



ALPR Integration with Milestone
Installation and User Guide
IZCentral/XProtect

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ALPR Integration with Milestone Installation and User Guide: IZCentral/XProtect

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1 About This Document

This document describes how to install and use the integration of INEX Technologies' IZCentral with Milestone XProtect.

1.1 Who Should Read this Document

This document is for:

- **Integrators** who want to understand how to install and integrate IZCentral with Milestone XProtect

1.2 Recommended Reading/Related Documents

In addition to the INEX/TECH documents mentioned in this section, you should be familiar with the Milestone XProtect documentation.

Contact INEX/TECH for document ordering information.

Table 1 INEX/TECH Related Documents

Doc. No.	Title	Version
IZCENTRAL-CORE-MAN-001	IZCentral User Guide	3.xx
IZCENTRAL-AlertPI-MAN-001	IZCentral Alerting Plugin Guide (for the sections that discuss how to manage black/white lists)	1.xx

1.3 Versions Supported

This document was written based on Milestone XProtect 2019 R1, and IZCentral Build 75.15.x and above. Later versions may require changes to this document.

1.4 Certifications/Verifications

INEX has received an official Milestone "Confirmation of Compatibility" certificate verifying that IZCentral Build 75.16.1 is compatible with XProtect 2019 R1.

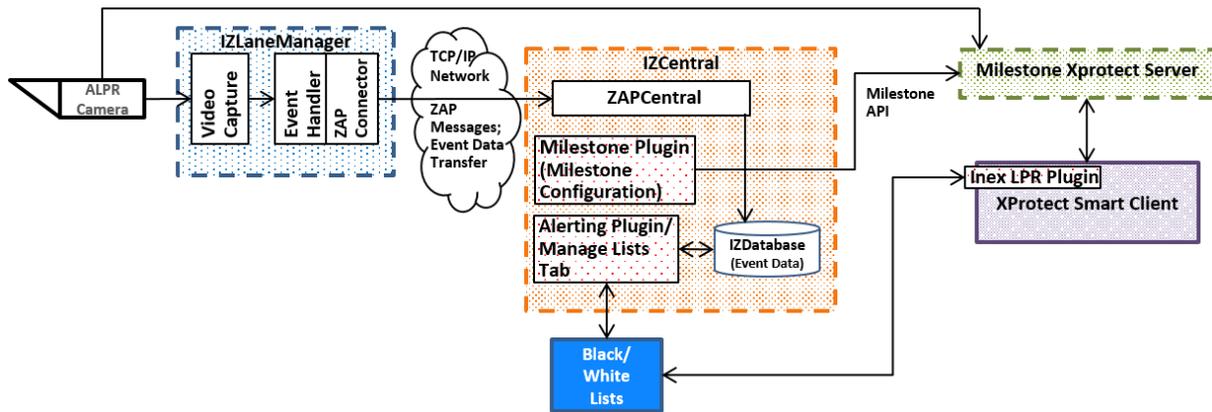
1.5 Support

If you have any questions, please contact our support team via our website:
<http://www.inextechnologies.com>

2 Solution Overview

The INEX/TECH integration solution for Milestone XProtect enables the XProtect Smart Client to display Events and Alarms sent from INEX/TECH cameras. Black and white lists can be edited via either IZCentral or the Smart Client. The solution consists of:

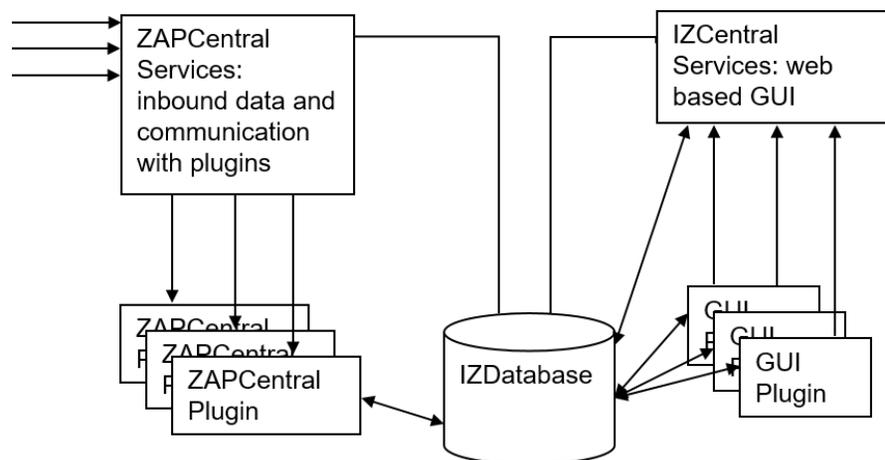
- An Inex LPR plugin for the XProtect Smart Client
- Milestone and Alerting plugins for IZCentral (INEX/TECH's centralized management system)
- IZLaneManager LPR management software (running on an All-in-one Camera System, or on a separate Data Processing Unit)



3 IZCentral Overview

IZCentral is the centralized management system for controlling the various data operations in an ALPR system. These data operations include license plate data storage and retrieval, configurable viewing of the license plate data through a built-in GUI host, and third-party system interfacing. IZCentral is composed of several components:

- IZDatabase (created with MS SQLServer) stores:
 - Configuration data
 - Event Journal data
- ZAPCentral (main module of the IZCentral system; configured as a TCP/IP server)
 - Uses proprietary XML-based INEX/TECH Application Protocol (ZAP)
 - Manages all ZAP connections to IZCentral (configured as TCP/IP clients, such as IZLaneManagers and third-party systems configured to communicate via ZAP messages)
- IZCentral Web GUI enables you to configure IZCentral, and to view and sort data and status information from IZLaneManagers and third-party systems
- Application-specific business logic modules also referred to as **plugins**.



4 Hardware Requirements

- IZCentral machine
 - I5/I7 7th generation or better
 - Minimum 8GB RAM
 - Windows Professional or Server Edition
 - Recommended: SSD
- Milestone machine – refer to the Milestone documentation
- INEX/TECH ALPR cameras and accessories (one or more of the following):
 - IZA500W (All-in-one ALPR Camera System)
 - IZ600 (requires INEX/TECH Data Processing Unit – DPU)
 - IZ600F (requires INEX/TECH Data Processing Unit – DPU)

5 Software Requirements

5.1 Milestone XProtect Server and Smart Client

Refer to the Milestone XProtect documentation.

5.2 IZCentral

IZCentral requires the following software:

- .NET Framework 4.0 and above
- Microsoft Internet Information Services (IIS) 7.0 and above
- Microsoft SQLServer
- IZCentral plugins that you need to install as part of your site's installation
- An Internet browser.

IMPORTANT

The user interface will only operate correctly if your browser security settings allow for execution of applications within the browser. See your browser's help or documentation for information.

6 Alerting and Milestone Plugins for IZCentral

6.1 Installing the IZCentral Alerting and Milestone Plugins

1. Contact INEX/TECH to purchase licenses for each plugin. See the IZCentral Installation Guide for further details once you have obtained the license file from INEX/TECH.
2. Install IZCentral with the Alerting and Milestone plugins. IZCentral can be installed on the Milestone server or on a standalone computer

6.2 Configuring and Using the IZCentral Alerting Plugin

Note

For further details about using the IZCentral GUI, see the Alerting Plugin and IZCentral User Guides.

6.2.1 Using the Linked Systems Tab to Find Lane Names

Navigate to the IZCentral Linked Systems tab:

Communication	System ID	System Name	System Type	IP Address	Last Update Time	Diagnosis
	25	Lane 667	LC	192.115.120.20	05/19/2019 01:06:10 PM	Lane connected
	21	Lane 22	LC	192.115.120.13	05/19/2019 01:06:10 PM	Lane connected
	14	Lane 41	LC	192.115.120.13	05/19/2019 01:06:10 PM	Lane connected

The System Name column has the Lane Names configured for each INEX/TECH camera (as they were set in IZLaneManager – see Section 7 on page 9). Record these exact Lane Names; you will need to enter them in the XProtect Management Client Application (see Section 9 on page 12).

