



## Optex Integration Module Setup and User Guide

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

*Intellect* Server: a computer that has the **Server** installation version of the *Intellect* 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 Intellect* software package.

This Guide contains:

1. information on the purpose of *ACFA Intellect*'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 Intellect*'s perimeter intrusion detection system. This module is used for ensuring interaction between *ACFA Intellect* 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 +81-77-579-8000FAX +81-77-579-7190
<b>Integration type</b>	Low-level protocol
<b>Equipment connection</b>	Ethernet

#### Supported equipment

Equipment	Function	Features
REDFSCAN 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>
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>

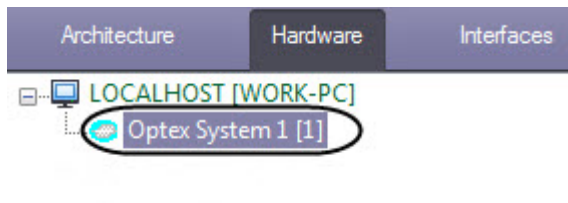
#### Protection

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.

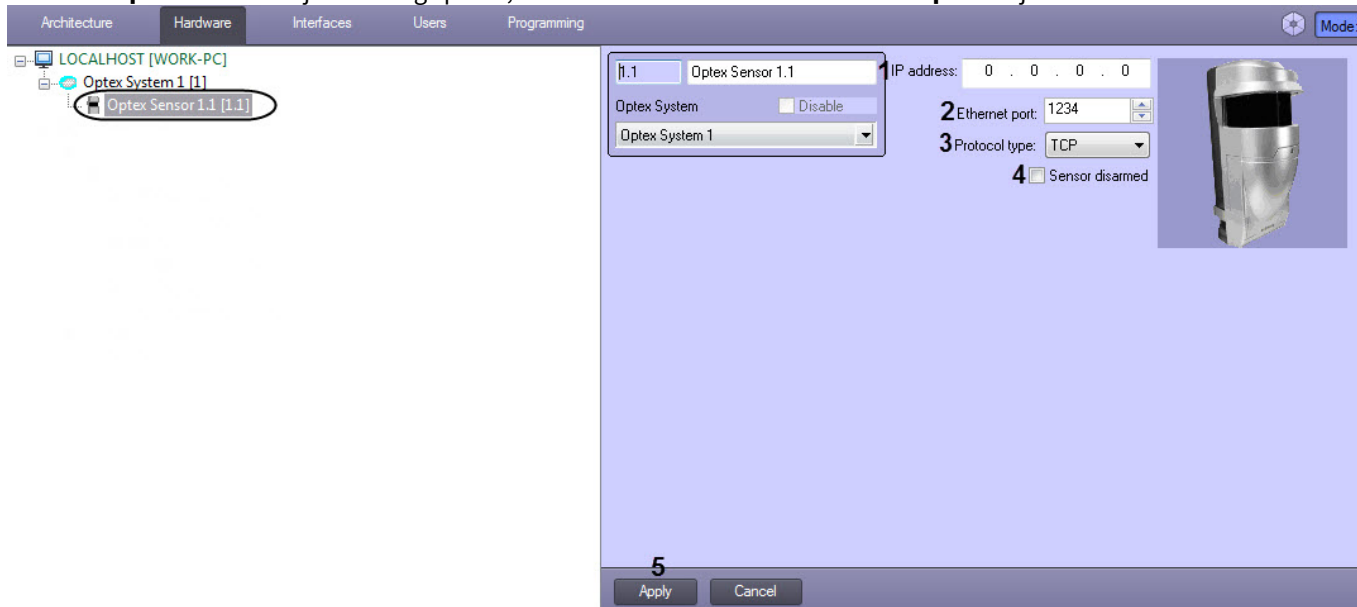


The *Optex* integration module is now activated.

