



EL-Far Integration Module Setup and User Guide

ACFA PSIM 1.0

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1 Introduction to EL-Far Integration Module Setup and User Guide

On this page:

- [The purpose of this Guide](#)
- [General information on the EL-Far module](#)

1.1 The purpose of this Guide

The *EL-Far Integration Module Setup and User Guide* is a reference guide for the setup specialists and operators of the *EL-Far* module.

This Guide contains:

1. general information on the *EL-Far* integration module;
2. guidance on how to configure the *EL-Far integration* module;
3. guidance on how to use the *EL-Far integration* module.

1.2 General information on the EL-Far module

The EL-Far integration module is a part of the perimeter intrusion detection system based on the *ACFA PSIM* software package. It is designed to monitor the *EL-Far* perimeter intrusion detection hardware. It is not possible to configure the *EL-Far* perimeter intrusion detection hardware in the *ACFA PSIM*.

Before you start working with the *EL-Far* integration module, it is necessary to install the hardware onsite and perform the initial setup of the *EL-Far* devices.

Note

The detailed information on the *EL-Far* perimeter intrusion detection system can be found in the official vendor documentation (the EL-FAR Electronics Systems 2000 Ltd. manufacturer).

2 Hardware compatibility and licensing of the EL-Far module

Manufacturer	EL-FAR Electronics Systems 2000 Ltd. 24 David Navon St. Moshav Magshimim, 5691000, Israel info@elfar.co.il Tel: +972 3 916 0531 Fax: +972 3 916 0438 Website: https://www.elfar.co.il
Integration Type	Low-level protocol
Hardware connections	Ethernet

Hardware compatibility

Equipment	Purpose	Features
EF-1500	First level controller	Controls up to 32 pieces of equipment, i.e. second level controllers or dry contacts
EF-2000 RS	First level controller	Controls up to 32 pieces of equipment, i.e. second level controllers or dry contacts
Elfar EF127	Second level controller	<ul style="list-style-type: none"> • Contains unique addresses (0-31) • 12 inputs • 7 outputs
Elfar EF2000	Second level controller	<ul style="list-style-type: none"> • Contains unique addresses (0-31) • Up to 2 sensor lines • Each sensor line can contain up to 57 detection zones (sensors)

Software Licensing

Per controller.

3 Configuring the EL-Far integration module

3.1 Connecting the EL-Far perimeter intrusion detection system to ACFA PSIM

The *EL-Far* perimeter intrusion detection system is connected to *ACFA PSIM* as follows:

1. Go to the **Elfar** object settings panel, which is created on the basis of the **Computer** object on the **Hardware** tab of the **System Settings** dialog box.



2. In the **IP (1)** and **Port (2)** fields, enter the IP address and port of the *EL-Far* controller, respectively.
3. In the **Ping (sec) (3)** field enter the controller ping frequency in seconds.
4. Click **Apply (4)** to save the settings.

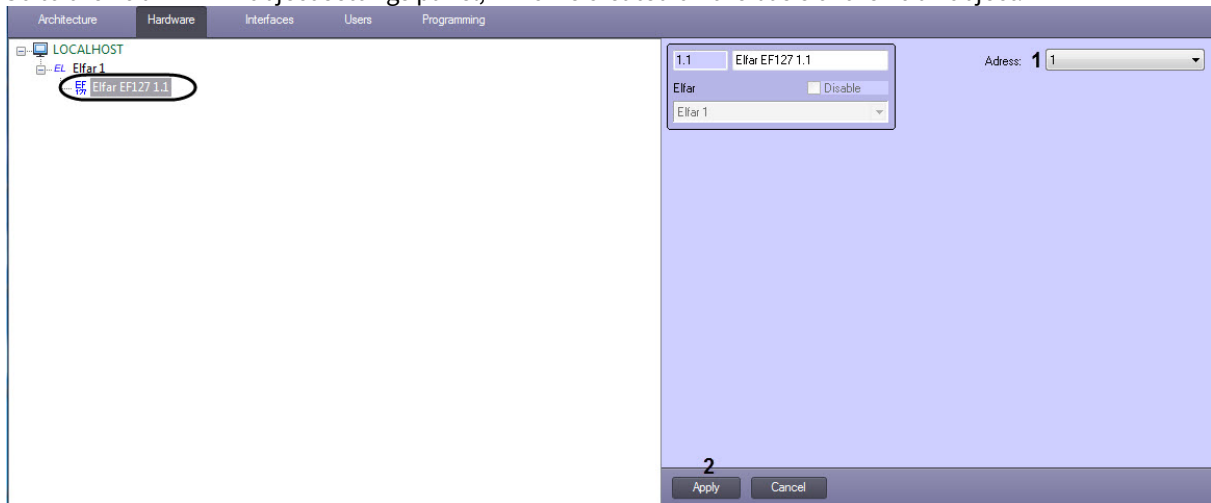
Connecting the *EL-Far* perimeter intrusion detection system to *ACFA PSIM* is complete.