IMPORTANT

If you change the camera's Lane Name in IZLaneManager, you must:

- Change to the same Lane Name in the XProtect Management Client Application
- Restart the ZAPCentral service on the IZCentral machine
- Close and reopen the Milestone Smart Client (to update the display and dropdowns) - see Section 10 on page 21.

6.2.2 Configuring the IZCentral Alerting Plugin

Configuration parameters are only accessible to IZCentral users with administrator privileges. After logging into IZCentral, select the Config tab.

To configure the Alerting plugin's parameters, navigate to the appropriate node on the IZCentral Config tab page (click on the arrows to open the different levels of the tree).

IMPORTANT

After changing a parameter value, you must click Save before clicking on another parameter in the left-hand pane, or before leaving the Config tab; otherwise the new settings will not take effect.

The relevant parameter tree sections are:

- Alerts Settings – see the Alerting Plugin Guide
- Manage Lists – Black and White list locations and credentials – see the Alerting Plugin Guide for details.

6.2.3 Managing Black/White Lists

To add/edit/remove list entries, navigate to the Manage Lists tab in the IZCentral Web UI. (See the instructions in the Alerting Plugin Guide.) You can also add/delete plates from the lists from the XProtect Smart Client Inex LPR tab (see Section 10.2.2 on page 25).

6.3 Configuring the IZCentral Milestone Plugin

In order to connect IZCentral to the Milestone server, you need to set the following parameters. **Verify that the parameters in bold type have their default settings:**

Table 2 IZCentral Milestone Integration Parameters

Parameter	Description	Default Value
Server IP	The IP address of the Milestone server API	127.0.0.1
Port	The port of the Milestone server API	80
Event timeout (ms)	If images are not received by IZCentral within this timeout period, IZCentral sends the recent Events to Milestone without images. This is usually caused by a delay in receiving images over a slow network connection (via the FTP protocol).	1000
Log Level	Sets the level of detail for the Log, with 1 being the least detailed (system start/stop information and critical errors) and 5 being the most detailed (detailed messages used by programmers).	1

Parameter	Description	Default Value
Milestone User Name	The username used for authentication to access Milestone. Must match the username (Basic authentication by default) set up in the XProtect Management application.	inexuser
Milestone Password	The password used for authentication to access Milestone. Must match the password for the username (Basic authentication by default) set up in the XProtect Management application.	zamir
Alert is assigned to user	The username in Milestone used to assign alerts.	inexuser
Alert state	The default Milestone Alarm state used when sending an alert from IZCentral to Milestone. Options are: New; In_progress; On_hold; Closed.	New
Alert priority	The default Milestone Alarm priority used when sending an alert from IZCentral to Milestone. Options are: High, Medium, Low.	Medium
Additional Image	Image sent to Milestone, in addition to the cropped (plate patch) image. Options are: LPRImageType; OverViewImageType. This image will appear at the lower right (below the plate patch) when an Event is selected in the Inex LPR tab.	OverViewImage Type
LPR Default Country Code	The default Milestone country code used when sending an alert from IZCentral to Milestone.	---
Send LPR with Event/Alert snapshots	Sets whether or not images are sent with Events and Alerts. Options are: Send; Do not send	Send
Send ALPR as Event or Alarm	<p>The default Milestone type used when sending Events from IZCentral to Milestone (Smart Client). Options are: "Analytics Event" or "Alarm"</p> <p>If set to Analytics Event, then Events will only be seen on the Milestone Smart Client "Inex LPR" tab.</p> <p>If set to Alarm, then Events will be seen on both the Inex LPR and Alarm Management tabs.</p> <p>IMPORTANT</p> <p>The IZCentral "Send ALPR as Event or Alarm" setting must match the "Show Events/Alarms" settings in the Milestone Smart Client (see Section 10.1 on page 21). This parameter must be set on both the Live and Inex LPR tabs - by clicking the Setup button at the upper right of the display.</p>	Analytics Event
Plate Source	The Plate Source set for the Black/White list entry when editing lists from the Milestone side.	manual

7 Using IZLaneManager to Verify Video and Make Note of Parameter Settings

1. For each camera, in IZLaneManager, first navigate to the Calibration tab, and verify that video is being displayed. This ensures that the camera is streaming video.
2. On the IZLaneManager Configuration tab, and note the values of the following parameters (for the stream you want to display in the Milestone Smart Client – LPR or Overview). You will need them when you add hardware items to Milestone XProtect Management Client Application (see Section 9 on page 12).
 - Lane Name (can also be found via IZCentral – see Section 6.2.1 on page 6)
 - Event Builder > LPR/View Camera > RTSP Port
 - Event Builder > LPR/View Camera > RTSP Stream Name

IMPORTANT

If you change the camera's Lane Name in IZLaneManager, you must:

- Change to the same Lane Name in the XProtect Management Client Application
- Restart the ZAPCentral service on the IZCentral machine
- Close and reopen the Milestone Smart Client (to update the display and dropdowns) - see Section 10 on page 21

The following example shows where the parameters are located for the LPR camera:

SETTINGS	CONFIGURATION	JOURNAL	LOG	STATISTICS	SYSTEM STATUS	CALIBRATION
Search in Configuration...						
Configuration Parameter	Value	Description				
[-] Lane Manager	Enabled [Restart]	Restart of Lane Manager is required, if you change sta				
[-] Lane Name	Lane 1	A text description of the lane (e.g., 'Main Gate 1'). The				
[+] Lane ID	1	The identification number of the lane controlled by the.				
[+] System Maintenance Port	5001	The TCP/IP port used by the LaneManager subsystem				
[+] GUID	IZLaneManager1	Unique ID used in the WCF endpoint description (read				
[+] System Data Port	5011	The TCP/IP port used by the Lane Manager subsystem				
[+] Max Size of Log for Display	5 Mb	Maximum size of each log (on the Log tab) that can be				
[+] Is Store All Images	False	If False, only the 'best' LPR frame is stored and display				
[+] HTTP Communication Enabled	False	If 'True', IZLaneManager will accept triggers via the HT				
[+] Light OFF Mode	Auto	Indicates mode of how illuminator is turned off. Au				
[+] Lane Manager Log	Enabled	Restart of Lane Manager is required, if you change sta				
[+] Event Builder	Enabled	Restart of Lane Manager is required, if you change sta				
[+] Computer Settings	Enabled	Restart of Lane Manager is required, if you change sta				
[+] Journal	Enabled	Restart of Lane Manager is required, if you change sta				

[+] Post-Trigger View Frames	0	The value corresponds to the total number of Overview images in the video t
[+] WCF Communication Enabled	False	Specifies whether or not WCF communication to the ZEB service is enabled.
[+] Event Builder Log	Disabled	Restart of Lane Manager is required, if you change status of subsystem
[+] LPR Camera	Enabled	Restart of Lane Manager is required, if you change status of subsystem
[+] Camera Id	1	The unique number used to identify the specific Camera. The number value c
[+] Camera Device Type	ZsimCamera	Defines Device Type connected to the Camera Service. Supported devices:
[+] Camera Device Name	-	A text description of the camera device factory name. Read only.
[+] Streaming	True	Specifies whether or not RTSP streaming is activated, either 'True' or 'False'
[+] Stream Rate Divider	5	The video frame rate transmission parameter. The configured value is used t
[+] RTSP Port	8514	Defines a RTSP streamer port
[+] RTSP Stream Name	videoStream	The name used at the end of RTSP URL. Example: rtsp://domain:ip:rtsp_po
[+] RTSP Stream Codec	H264	The codec type used for RTSP streaming. Default codec is 'Mjpeg'.
[+] RTSP Bitrate	1500000	RTSP Bitrate
[+] Stream Scale Factor	x1	Scale factor of frame size during RTSP streaming
[+] Event Overlay	False	Defines whether Even Overlay (ALPR Event Data) should be inserted into R

