

Honeywell

Honeywell Camera Driver for Milestone XProtect

1.0.15.0

User Guide

Revisions

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Introduction

This guide explains the usage of Honeywell Camera Driver for Milestone XProtect applications including its installation and configuration.

Please read this manual carefully before using the Driver pack for proper use.

1. This document explains how to use the camera driver pack.
2. The content in this document is subject to change depending on the Camera Driver Pack software updates and company policies and to partial changes without prior notification to users.

Target Audience

This manual is intended for security installers or operators to provide ample information and to make best use of Honeywell Camera Driver pack with Milestone XProtect.

Please refer to the official Milestone website (www.milestonesys.com) or Milestone specific documents for more information on how to install and set up the Milestone XProtect program.

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Introduction to Honeywell Camera Driver

The Honeywell Camera Driver Pack allows user to perform the following in Milestone XProtect Management Client application.

- Discover the cameras using various Hardware Detection Method
- Open the web view of cameras within the application
- Configure the camera control settings
- Use the below features in Live and playback of video

Administrators can perform the following on the Milestone XProtect Management Client

- Import camera using password protected Excel file
- Edit the camera configurations in bulk
- Open the web view of cameras within the application
- Configure the camera control settings
- Configure the Metadata search settings
- Configure License plate recognition and authorization settings to view the LPR alarms in Smart Client

Operators can perform the following on XProtect Smart Client:

- View and perform the surveillance operations on cameras
- View and search Metadata from cameras
- 360 Degree Fisheye Dewarping

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Pre-requisites

Ensure below XProtect software are already installed in the PC.

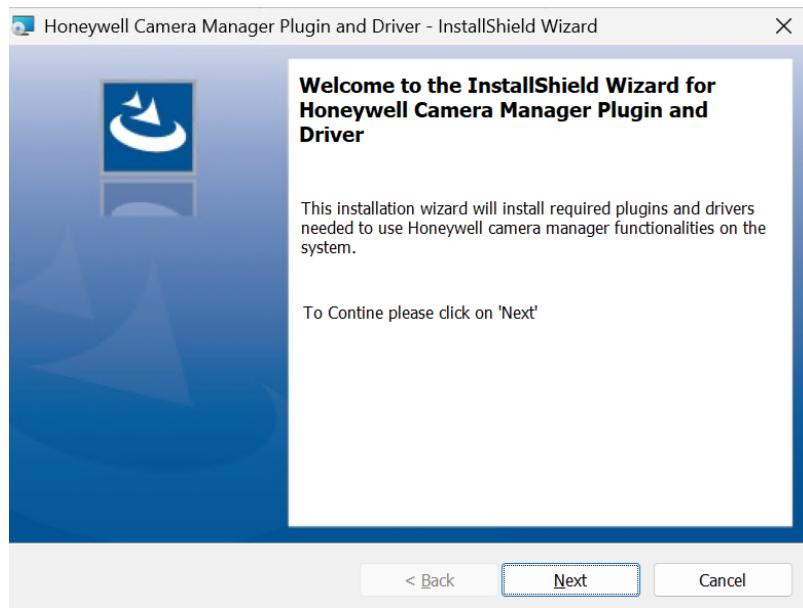
- XProtect Management Client
- XProtect Smart Client

Please refer to the official Milestone website (www.milestonesys.com) for more information on how to install and set up the Milestone XProtect program.

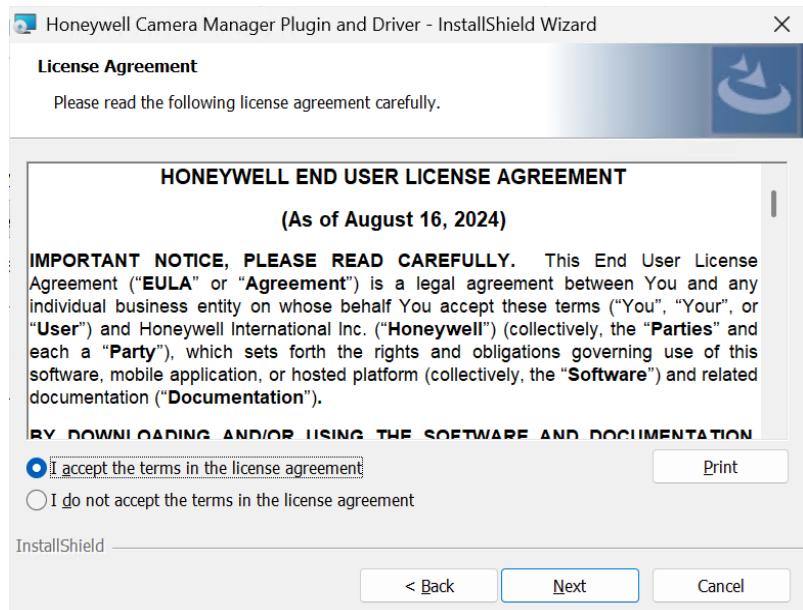
Installing Honeywell Camera Manager Plugin & Driver

To install HoneywellCameraDriver.exe on the XProtect machine, perform the below steps.

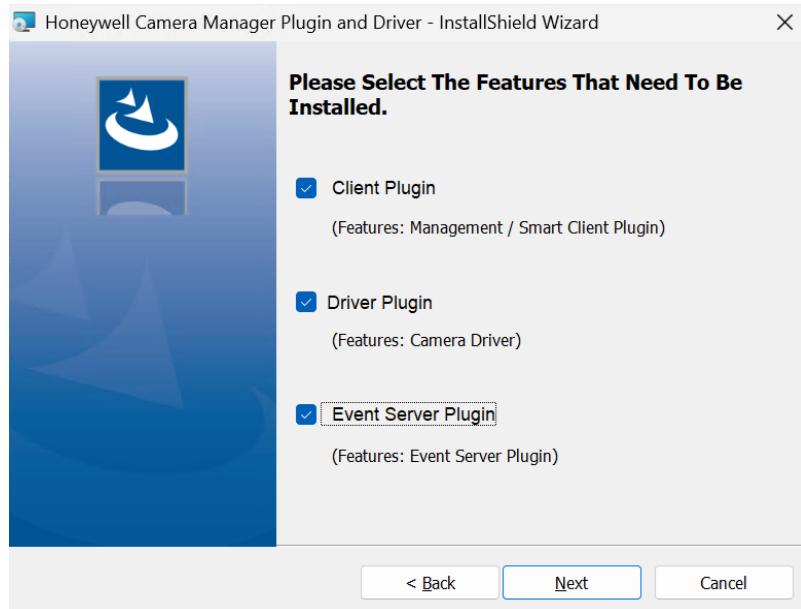
1. Right click on the HoneywellCameraDriver exe. and then choose **Run as Administrator**, the below screen is displayed.



2. Click **Next**. The **Honeywell End User License Agreement** window displays as shown below.



3. Click **I accept the terms in the License Agreement** option and then click **Next**. The **Feature** window appears as shown below.

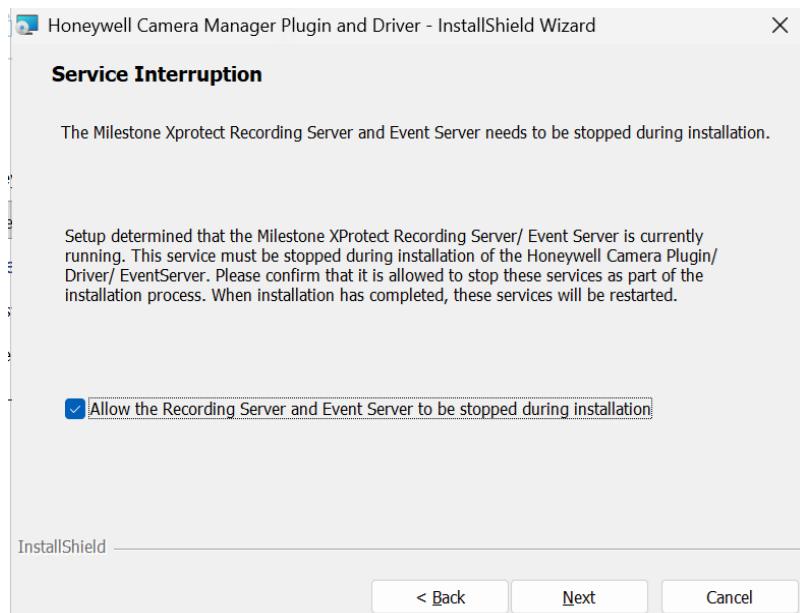


4. Select the required feature check box and then click **Next**. Based on the user selection in the feature screen the Service Interruption screen is displayed as explained below.

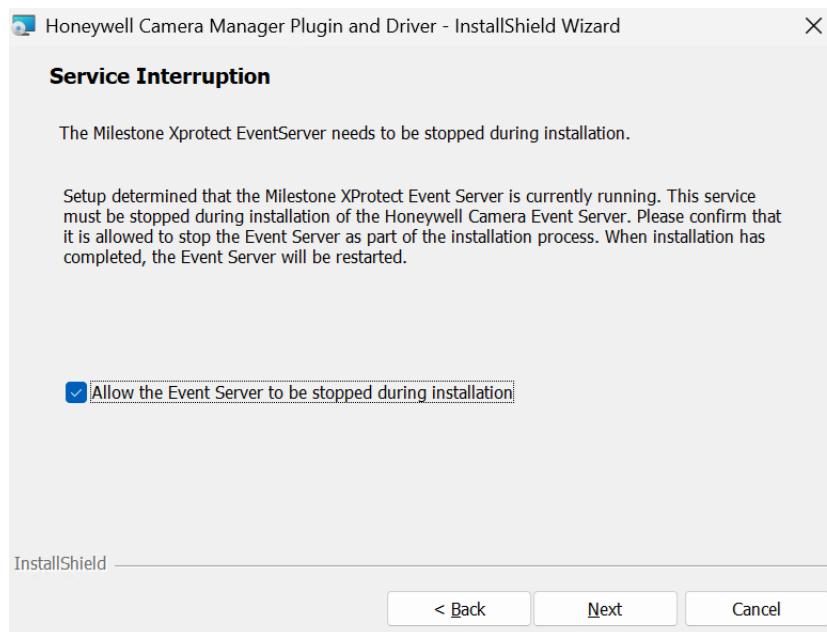
Note: If user has already installed the Plug-in software in the PC then by default the Client Plug-in check will be selected.

Ensure that Milestone XProtect Recording server and Event server is already installed in the PC, otherwise the specific feature check boxes will be disabled.

- If user selects all feature check boxes or Driver Plug-in and Event Server Plug-in check boxes then the below screen is displayed.

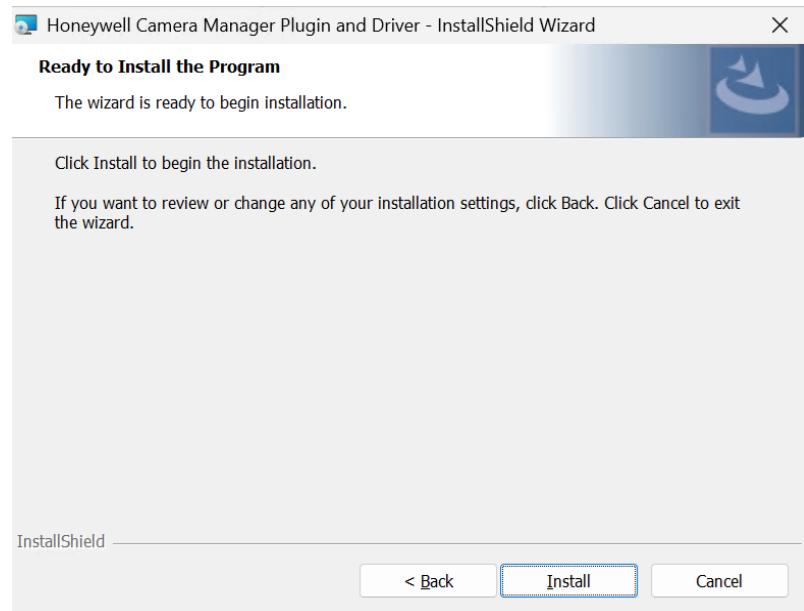


- If user selects only Client Plug-in check boxes then the below screen is displayed.

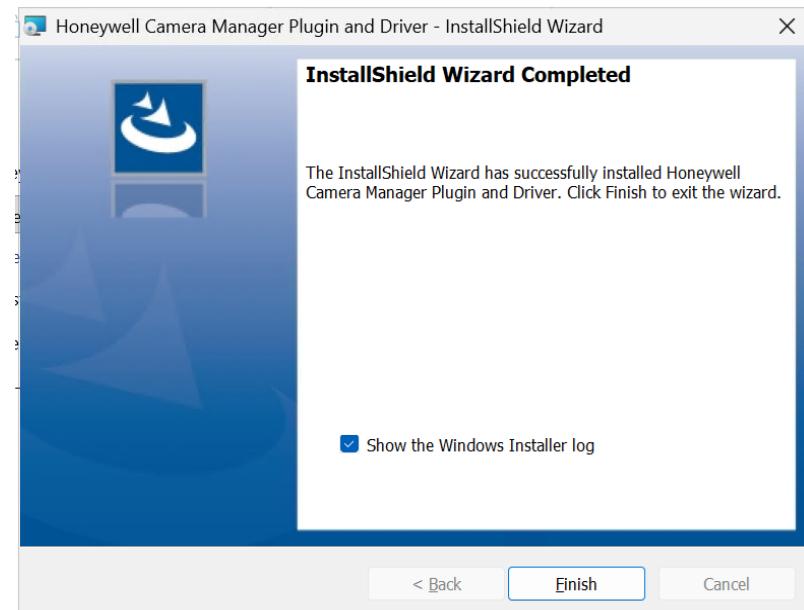


5. Select the **Allow the Recording Server to be stopped during installation** check box and then click **Next**. The ready to install screen is displayed as shown below.

Note: Since the installer will restart all the Milestone services, it is recommended to close all the XProtect Milestone application before clicking Next. A dialog box is displayed to close and retry the installation process.



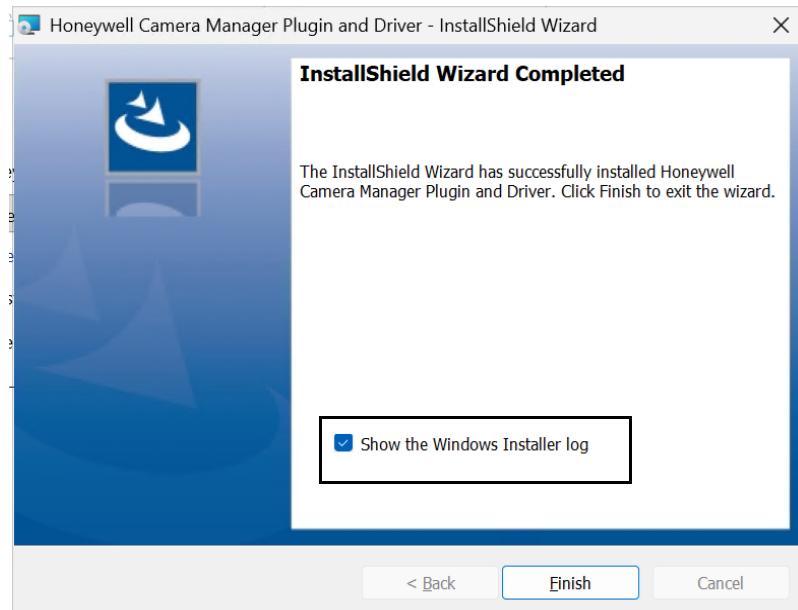
6. Click **Install**. The installation proceeds and once completed the below is screen is displayed.



7. Click **Finish**.

To View the Installation Logs

- To view the installation logs, select the Show the Windows Installer log check box and then click **Finish**.



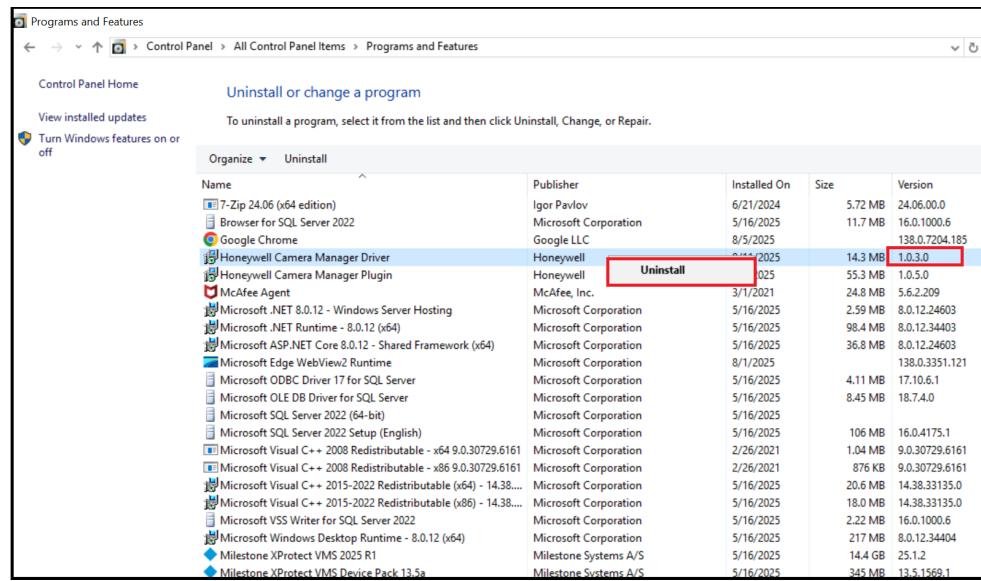
- The detailed installation log is displayed as shown below.

```
README.txt          PreRequests_To_Run.b  Batchfile_To_Start_Cap  S60_sonar.txt  HONXProtectPi  +  -  X
File   Edit   View
MSI (c) [18:21:56:235]: ***** RunEngine:
***** Product: C:\Users\ADMINI~1\AppData\Local\Temp\{476C4FEE-5015-45CF-932B-BBD0CAA0240E}\Honeywell Camera Manager Plugin and Driver.msi
***** Action:
***** CommandLine: *****
MSI (c) [18:21:56:235]: Machine policy value 'DisableUserInstalls' is 0
MSI (c) [18:21:56:235]: SOFTWARE RESTRICTION POLICY: Verifying package --> 'C:\Users\ADMINI~1\AppData\Local\Temp\{476C4FEE-5015-45CF-932B-BBD0CAA0240E}\Honeywell Camera Manager Plugin and Driver.msi' against
software restriction policy
MSI (c) [18:21:57:685]: Note: 1: 2262 2: @DigitalSignature 3: -2147287038
MSI (c) [18:21:57:685]: SOFTWARE RESTRICTION POLICY: C:\Users\ADMINI~1\AppData\Local\Temp\{476C4FEE-5015-45CF-932B-BBD0CAA0240E}\Honeywell Camera Manager Plugin and Driver.msi is not digitally signed
MSI (c) [18:21:57:685]: SOFTWARE RESTRICTION POLICY: C:\Users\ADMINI~1\AppData\Local\Temp\{476C4FEE-5015-45CF-932B-BBD0CAA0240E}\Honeywell Camera Manager Plugin and Driver.msi is permitted to run at
the 'unrestricted' authorization level.
MSI (c) [18:21:57:737]: Cloaking enabled.
MSI (c) [18:21:57:737]: Attempting to enable all disabled privileges before calling Install on Server
MSI (c) [18:21:57:743]: End dialog not enabled
MSI (c) [18:21:57:743]: End dialog package: C:\Users\ADMINI~1\AppData\Local\Temp\{476C4FEE-5015-45CF-932B-BBD0CAA0240E}\Honeywell Camera Manager Plugin and Driver.msi
MSI (c) [18:21:57:743]: Package we're running from: C:\Users\ADMINI~1\AppData\Local\Temp\{476C4FEE-5015-45CF-932B-BBD0CAA0240E}\Honeywell Camera Manager Plugin and Driver.msi
MSI (c) [18:21:57:745]: APPCOMPAT: Compatibility mode property overrides found.
MSI (c) [18:21:57:745]: APPCOMPAT: looking for appcompat database entry with ProductCode
'{74523D41-15BE-4FF3-9EEA-E1707AF359CF}'.
MSI (c) [18:21:57:746]: APPCOMPAT: no matching ProductCode found in database.
MSI (c) [18:21:57:767]: MSCOREE not loaded loading copy from system32
MSI (c) [18:21:57:771]: Machine policy value 'TransformsSecure' is 0
MSI (c) [18:21:57:771]: User policy value 'TransformsAtSource' is 0
Ln 27, Col 76 | 1,032,671 characters | Plain text | 100% | Windows (CRLF) | UTF-16 LE
```

Uninstalling Honeywell Camera Manager Plugin & Driver

To uninstall the Honeywell Camera Manager Plugin & Driver from the PC:

1. Go to Control Panel > Programs and select the Honeywell Camera Plugin & Driver applications as shown below.



2. Click **Uninstall**. Follow the on screen instructions to uninstall the driver pack.

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Discovering The Hardware

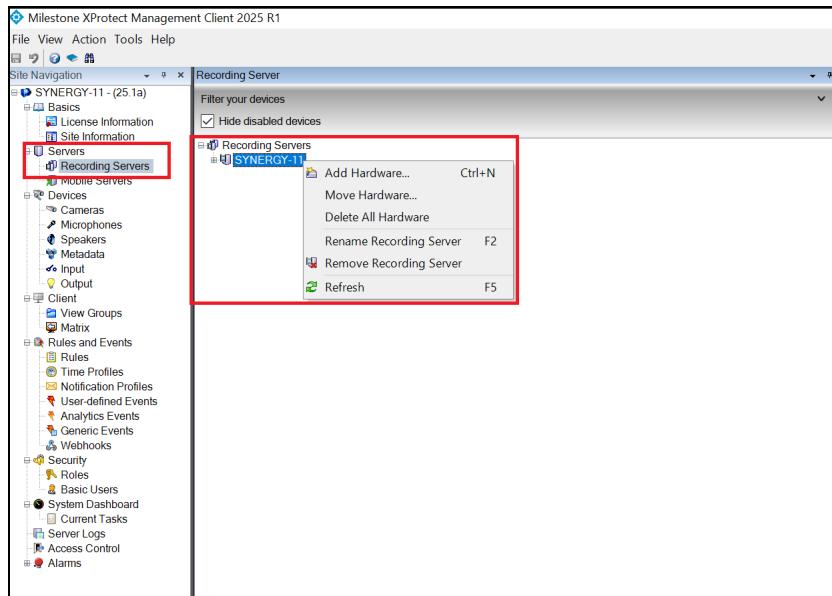
User can discover the Honeywell Cameras with the following Hardware Detection Method.