### 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).
5. 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.

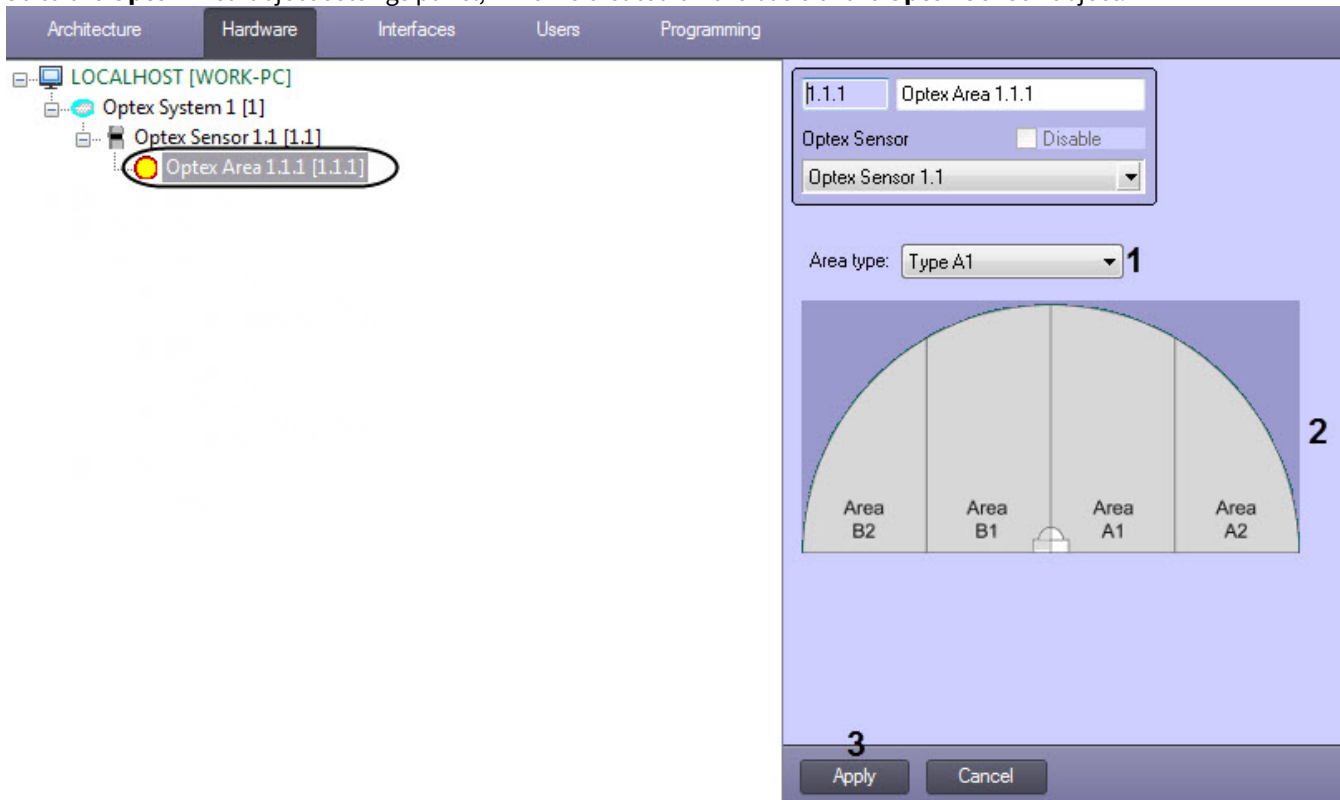
- Click **Apply** to save the changes (5).

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:

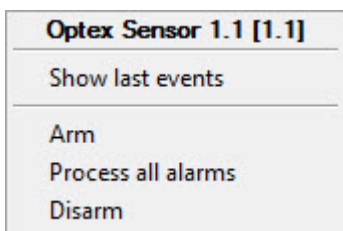
1. **Map;**
2. **Event log.**

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

The detailed information on how to work with the GUI objects can be found in the [Intellect 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
<p>Optex Sensor 1.1 [1.1]</p>	Alarm in the area
<p>Optex Sensor 1.1 [1.1]</p>	Alarm in the area (old)

<p>Optex Sensor 1.1 [1.1]</p> 	Dustiness
<p>Optex Sensor 1.1 [1.1]</p> 	Weather detection disabled
<p>Optex Sensor 1.1 [1.1]</p> 	Sensor failure
<p>Optex Sensor 1.1 [1.1]</p> 	Normal state
<p>Optex Sensor 1.1 [1.1]</p> 	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> 	<p>Alarm in the area (old)</p>
<p>Optex Area 1.1.1 [1.1.1]</p> 	<p>Disarmed</p>
<p>Optex Area 1.1.1 [1.1.1]</p> 	<p>Area in normal state</p>