ADPRO Integration Module Settings Guide

ACFA PSIM 1.1

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1 Introduction into ADPRO Integration Module Settings Guide

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1.1 Purpose and Structure of the Guide

The *ADPRO* Integration Module Settings Guide is a reference manual designed for *ADPRO* Module users. This module functions as a part of perimeter intrusion detection system based on the *ACFA PSIM* software package.

This Guide presents the following materials:

1. General information about the *ADPRO* integration module;
2. A list of supported devices and licensing of the *ADPRO* integration module;
3. Configuration of the *ADPRO* integration module;
4. Working with the *ADPRO* integration module.

1.2 General information about the ADPRO integration module

The *ADPRO* integration module is a part of the perimeter intrusion detection system built on the basis of the *ACFA PSIM* Software System. It is designed to monitor devices of the *ADPRO* module. Configuring and controlling devices of the *ADPRO* module in the *ACFA PSIM* software package is impossible.

Note.

Detailed information about the *ADPRO* module is presented in the official documentation for that system (see xtralis.com).

Before you start using the *ADPRO* integration module, install the hardware on site and configure the system in the vendor's software.

Note.

It is not recommended to connect the *ADPRO* hardware to an *ACFA PSIM* Server via IP modules (with virtual COM port) on site. Connection via IP module can only be used for firmware upgrade.

2 Supported hardware and licensing of the ADPRO integration module

Manufacturer	**Xtralis** 175 Bodwell Street Avon, MA 02322 USA xtralis.com Phone numbers: Toll Free: 800 229 4434 Fax: (781) 740 4433
Integration type	Low level protocol
Equipment connection	RS-232

Supported equipment

Type*	Equipment	Function	Features
IR 853	PRO E-45	Passive-Infrared Detector	Curtain medium range / 50m range
IR 863	PRO E-45H	Passive-Infrared Detector	Curtain medium range / H / 60m range
IR 873	PRO E-45D	Passive-Infrared Detector	Curtain medium range directional / 50m range
IR 883	PRO E-45DH	Passive-Infrared Detector	Curtain medium range directional / H / 60m range
IR 854	PRO E-100	Passive-Infrared Detector	Curtain long range / 120m range
IR 864	PRO E-100H	Passive-Infrared Detector	Curtain long range / H / 150m range
IR 86C	PRO E-400H	Passive-Infrared Detector	Curtain long range / H / 220m range
IR 851	PRO E-30	Passive-Infrared Detector	Volumetric 50° / 30m range
IR 85B	PRO E-51	Passive-Infrared Detector	Volumetric 26° / 50m range
IR 856	PRO E-85	Passive-Infrared Detector	Volumetric 17° / 60m range

IR 857	PRO E-18W	Passive-Infrared Detector	Volumetric 90° / 21m range
IR 858	PRO E-18	Passive-Infrared Detector	Volumetric 50° / 24m range
IR 859	PRO E-40	Passive-Infrared Detector	Volumetric 15° / 40m range
IR 866	PRO E-85H	Passive-Infrared Detector	Volumetric 17° / H / 75m range
IR 867	PRO E-18WH	Passive-Infrared Detector	Volumetric 90° / H / 27m range
IR 868	PRO E-18H	Passive-Infrared Detector	Volumetric 50° / H / 30m range

*The type displayed on the object settings panel in the *ACFA PSIM* software.

Licensing

Per 1 detector.