- Express (recommended)
- Address Range Scanning
- Manual

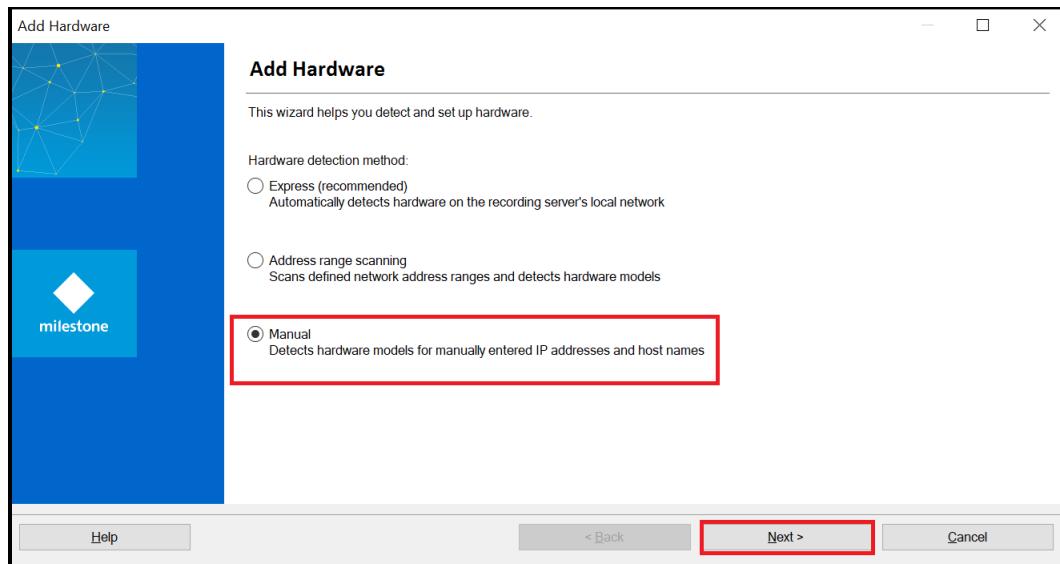
Adding Cameras Manually

To add the cameras manually, perform the below steps:

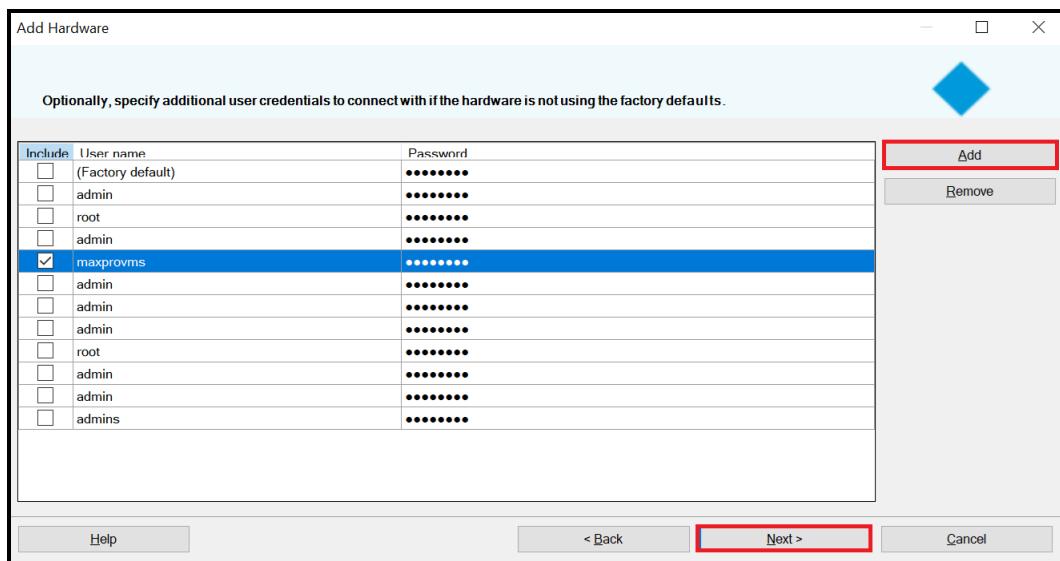
1. In Milestone XProtect Management Client, navigate to **Servers>Recording Servers** in the left pane as shown below.



2. Right click and select **Add Hardware** option, the below screen is displayed.

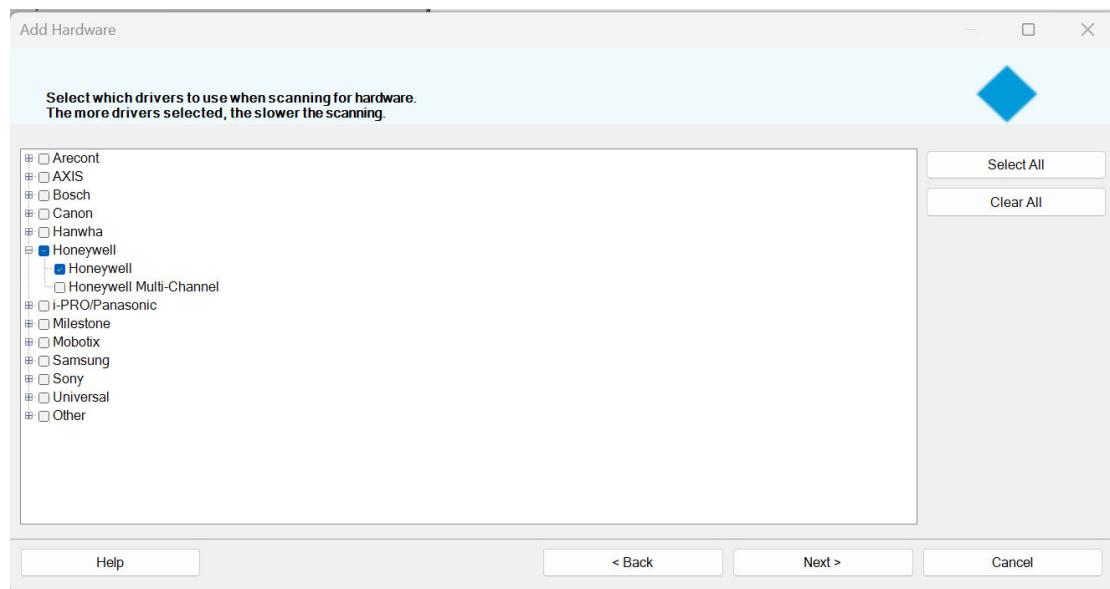


3. Click **Manual** method and then click **Next**, the below screen is displayed.



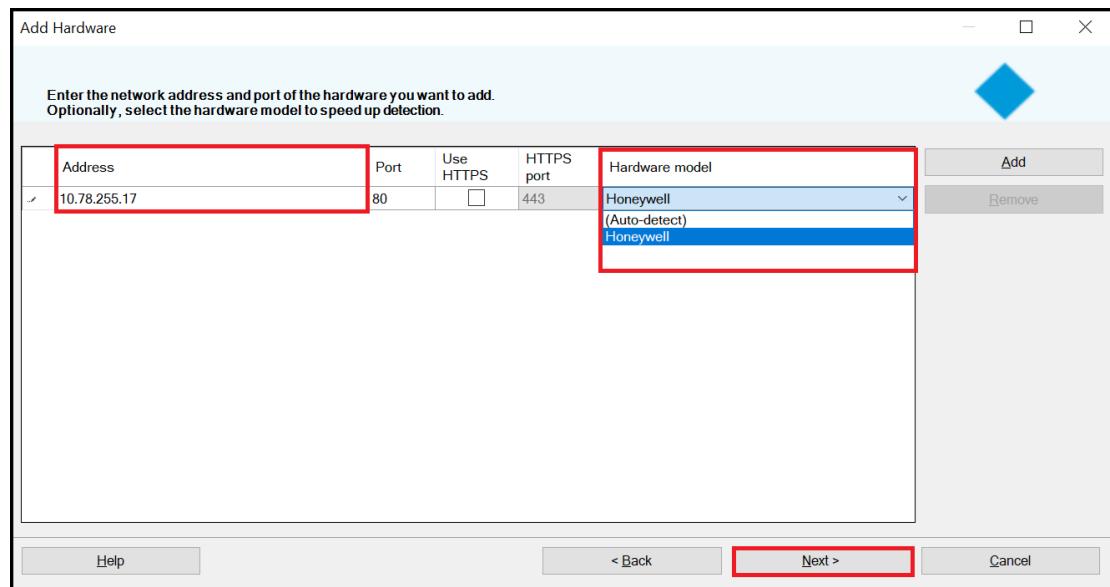
4. Click the **Add** button and then enter the required camera **Username** and **Password**.

5. Click **Next**. The Add Hardware screen is displayed.



6. Navigate to **Honeywell** node and then select the **Honeywell Driver**.

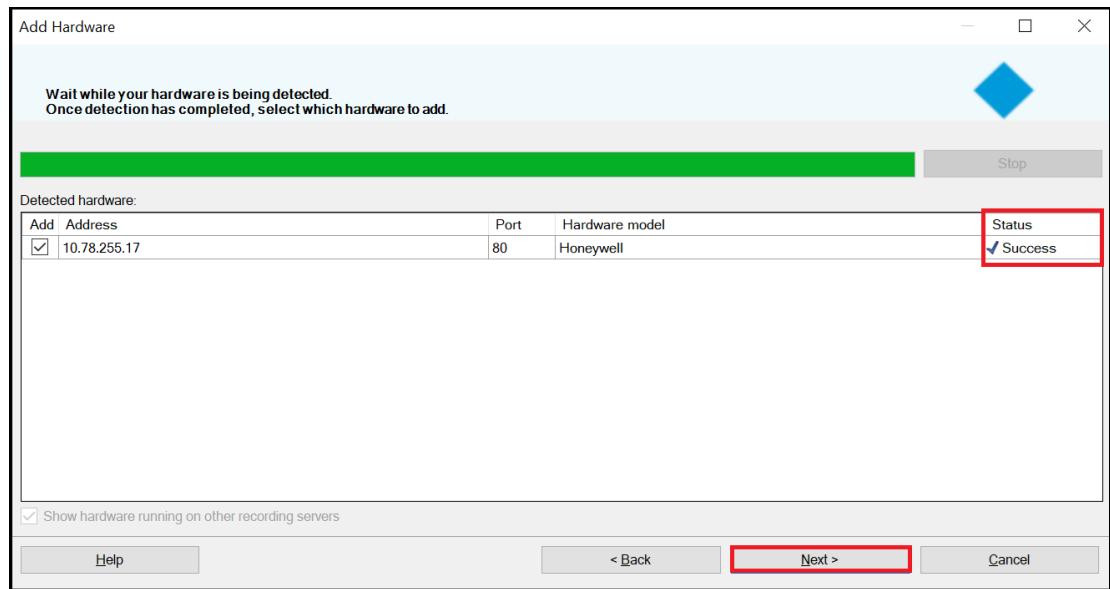
7. Click **Next**. The below screen is displayed.



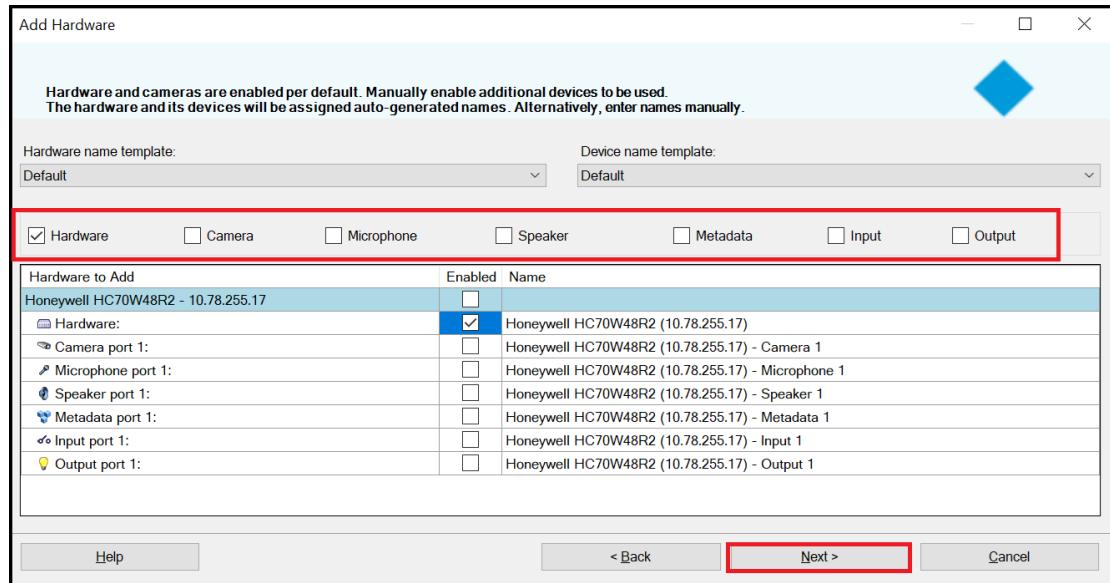
8. Under **Address**, type the **IP Address**.

9. From the Hardware Model drop-down list select **Honeywell Driver**.

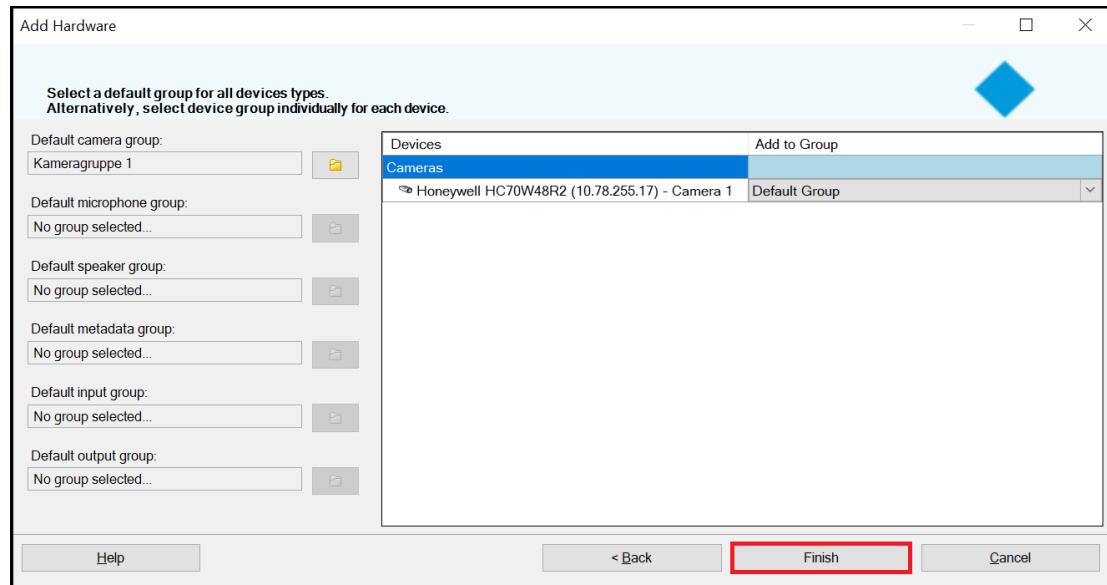
10. Click **Next**. The Hardware is detected successfully status is displayed as shown below.



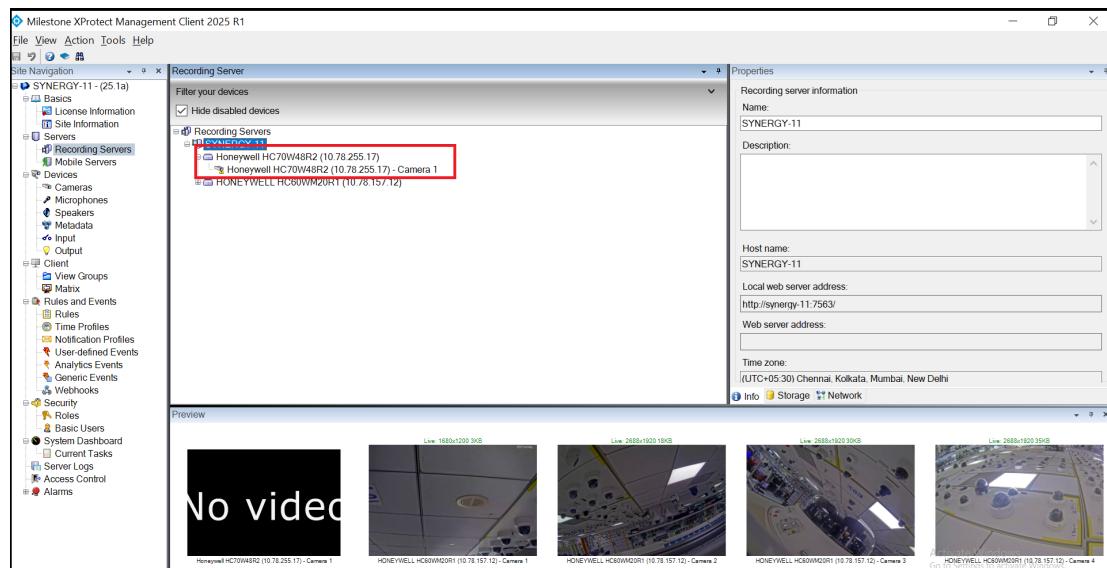
11. Click **Next**. The below screen is displayed.



12. Select the required device check boxes which needs to be added to the hardware and then click **Next**. The below screen is displayed. Or Select all to display all the devices.



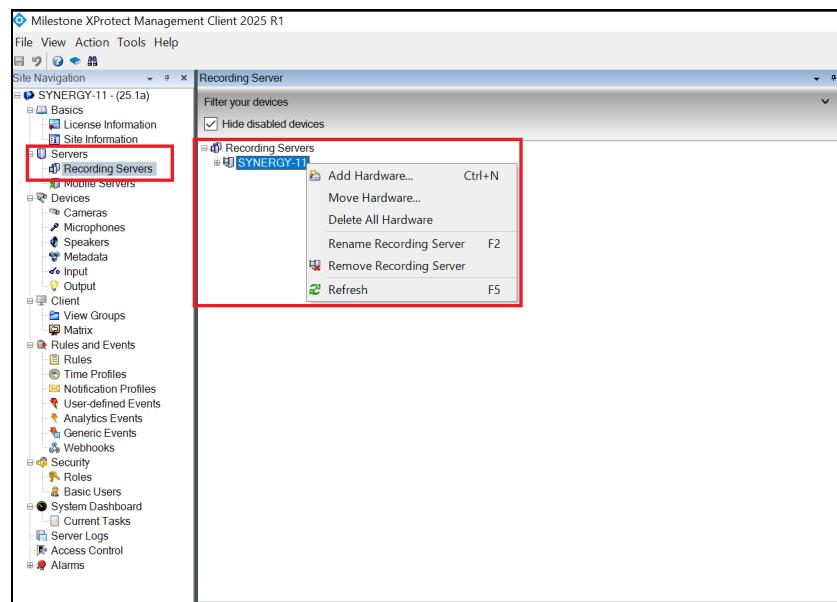
13. Select the device groups individually for each devices and then click **Finish**. The cameras are successfully added in the Recording Servers as shown below.



