



# Optex Integration Module Setup and User Guide

ACFA PSIM 1.0

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# 1 List of Terms Used in Optex Integration Module Setup and User Guide

*Axxon PSIM* Server: a computer that has the **Server** installation version of the *Axxon PSIM* software package installed.

Perimeter Intrusion Detection System (PID): a software and hardware suite designed for controlling perimeter intrusions.

## 2 Introduction into Optex Integration Module Setup and User Guide

### On the page:

- [Purpose and Structure of the Guide](#)
- [General Information on the Optex Software Module](#)

### 2.1 Purpose and Structure of the Guide

The *Setup and User Guide for the Optex Integration Module* is a reference guide for users of the *Optex* software module, which is part of the perimeter intrusion detection system based on the *ACFA PSIM* software package.

This Guide contains:

1. information on the purpose of *ACFA PSIM* 's perimeter intrusion detection system;
2. general information on the *Optex* software module;
3. guidance on how to configure the *Optex* software module;
4. guidance on how to use the *Optex* software module.

### 2.2 General Information on the Optex Software Module

The *Optex* module is a component of *ACFA PSIM* 's perimeter intrusion detection system. This module is used for ensuring interaction between *ACFA PSIM* and the *Optex* perimeter security system (manufactured by OPTEX).

#### Note:

The detailed information on the *Optex* perimeter intrusion detection system can be found in the vendor documentation.

Before configuring the *Optex* software module:

1. Install the *Optex PID* hardware at the secure facility.
2. Connect *Optex* to the Server

### 3 Supported hardware and licensing of the Optex module

<b>Manufacturer</b>	OPTEX CO., LTD. Headquarters Public Relations TEL +81-77-579-8000 FAX +81-77-579-7190
<b>Integration type</b>	Low-level protocol
<b>Equipment connection</b>	Ethernet

#### Supported equipment

<b>Equipment</b>	<b>Function</b>	<b>Features</b>
REDSCAN RLS-3060SH	Laser scan detector	<ul style="list-style-type: none"> <li>• Coverage: 30 m, 180°</li> <li>• Unique detection algorithm</li> <li>• 4 independent detection areas</li> <li>• Automatic area setting function</li> <li>• Built-in heater</li> <li>• 4 independently linked outputs for PTZ camera control</li> <li>• Anti-masking and anti-rotation function</li> <li>• Tamper output</li> <li>• Vertical and horizontal mounting</li> </ul>
RedBeam: RBM-60QN/100QN/200QN IP	Active 4-beam IR detectors for medium and long distances	<ul style="list-style-type: none"> <li>• Power supply to detector using a PoE hub or switch</li> <li>• Double beam pulse synchronization</li> <li>• The high-grade aspherical lens creates a more sharply defined and precise active infrared beam</li> <li>• Weather system</li> <li>• Interruption time: 50 - 500 ms</li> <li>• Reliable operation when there is 99,5% beam energy loss</li> <li>• 15 kV discharge protection</li> <li>• Hermetic package that is insect-, dust-, freezing- and water-proof (IP-65)</li> <li>• Double-zoom viewfinder, easy-to-see vivid interior color for optical alignment</li> </ul>

<b>Equipment</b>	<b>Function</b>	<b>Features</b>
Redwall PIE-1	IP converter	<ul style="list-style-type: none"><li>• Converting an analog signal from the N.C. detector output into digital format Redwall Event Code (UDP/TCP)</li><li>• When connected to a PoE switch, it can be used as a power source for detectors (24VDC, 800mA / 12VDC, 50mA)</li><li>• Works with any Optex detectors or third-party detectors</li><li>• 5 inputs of dry contacts (N.C.)</li><li>• 2 x RJ-45 network outputs</li><li>• PoE Support (IEEE802.3 af/at)</li></ul>

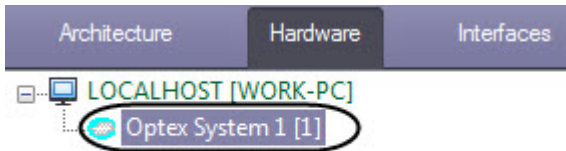
**Protection**

For 1 parent object

## 4 Configuring the Optex Integration Module

### 4.1 Activating the Optex Integration Module

To activate the *Optex* integration module, create an **Optex** object based on the **Computer** object located on the **Hardware** tab of the **Settings** dialog window.

