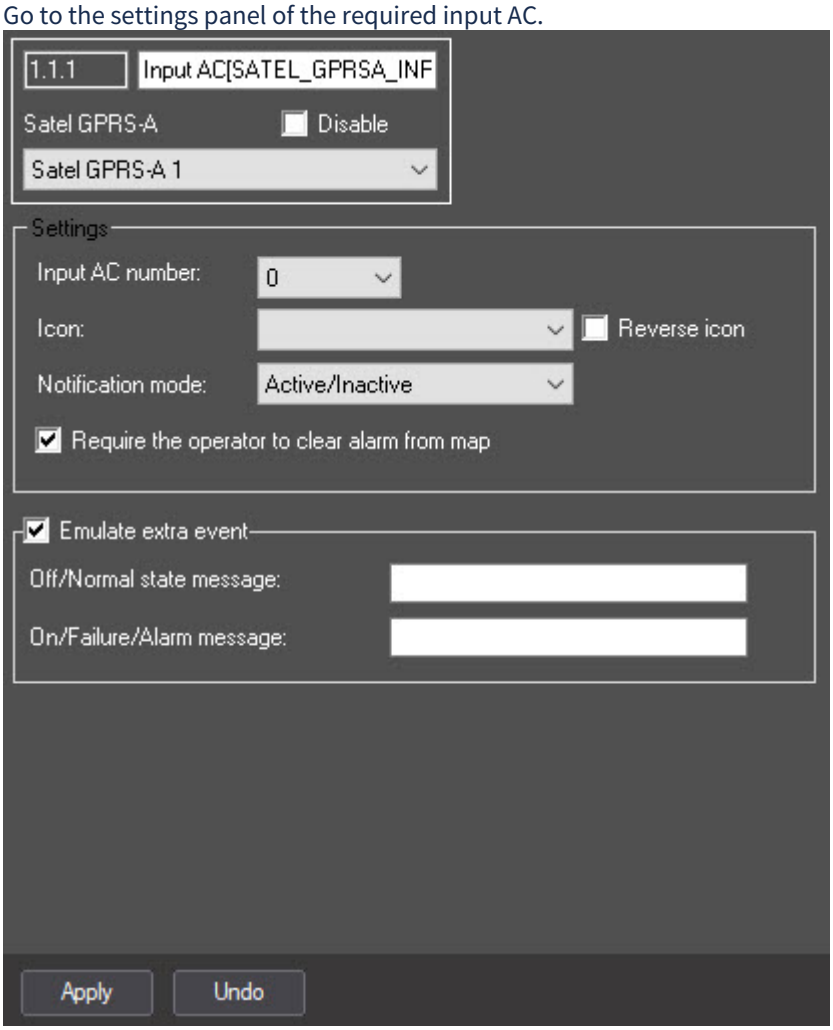
2. From the **Input number** drop-down list, select the number of the input.
3. From the **Icon** drop-down list, select the icon of the object to be displayed on the map.
4. Set the **Reverse icon** checkbox to reverse the logic of the displayed states on the map.
5. From the **Notification mode** drop-down list, select the type of object states displayed on the map: **Active/Inactive**, **Normal/Failure**, or **Normal/Alarm**.
6. Set the **Require the operator to clear alarm from map** checkbox to select whether the operator will have to delete the alarm message on the map after the transition from **Alarm/Failure** to **Normal** state.
7. In the **Low threshold** field, enter the lower value limit. The module triggers state changes if the value falls below the threshold.
8. In the **High threshold** field, enter the upper value limit. The module triggers alarm state changes.
9. In the **Buffer** field, enter the value that accumulates changes or inputs to prevent constant state fluctuations, releasing them only when a specific threshold is reached.
10. In the **Displayed value ({0} as param)** field, enter the sensor value displayed on the map.
11. Set the **Emulate extra events** checkbox to generate additional events for an object when its state changes.
12. In the **Off/Normal state message** field, enter the event description displayed in the *Event Viewer* for the **Off/Normal** state.
13. In the **On/Failure/Alarm state message** field, enter the event description displayed in the *Event Viewer* for the **On/Failure/Alarm** state.
14. Click the **Apply** button to save the settings.

Configuration of the input of the *Satel GPRS-A* integration module is complete.