3 Configuration of the ADPRO integration module

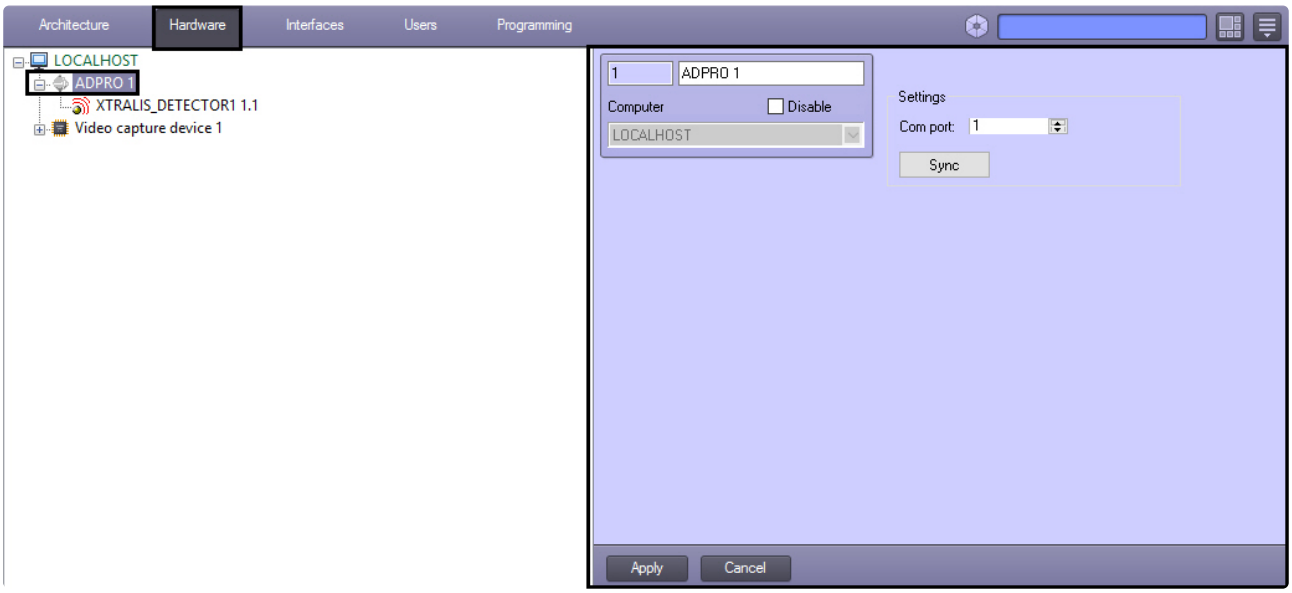
3.1 Configuration procedure for ADPRO integration module

The *ADPRO* integration module is configured according to the following procedure:

1. Set up a connection between the *ADPRO* hardware and *ACFA PSIM* software.
2. Synchronize the hardware tree of the *ADPRO* integration module.

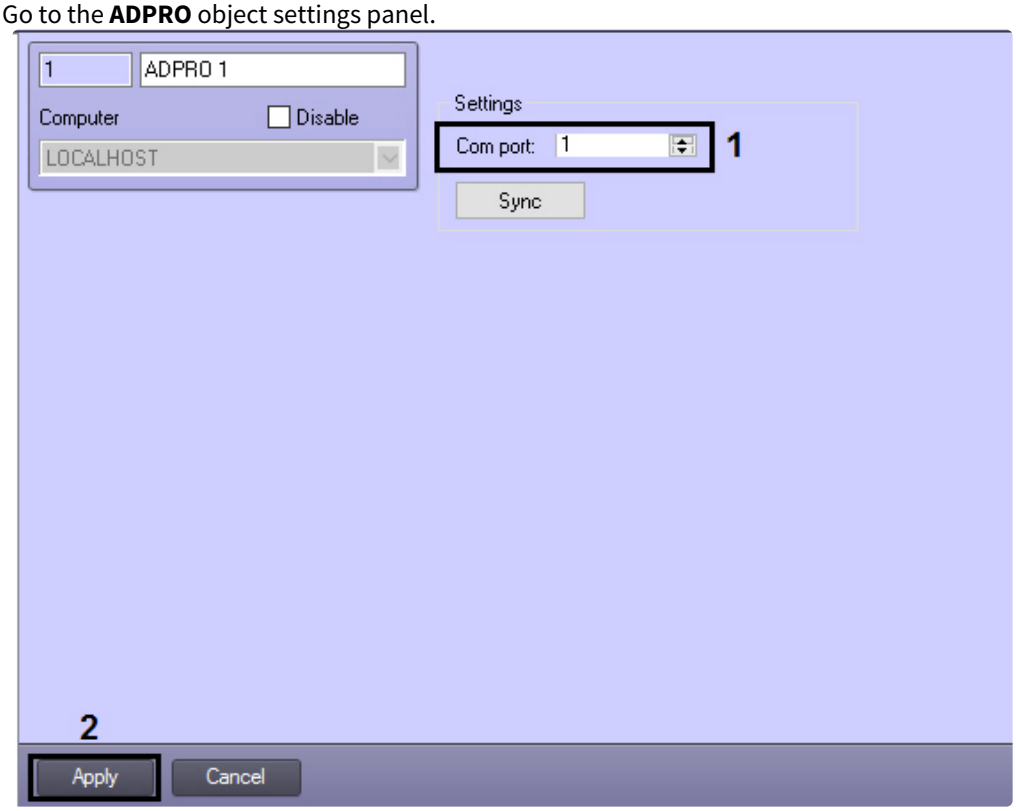
3.2 Setting up a connection between the ADPRO hardware and ACFA PSIM software package