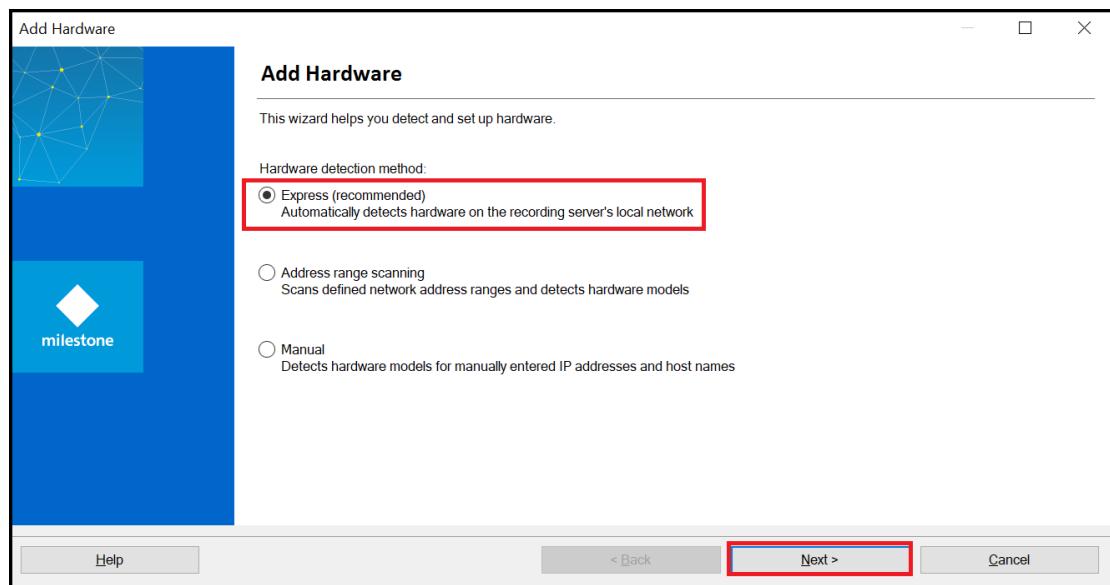
Adding Cameras Using Express Option

To add the cameras automatically using Express option, perform the below steps:

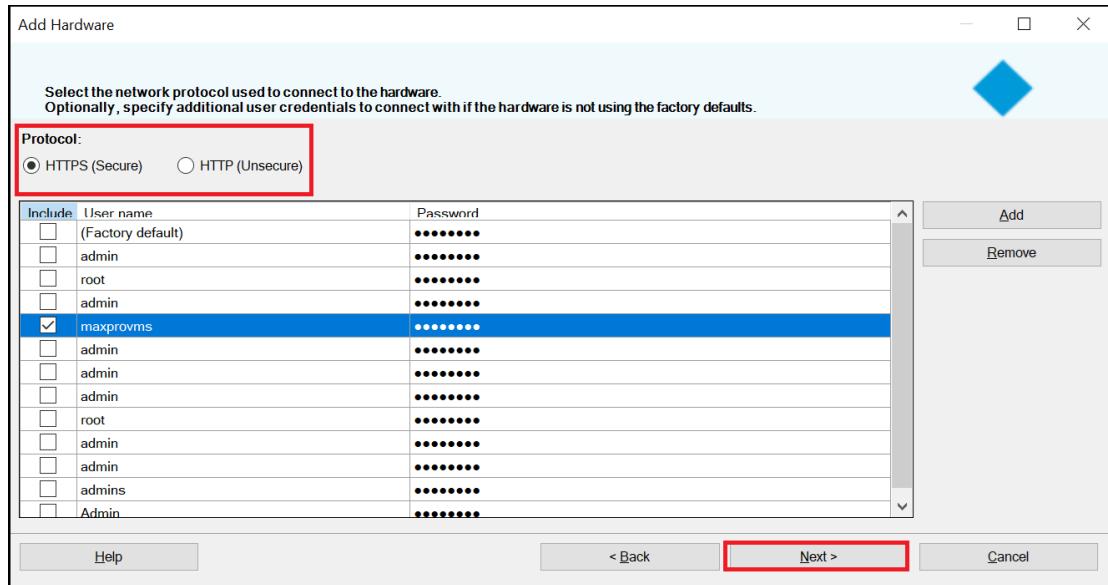
1. In Milestone XProtect Management Client, navigate to **Servers>Recording Servers** in the left pane as shown below.



2. Right click on the Recording Server and then select **Add Hardware**. The below screen is displayed.



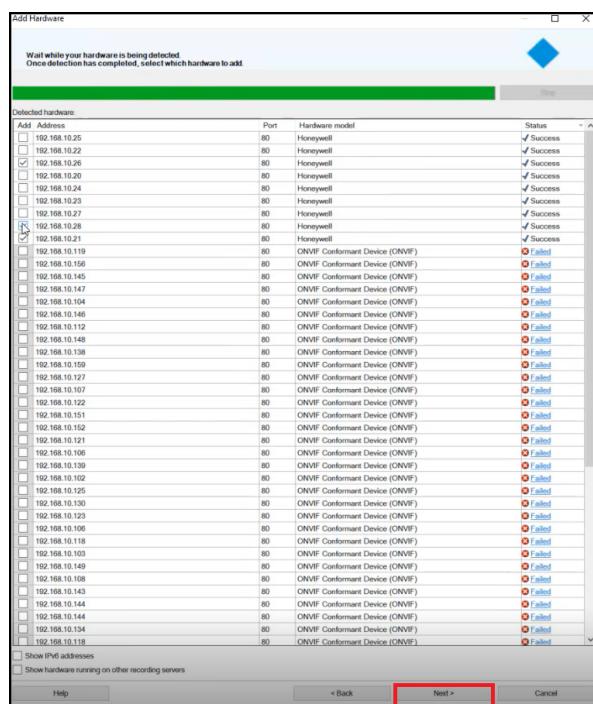
3. Click **Express (recommended)** option and then click **Next**, the below screen is displayed.



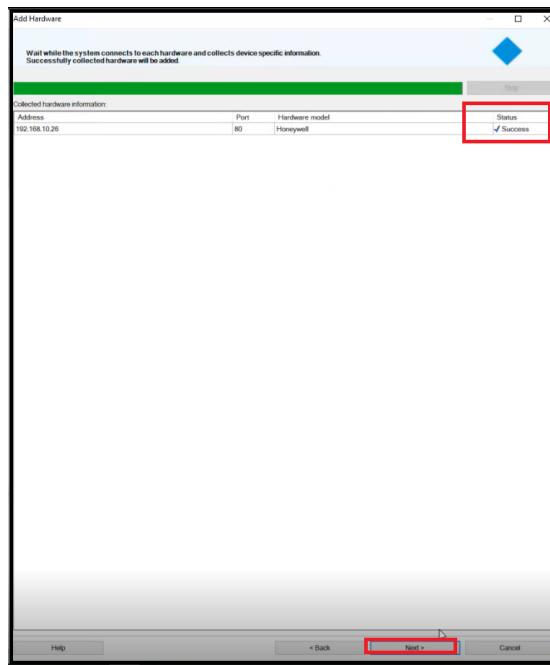
4. Select the required protocol type.

5. Click the **Add** button and then enter the **Username** and **Password**.

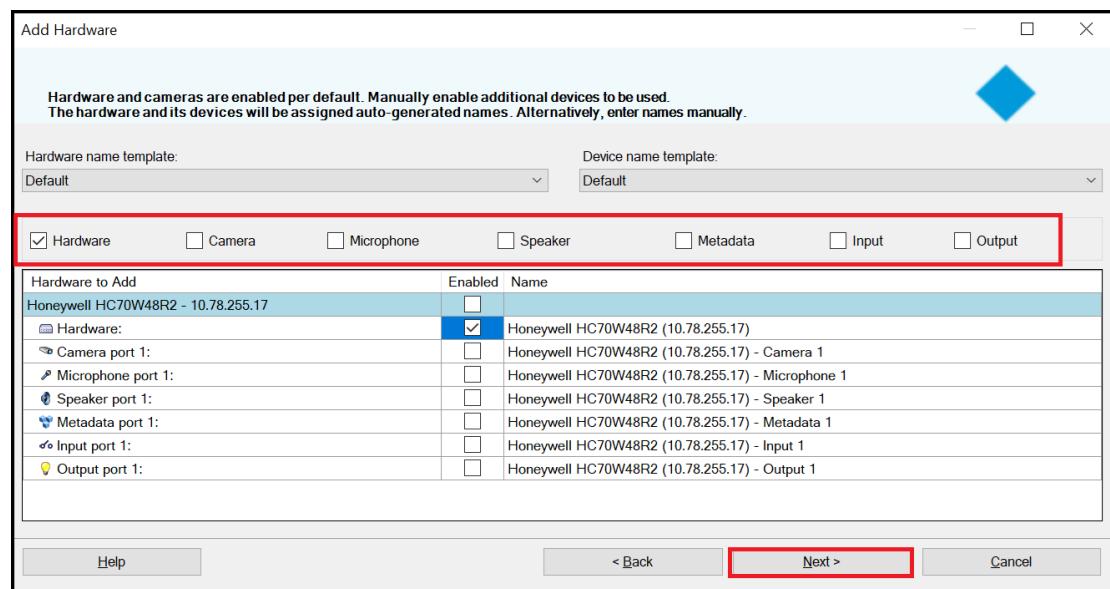
6. Click **Next**, the detection screen is displayed. Once the devices are successfully detected, the list of hardwares are displayed as shown below.



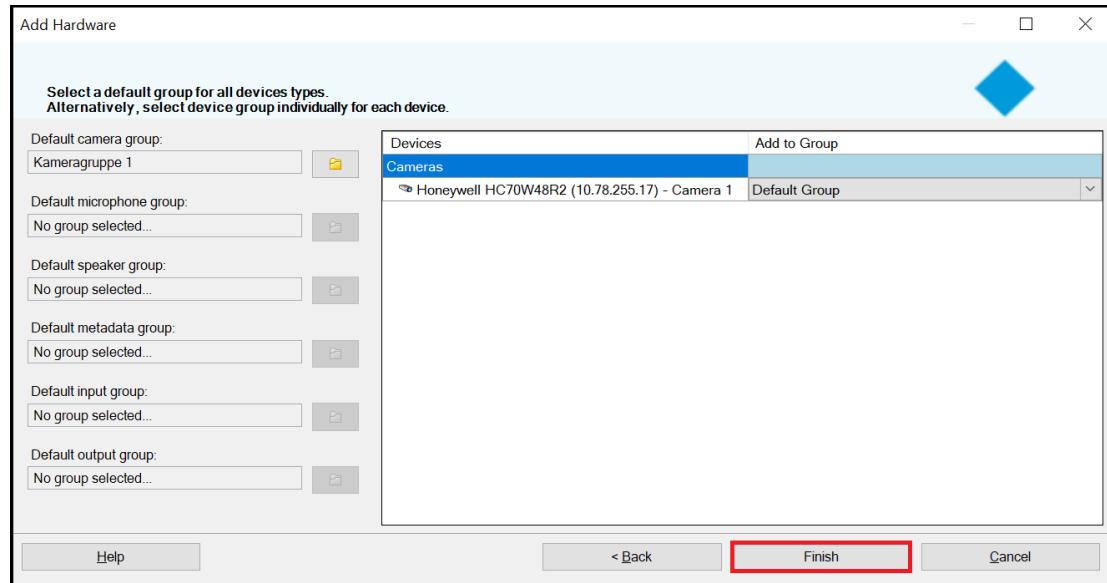
7. Select the required hardware to add and click **Next**. The below screen is displayed.



8. Click **Next**. The below screen is displayed.



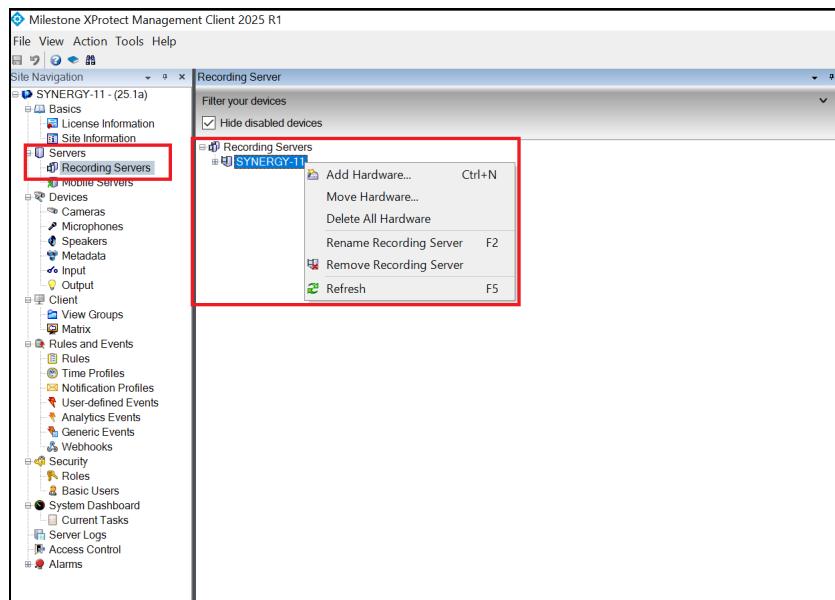
9. Select the required device check boxes which needs to be added to the hardware and then click **Next**. The below screen is displayed.



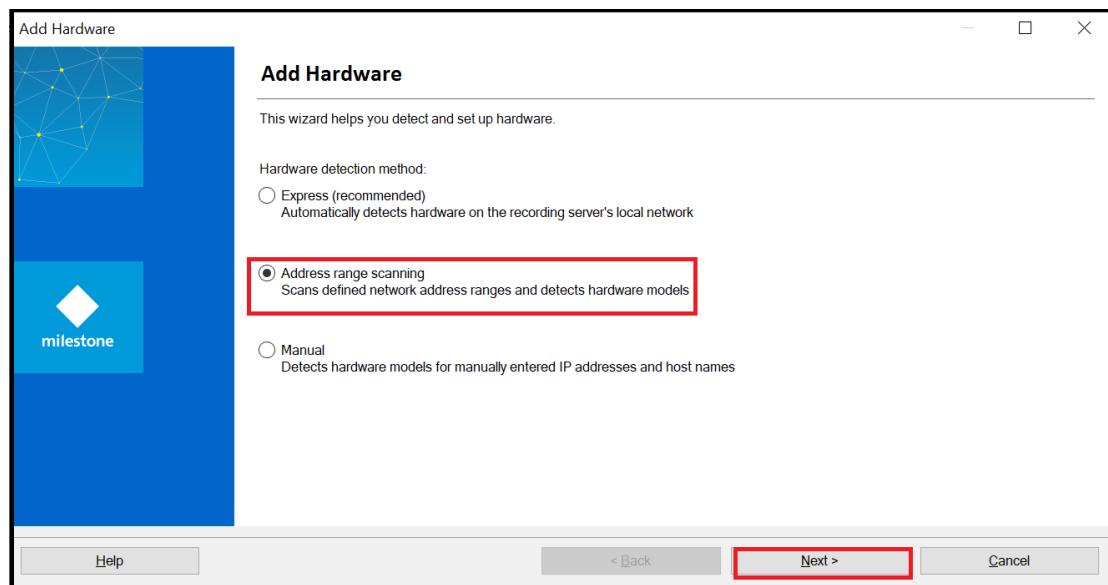
10. Select the device groups individually for each devices and then click **Finish**. The cameras are successfully added in the Recording Servers.

Adding Cameras Through Address Range Scanning

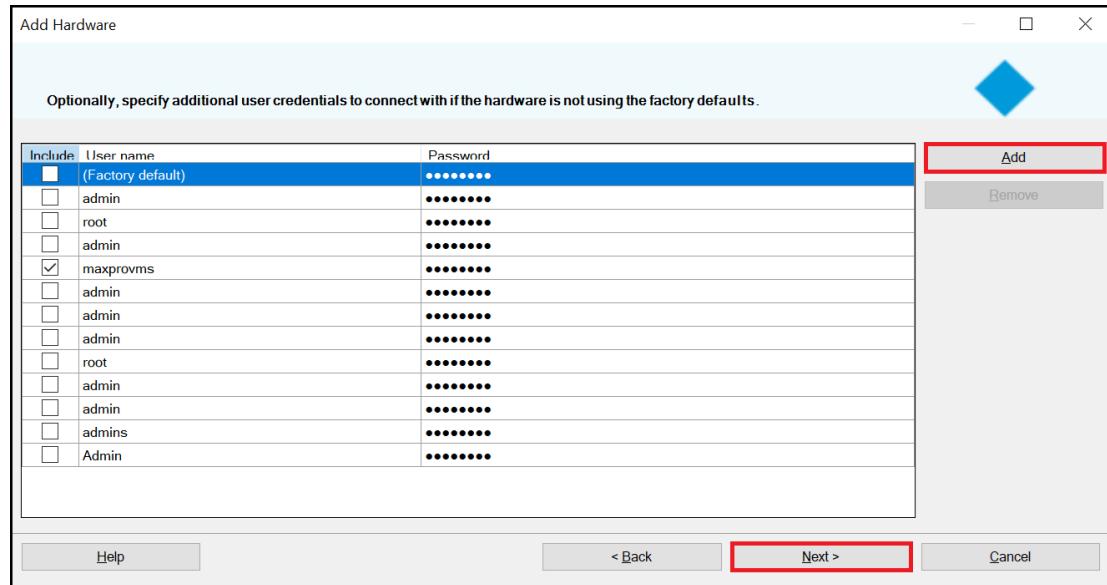
1. In Milestone XProtect Management Client, navigate to **Servers>Recording Servers** in the left pane as shown below.



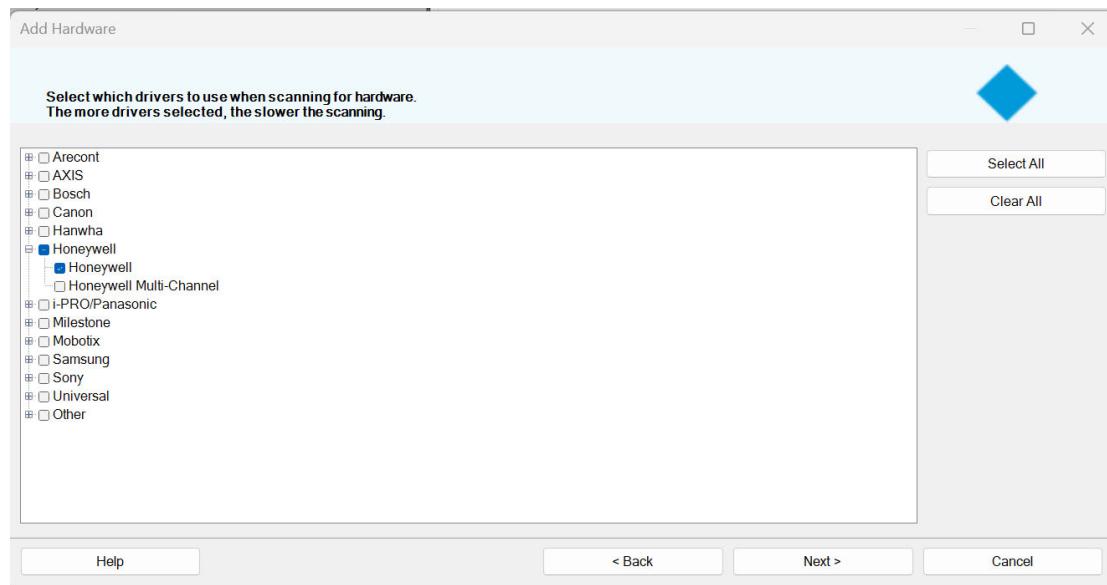
2. Click **Add Hardware**, the below screen is displayed.



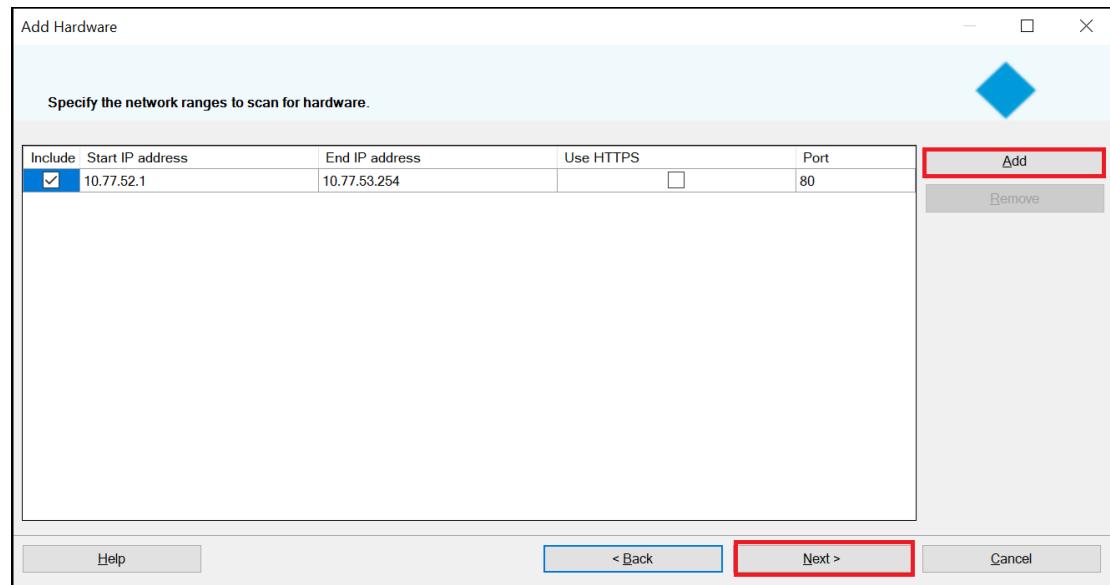
3. Select the detection range as **Address Range Scanning** and then click **Next**.
The below screen is displayed.