3.4 Configuring the input AC of the Satel GPRS-A integration module

To configure the input AC of the *Satel GPRS-A* integration module, do the following:

1. Go to the settings panel of the required input AC.



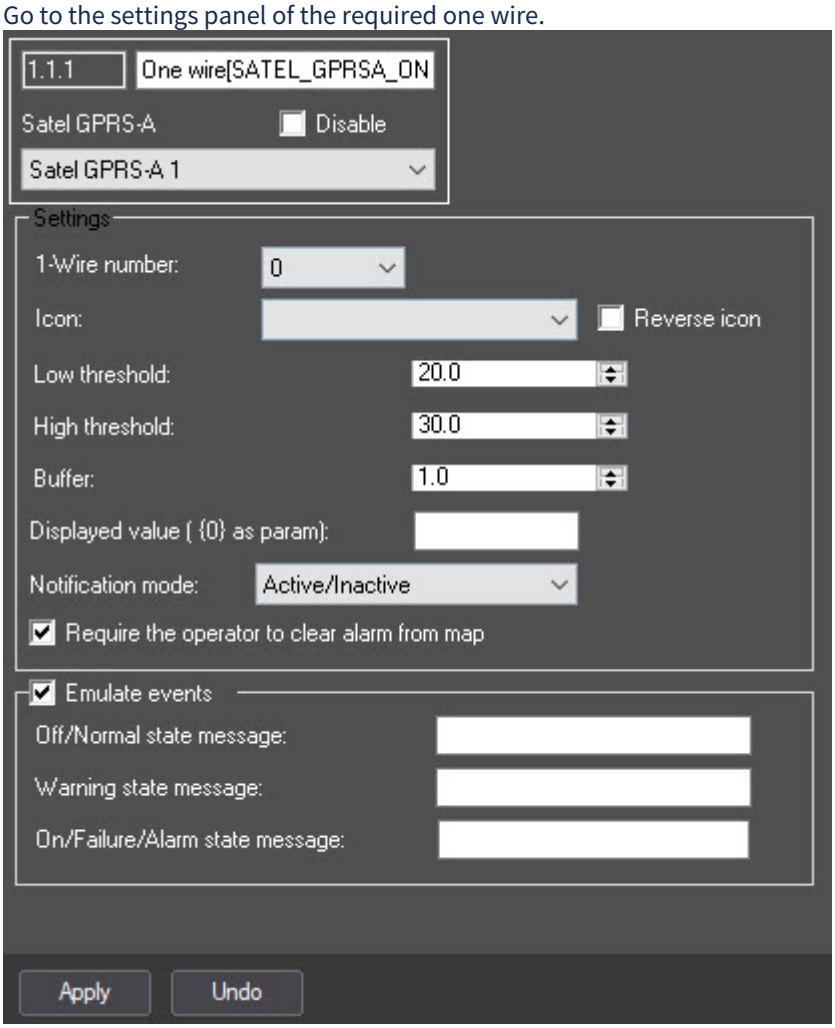
2. From the **Input AC number** drop-down list, select the number of the *GPRS-A* Input AC.
3. From the **Icon** drop-down list, select the icon of the object to be displayed on the map.
4. Set the **Reverse icon** checkbox to reverse the logic of the displayed states on the map.
5. From the **Notification mode** drop-down list, select the type of object states displayed on the map: **Active/Inactive**, **Normal/Failure**, or **Normal/Alarm**.
6. Set the **Require the operator to clear alarm from map** checkbox to select whether the operator will have to delete the alarm message on the map after the transition from **Alarm/Failure** to **Normal** state.
7. Set the **Emulate extra event** checkbox to generate additional events for an object when its state changes.
8. In the **Off/Normal state message** field, enter the event description displayed in the *Event Viewer* for the **Off/Normal** state.
9. In the **On/Failure/Alarm message** field, enter the event description displayed in the *Event Viewer* for the **On/Failure/Alarm** state.
10. Click the **Apply** button to save the settings.

Configuration of the input AC of the *Satel GPRS-A* integration module is complete.

