



Project: Optex Redscan Laser Detector Integration

Purpose:

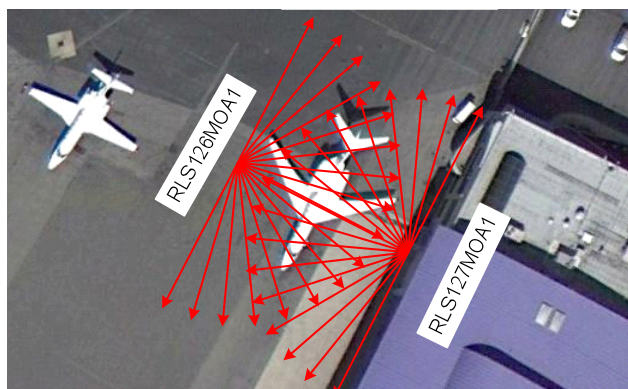
The purpose of this document is to define the Optex Redscan laser detector, a network edge sensor used in outdoor perimeter protection applications for horizontal or vertical boundaries, and how to integrate the device into the Milestone VMS software platform*.



Description:

The perimeter of a property or area around a protected asset can be monitored by utilizing the Optex RLS-3060, a passive infrared laser detector capable of emitting an object tracking laser in a 190° arc in a 30 meter range. Several, even dozens, of units can be used in a single installation as the devices can be networked into a complete system. The device will alarm and activate a response so that CCTV cameras can be directed to the source of the intrusion.

For the purpose of this training, let us use an example where a customer wants to protect a multi-million dollar aircraft:



The lines in red designate the coverage area of the Optex RLS-3060. If an intrusion occurs in the coverage area as detected by the Optex RLS-3060, the alarming unit will then send a TCP or UDP ASCII string to the Milestone VMS (Video Management Software) system.

The Milestone VMS will mobilize a Pan/Tilt/Zoom camera to view the targeted area, begin recording the video, and send a notification email to the proper authorities. Once alerted, the notified personnel can utilize the XProtect Mobile application for Android devices to remotely view the activity. The alarmed event can then be logged into the Alarm Management list to facilitate the investigation process.

The duration of the stored video data can be determined at a later time.

*All Platforms, excluding XProtect Corporate prior to 5.0



Pilot Setup Procedure:

- To be done by Milestone Certified Partner:
 - Determine network configuration and install infrastructure as needed.
 - Mount PTZ camera in a suitable location that can cover the protected area.
 - Install XProtect software onto a Windows-based machine.
 - Required specifications of the operating system as documented in the XP Enterprise Administration Manual
- Mount and tune the Optex RLS-3060 devices (Certified Optex security integrator, only)
 - Each device will have a unique IP Address
 - Set the devices to transmit the devices to send a TCP or UDP ASCII format. Both formats have been tested for communication into the Milestone VMS.
 - Utilize port 1234
- XProtect Administrator
 - Add the PTZ camera to the XPE System
 - Setup Email server
 - Setup Generic Events (diagram below)
 - The Optex devices will send unique identifying ASCII Strings. Example: RLS126MOA1
 - RLS define the unit type
 - 126 is the last byte in the IP address of the Optex device. The second unit may have 127 as the last address byte so it will send its alarm as, RLS127MOA1
 - Enter the string of 126MOA1 for RLS-3060 whose IP address ends with 126. The "MOA1" part may change as well depending on what is set up by the Optex Certified Security Integrator.
 - Select Email notification



Generic Event Properties

Generic Events

- Parking Area 1 North (RLS.126)
- Parking Area 1 South (RLS.127)

Event configuration

Event name: Parking Area 1 North (RLS.126)

Event port: 1234

Event substring:

Add

Event message expression

"126MOA1"

(

)

AND

OR

Remove

Event priority: 0

Event protocol: TCP

Event rule type: Search

Email notification

☐ Send e-mail if this event occurs

☐ Attach image from camera

N/A

SMS notification

☐ Send SMS if this event occurs

Delete Add Generic and timer event OK Cancel

- Repeat process for the second Optex RLS-3060 device. Address 127. (Use succeeding numbers for third, fourth, etc. devices).

Generic Event Properties

Generic Events

- Parking Area 1 North (RLS.126)
- Parking Area 1 South (RLS.127)

Event configuration

Event name: Parking Area 1 South (RLS.127)

Event port: 1234

Event substring:

Add

Event message expression

"127MOA1"

(

)