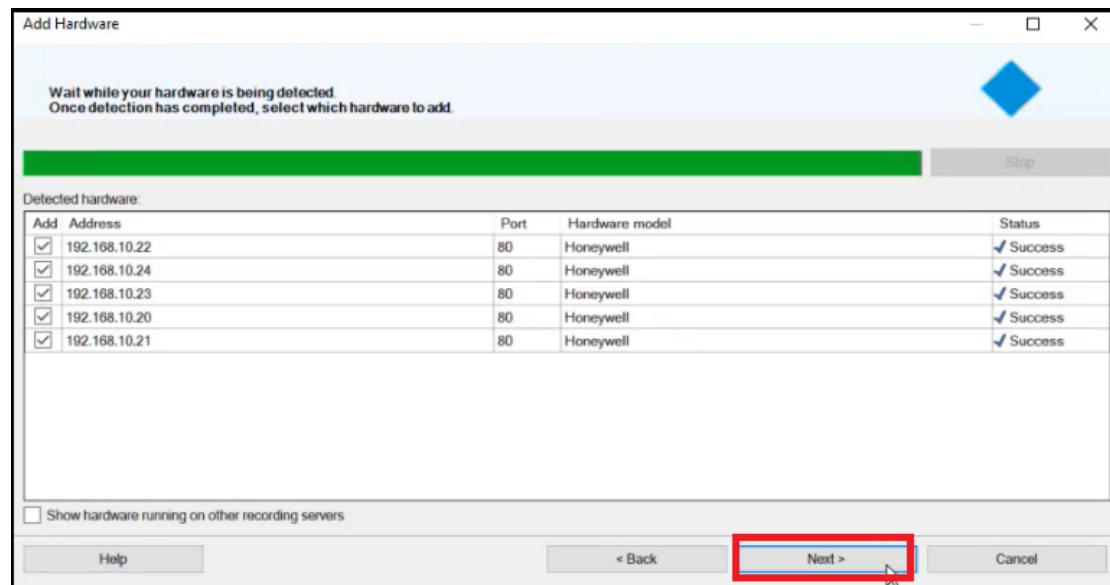
4. Click the **Add** button and then enter the **Username** and **Password**.
5. Click **Next**. The Add Hardware screen is displayed.



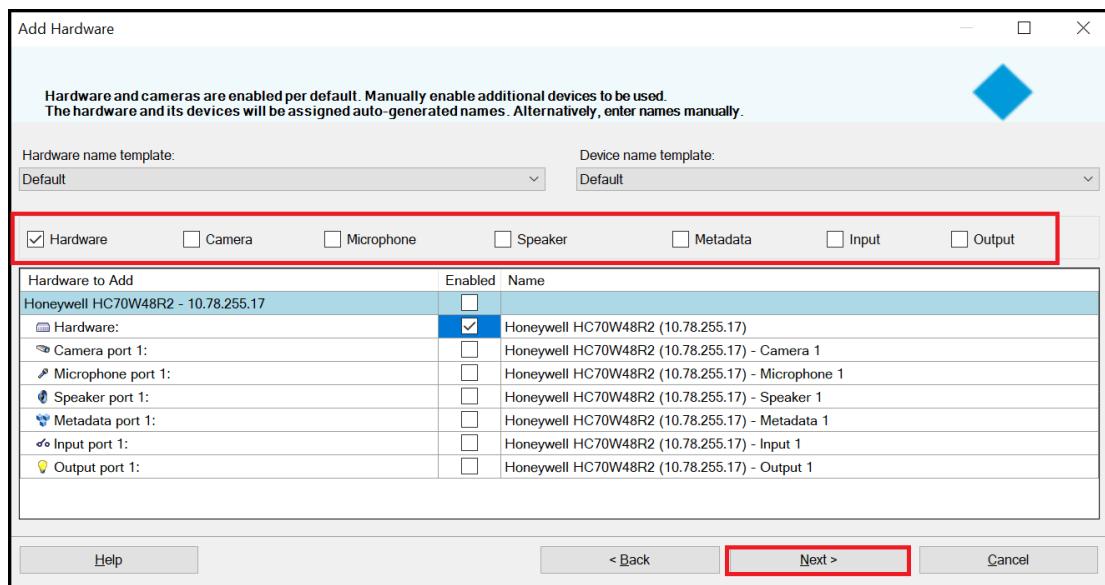
6. Navigate to **Others** and then select the **Honeywell Driver**. The below screen displays.



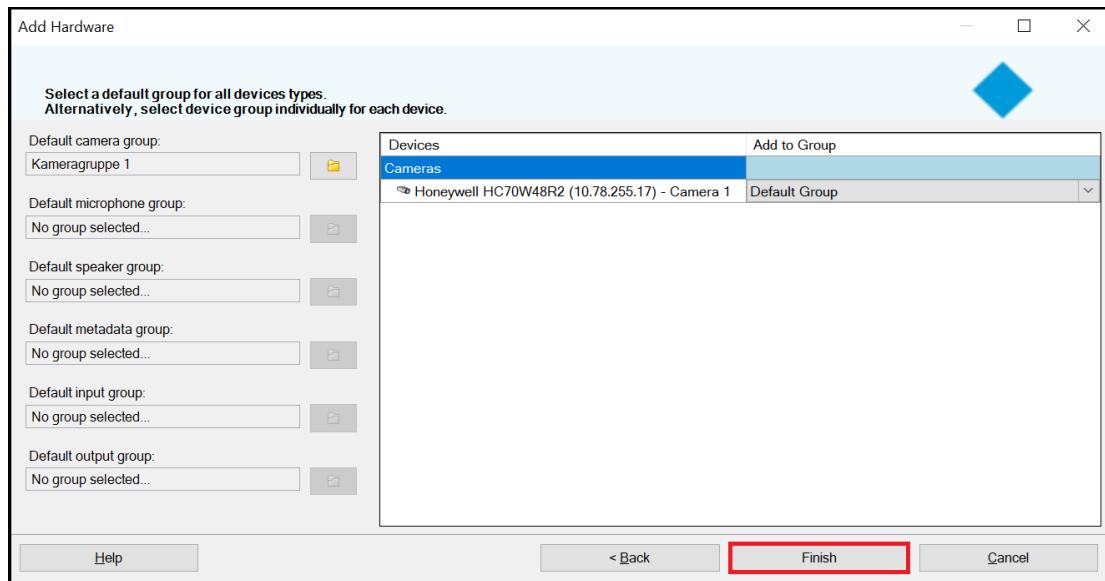
7. Select the existing IP check box or click Add to define the Range of IP Address.
8. Click **Next**. The below screen is displayed.



9. Click **Next**. The below screen is displayed.



10. Select the required device check boxes which needs to be added to the hardware and then click **Next**. The below screen is displayed.



11. Select the device groups individually for each devices and then click **Finish**. The cameras are successfully added in the Recording Servers.

Connection Status

The following table shows the connection icon and the status.

Connection	Status
	Live Streaming
	Warning
	Recording
	Motion
	Stream
	Presets
	Patrolling
	Events
	Settings
	Client

Setting Camera Properties

Following are the properties that user can set on a camera.

Setting Tab

Under settings tab user can set the below parameters.

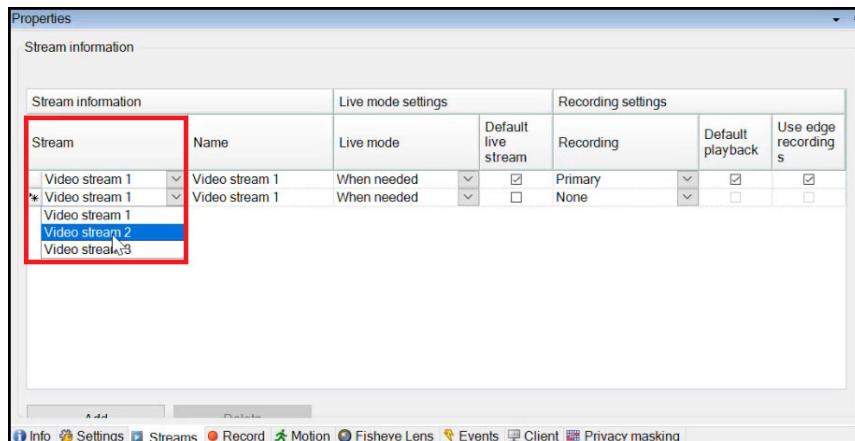
Video Stream:

Parameter	Description
Streaming Method	User can select the required protocol for the streaming. Supported options are: RTP/RTSP/TCP RTP/UDP RTP/UDP-Multicast RTP/RTSP/HTTP/TCP HTTP-Snapshot - Supported with only MJPEG Codec format
Codec	User can select the required Codec profile
Frames Per Second	No. of frames to be captured by the camera in sec for streaming the Recording Servers
Max frames between key frames	GOP can be configured through this setting
Max frames between key frames mode	Default (Determined by Driver)
Multicast Address	User can set IP address for multi casting
Resolution	User can choose the required resolution for the specific stream

Stream Information

Perform the below as explained to configure streams

- In Streams, user can configure which stream is required for the Live Video and Recording as shown in the below screen.



- Select the Default Live Stream check box to set the live stream.

- Under Recording select the Primary or Secondary stream preference.
- Select the Default Playback check box for the video stream.

Note: Primary recording configuration should have the higher resolution and higher frame rate per second when compared with Secondary configuration.

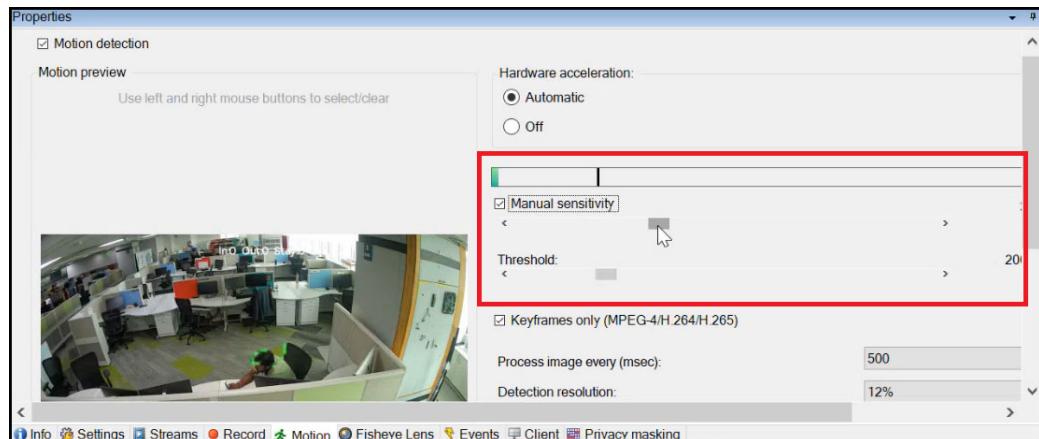
Recording

Refer to the official Milestone website (www.milestonesys.com) or Milestone specific documents for more information.

Motion

User can configure the Motion Detection settings. This tab also helps the user to understand whether the graphics card is available on the server to run the Motion Detection. Refer to the official Milestone website (www.milestonesys.com) or Milestone specific documents for more information.

- User can manually set the **Manual Sensitivity** and **Threshold Value**.
- Select the Key Frame only check box for MPEG/H.264/H.265 Codec.

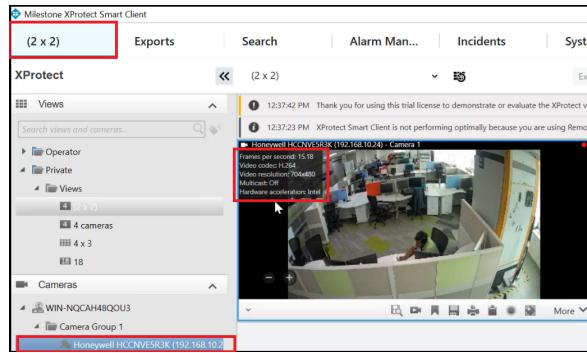


Fisheye Lens

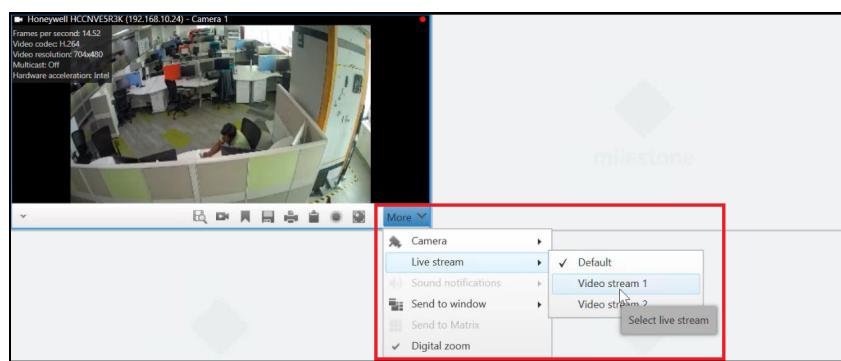
Refer to the official Milestone website (www.milestonesys.com) or Milestone specific documents for more information.

Viewing the Camera Settings in Smart Client

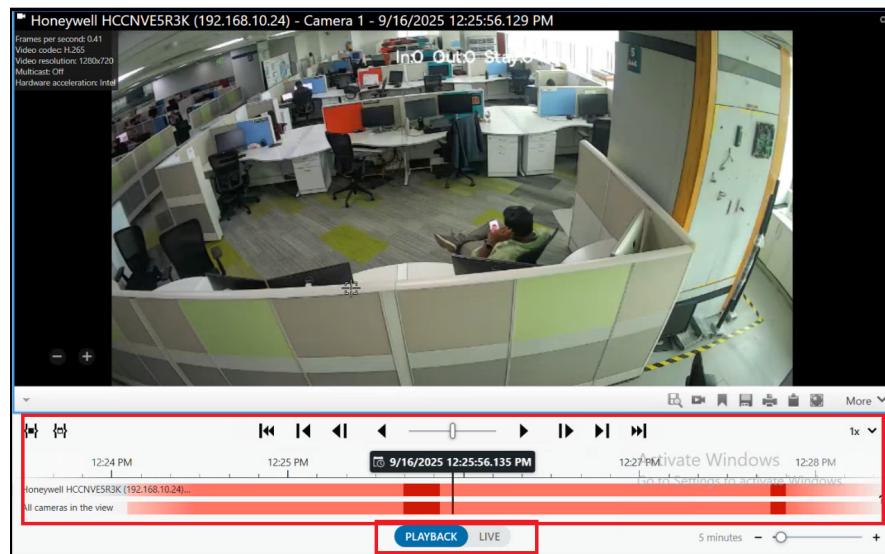
Launch XProtect Smart Client to view the settings of the camera which are configured in the Management Client.



- User can also view the configured Live Stream as shown below.



- In the Playback, the user can see the configured recordings to track the Detection Events as shown below.



Sub Devices of Hardware

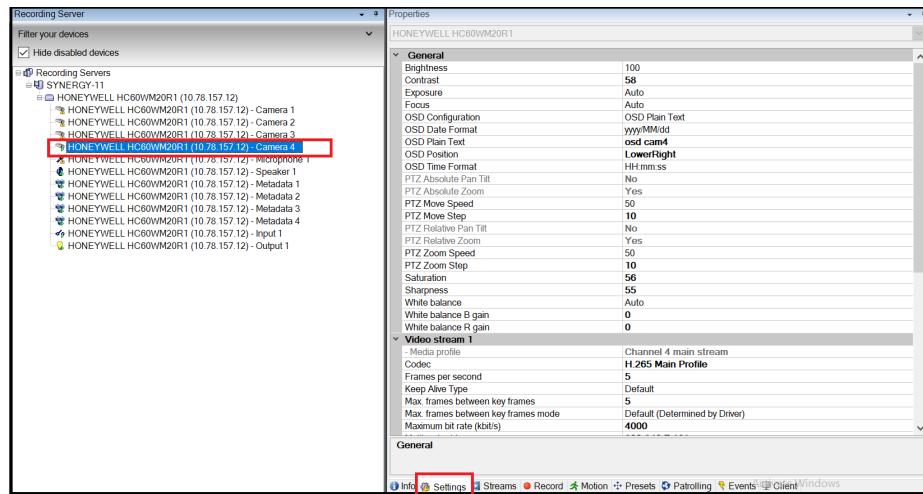
The Sub Devices of a Hardware are as follows:

- Camera
- Microphone
- Speaker
- Metadata
- Output
- Input

Note: IP speaker will show as a camera and will have camera in sub-device list.

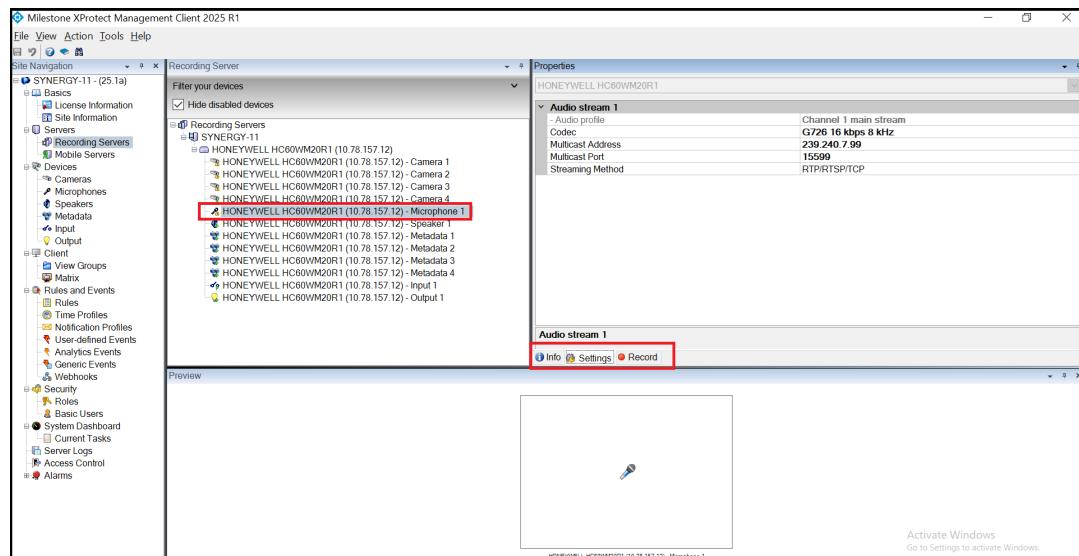
Viewing Camera Settings

- To view the sub devices of a selected camera, click on settings tab as highlighted in the below figure.



Viewing Microphone Settings

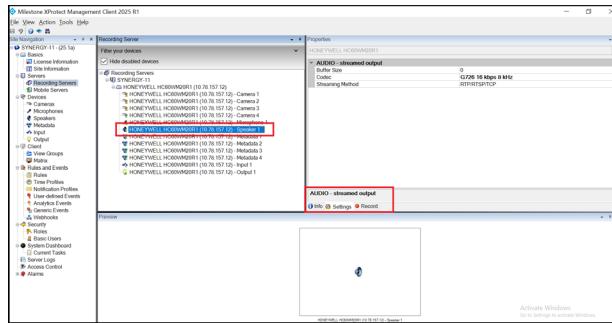
- To view the sub devices of a selected Microphone, click on settings tab as highlighted in the below figure.



Viewing Speaker Settings

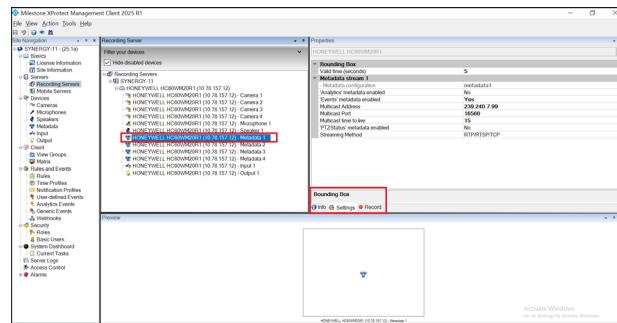
To view the sub devices of a selected Speaker, click on settings tab as highlighted in the below figure.