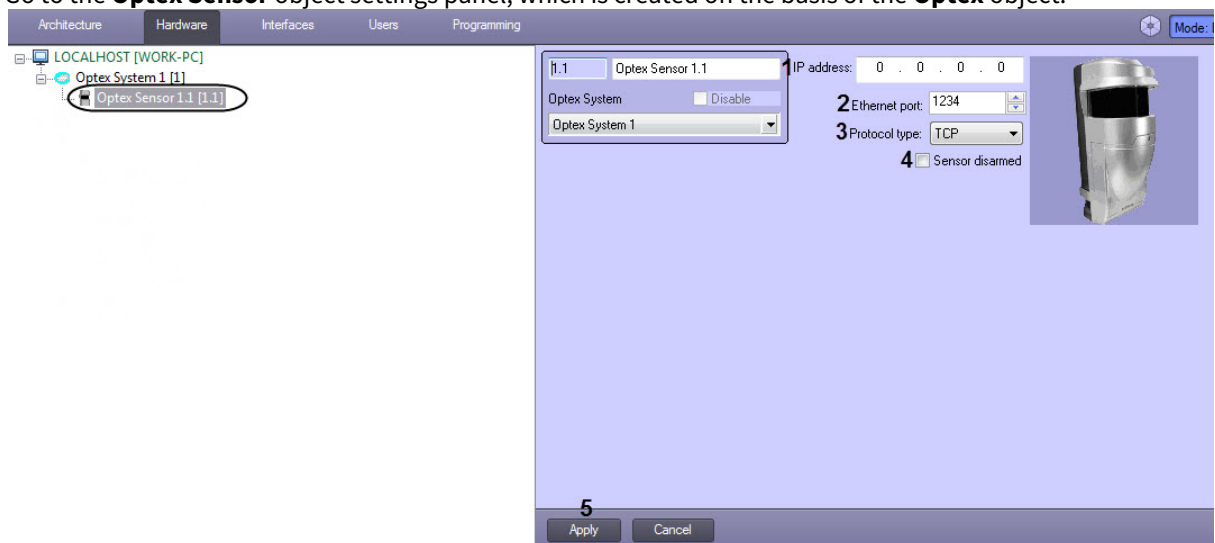


The *Optex* integration module is now activated.

### 4.2 Configuring the Optex Sensor

To configure the *Optex* Sensor, do the following:

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



2. In the **IP address** field, enter the sensor's IP address (1).

**Note:**

This IP address can be found in the vendor documentation.

3. In the **Ethernet port** field, enter the sensor's communication port (2).

**Note:**

By default, 1234 is used.

4. In the **Protocol type** drop-down list, select the communication protocol to be used to talk to the sensor (**TCP** or **UDP**) (3).

- Set the **Sensor disarmed** check box (4) to automatically stop the alarm when the zone exits the **Alarm** state by hardware. Otherwise, the alarm will be active until the operator processes it.

**Note**  
The alarm processing method is the same for all areas belonging to one sensor.

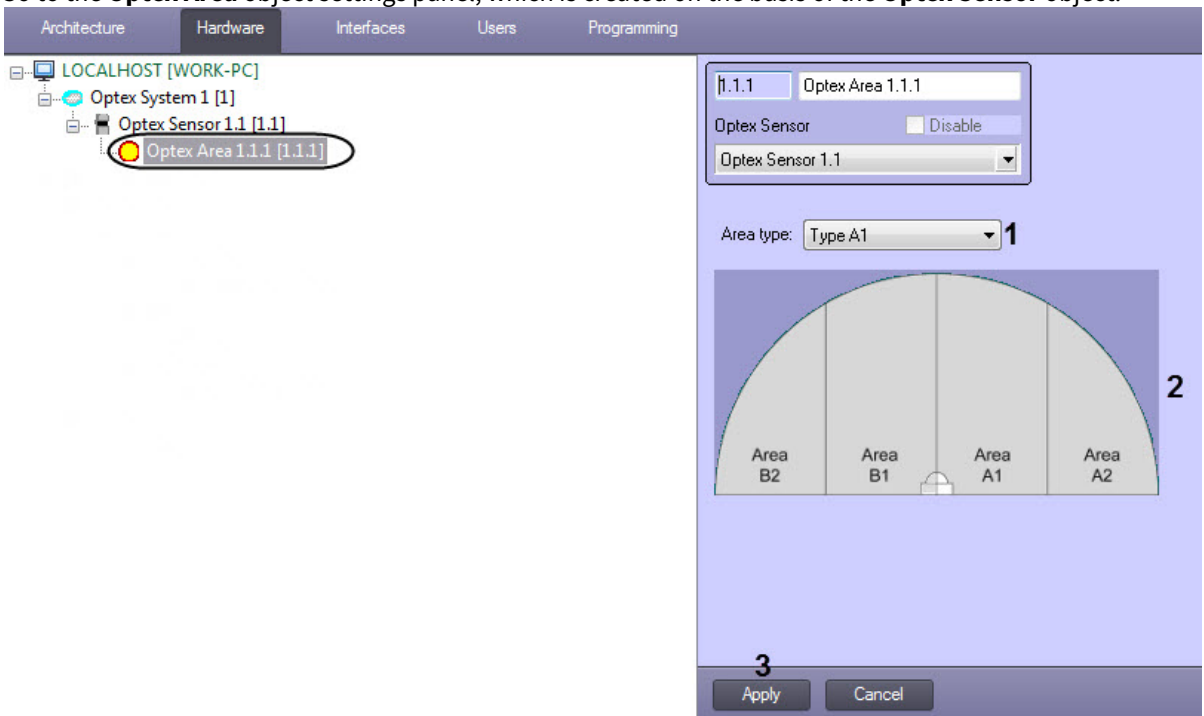
- Click **Apply** to save the changes (5).