3.5 Configuring the one wire of the Satel GPRS-A integration module

To configure the one wire of the *Satel GPRS-A* integration module, do the following:

1. Go to the settings panel of the required one wire.



2. From the **1-Wire number** drop-down list, select the number of the *GPRS-A* 1-wire.
3. From the **Icon** drop-down list, select the icon of the object to be displayed on the map.
4. Set the **Reverse icon** checkbox to reverse the logic of the displayed states on the map.
5. In the **Low threshold** field, enter the lower value limit. The module triggers state changes if the value falls below the threshold.
6. In the **High threshold** field, enter the upper value limit. The module triggers alarm state changes.
7. In the **Buffer** field, enter the value that accumulates changes or inputs to prevent constant state fluctuations, releasing them only when a specific threshold is reached.
8. In the **Displayed value ({0} as param)** field, enter the sensor value displayed on the map.
9. From the **Notification mode** drop-down list, select the type of object states displayed on the map: **Active/Inactive**, **Normal/Failure**, or **Normal/Alarm**.
10. Set the **Require the operator to clear alarm from map** checkbox to select whether the operator will have to delete the alarm message on the map after the transition from **Alarm/Failure** to **Normal** state.
11. Set the **Emulate events** checkbox to generate additional events for an object when its state changes.
12. In the **Off/Normal state message** field, enter the event description displayed in the *Event Viewer* for the **Off/Normal** state.

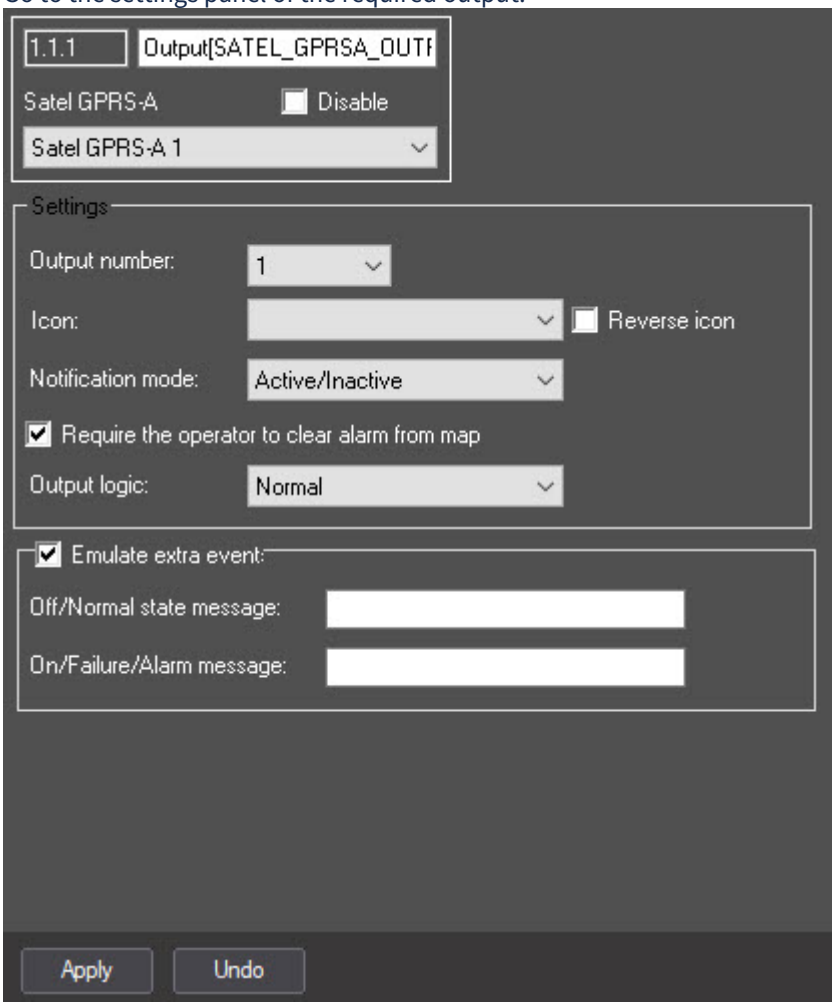
13. In the **Warning state message** field, enter the event description displayed in the *Event Viewer* for the **Warning** state.
14. In the **On/Failure/Alarm state message** field, enter the event description displayed in the *Event Viewer* for the **On/Failure/Alarm** state.
15. Click the **Apply** button to save the settings.

Configuration of the one wire of the *Satel GPRS-A* integration module is complete.