3.2 Configuring the address of the Elfar EF127 controller, relay, and dry contact

After the *EL-Far* perimeter intrusion detection system is connected to *ACFA PSIM*, in case the Elfar EF127 second level controller is used, it is necessary to configure the addresses of the Elfar EF127 controller, the relay and the Elfar dry contact.

3.2.1 Configuring the address of the Elfar EF127 second level controller:

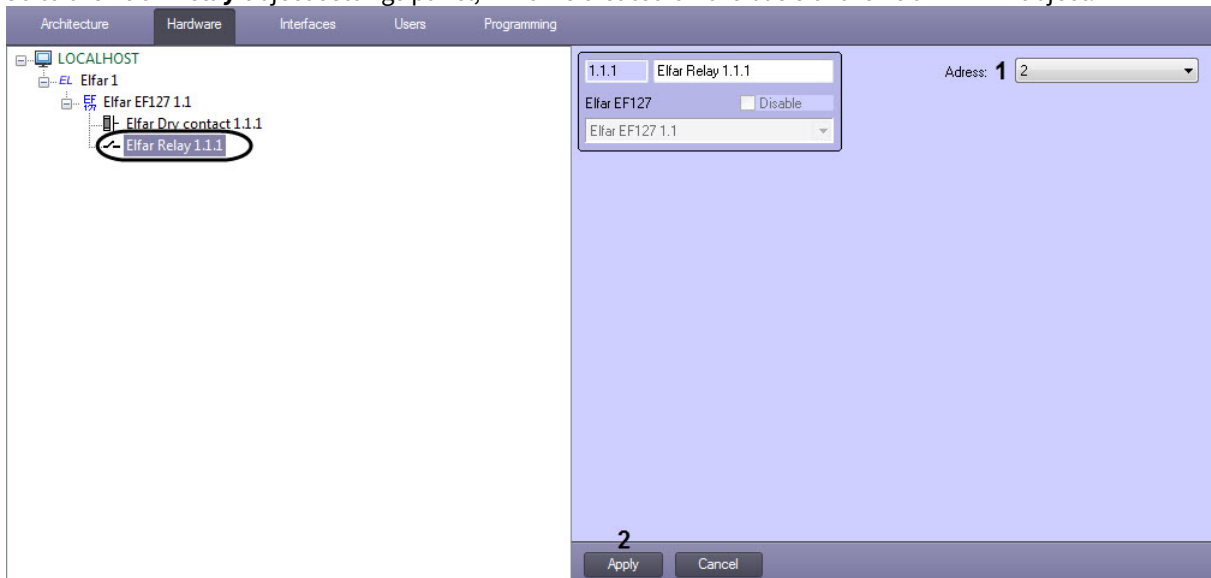
1. Go to the **Elfar EF127** object settings panel, which is created on the basis of the **Elfar** object.



2. In the **Address** field (**1**), enter the address of the Elfar EF127 second level controller (from **1** to **31**).
3. Click **Apply** (**2**) to save the changes.

3.2.2 Configuring the relay address in the Elfar EF127 second level controller:

1. Go to the **Elfar Relay** object settings panel, which is created on the basis of the **Elfar EF127** object.



2. In the **Address** field (**1**), enter the address of the relay in the Elfar EF127 second level controller (from **2** to **7**).
3. Click **Apply** (**2**) to save the changes.

3.2.3 Configuring the dry contact address in the Elfar EF127 second level controller:

1. Go to the **Elfar Dry contact** object settings panel, which is created on the basis of the **Elfar EF127** object.



2. In the **Address** field (1), enter the address of the dry contact in the Elfar EF127 second level controller (from 1 to 12).
3. Click **Apply** (2) to save the changes.