Connection with the *ADPRO* hardware is configured in the *ACFA PSIM* software package on the settings panel of **ADPRO** object which is created on the basis of **Computer** object in the **Hardware** tab of the **System Settings** window.



The connection is configured as follows:

1. Go to the **ADPRO** object settings panel.



2. Enter the number of COM port to which the *ADPRO* system is connected in the **Com port** field (1).
3. Click **Apply** (2).

> **Note.**
>
> When the **Disable** checkbox is set on the settings panel of the **ADPRO** object, the COM port is closed and the object itself as well as it's child objects go into the DISABLED state. This is displayed on the Map. When the **Disable** checkbox is unset again, the COM port is reopened, child objects are re-enabled and these objects' states on the Map are updated.

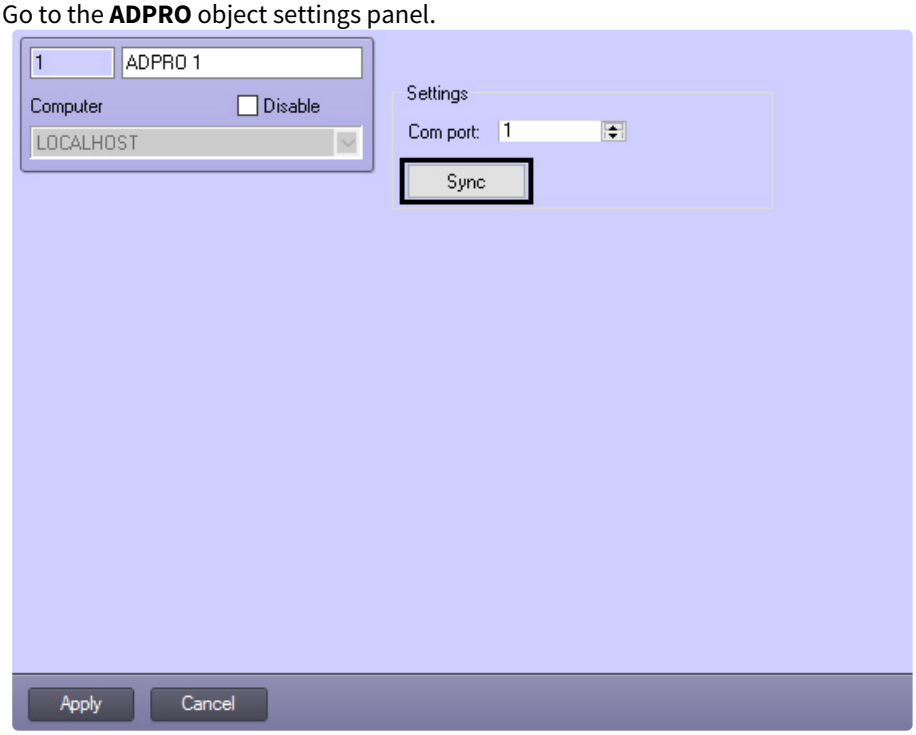
Configuration of connection with the *ADPRO* hardware in the *ACFA PSIM* software package is now completed.