Note: IP speaker will show as a camera and will have camera in sub-device list.



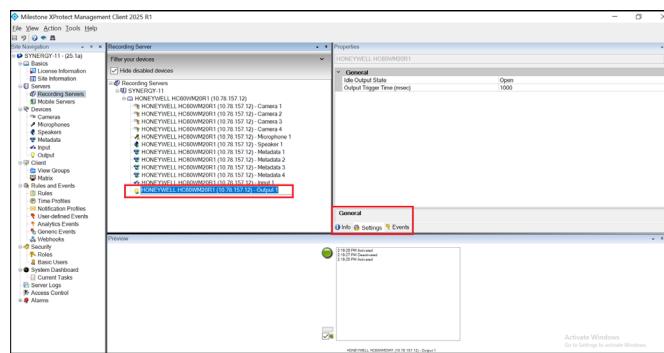
Viewing Metadata Settings

To view the sub devices of a selected Metadata, click on settings tab as highlighted in the below figure.



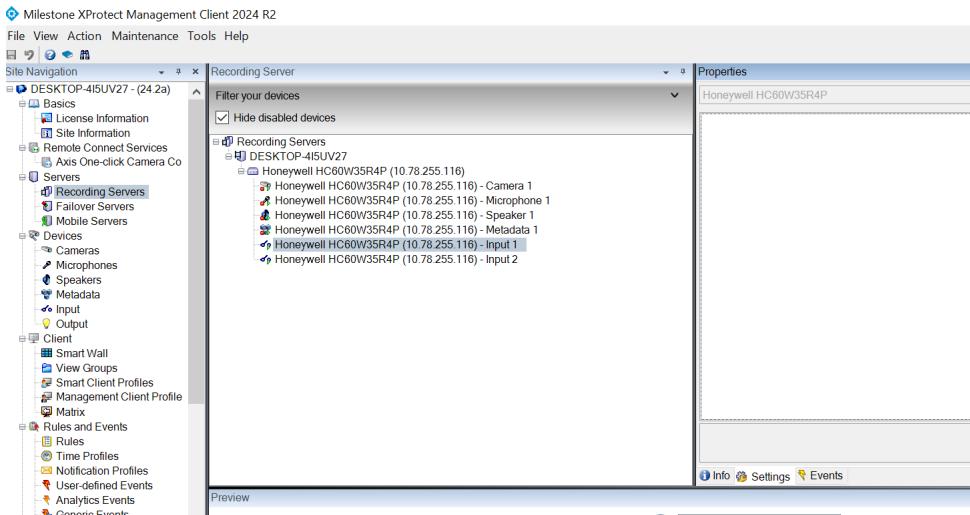
Viewing Output Settings

To view the sub devices of a selected Output, click on settings tab as highlighted in the below figure.



Viewing Input Settings

To view the sub devices of a selected Input, click on settings tab as highlighted in the below figure.



Actions on the Hardware

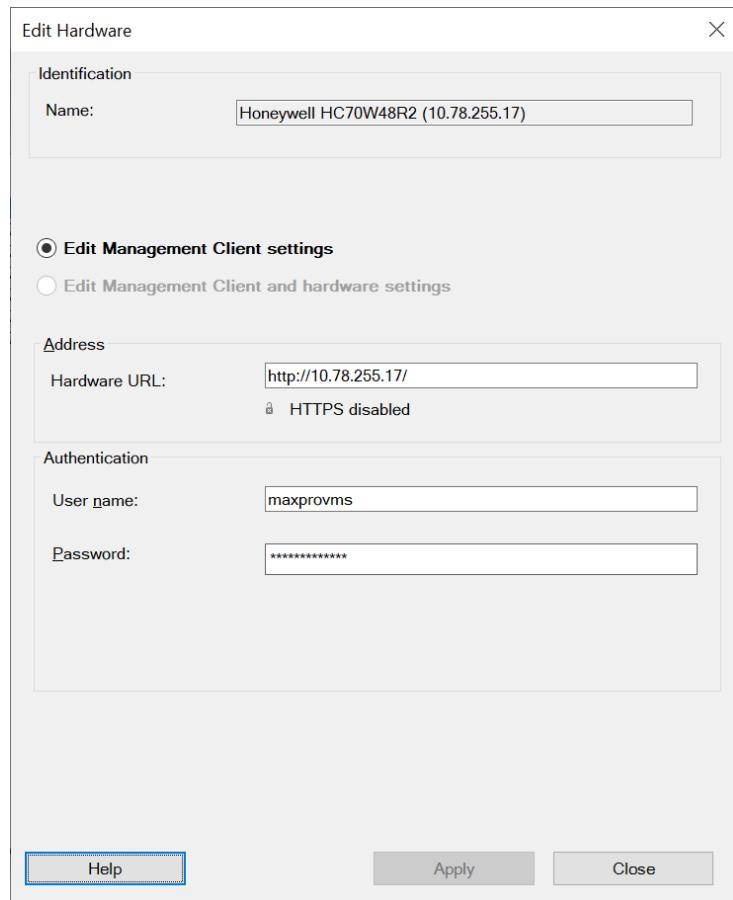
The following are actions that a user can perform on the Hardware:

- Edit Hardware
- Delete Hardware
- Move Hardware
- Replace Hardware
- Update Firmware

Editing The Hardware

To edit the Hardware follow the below steps.

1. Right click on the Hardware and then select **Edit Hardware** option. The below screen is displayed.

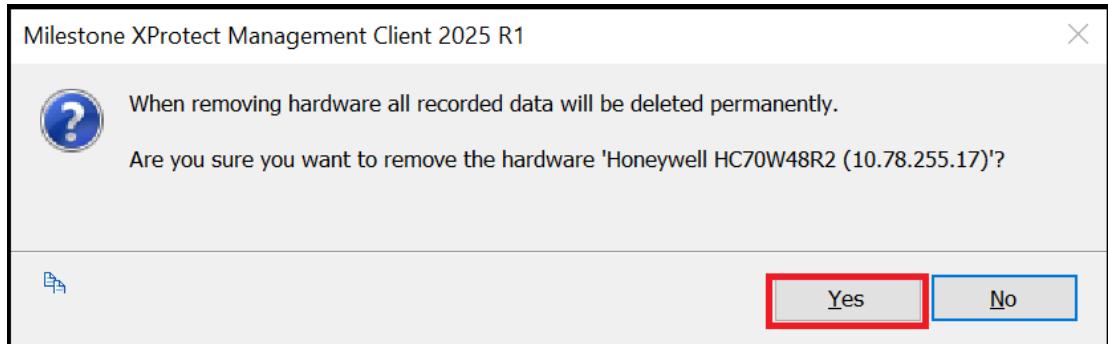


2. User can edit the following parameters;
 - Address
 - Hardware URL from HTTP to HTTPS
 - Authentication
 - User Name
 - Password
3. Click **Apply** to save the changes.

Deleting The Hardware

To delete the Hardware from the recording servers:

1. Right click on the required Hardware and then click **Delete Hardware** option. A confirmation message is displayed as shown below.



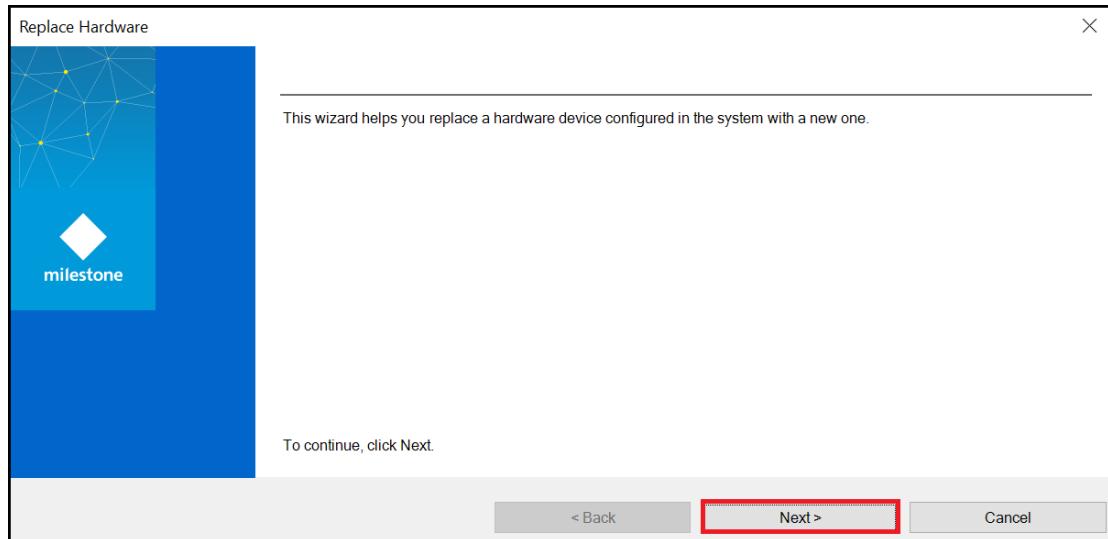
2. Click **Yes**, the Hardware is deleted from the Recording Server.

Moving The Hardware

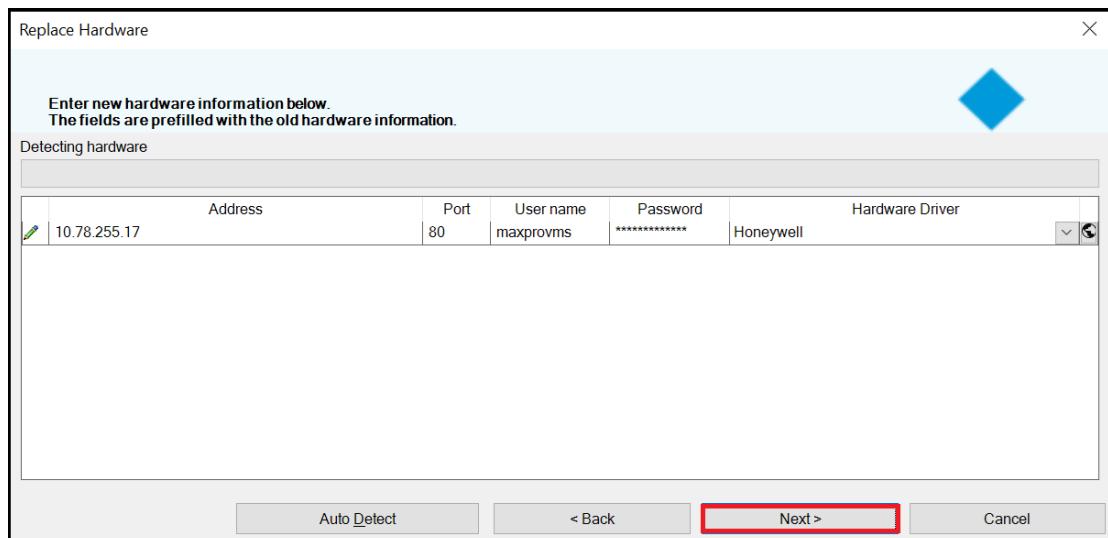
User can move the Hardware from one Recording Server to another Recording Server.

Replacing the Hardware

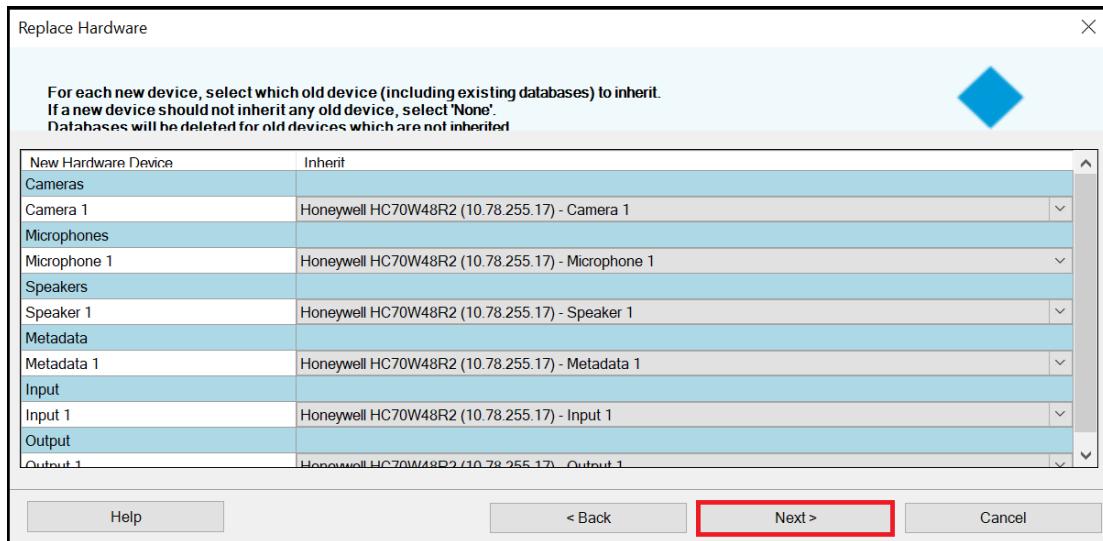
1. Right click on the Hardware and then click on **Replace Hardware** the below screen is displayed.



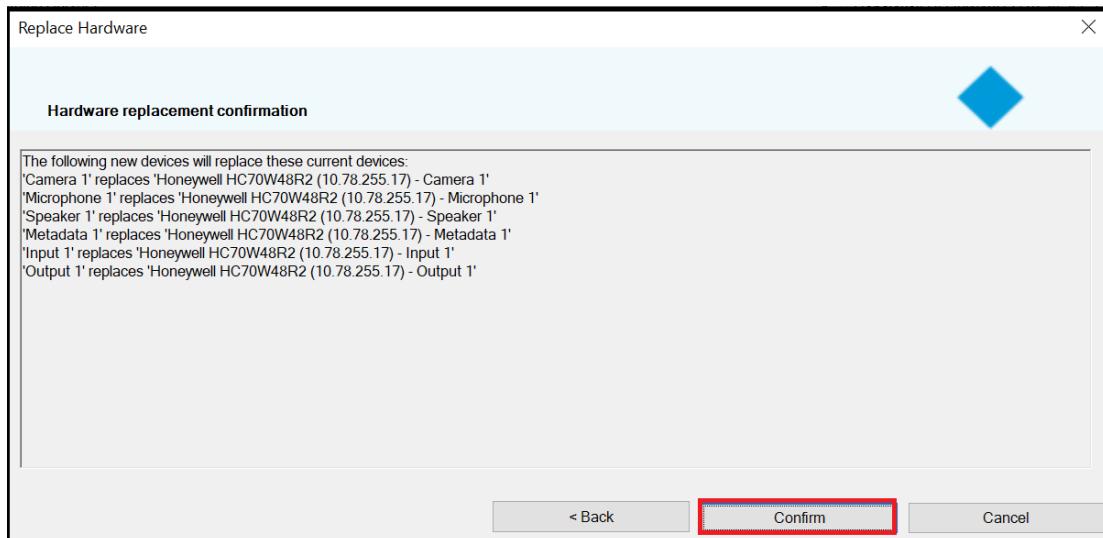
2. Click **Next**. The below screen is displayed



3. Enter the new hardware information and then click **Next**. The below screen displays.



4. Replace the required old device with the new one.
5. Click **Next**. The Hardware confirmation screen is displayed.



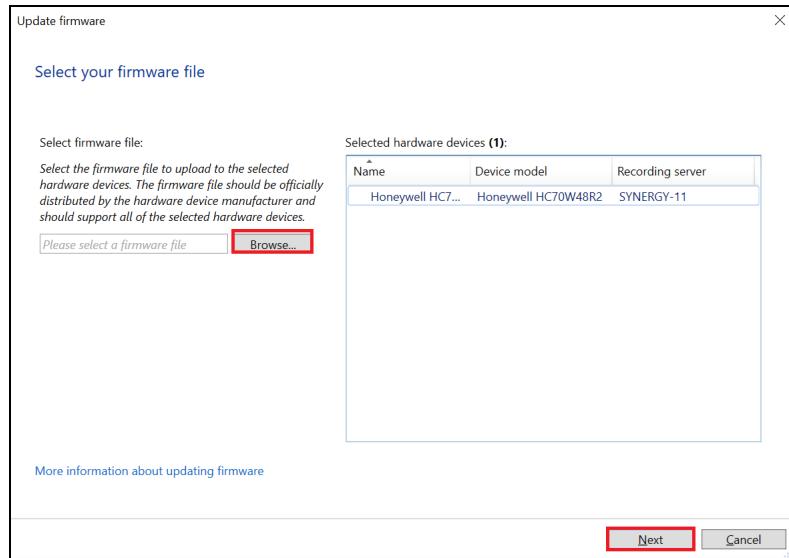
6. Recheck and click **Confirm** to replace the old Hardware with the new Hardware.

Rename The Hardware

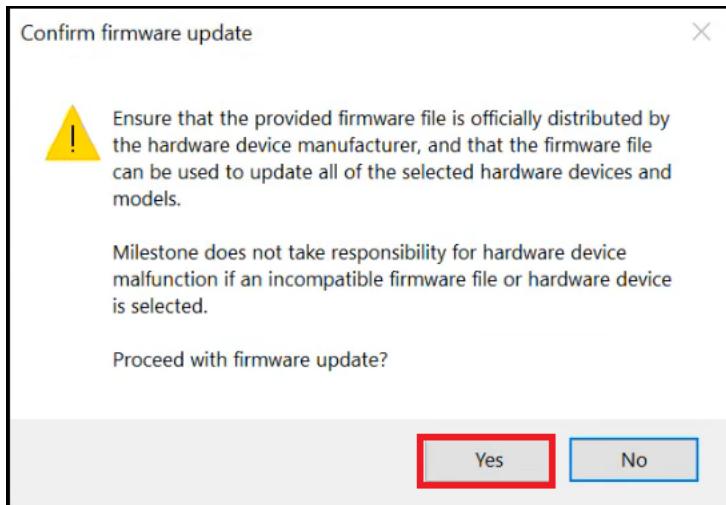
User can change the name of the Hardware.

Updating The Firmware

1. In the Recording Servers, right click on the camera and then select **Update Firmware** option. The Update Firmware screen is displayed.



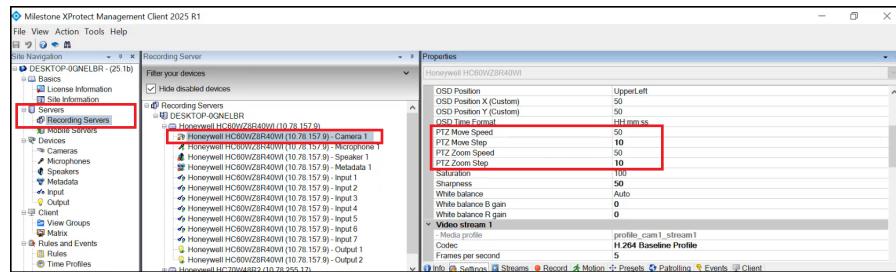
2. Browse the Firmware file from the folder for a particular camera.
3. Click **Update**, the confirmation dialog box appears as shown below.



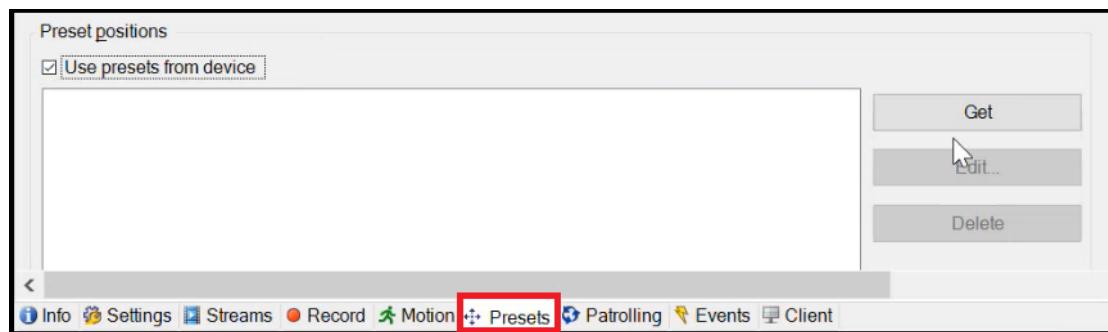
4. Click **Yes**, the Firmware is updated successfully.

PTZ Presets and Configurations

1. In the Milestone XProtect Management Client, navigate to **Servers>Recording Servers** and then select the PTZ camera with the specific parameters enabled as shown in the below figure.