Optex Sensor is now configured.

### 4.3 Configuring the Optex Sensor area type

To configure the *Optex* Sensor area type, do the following:

- Go to the **Optex Area** object settings panel, which is created on the basis of the **Optex Sensor** object.



- In the **Area type** drop-down list (1), select the position of the *Optex* area for the corresponding **Optex Area** object.

**Note**  
The sensor areas are configured in hardware, the configuration process is described in the manufacturer's reference documentation.

**Note:**  
The figure (2) shows the correspondence of the area names to their positions if the sensor is configured for 4 areas.

- Click **Apply** to save the changes (3).

The *Optex* Sensor area type is now configured.

## 5 Using the Optex Integration Module

### 5.1 General Information on Using the Optex Integration Module

To use the *Optex* integration module, use the following GUI objects:

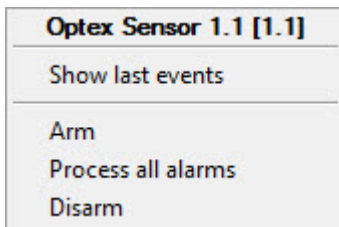
1. **Map.**
2. **Event log.**

The information on how to configure these GUI object can be found in the [Axxon PSIM Software Package: Administrator's Guide](#).

The detailed information on how to work with the GUI objects can be found in the [Axxon PSIM Software Package: Operator's Guide](#).

### 5.2 Managing the Optex Sensor

The *Optex* Sensor is managed in the **Map** interactive window using the **Optex Sensor** object functional menu:










The **Optex Sensor** object functional menu commands description is given in the table.

Menu command	Function performed
Arm	The sensor is armed
Process all alarms	The alarms from all the sensor's areas are processed
Disarm	The sensor is disarmed

The *Optex* Sensor can have the following states:

<p>Optex Sensor 1.1 [1.1]</p>	Disconnected
<p>Optex Sensor 1.1 [1.1]</p>	Tampering

Optex Sensor 1.1 [1.1] 	Alarm in the area
Optex Sensor 1.1 [1.1] 	Alarm in the area (old)
Optex Sensor 1.1 [1.1] 	Dustiness
Optex Sensor 1.1 [1.1] 	Weather detection disabled
Optex Sensor 1.1 [1.1] 	Sensor failure
Optex Sensor 1.1 [1.1] 	Normal state
Optex Sensor 1.1 [1.1] 	Disarmed

### 5.3 Managing the Optex Area

The *Optex Sensor* area is managed in the **Map** interactive window using the **Optex Area** object functional menu:

<b>Optex Area 1.1.1 [1.1.1]</b>
Show last events
Process alarm






The **Optex Area** object functional menu commands description is given in the table.

Menu command	Function performed
Process alarm	The alarm is processed

**Note:**

For a sensor, you can also process the alarms that come from all its areas (see Section [Managing the Optex Sensor](#)).

The *Optex* Sensor area can have the following states:

<p>Optex Area 1.1.1 [1.1.1]</p> 	Area disconnected
<p>Optex Area 1.1.1 [1.1.1]</p> 	Alarm in the area
<p>Optex Area 1.1.1 [1.1.1]</p> 	Alarm in the area (old)
<p>Optex Area 1.1.1 [1.1.1]</p> 	Disarmed
<p>Optex Area 1.1.1 [1.1.1]</p> 	Area in normal state