8 Installing the INEX/TECH Plugin for XProtect Smart Client

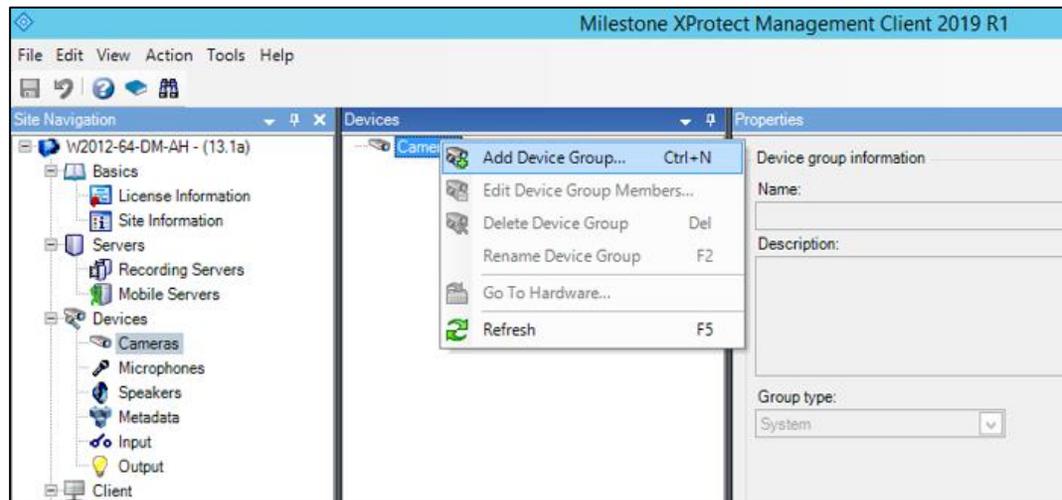
Note

For installation instructions for Milestone XProtect Server and Smart Client, refer to the Milestone documentation.

To enable Inex LPR functionality in the Milestone Smart Client, install the InexALPR plugin on the computer with Milestone Smart Client.

9 Adding INEX ALPR Cameras to the XProtect Management Client Application

1. Open the XProtect Management (Client) Application.
2. In the Site Navigation pane at the left, navigate to the Devices section.
3. Right-click on Cameras, and select Add Device Group

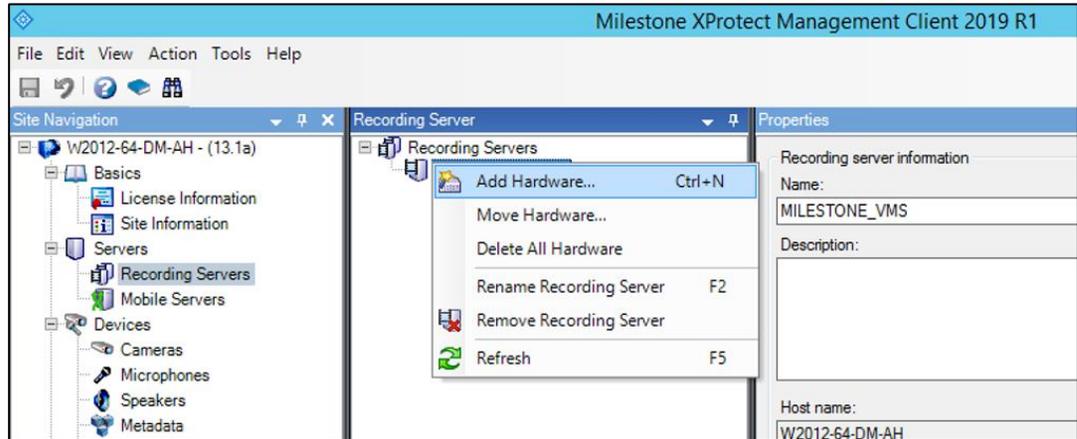


4. Name the group "Inex ALPR"

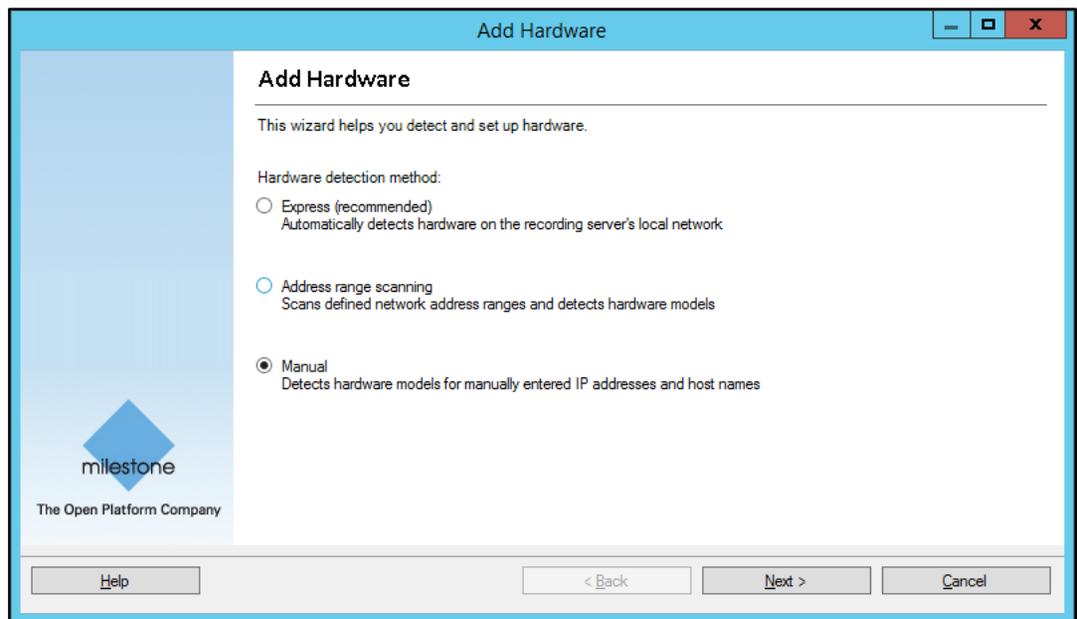
For Advanced Users

If you want to use a different name for the INEX cameras group, change the tag called `InexLprCamerasSection` in the following file: `C:\Program Files\Milestone\XProtect Smart Client\MIPPlugins\InexLPR\Settings.txt`

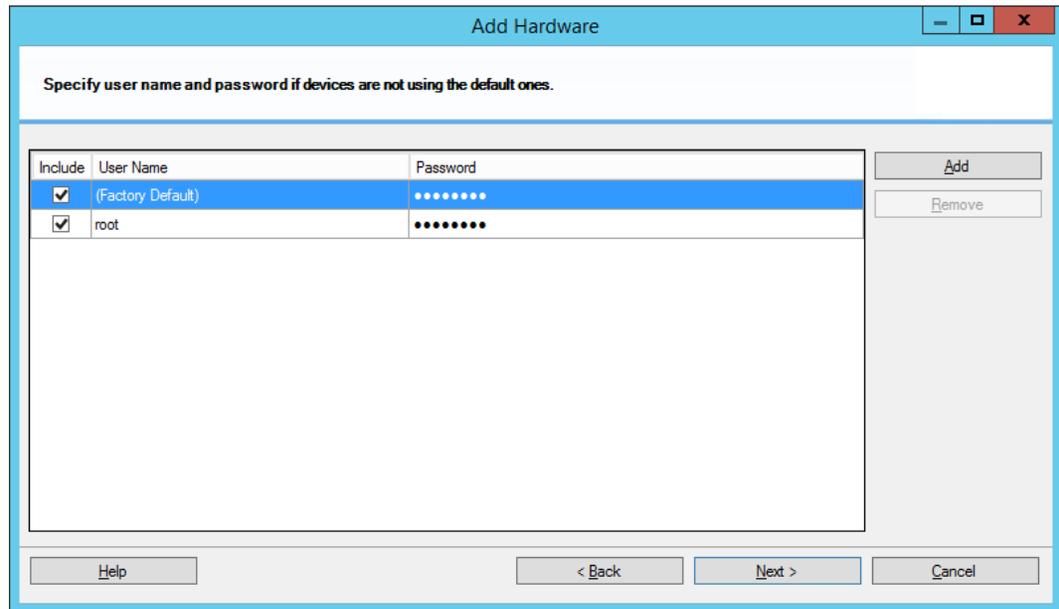
5. Navigate to the Servers section, then click on the sub-node called Recording Servers.
6. In the pane to the right, right-click on the server name and select Add Hardware.



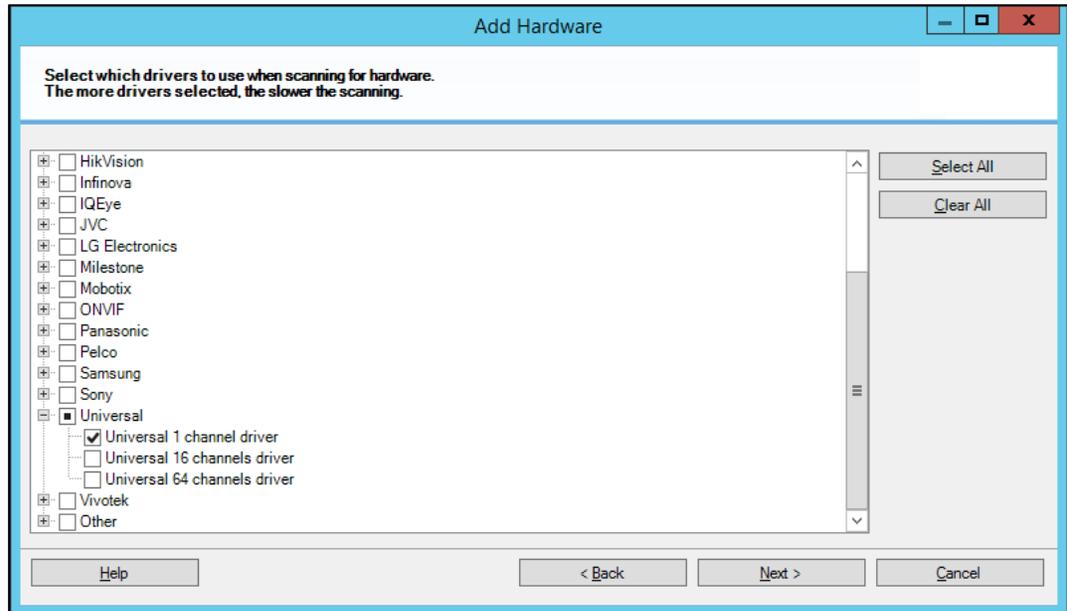
7. In the Add Hardware Wizard, select "Manual", then click Next.



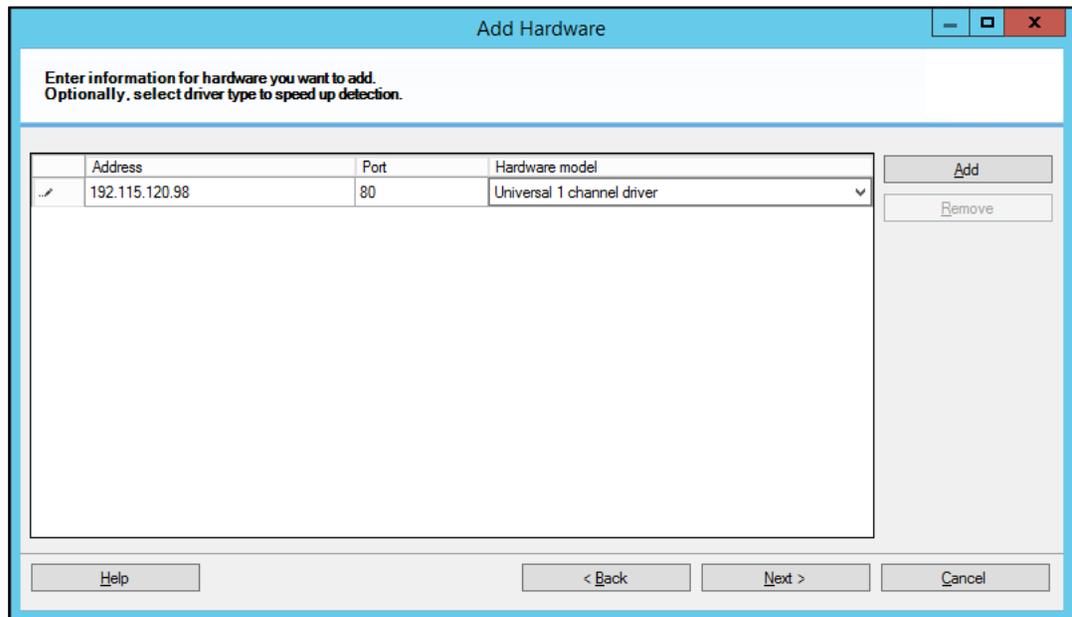
8. In the next dialog, leave the settings as they are and click Next.



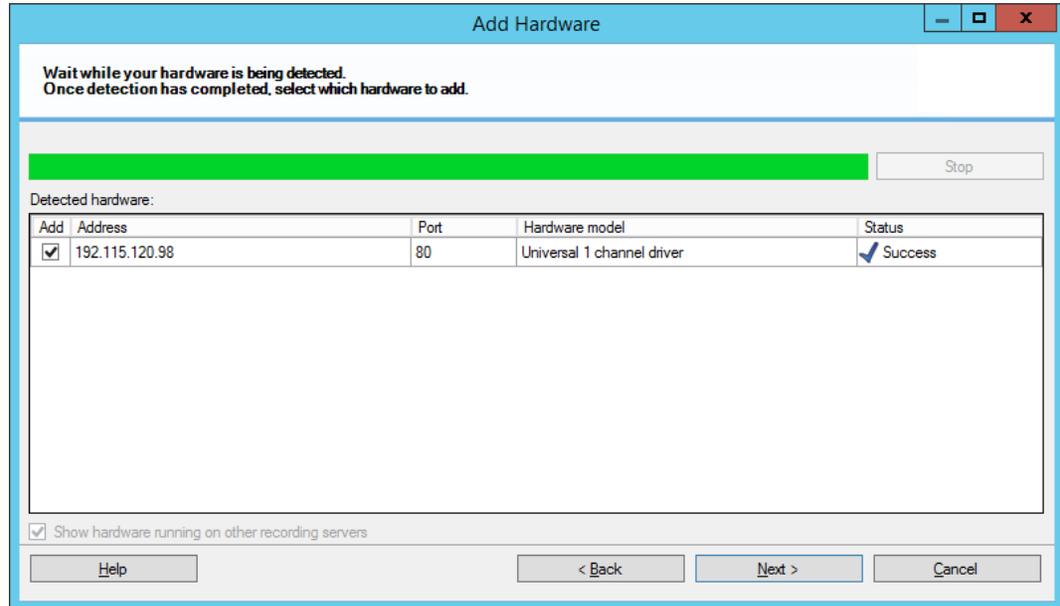
- Under Universal, check the Universal 1 box, then click Next.



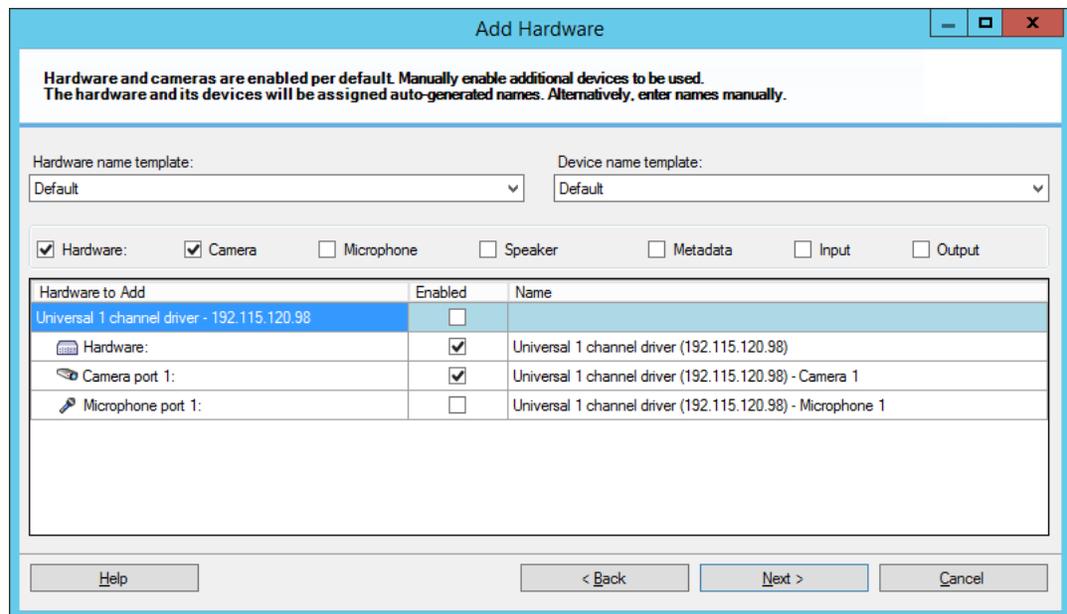
- Enter the camera's IP address and device port (80), and select the "Universal 1 channel driver" (do not use Auto-detect) from the "Hardware model" dropdown. Click Add, then click Next.