2. Click on the **Presets** tab, the below screen is displayed.



3. Click **Get** button to view the camera positioning parameters as shown below.



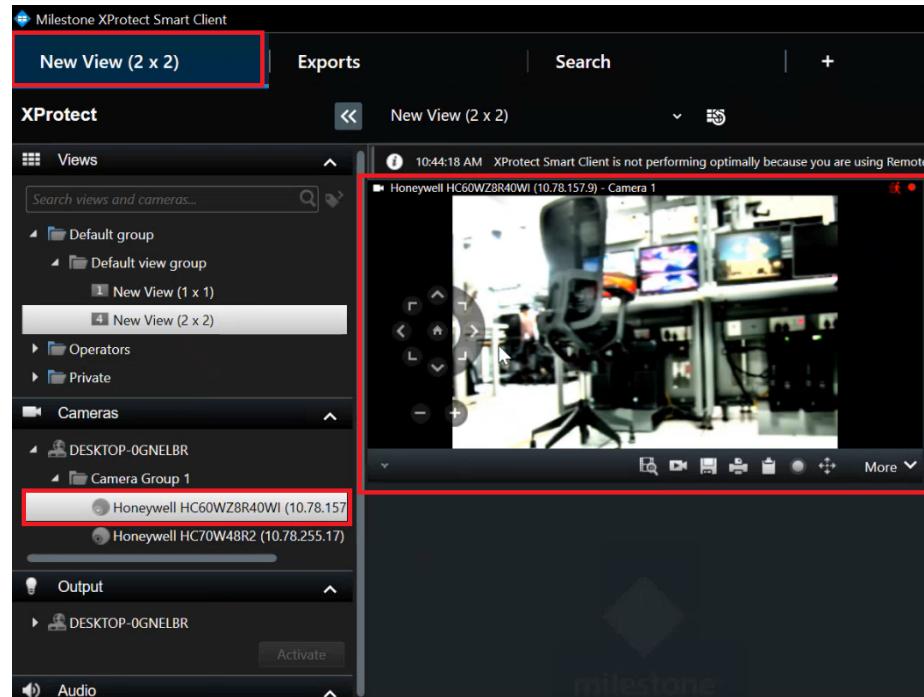
- User can create the Preset inside the camera and also can fetch the preset from the Milestone.

4. Select the required preset and then click **Activate**. The camera moves to the Preset position.

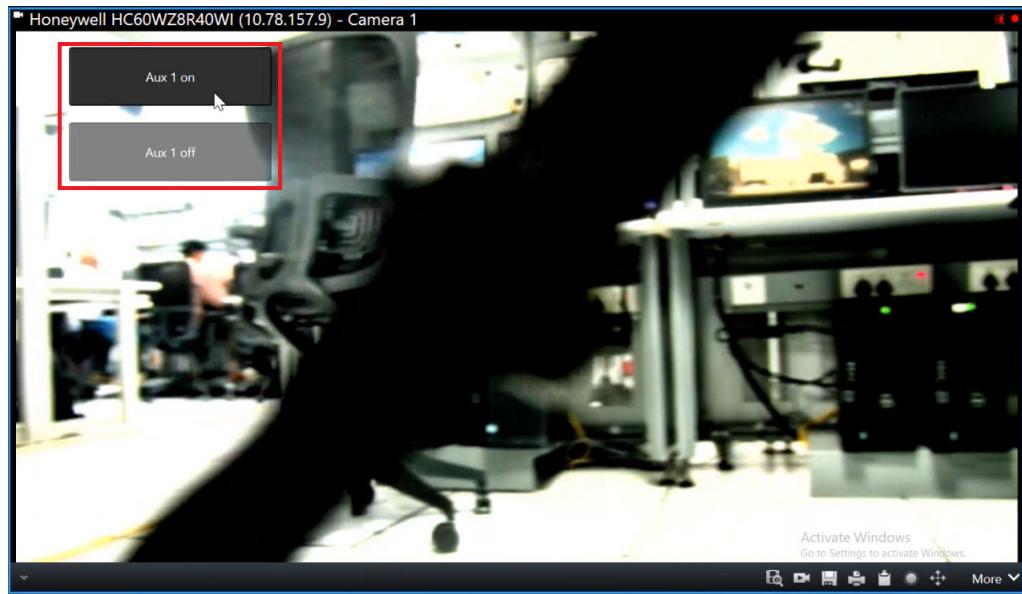
Viewing the PTZ camera

User can view the added PTZ Camera features in the Milestone XProtect Smart Client.

1. In Milestone XProtect Smart Client, navigate to **New View>Cameras** and select the PTZ camera, the Live video is visible on the right pane as shown below.



- On the live video user can see the PTZ options to move the PTZ camera.
- User can also use the Aux commands of a wiper to wipe the camera as shown below.
 - Click AUX on and AUX off to enable the commands.



AUX Commands and Description

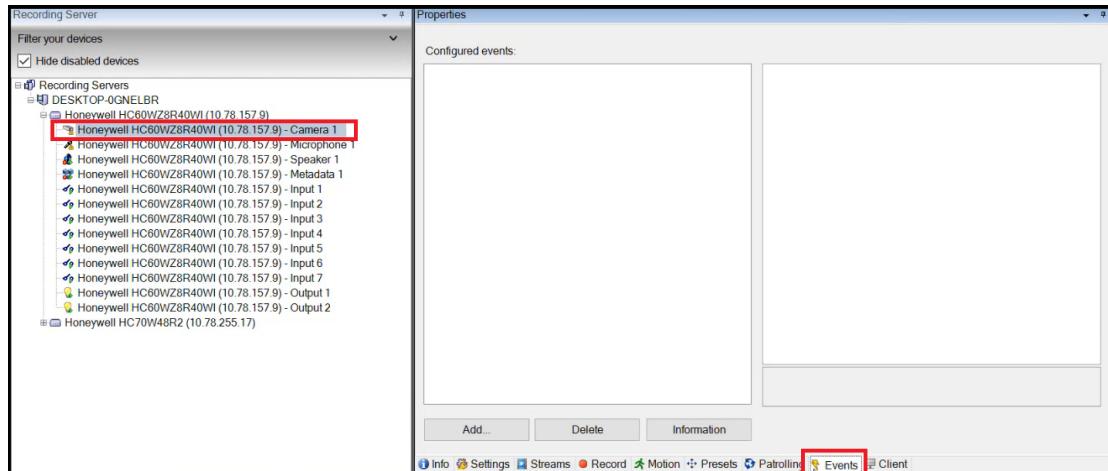
Below are the AUX commands and description that can be used to perform various functions.

- Aux #1: Wiper ON/OFF
- Aux #2: Washer ON/OFF
- Aux #3: Heater ON/OFF
- Aux #4: WhiteLed ON/OFF
- Aux #5: IRLed ON/OFF
- Aux #6: WashingProcedure

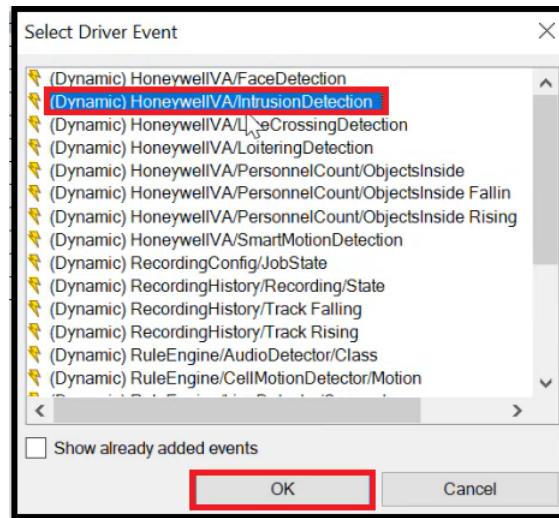
Viewing Events

To view the events of a camera, perform the following steps.

1. In the Recording Servers, select the camera and click on **Events** tab as shown below.



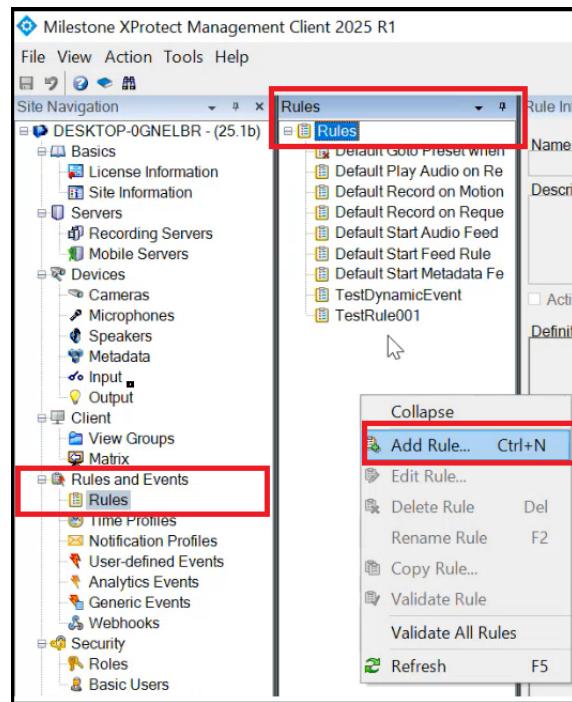
2. Click **Add** option, the **Select Driver Event** screen is displayed.



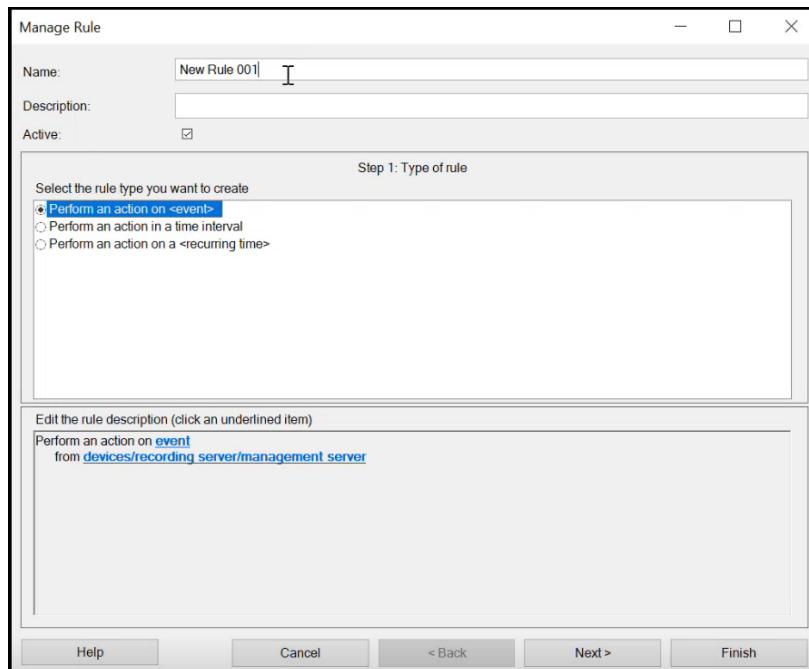
3. Select the supported events and then click **OK**. User is notified when the event occurs.

To view the added events, perform the below steps:

4. Navigate to **Rules and Events>Rules** as shown below.



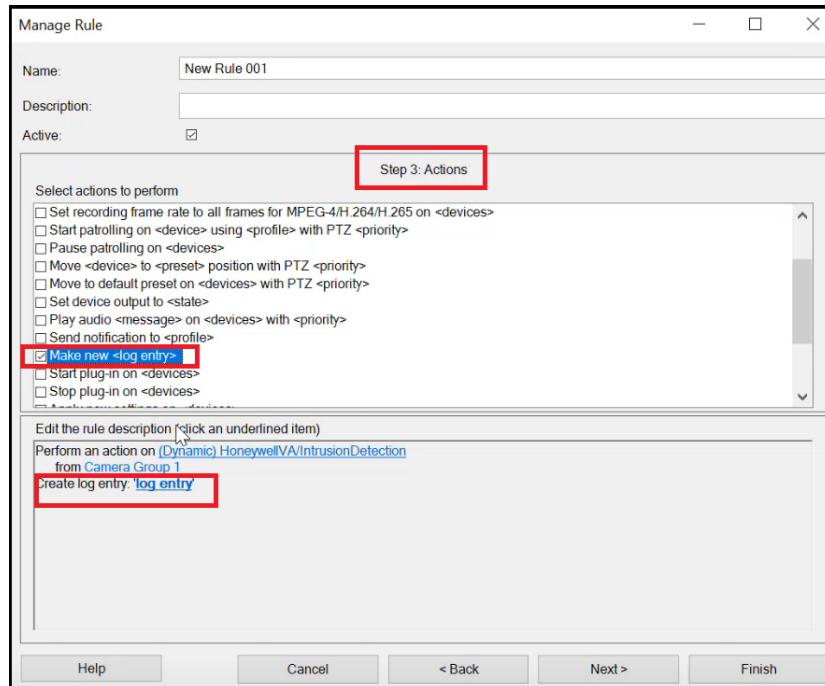
5. Click **Add Rule**, the **Manage Rule** dialog box is displayed as shown below.



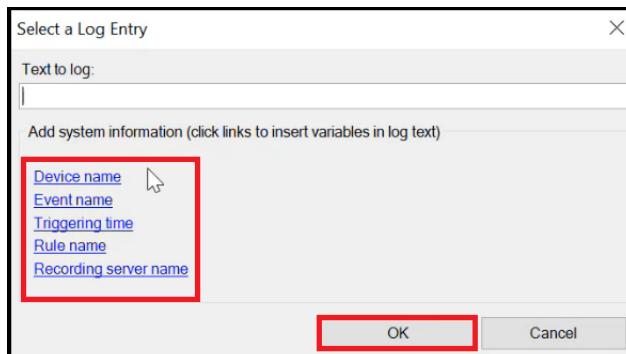
6. Type **Name** and **Description** in the fields provided.

7. Select the required rule type you want to create.

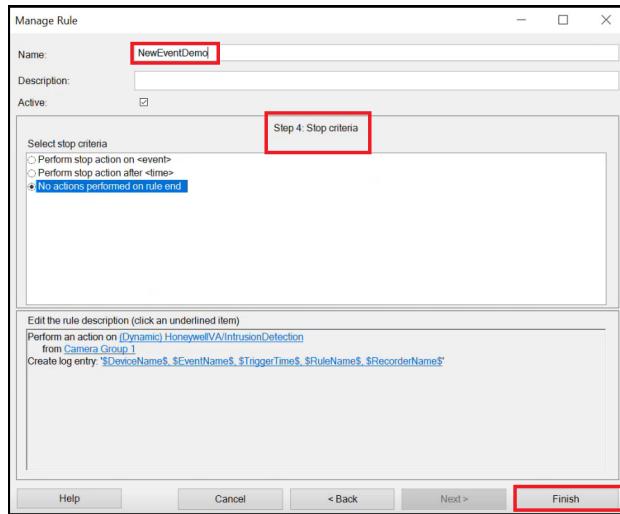
8. Select the required dynamic events.
9. Click **Next**. The Actions page is displayed as shown below.



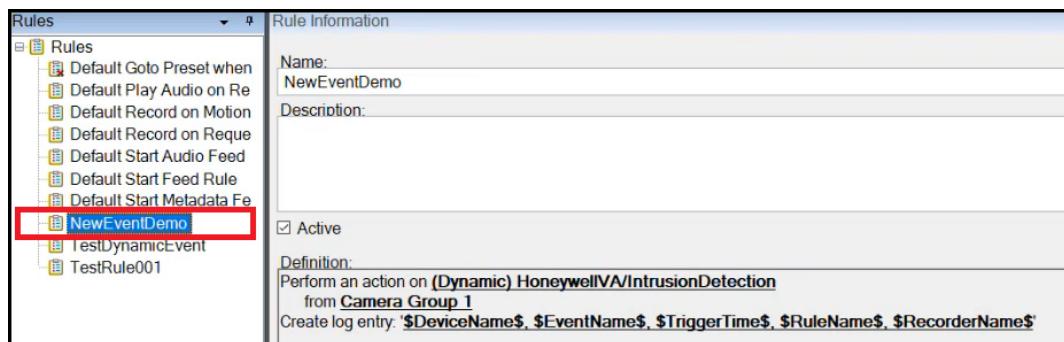
10. Click **Log Entry** link, the **Select a Log Entry** dialog box appears as shown below.



11. Select any log name from the links and then click **OK**. The Stop Criteria page is displayed.



12. Type a new event name and then select the required criteria.
13. Click **Finish**. The new Event is added in the Rules tab as shown below.



Metadata Search

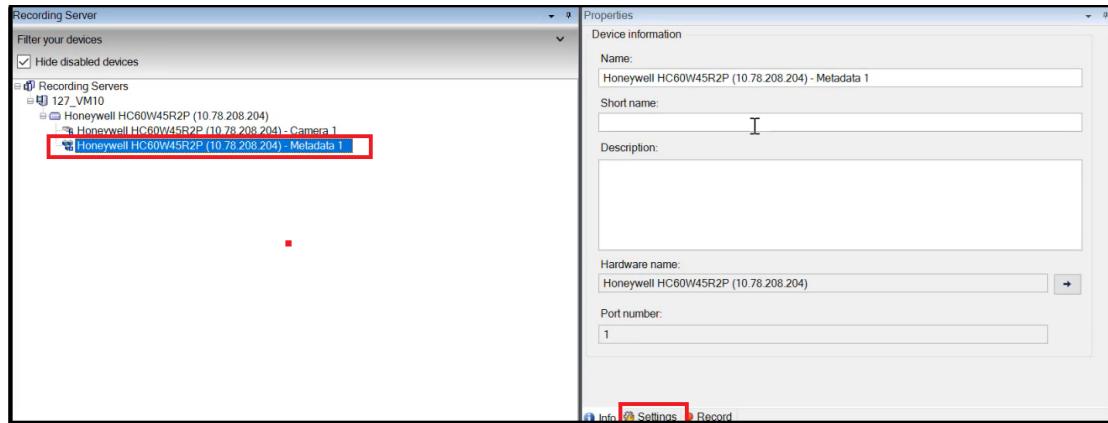
Metadata Search feature allows you to search and highlight the following using bounding boxes in a field of view:

- People
- Motion
- Alarm
- Events

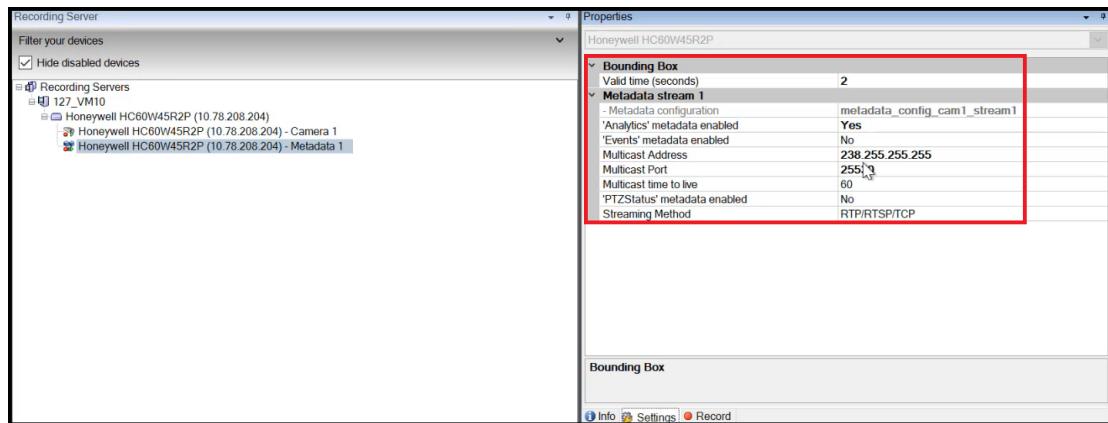
Metadata Configuration

To configure the Metadata in the XProtect Management Client, perform the below step.

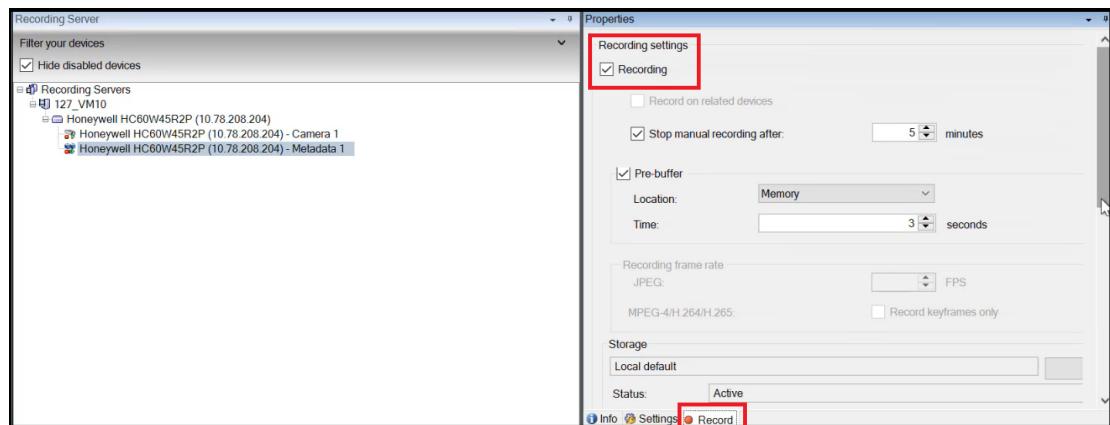
1. Click Metadata Port camera in the Recording Servers, the below screen is displayed.



2. Click on **Settings** tab to view the properties of the Metadata Camera as shown below.



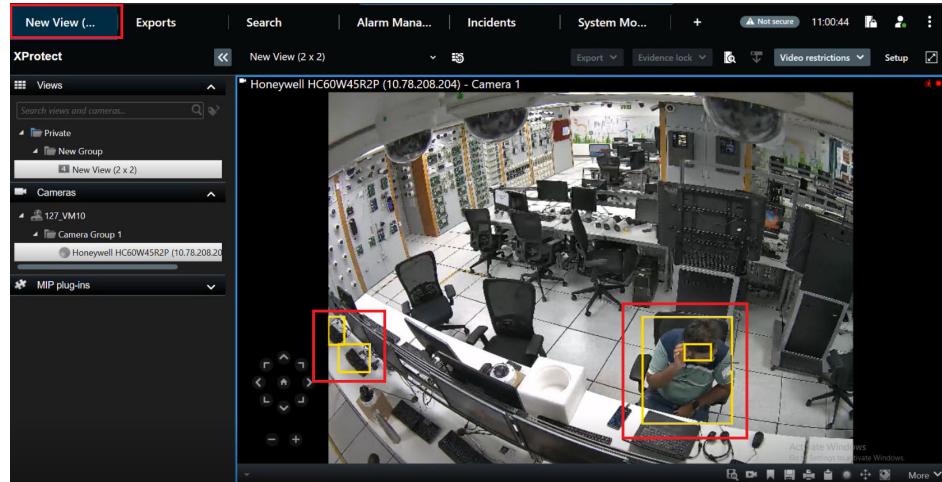
3. In the settings window, modify the Bounding Box validation time and the metadata configurations as required.
- User can also view the Recording settings of the Metadata Camera in the **Record** tab as shown below.



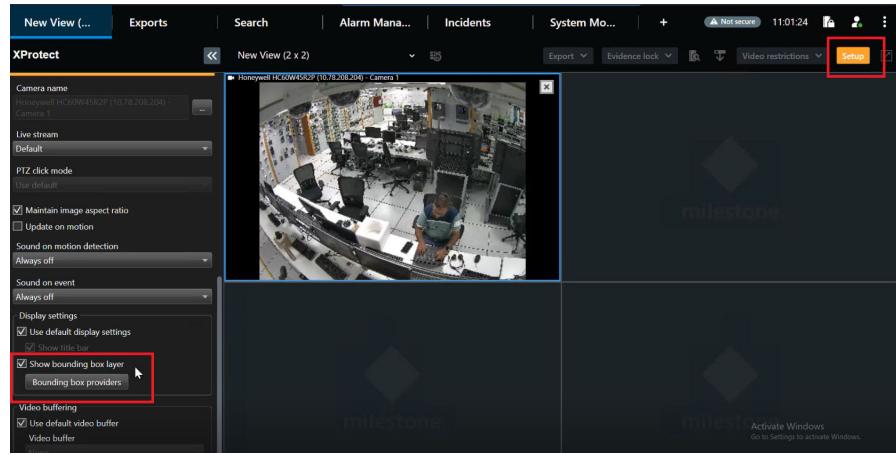
- In the Recording settings page, enable or disable the recording option.

How to view the Metadata in Smart Client

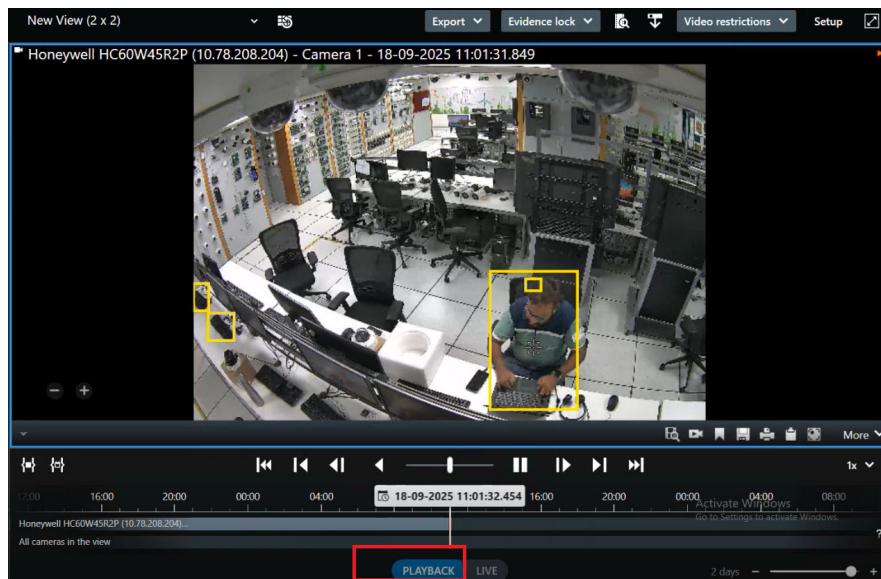
1. In the XProtect Smart Client, navigate to New View>Cameras and select the required camera.
2. Drag and drop the selected camera to view the Bounding Boxes as shown below.



- Enable or disable the bounding boxes in the **Setup** mode for an individual camera as shown below.

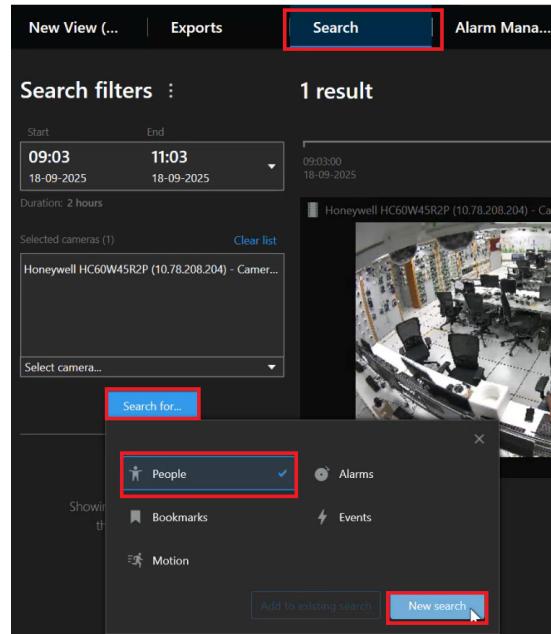


- View the Metadata settings in the playback option with bounding boxes enabled as shown below.

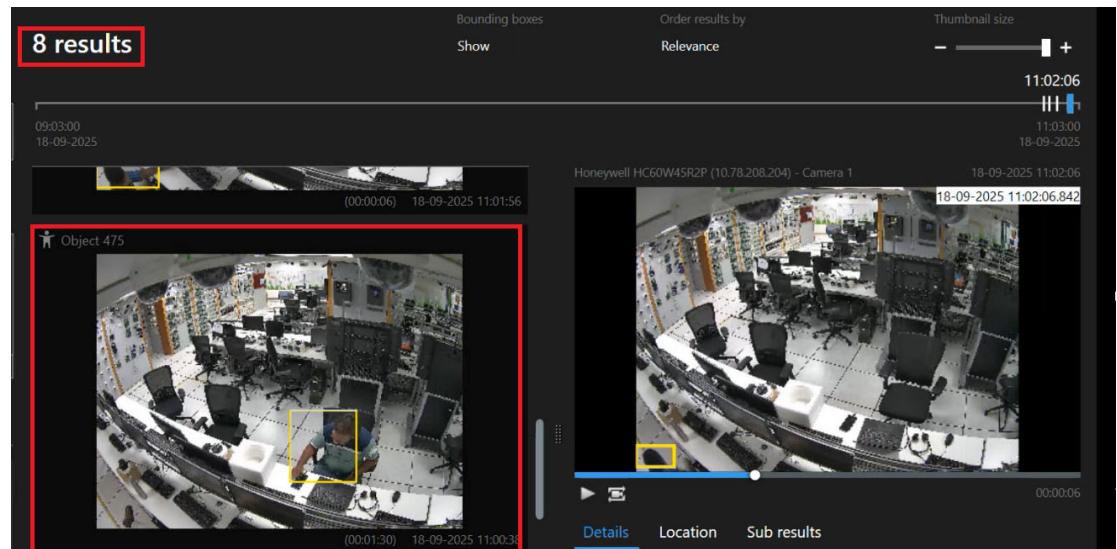


How to Search for Metadata

1. Go to Milestone XProtect Smart Client and then click the **Search** tab.
2. Under Search tab, select the required Honeywell camera and then click the **Search For** button. The supported Analytics are displayed for a camera.
3. Select the **People** Search option and then click on **New Search** as shown below.



- The Search results are displayed in the right pane along with the bounding boxes enabled as shown in the below figure.



Audio IN and OUT

This feature allows user to play audio from Milestone application to camera and vice-versa. Below are the two options being offered:

- Audio IN: Audio or voice from camera to Milestone application.

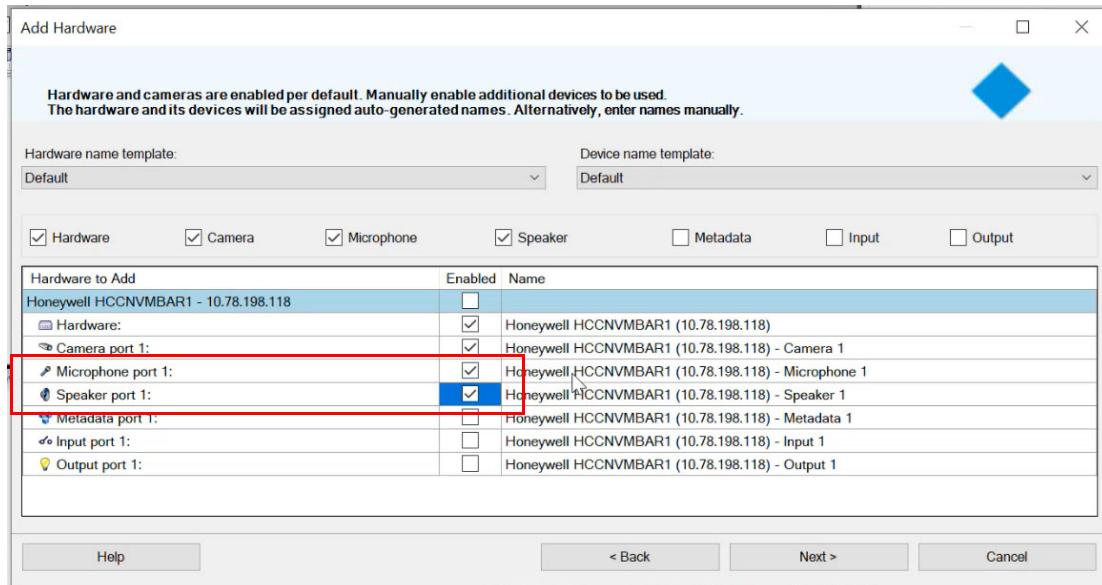
- Audio OUT: Audio or voice or announcements from Milestone application to camera.

This is applicable only for the camera models which supports audio. User need to enable this feature in camera web page in order to use in Milestone Smart Client application.

How to Configure Audio In and Out

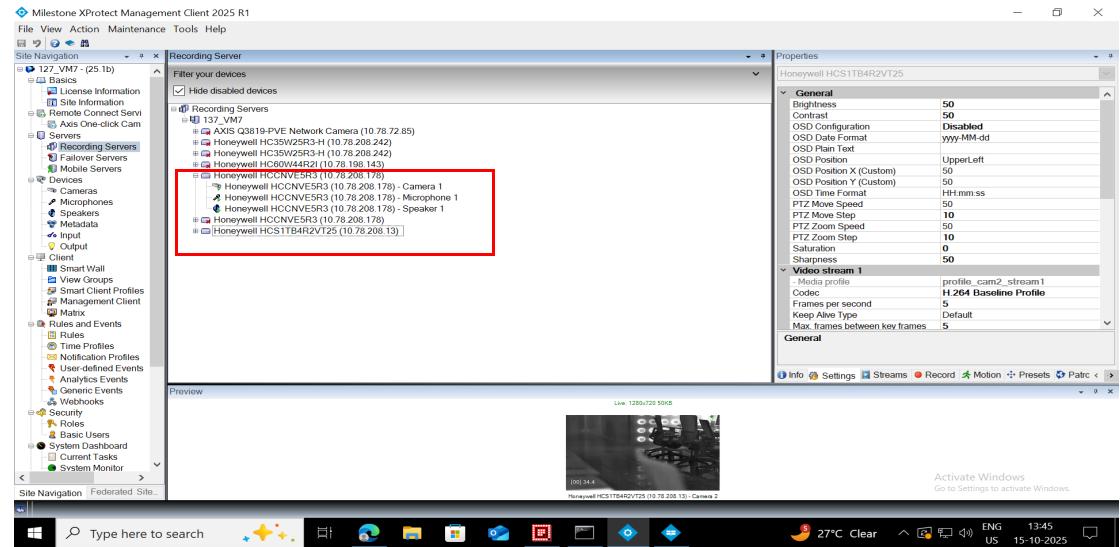
1. Launch the Milestone XProtect Management Client and navigate to **Servers** and then click **Recording Servers** node. The list of already added cameras are displayed in the right pane.

Note: If you need to add the new Audio supported camera then see [Discovering The Hardware](#) section. While adding the supported camera user need to select the below **Microphone Port 1** check box to enable Audio IN feature and **Speaker Port 1** for Audio OUT feature. IP speaker will show as a camera and will have camera in sub-device list.

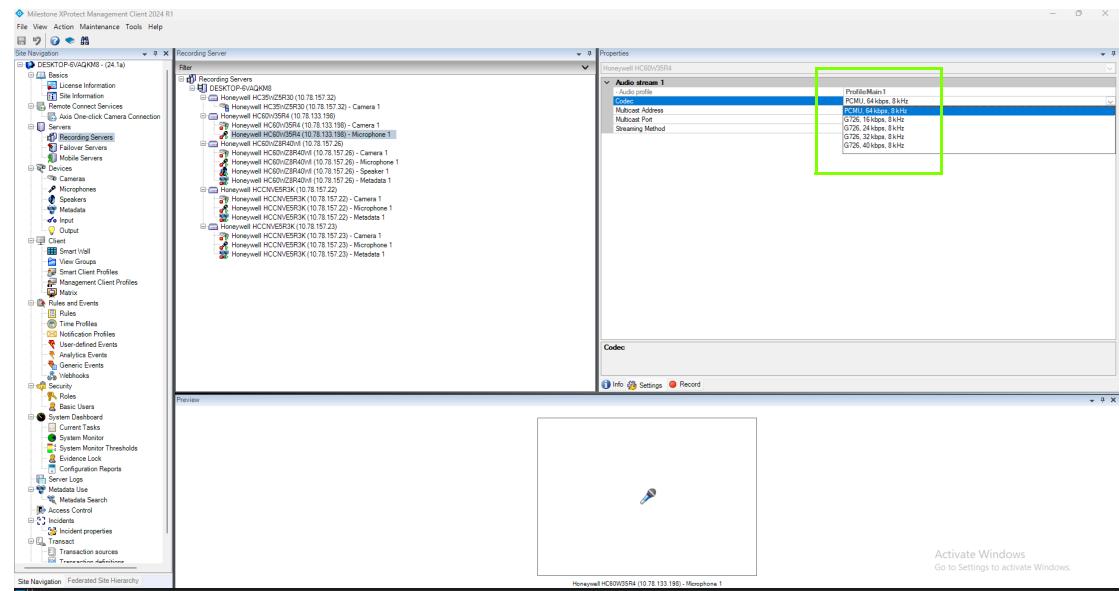


After enabling the above checkboxes, user need to add the camera. Perform the below steps post adding the camera.

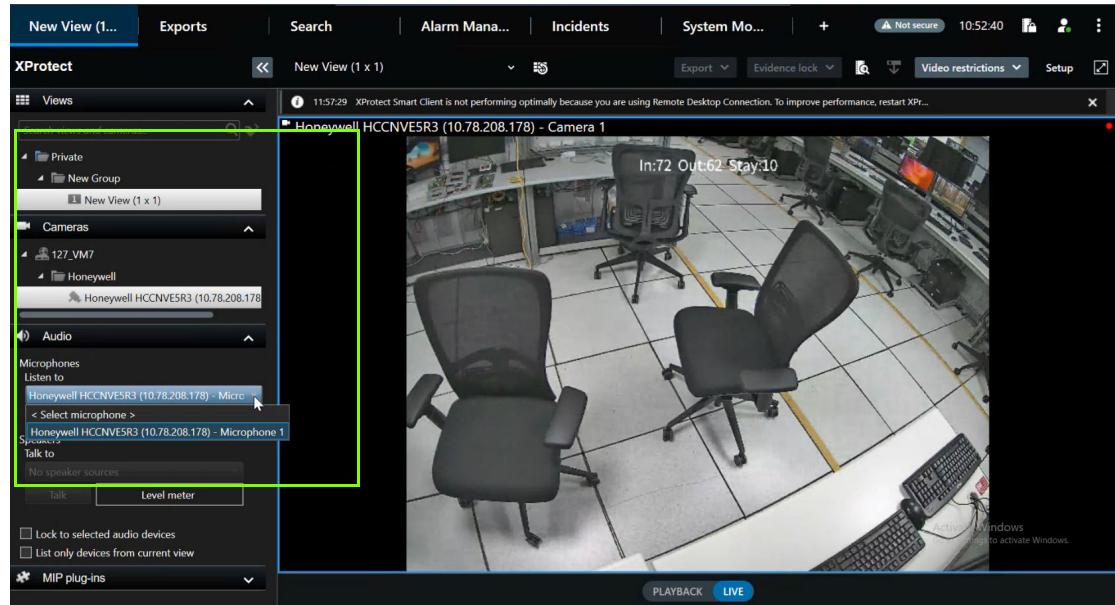
2. After adding the camera, user can see the below options for Audio IN and OUT.



3. Click Setting tab, if you want to change any Codec related settings. Available options are G711 PCMU,PCMA, G726 16 Kbps 8kHz, G726 24 Kbps 8kHz, G726 32 Kbps 8kHz, G726 40 Kbps 8kHz and AAC.

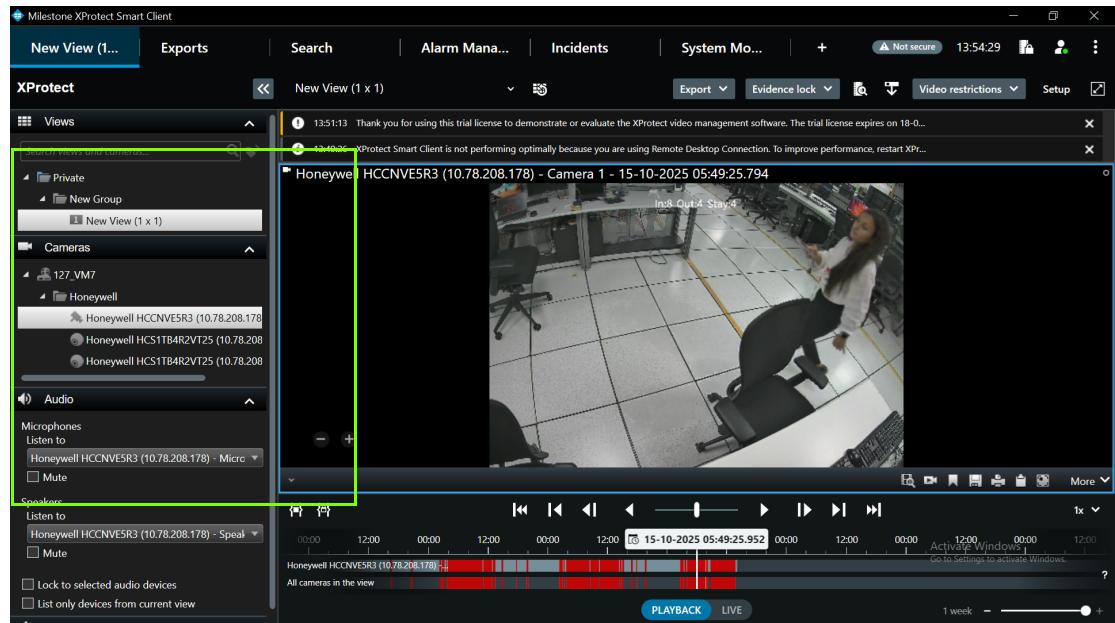


4. Launch the Milestone XProtect Smart Client application.

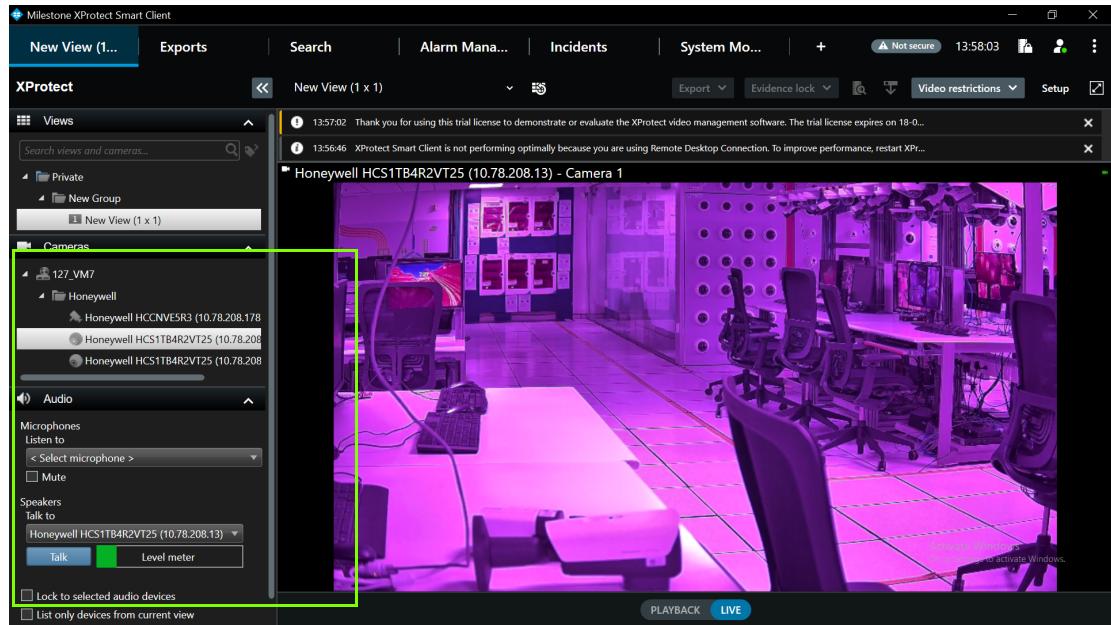


Note: Every time when a new camera is added in Management client then user need to close the Smart client application and then reopen to view the changes.