3.3 Synchronization of the ADPRO integration module hardware tree

Synchronization of the *ADPRO* integration module hardware tree allows automatically creating required **Detector** objects in the *ACFA PSIM* hardware tree.

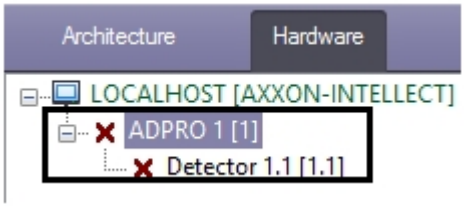
In order to synchronize the *ADPRO* integration module hardware tree proceed as follows:

1. Go to the **ADPRO** object settings panel.



2. Click **Sync**.
3. The synchronization start is followed by the **Command start** event displayed in the **Event viewer** window. When synchronization finishes, the **Command done** event is shown. For both events the "SYNC" text is displayed in the **Add. info** column.

The objects corresponding to the connected detectors are created in the objects tree on the basis of the **ADPRO** object.



The detector type and its number on the line are displayed on the **Detector** object settings panel.

Note.

When the **Disable** checkbox is set on the settings panel of the **XTRALIS_DETECTOR** object, the detector goes into the DISABLED state and is no longer scanned.
When the **Disable** checkbox is unset again, the detector scan restarts and the object's state on the Map is updated.

There are four types of **Detector** objects as described below:

Detector type in ACFA PSIM	**Corresponding ADPRO detectors**
ADPRO detector 1	PRO E-45 / PRO E-45H / PRO E-18 / PRO E-18H / PRO E-18W / PRO E-18WH / PRO E-30 / PRO E-40
ADPRO detector 2	PRO E-45D / PRO E-45DH
ADPRO detector 3	PRO E-100 / PRO E-100H / PRO E-400H
ADPRO detector 4	PRO E-51 / PRO E-85 / PRO E-85H

Synchronization of the *ADPRO* integration module hardware tree is now completed.

4 Working with the ADPRO integration module

4.1 General information about working with the ADPRO integration module

The following interface objects are used for working with *ADPRO* integration module:

1. **Map;**
2. **Events viewer.**

Information about **Map** and **Events viewer** interface objects' configuration is given in the *Axxon PSIM Software Package: Administrator's Guide*.

Information on how to work with these interface objects is given in details in *Axxon PSIM Software Package: Operator's Guide*.

The most recent versions of these documents are available in the AxxonSoft documentation repository.

4.2 Managing ADPRO detector

The *ADPRO* detectors are managed in the **Map** interactive window using the corresponding object's menu.

Description of the **Detector** object menu commands is given in the table.

Menu item	Performed function
Handle alarms	Handling alarms generated by the detector.

The **Detector** object states and their corresponded icons are listed below:

 – ALARM_INFRARED, ALARM_REJECTION, CREEP_ZONE_CH1, CREEP_ZONE_CH2, GENERAL_ALARM, SINGLE_ALARM_MASTER, SINGLE_ALARM_SLAVE1, SINGLE_ALARM_SLAVE2

 – LINK_LOST

 – LINK_SET

 – DETECTOR_STARTUP, HEATING_ERROR, MODEL_HEATING, NO_OPP45X_CON, POWER_FAILURE, WRONG_MODEL

 – ALIGNMENT, ANTI_MASKING, COVER_OPEN, EXTERN_VANDAL_IMP, PULSE_COUNT, TAMPER_BRACKET