AND

OR

Remove

Event priority: 0

Event protocol: TCP

Event rule type: Search

Email notification

☐ Send e-mail if this event occurs

☐ Attach image from camera

N/A

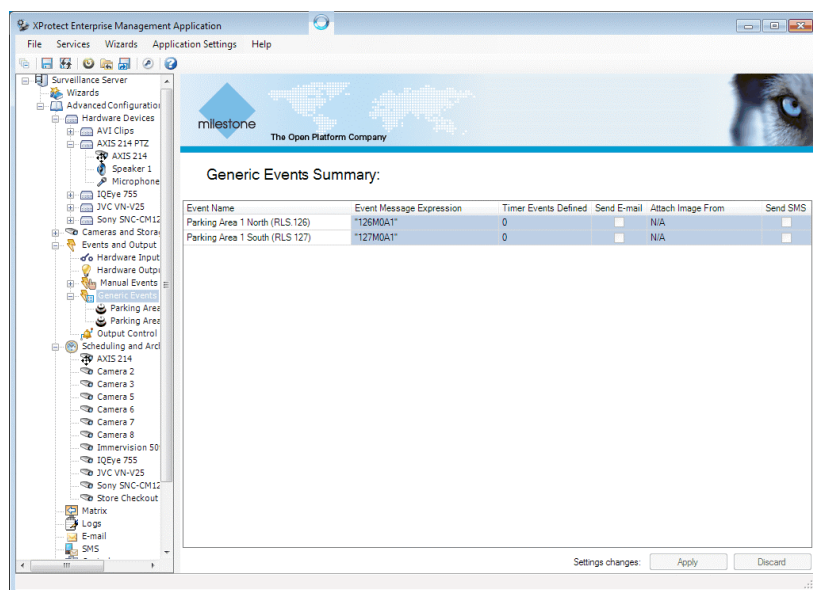
SMS notification

☐ Send SMS if this event occurs

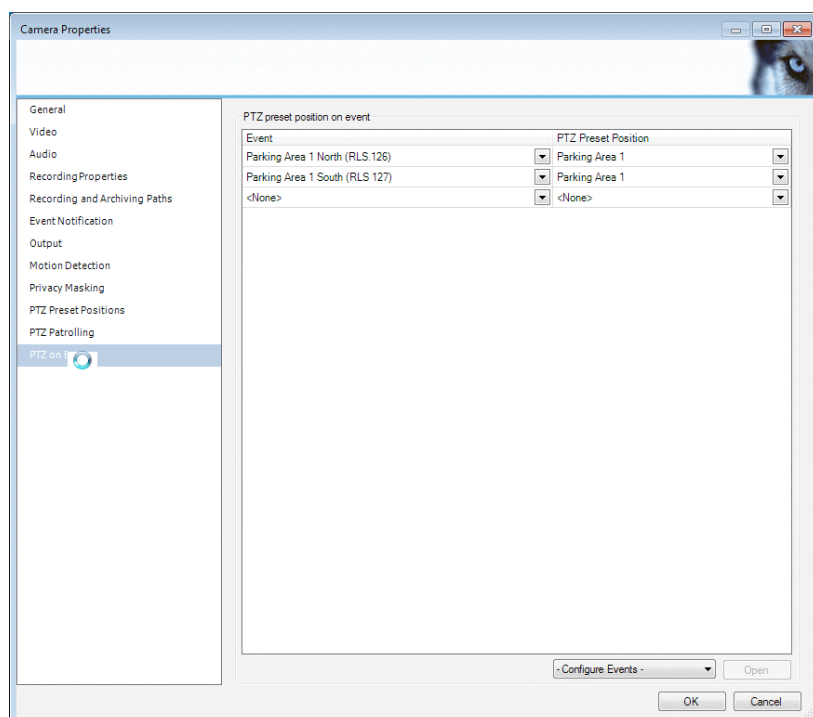
Delete Add Generic and timer event OK Cancel



- Generic Event Summary



- Set Preset to target the protected area (i.e., aircraft in this case)
- Link the PTZ on Event function to the Preset Target Area





- Link the event to the Alarm Manager
- Create a new Alarm in the Alarm Manager
- Select “Triggering Event” as **External Event**
- Select Source

The 'Alarm Definition' dialog box is shown. It has a left pane titled 'Alarm Definition' and a right pane titled 'Alarm definition'. In the right pane, the 'Enable' checkbox is checked. The 'Name' field contains 'Parking Area 1 Breach'. The 'Trigger' section shows 'Triggering event' set to 'External Event' (indicated by a red arrow). The 'Sources' field is empty, and the 'Select...' button next to it is highlighted with a red arrow. The 'Activation period' section has 'Time profile' selected with 'Always' chosen. The 'Other' section has 'Related cameras' set to 'Select...', 'Initial alarm owner' set to 'Select...', 'Initial alarm priority' set to 'High', and 'Events triggered by alarm' set to 'Select...'. The 'Auto-close alarm' checkbox is unchecked. 'OK' and 'Cancel' buttons are at the bottom right.

- Set “Type filter” to ALL
- The Generic Events to trigger the alarm is listed under “All Inputs”
- Select and add the events

The 'Select Sources' dialog box is shown. It has a 'Type filter' dropdown set to 'All' (indicated by a red arrow). The 'Servers' tree on the left shows a hierarchy: 'All Events', 'All Inputs', 'Server', 'All Events (Server)', 'All Inputs (Server)', 'AXIS 214 PTZ', 'Parking Area 1 North (RL)', 'Parking Area 1 South (RL)', and 'Reset Home'. 'Parking Area 1 North (RL)' and 'Parking Area 1 South (RL)' are selected (indicated by a red arrow). The 'Selected' list on the right contains 'Parking Area 1 North (RLS.126)' and 'Parking Area 1 South (RLS 127)'. 'Add' and 'Remove' buttons are between the tree and the list. 'OK' and 'Cancel' buttons are at the bottom right.



- Set Time Profile
- Attach the related/associated camera

- Save settings
 - Save and restart XPE Administrator
- Setup Smart Client views to include the Alarm Alert List

For more information regarding the Optex Redscan laser detector, see:

Redscan product sheet overview-

http://www.optexeurope.com/Site/temPW3_001.asp?intPage=1898&intTemplateID=100&intLevel=3

Redscan laser detector overview video-

<http://www.youtube.com/watch?v=LZhjV8Hp7Y4>

Redscan product demo video (horizontal and angled vertical)-

<http://www.youtube.com/watch?v=8dsLxPXX0pw>



milestone

The Open Platform Company