3.6 Configuring the output of the Satel GPRS-A integration module

To configure the output of the *Satel GPRS-A* integration module, do the following:

1. Go to the settings panel of the required output.



2. From the **Output number** drop-down list, select the number of the *GPRS-A* output.
3. From the **Icon** drop-down list, select the icon of the object to be displayed on the map.
4. Set the **Reverse icon** checkbox to reverse the logic of the displayed states on the map.
5. From the **Notification mode** drop-down list, select the type of object states displayed on the map: **Active/Inactive**, **Normal/Failure**, or **Normal/Alarm**.
6. Set the **Require the operator to clear alarm from map** checkbox to select whether the operator will have to delete the alarm message on the map after the transition from **Alarm/Failure** to **Normal** state.
7. Set the **Emulate extra event** checkbox to generate additional events for an object when its state changes.

8. In the **Off/Normal state message** field, enter the event description displayed in the *Event Viewer* for the **Off/Normal** state.
9. In the **On/Failure/Alarm state message** field, enter the event description displayed in the *Event Viewer* for the **On/Failure/Alarm** state.
10. Click the **Apply** button to save the settings.

Configuration of the output of the *Satel GPRS-A* integration module is complete.

4 Working with the Satel GPRS-A integration module

4.1 General information about working with the Satel GPRS-A integration module

The following interface objects are used to work with the *Satel GPRS-A* 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.

4.2 Managing the input of the Satel GPRS-A integration module

You can manage the input of the *Satel GPRS-A* integration module in the **Map** window using the menu of the corresponding object.

Commands to manage the input of the *Satel GPRS-A* integration module are described in the table:

Command	Function
Unlock	Unlock input
Lock via SMS	Lock input using SMS (can be used even when controller isn't connected with *ACFA PSIM*)
Unlock via SMS	Unlock input using SMS (can be used even when controller isn't connected with *ACFA PSIM*)
Lock	Lock input
Clear alarm	Remove the alarm from the map so it can return to the normal state. Works only if the **Require the operator to clear alarm from map** checkbox is set on the settings panel of an input

4.3 Managing the input AC of the Satel GPRS-A integration module

You can manage the input AC of the *Satel GPRS-A* integration module in the **Map** window using the menu of the corresponding object.

Commands to manage the input AC of the *Satel GPRS-A* integration module are described in the table:

Command	Function
Unlock	Unlock input AC
Lock via SMS	Lock input AC using SMS (can be used even when controller isn't connected with *ACFA PSIM*)

Command	Function
Unlock via SMS	Unlock input AC using SMS (can be used even when controller isn't connected with *ACFA PSIM*)
Lock	Lock input AC
Clear alarm	Remove the alarm from the map so it can return to the normal state. Works only if the **Require the operator to clear alarm from map** checkbox is set on the settings panel of an input AC

4.4 Managing the one wire of the Satel GPRS-A integration module

You can manage the one wire of the *Satel GPRS-A* integration module in the **Map** window using the menu of the corresponding object.

Commands to manage the one wire of the *Satel GPRS-A* integration module are described in the table:

Command	Function
Unlock	Unlock one wire
Lock via SMS	Lock one wire using SMS (can be used even when controller isn't connected with *ACFA PSIM*)
Unlock via SMS	Unlock one wire using SMS (can be used even when controller isn't connected with *ACFA PSIM*)
Lock	Lock one wire
Clear alarm	Remove the alarm from the map so it can return to the normal state. Works only if the **Require the operator to clear alarm from map** checkbox is set on the settings panel of one wire

4.5 Managing the output of the Satel GPRS-A integration module

You can manage the output of the *Satel GPRS-A* integration module in the **Map** window using the menu of the corresponding object.

Commands to manage the output of the *Satel GPRS-A* integration module are described in the table:

Command	Function
Turn off	Turn off output
Turn off via SMS	Turn off output using SMS (can be used even when controller isn't connected with *ACFA PSIM*)

Command	Function
Turn on	Turn on output
Turn on via SMS	Turn on output using SMS (can be used even when controller isn't connected with *ACFA PSIM*)

4.6 Example of a configured macro of the Satel GPRS-A integration module

Creating and using macros
Examples of macros

When working with the *Satel GPRS-A* integration module, you can configure a macro that will trigger when an event is received from the *Satel GPRS-A* devices.

Example of a configured macro: