

AxxonSoft

Setup and User Guide for the
Optex
Integration Module

Version 1.0

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1 List of Terms

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

Perimeter security system (PPS): a software and hardware suite designed for controlling perimeter intrusions.

REDSCAN RLS-3060 – an outdoor laser scan detector (sensor) that can detect a moving object's size, speed, and distance from the detector, with high precision.

2 Introduction

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 security system based on the *Intellect* software package

This Guide contains:

1. information on the purpose of *Intellect's* perimeter security 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 Purpose of *Intellect's* Perimeter Security System

Intellect's perimeter security system is used for:

1. processing the information that comes from perimeter security sensors and from sensors at the entrance to the secure facility;
2. managing actuators (for example, access and entry control devices such as turnstiles or boom barriers; or security lighting devices).

The perimeter security system is a combination of software and hardware. The software portion consists of software modules that allow configuring interaction between *Intellect* and the hardware portion.

Note: A third-party perimeter security system may serve as the hardware portion.

2.3 General Information on the *Optex* Software Module

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

*Note: The detailed information on the *Optex* perimeter security system can be found in the vendor documentation.*

Currently, *Intellect* supports the integration of Redwall Redscan RLS-3060 detectors (sensors).

Before configuring the *Optex* software module:

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

3 Configuring the Optex Integration Module

3.1 Steps to Configure the Optex Integration Module

To configure the *Optex* integration module:

1. Activate the *Optex* integration module.
2. Configure connection to the Server.
3. Select an alarm processing mode.
4. Configure detection areas of the *Optex* sensors.

3.2 Activating the Optex Integration Module

To activate the *Optex* integration module, create an **Optex System** object: go to the **Settings** dialog box, click the **Hardware** tab, and select the parent **Computer** object (Fig. 3.2—1).



Fig. 3.2—1 Activating the *Optex* integration module

The *Optex* integration module is now activated.

3.3 Configuring *Optex*'s connection to the Server

To configure *Optex*'s connection, use the setup panel of the relevant **Optex Sensor** object. To find this object, go to the **Settings** dialog box, click the **Hardware** tab, and browse the object tree of the relevant **Computer** object (Fig. 3.3—1).

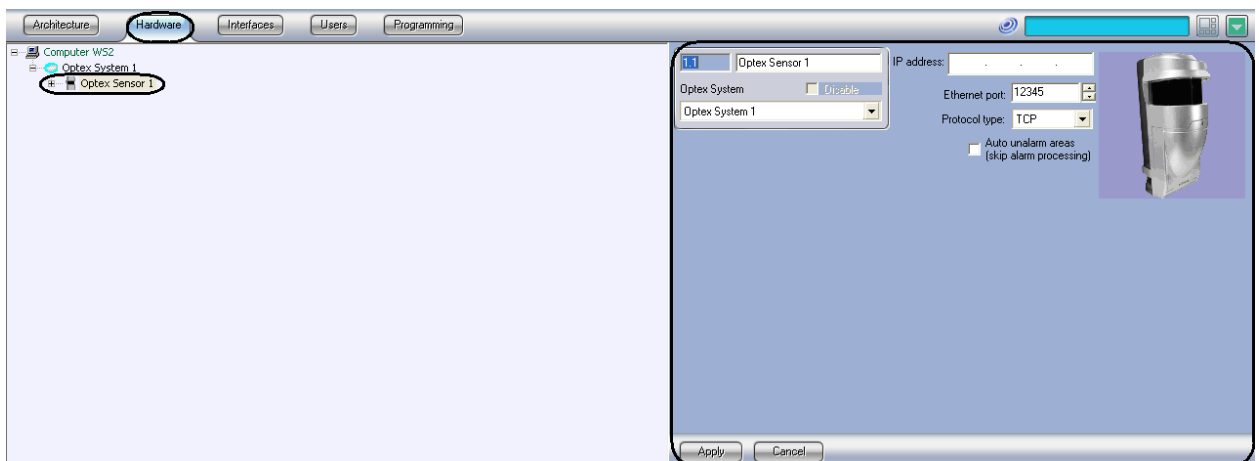


Fig. 3.3—1 Optex Sensor object

To configure *Optex*'s connection to the Server:

1. Go to the setup panel of the relevant **Optex Sensor** object (Fig. 3.3—2).

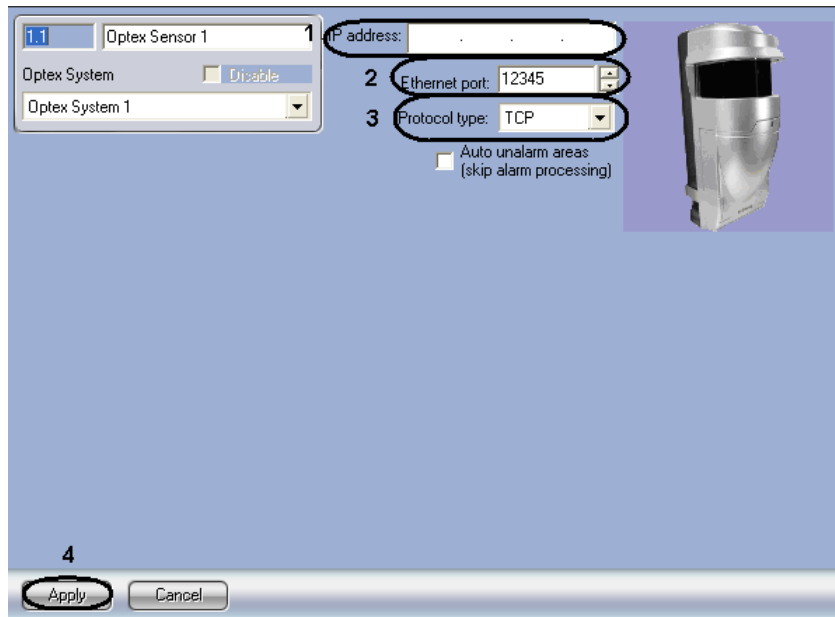


Fig. 3.3—2 Configuring *Optex's* connection to *Intellect*

2. In the **IP address** field, enter the sensor's IP address (Fig. 3.3—2, 1).

Note: This IP address can be found in the vendor documentation.

3. In the **Ethernet port** field, enter the sensor's communication port (Fig. 3.3—2, 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**) (Fig. 3.3—2, 3).
5. Click **Apply** to save the changes (Fig. 3.3—2, 4).

Optex's connection to the Server is now configured.

3.4 Selecting the Alarm Processing Method

For an *Optex* sensor, *Intellect* has two options for processing the alarms that come from its detection area:

1. Automatic – the alarm stops automatically when the detector's hardware leaves the **Alarm** state.
2. Processed by the operator – the alarm is active up until the operator processes it.

For a sensor, all its detection areas have the same alarm processing method.

To select the alarm processing method:

1. Go to the setup panel of the relevant **Optex Sensor** object (Fig. 3.4—1).

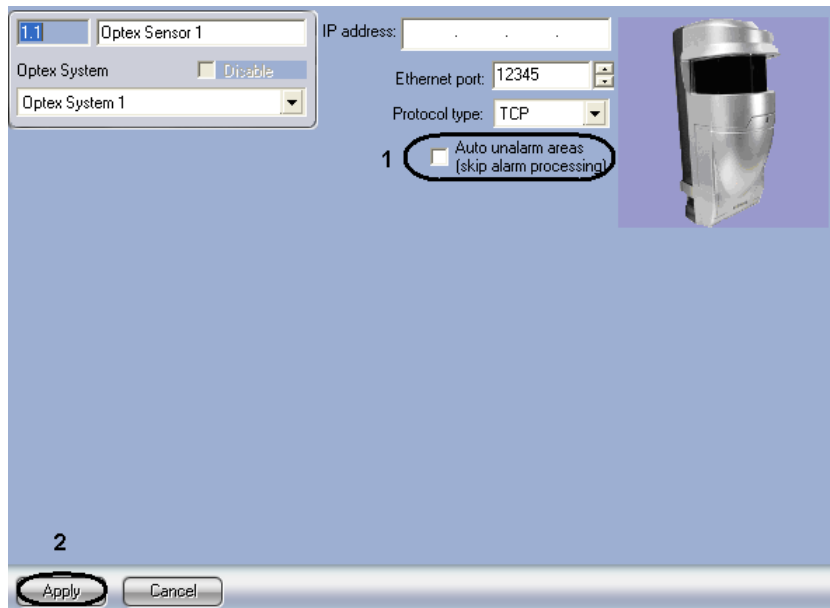


Fig. 3.4—1 Selecting the alarm processing method

2. To process alarms automatically, select the **Auto unalarm areas (pass process alarm)** checkbox (Fig. 3.4—1, 1). To process alarms with the operator, deselect the checkbox.
3. Click **Apply** to save the changes (Fig. 3.4—1, 2).

The alarm processing mode is now selected.

3.5 Configuring Detection Areas

For an *Optex* sensor, to configure its detection area, use the setup panel of the relevant **Optex Area** object. To find this object, go to the **Settings** dialog box, click the **Hardware** tab, and browse the object tree of the relevant **Computer** object (Fig. 3.5—1).

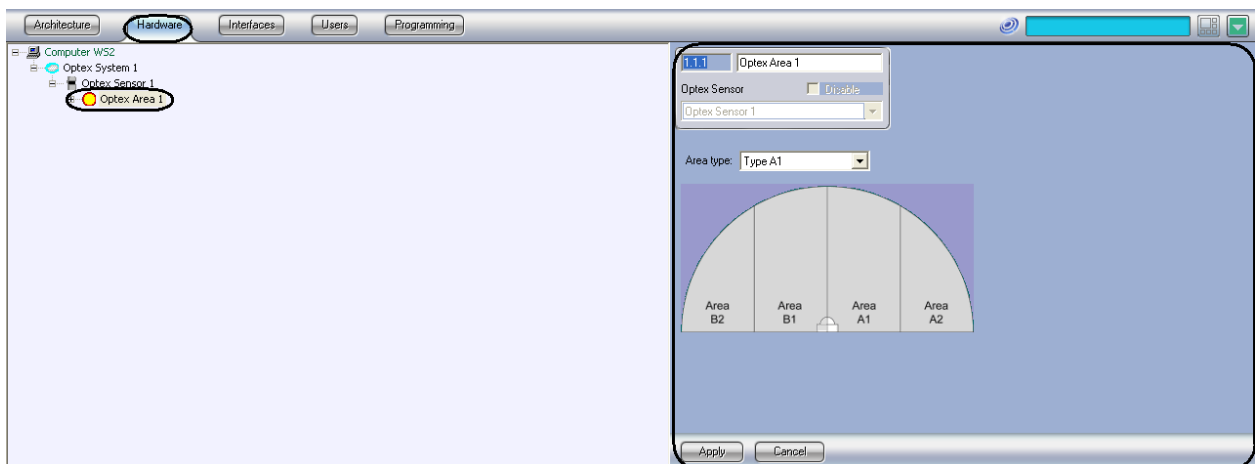


Fig. 3.5—1 Optex Area object

To configure a detection area:

1. Go to the setup panel of the relevant **Optex Area** object (Fig. 3.5—2).

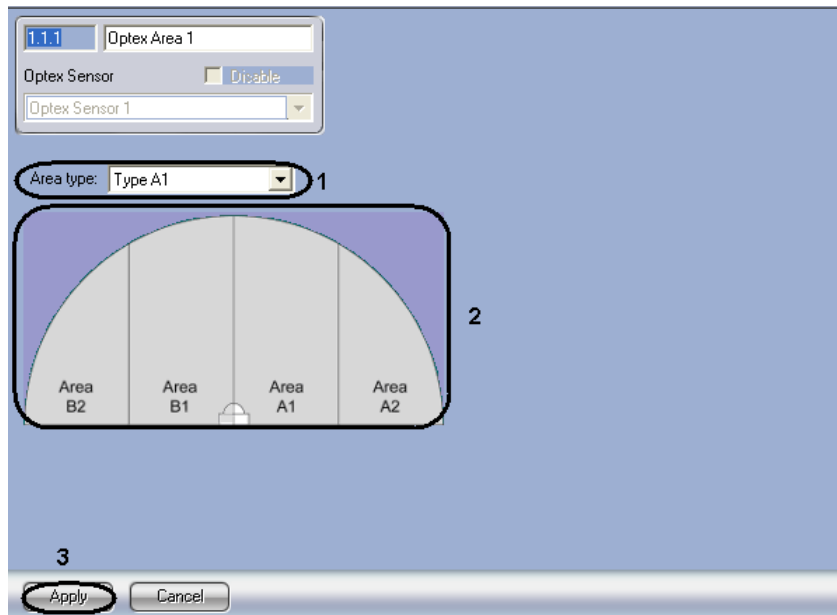


Fig. 3.5—2 Configuring a detection area

2. In the **Area type** drop-down list, select an area type. This is the position of the detection area (Fig. 3.5—2, **1**).

*Note 1: The figure above shows the setup panel of a **Optex Area** object. For each area type (label), the figure shows which position it represents, for the case when the sensor is configured for 4 detection areas (see Fig. 3.5—2, **2**).*

Note 2: For each sensor, its detection areas are configured at the hardware level. For how to do it, refer to the vendor documentation.

3. Click **Apply** to save the changes (Fig. 3.5—2, **3**).

The detection area is now configured.

4 Using the Optex Integration Module

4.1 General Information

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* administrator guide.

The detailed information on how to work with the GUI objects can be found in the *Intellect* operator guide.

4.2 Managing Optex Sensors

To manage an *Optex* sensor, go to the **Map** window and use the menu of the relevant **Optex Sensor** object (Fig. 4.2—1 and Tab. 4.2—1).

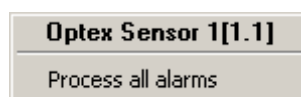


Fig. 4.2—1 Optex Sensor menu

Tab. 4.2—1 Description of the Optex Sensor menu items

Menu item	Executed function
Process all alarms	Processes the alarms that come from all the sensor's detection areas

4.3 Managing Detection Areas

For an *Optex* sensor, to manage a detection area, go to the **Map** window and use the menu of the relevant **Optex Area** object (Fig. 4.3—1 and Tab. 4.3—1).

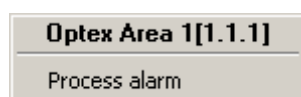


Fig. 4.3—1 Optex Area menu

Tab. 4.3—1 Description of the Optex Area menu items

Menu item	Executed function
Process alarm	Processes the alarm

Note: For a sensor, you can also process the alarms that come from all its areas (see Section Managing Optex Sensors).