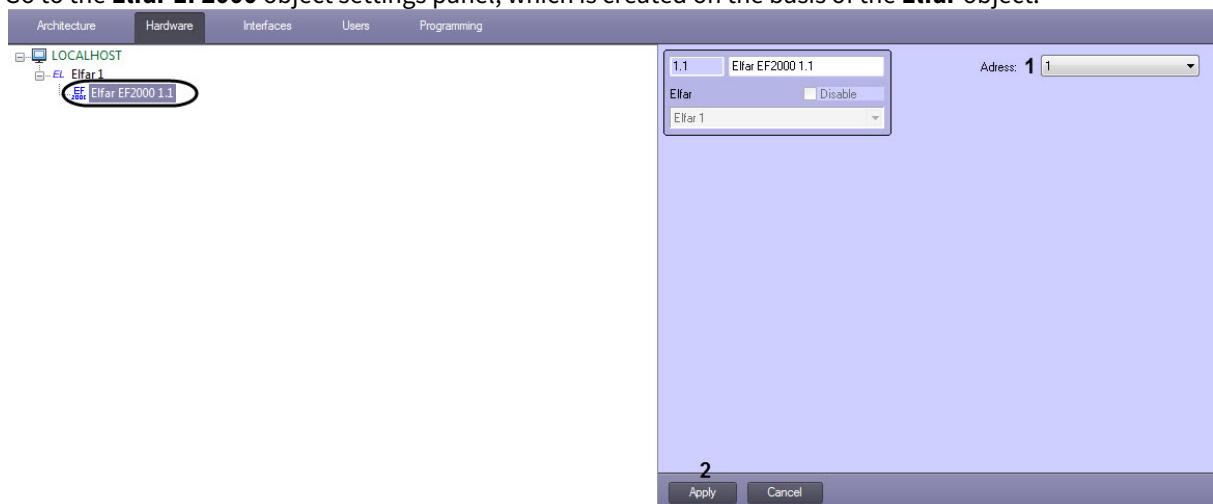
Configuration of the Elfar EF127 controller is completed.

3.3 Configuring the address of the Elfar EF2000 controller, sensor line, and group zone

After the EL-Far perimeter intrusion detection system is connected to ACFA PSIM, in case the Elfar EF2000 second level controller is used, it is necessary to configure the addresses of the Elfar EF2000 controller, the sensor line and the group zone.

3.3.1 Configuring the address of the Elfar EF2000 second level controller:

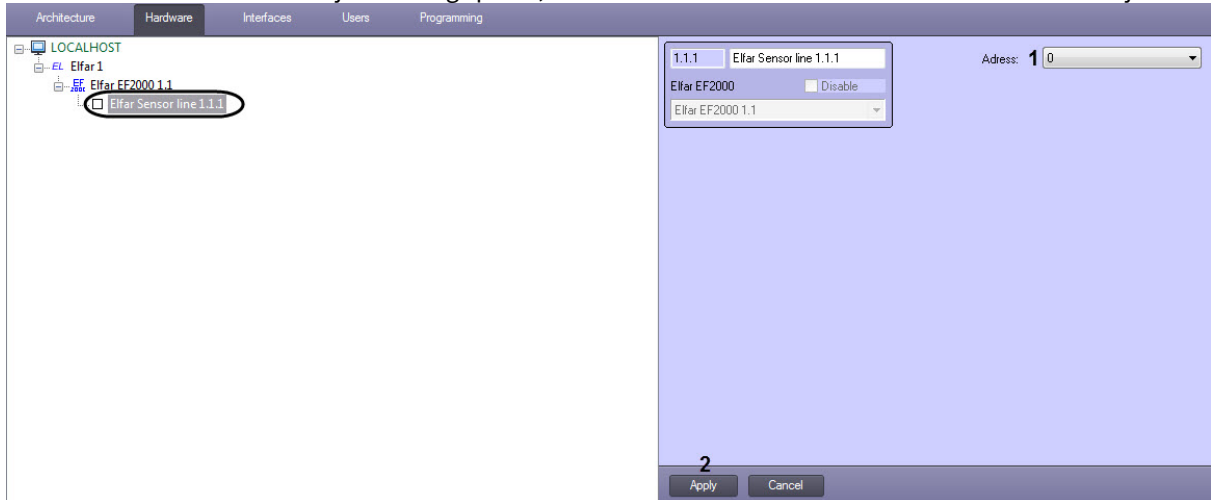
1. Go to the **Elfar EF2000** object settings panel, which is created on the basis of the **Elfar** object.