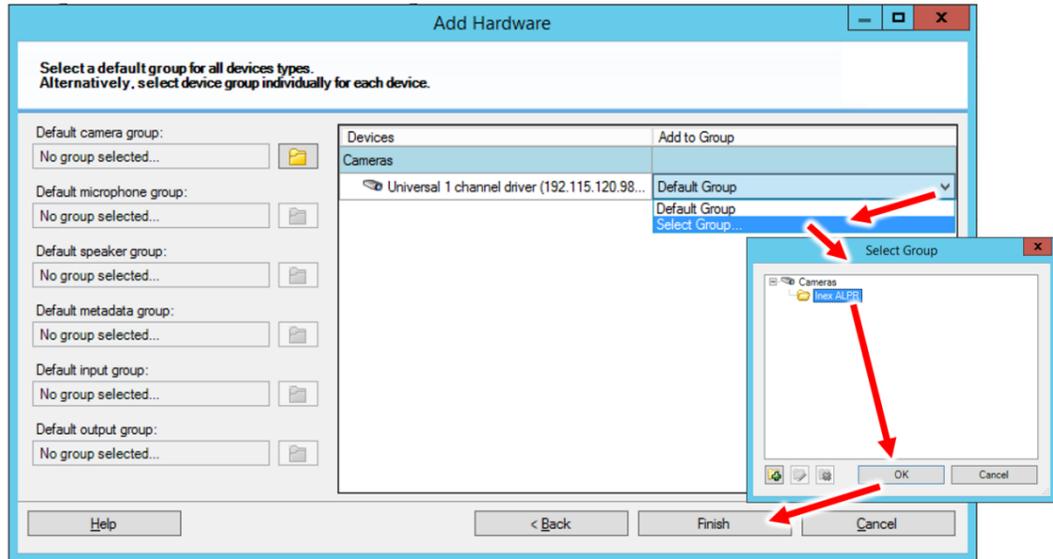
- The hardware will be added (as shown by the progress bar). When the status shows Success, click Next (you may have to click **twice** to go to the next dialog).



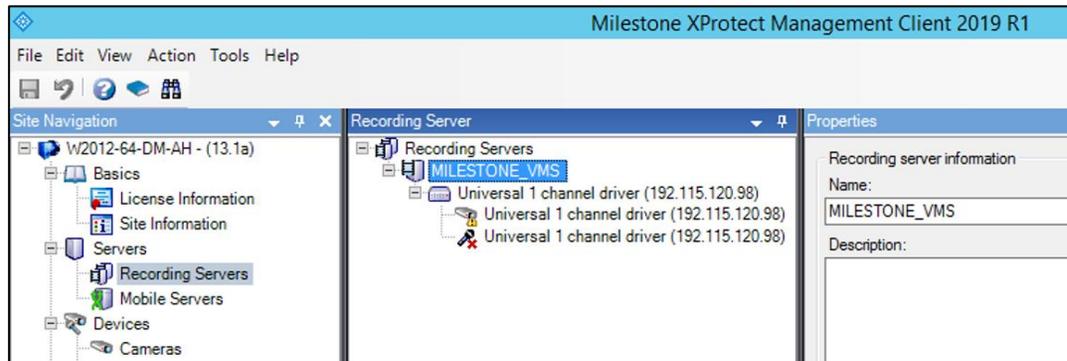
- The next dialog will show the result of the hardware addition. Click Next.



13. The last dialog enables you to select the hardware device's group.
 - a. From the "Add to Group" dropdown, select "Select Group".
 - b. In the Select Group popup, select Inex ALPR, and click OK.
 - c. Back in the Add Hardware wizard, click Finish



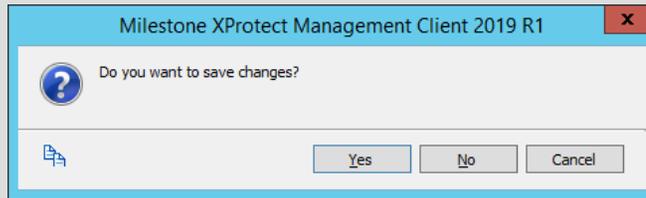
14. After the wizard is finished, you will be returned to the Management Client Application screen. You should see that a new device has been added to the Recording Servers node, starting with the name "Universal 1 Channel Driver":



- 15. Change the camera's name to exactly match the Lane Name assigned in IZLaneManager and viewed via IZCentral (see Section 6.2.1 on page 6 and Section 7 on page 9). You can do this either from the Recording Servers node, or from the Devices > Cameras node. Be sure that the Info button is pressed (located below the right-hand parameters pane). You can also add a description:

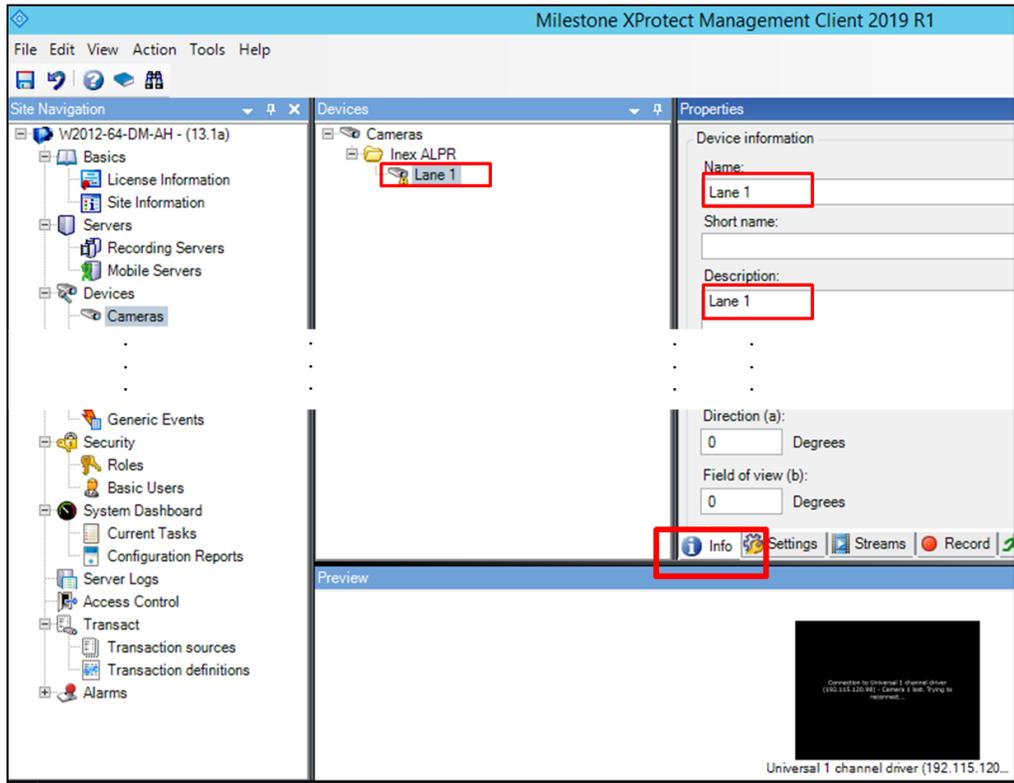
IMPORTANT

After every parameter change, you must click on a different node in the Site Navigation tree (left-hand pane) to bring up the change verification dialog. Click Yes to save your changes:



If you change the camera's Lane Name in IZLaneManager, you must:

- Change to the same Lane Name in the XProtect Management Client Application
- Restart the ZAPCentral service on the IZCentral machine
- Close and reopen the Milestone Smart Client (to update the display and dropdowns) - see Section 10 on page 21.

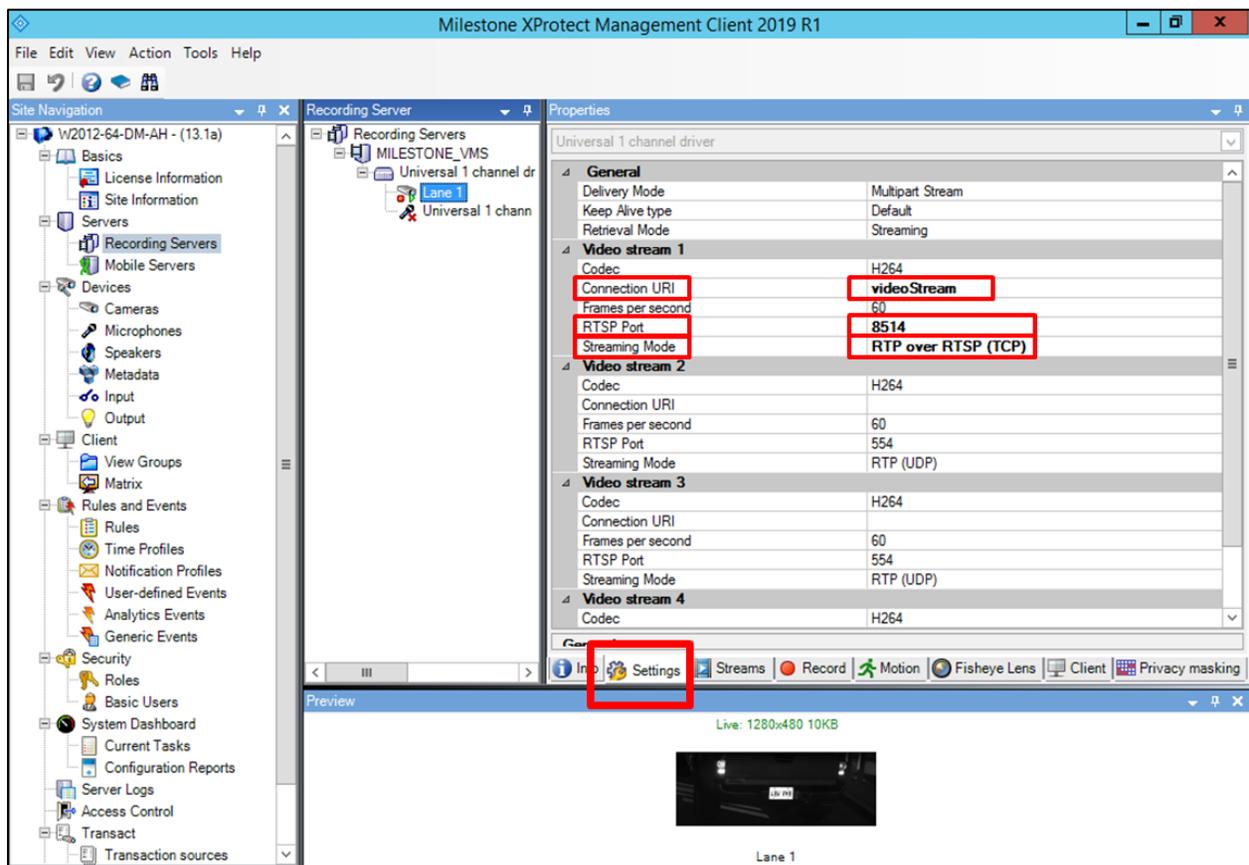


16. Change the camera's parameters (in bold in the illustration). Note that the parameter settings will depend on your camera's type – see your camera's User Guide.

You should match the parameter values you set in IZLaneManager (see Section 7 on page 9). You can do this either from the Devices > Cameras node or the Recording Servers node. Be sure that the Settings button is pressed (located below the right-hand parameters pane). **Remember to click on a different node in one of the trees in the left-hand panes to bring up the change verification dialog.**

The parameter mapping is:

- IZLaneManager (for the stream you want to display in the Milestone Smart Client – LPR or Overview): Event Builder > LPR/View Camera > "RTSP Port" = Management Client "RTSP Port"
- IZLaneManager: Event Builder > LPR/View Camera > "RTSP Stream Name" = Management Client "Connection URI"
- Set Management Client "Streaming Mode" = RTP over RTSP (TCP)"



17. After saving the settings, you should see (after several seconds):

- A green arrowhead under the camera icon in front of the lens. (The additional red dot indicates recording, which is not relevant for our application.)



- A thumbnail of the streaming video in the Preview pane at the bottom of the display



10 Using the XProtect Smart Client

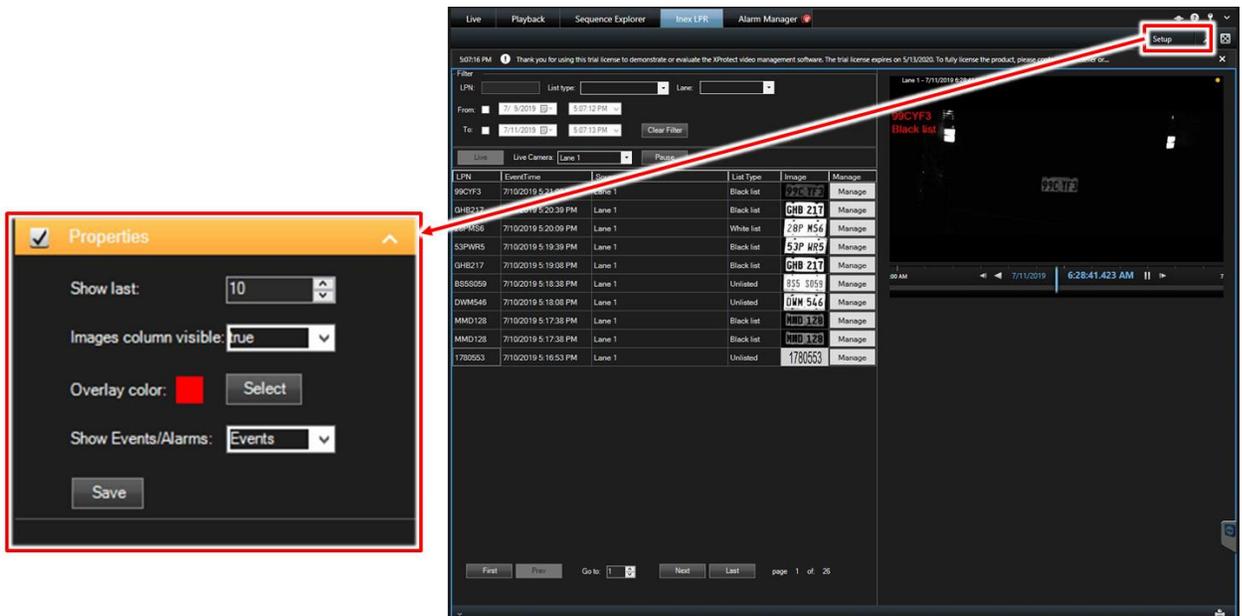
10.1 Configuring the "Show Events/Alarms" Setup and Other Settings on the Live and Inex LPR Tabs

IMPORTANT

The IZCentral "Send ALPR as Event or Alarm" setting (see Section 6.3 on page 7) must match the "Show Events/Alarms" settings in the Milestone Smart Client. This parameter must be set on **both** the Live and Inex LPR tabs - by clicking the Setup button at the upper right of the display.

10.1.1 Inex LPR Tab: Setup > Properties

Click the Setup button (upper right) to display the Setup panel (at the left). Click the button again to close the panel.



You can configure the following parameters in the Setup's Properties section:

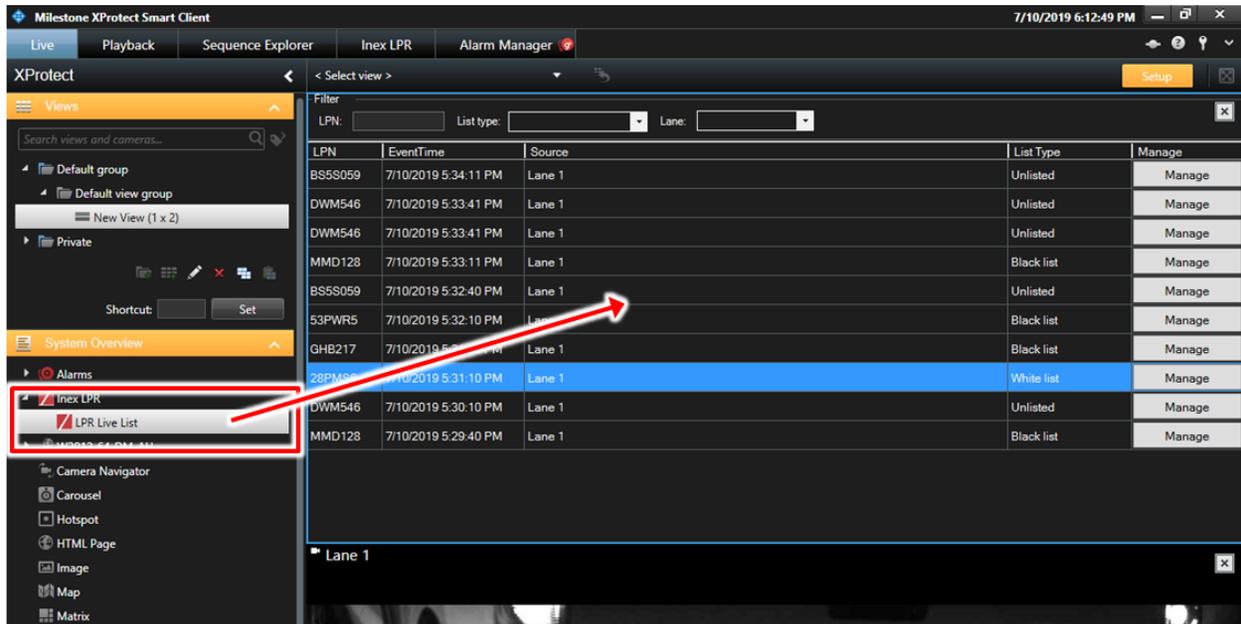
- Show last – page size of the grid
- Images column visible – enable/disable the plate image column in the grid
- Overlay color – color of the overlay in the live stream (license plate and list type)
- Show Events/Alarms – type of item to display in grid – must match the IZCentral "Send ALPR as Event or Alarm" setting

10.1.2 Live Tab: Setup > Properties

The Setup Properties section on the Live tab works the same way as on the Inex LPR tab (see Section 10.1.1 on page 21). (Scroll the pane down to see the section.) The "Show Events/Alarms" parameter must match the IZCentral "Send ALPR as Event or Alarm" setting.

10.1.3 Live Tab: Setup > System Overview > Inex LPR > LPR Live List (Displaying the LPR Data)

If you do not see Events/Alarms in the Live tab, drag and drop the "LPR Live List" item into a work area on the Live screen:



10.2 Using the Inex LPR Plugin

10.2.1 Viewing and Filtering Events on the Inex LPR Tab

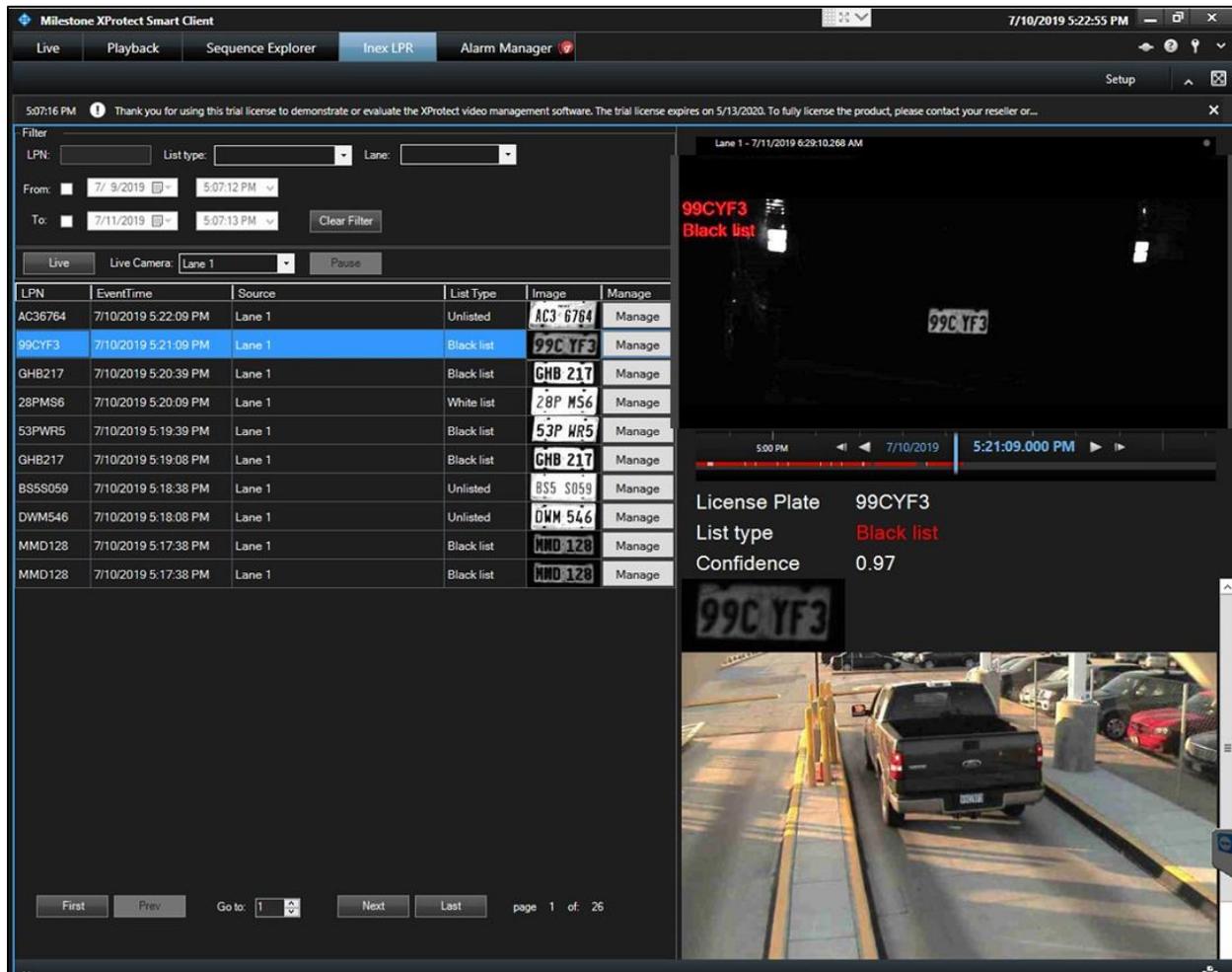
The Inex LPR tab enables you to view LPR Events, images and video (see the following illustration).

IMPORTANT

If the "Source" column shows "Management Server" instead of a Lane Name, there is a mismatch between the Lane Name configured in the XProtect Management Client Application (see Section 9 on page 12), and the Lane Name being sent to the Smart Client (configured in IZLaneManager). Be sure that the Lane Names match.

If you change the camera's Lane Name in IZLaneManager, you must:

- Change to the same Lane Name in the XProtect Management Client Application
- Restart the ZAPCentral service on the IZCentral machine
- Close and reopen the Milestone Smart Client (to update the display and dropdowns) - see Section 10 on page 21.

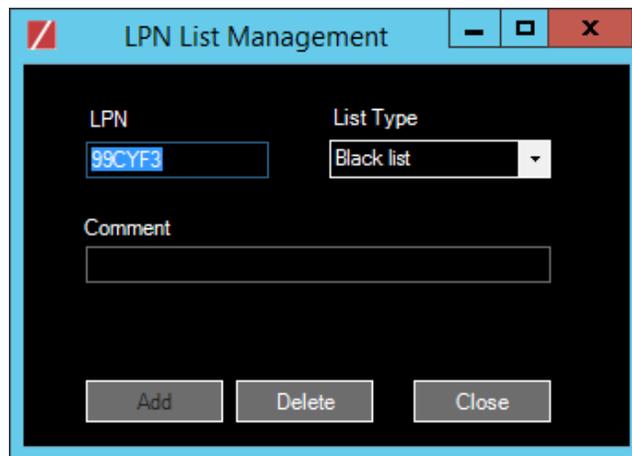


- You can sort the Event list ascending or descending by clicking on a column header
- Use the Live Camera dropdown to display the desired camera in the real time video (appearing at the upper right of the screen)
- Click Live to show live video and Events in real time
- If there are many Events, you can use the page selection controls at the bottom to find the page you need.
- Click Pause (or select and Event) to stop live updates of the Event list (Events are still being recorded and stored). The live video slider is moved to the time the Event occurred.
- The filter section at the top of the window enables you to filter the Event list (only when the list is Paused). Press the Clear Filter button to clear the filter criteria. The criteria are:

- LPN – enter a string that appears anywhere in the license plates you want to filter on
- List type – Black, White, Unlisted (also called Grey in IZCentral) and Not Read
- Lane – select a Lane
- From/To – date/time range filter; be sure to check the box(es) in front of the date/time(s) you want to filter on

10.2.2 Editing IZCentral Black/White Lists via XProtect

Click the Manage button on the Event row with the license plate of interest. A popup appears:



- List Type – the IZCentral list you want to add to/delete from
- Comment – a string to add to the list entry for the license plate (for example, "stolen car"); it corresponds to the Description in the Manage Lists tab in IZCentral.
- Add – adds the license plate to the IZCentral List Type chosen in the dropdown; the addition is made directly to the list in IZCentral.
 - A confirmation message appears, and the Delete button becomes active
 - An error message appears if the plate is already in the list, and the Delete button becomes active
- Delete – deletes the plate from the IZCentral List Type chosen in the dropdown; a confirmation message appears

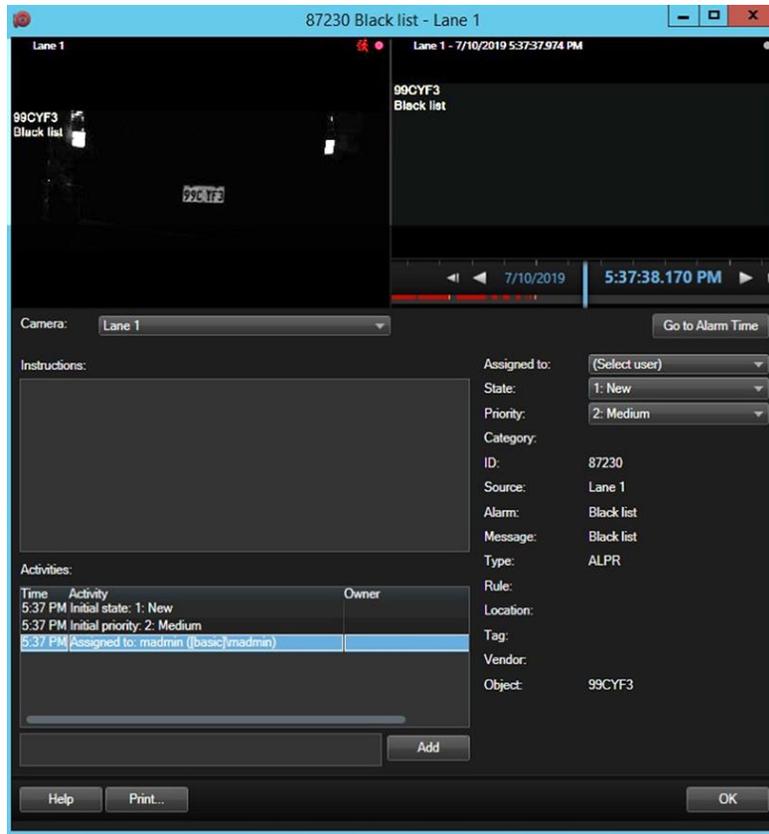
10.3 Inex LPR and Milestone XProtect Alarm Manager

10.3.1 Viewing Alarms (IZCentral LPR Events Sent as Alarms)

If you have configured IZCentral to send LPR Events as Milestone Alarms (see Section 6.3 on page 7), you will see ALPR Alarms in the Alarm Management tab:

Priority	Level	Time	State Level	State Name	Message	Source	ID	Owner
2	New	5:39:20 PM 7/10/2019	1	New	White list	Lane 1	87238	admin ([basic]admin)
2	New	5:39:11 PM 7/10/2019	1	New	Unlisted	Lane 1	87237	admin ([basic]admin)
2	New	5:38:50 PM 7/10/2019	1	New	Black list	Lane 1	87236	admin ([basic]admin)
2	New	5:38:41 PM 7/10/2019	1	New	Unlisted	Lane 1	87235	admin ([basic]admin)
2	New	5:38:20 PM 7/10/2019	1	New	Black list	Lane 1	87234	admin ([basic]admin)
2	New	5:38:11 PM 7/10/2019	1	New	Unlisted	Lane 1	87233	admin ([basic]admin)
2	New	5:37:50 PM 7/10/2019	1	New	White list	Lane 1	87232	admin ([basic]admin)
2	New	5:37:50 PM 7/10/2019	1	New	White list	Lane 1	87231	admin ([basic]admin)
2	New	5:37:41 PM 7/10/2019	1	New	Black list	Lane 1	87230	admin ([basic]admin)
2	New	5:37:20 PM 7/10/2019	1	New	Unlisted	Lane 1	87229	admin ([basic]admin)
2	New	5:37:11 PM 7/10/2019	1	New	Black list	Lane 1	87228	admin ([basic]admin)
2	New	5:35:41 PM 7/10/2019	1	New	Unlisted	Lane 1	87227	admin ([basic]admin)
2	New	5:35:11 PM 7/10/2019	1	New	Black list	Lane 1	87226	admin ([basic]admin)
2	New	5:34:41 PM 7/10/2019	1	New	Black list	Lane 1	87225	admin ([basic]admin)
2	New	1:05:54 PM 6/28/2019	1	New	White list	Managem	80752	admin ([basic]admin)
2	New	1:05:34 PM 6/28/2019	1	New	Black list	Managem	80751	admin ([basic]admin)
2	New	1:05:14 PM 6/28/2019	1	New	Unlisted	Managem	80749	admin ([basic]admin)
2	New	1:05:14 PM 6/28/2019	1	New	Unlisted	Managem	80750	admin ([basic]admin)
2	New	1:04:33 PM 6/28/2019	1	New	Unlisted	Managem	80748	admin ([basic]admin)
2	New	1:04:13 PM 6/28/2019	1	New	Black list	Managem	80747	admin ([basic]admin)

- The upper right pane displays video, a plate image and an Event image – depending on your Milestone configuration.
- You can filter the Alarm list by clicking the arrowhead next to the "No Filter" indicator (refer to the Milestone documentation).
- Click on an Alarm to select it. The video will begin to play from the time the Alarm was received.
- Double-click on an Alarm to display details (see next illustration):



- In the Alarm details dialog:
 - The left video window is live
 - The right video window can play video of the Event, starting at the time the Alarm was received. Use the video controls to move through the video (see the Milestone documentation).

11 Appendix A - Document Change History

Version	Date	Change
1.00	July 17, 2019	Initial version
1.01	Oct. 23, 2019	Changed "Versions Tested" section to "Certifications/Verifications", in order to note that INEX has received a "Milestone Verified" certificate, which confirms the compatibility of IZCentral Build 75.16.1 with Milestone XProtect 2019 R1.