2. In the **Address** field (1), enter the address of the Elfar EF2000 second level controller (from 1 to 31).
3. Click **Apply** (2) to save the changes.

3.3.2 Configuring the sensor line address in the Elfar EF2000 second level controller:

1. Go to the **Elfar Sensor line** object settings panel, which is created on the basis of the **Elfar EF2000** object.



2. In the **Address** field (1), enter the address of the relay in the Elfar EF2000 second level controller (from 0 to 1).
3. Click **Apply** (2) to save the changes.

3.3.3 Configuring the group zone address in the Elfar EF2000 second level controller:

The sensor line can contain up to 57 detection zones (sensors), which can be grouped into the zone groups. To do this:

1. Go to the **Elfar Group zone** object settings panel, which is created on the basis of the **Elfar EF2000** object.



2. In the **Starting position** drop-down list (1), select the starting position of the Elfar zone group (from 1 to 57).
3. In the **End position** drop-down list (2), select the end position of the Elfar zone group (from 1 to 57).
4. Click **Apply** (3) to save the changes.

Configuration of the Elfar EF2000 controller is completed.

4 Working with the EL-Far integration module

4.1 General information about working with EL-Far module

The following interface objects are used for working with the *EL-Far* integration module:

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





Information on how to configure these interface objects is given in details in [Axxon PSIM Software package: Administrator's Guide](#).

Information on how to work with interface objects is given in details in [Axxon PSIM Software package: Operator's Guide](#).

4.2 Controlling the EL-Far first-level and second-level controllers

The first-level and second-level controllers of the *EL-Far* perimeter intrusion detection system can not be controlled in the **Map** interactive window.

The first level controllers can have the following states:

<p>Elfar 1 [1]</p> 	Disconnected
<p>Elfar 1 [1]</p> 	Main controller connection error
<p>Elfar 1 [1]</p> 	Connected
<p>Elfar 1 [1]</p> 	Weather mode

The second level controllers can have the following states:

Elfar EF2000 1.1 [1.1] 	Normal
Elfar EF2000 1.1 [1.1] 	Disconnected
Elfar EF2000 1.1 [1.1] 	Tamper sensor
Elfar EF2000 1.1 [1.1] 	Voltage level error

Note

The status images of the Elfar EF127 and Elfar EF2000 second level controllers are the same.

4.3 Controlling the EL-Far dry contact, sensor line, and group zone





The EL-Far dry contact, sensor line, and group zone are controlled in the **Map** interactive window using the function menu of the **Elfar Dry contact**, **Elfar Sensor line** and **EL-Far Zone group** objects.

<p><u>Elfar Dry contact 1.1.1 [1.1.1]</u> Enabled</p> <hr/> <p>Show last events</p> <hr/> <p>Close alarm</p>	<p><u>Elfar Sensor line 1.1.1 [1.1.1]</u> Normal</p> <hr/> <p>Show last events</p> <hr/> <p>Close alarm</p>
<p><u>Elfar Group zone 1.1.1.1 [1.1.1.1]</u> Normal</p> <hr/> <p>Show last events</p> <hr/> <p>Close alarm</p>	

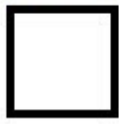
The function menu commands of the *EL-Far* **Dry contact**, **Sensor line** and **Zone group** objects are described in the table.




Function menu command	Executed function
Close alarm	Alarm confirmation by the operator

The *EL-Far* dry contact can have the following states:

Elfar Dry contact 1.1.1 [1.1.1] 	E n a b l e d
Elfar Dry contact 1.1.1 [1.1.1] 	D i s a b l e d
Elfar Dry contact 1.1.1 [1.1.1] 	E r r o r
Elfar Dry contact 1.1.1 [1.1.1] 	O p e n

The *EL-Far* sensor line and group zone can have the following states:

Elfar Group zone 1.1.1.1 [1.1.1.1] 	Normal
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Elfar Group zone 1.1.1.1 [1.1.1.1] 	Alarm
Elfar Group zone 1.1.1.1 [1.1.1.1] 	Error
Elfar Group zone 1.1.1.1 [1.1.1.1] 	Sensor line check error

Note

The status images of the *EL-Far* sensor line and group zone are the same.