5. For Audio IN, under Microphones, select the required camera from the Listen to drop down list.
6. If required, user want to Mute then select the Mute check box.
7. To listen the Audio from Playback video then click Playback button and then user can listen the Audio from the camera. Refer to Milestone specific documents to set the Rules for recording preferences.



8. For Audio OUT, under Speakers, select the required camera from the Talk to drop down list.



9. Press and hold the Talk button to speak from milestone to camera.

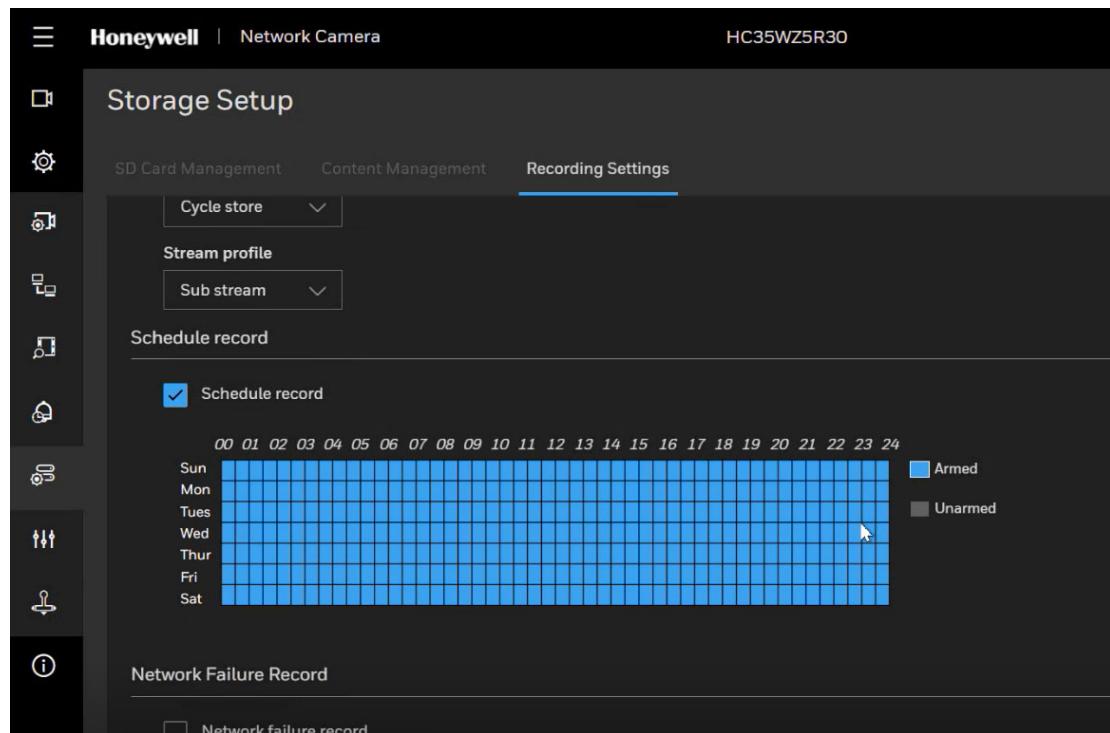
Edge Sync

Edge Sync feature enables you to synchronize the recordings from the camera SD card to Milestone Smart Client application for a single or multi-channel camera. This allows user to view the missing recordings in the Milestone sever. User need to perform below to view the recordings from Camera SD card:

1. Configure the Camera web page.
2. View the backfilled recordings in Milestone Smart Client for single or multi-channel camera.

How to configure Edge Sync in camera web page for Single Channel

1. Login to the required camera web page.
2. Click the **Storage Setup** option on the left pane and then click the **Recording Settings** tab.



3. Select the required **Stream Profile** from the drop down list.
4. Ensure the **Schedule record** is set to 24 hours and continuous recording.
5. Under **General Setup**, select the **Record Audio** check box if audio should be recorded.
6. Click **Save**.
7. Click the **Content Management** tab.
8. Under **Search**, set the Date and time to search the recordings in camera. If the recordings are available in SD card the result of recordings is displayed as shown below.

9. Click the **System Setup** option on the left pane.
10. Under System Time, ensure to set the **Device time** and **Current PC time** is synchronized as shown below. If the time is not synchronized ensure it is done.

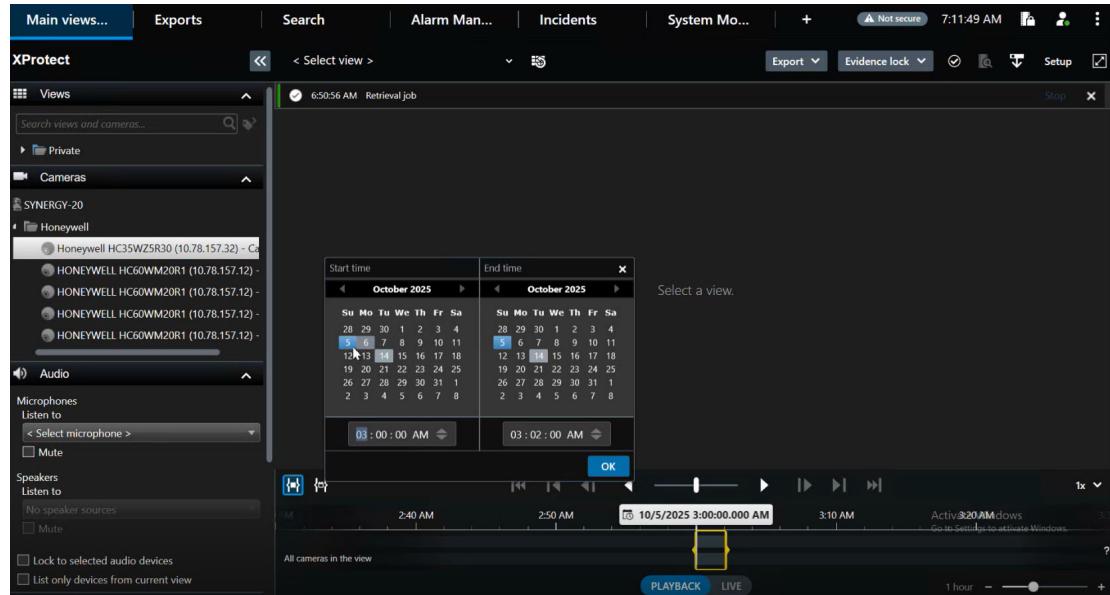
11. Click Save.
12. Click the Camera Setup option on the left pane.
13. Click the Video tab.
14. Select the required Video stream which is set for recording.
15. Ensure the H.265 and H.264 (default) codec settings are configured.

Note: Currently MJPEG codec format is not supported.

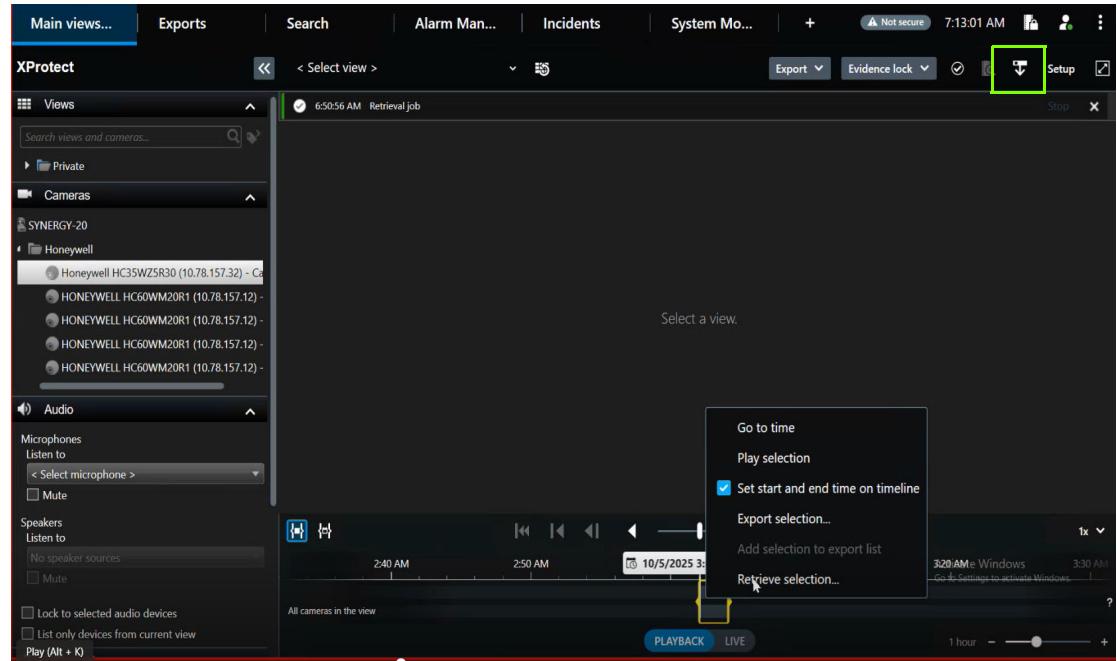
16. Click Save.

Viewing the Backfilled Recording in Smart Client

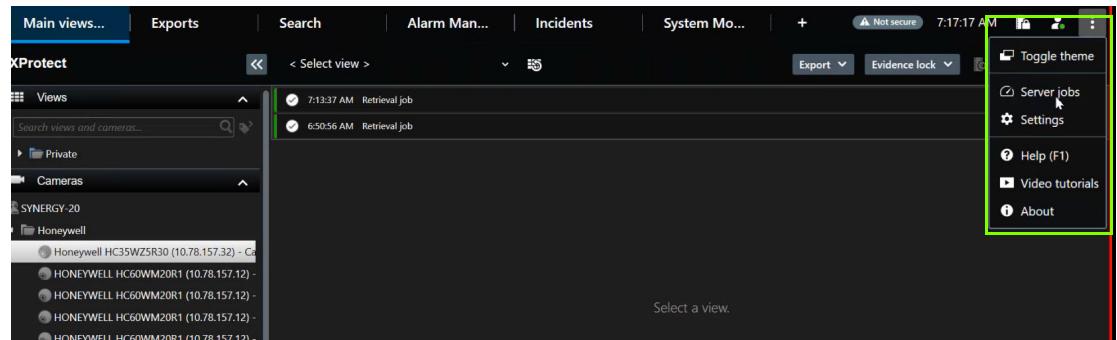
1. Launch the Smart Client application.
2. On the left pane, select the required camera which is set in camera web page (Single or multi channel camera).
3. Click the Set start and end time in calendar icon.



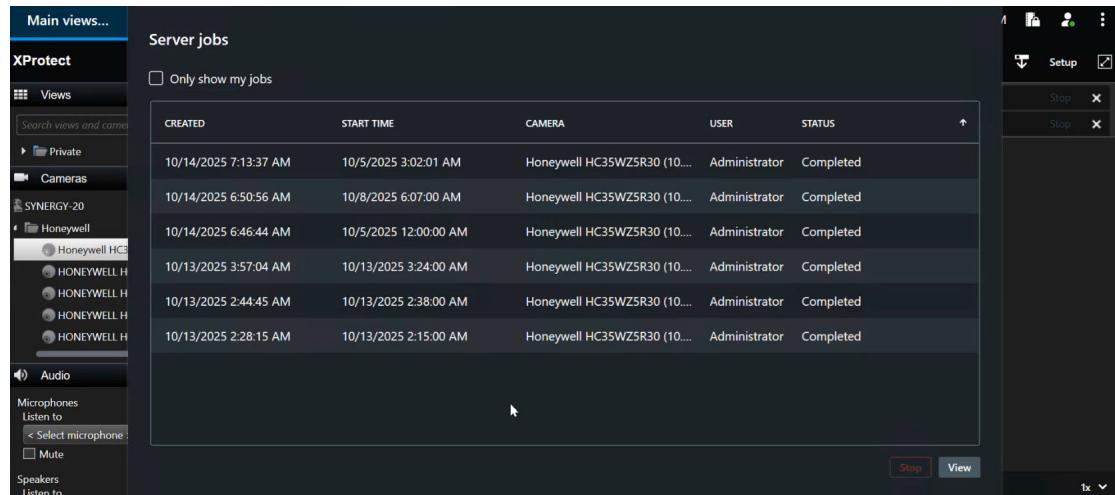
4. Set the date and time and the click OK. A Yellow frame is set for the required duration in timeline.



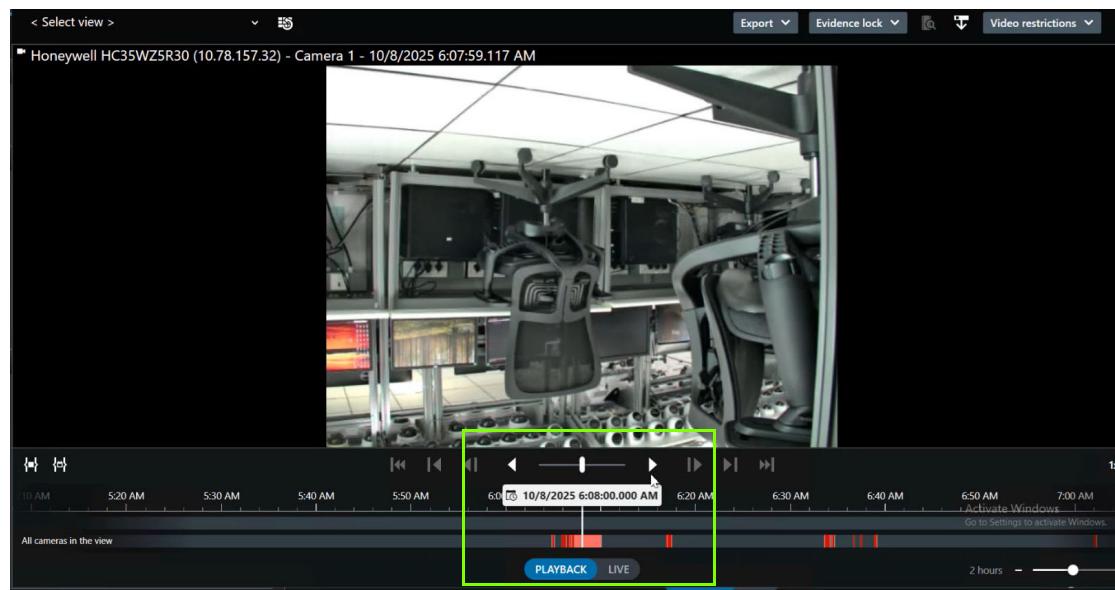
5. Right-click on the Yellow frame and then select **Retrieve Selection** option. Or Click **Retrieve Data** icon on top right corner of the application as highlighted above. Select the cameras to retrieve video from screen is displayed.
6. Select the camera from the list and then click **Start Retrieval**. The Retrieval Job status is displayed on top of the screen.
7. Click the ellipse menu on top of the screen as shown below.



8. Click **Server Jobs** options. The **List of Server Jobs** running is displayed with status.

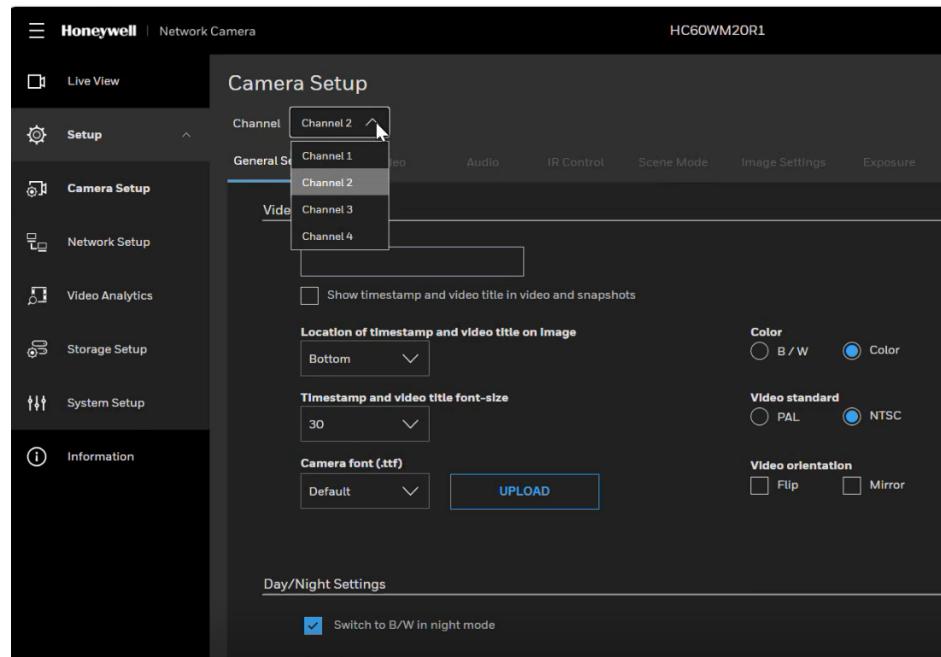


9. Select the Job and then click the View button to view the backfilled recordings. The backfilled recording is displayed in Red color in the timeline.

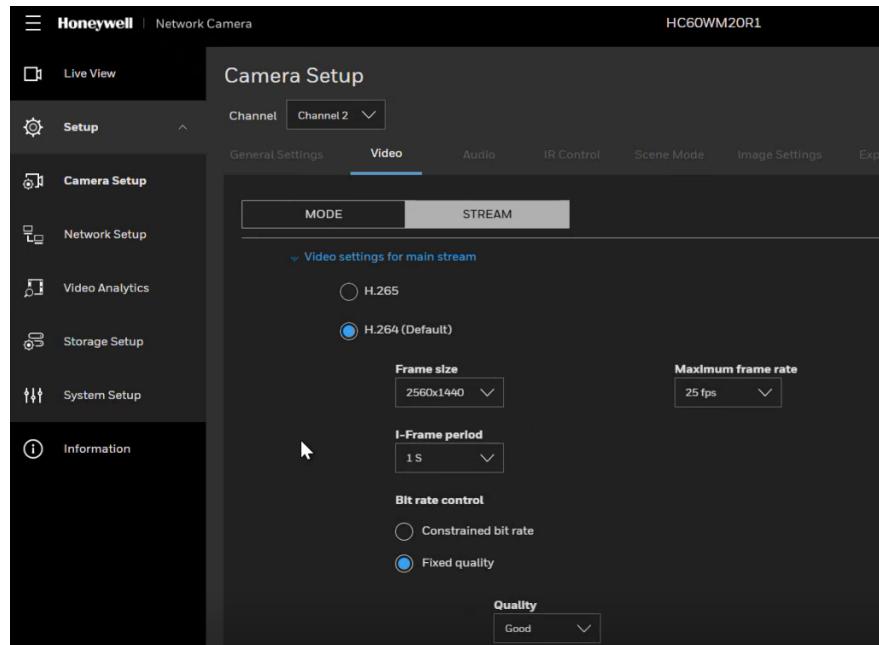


How to configure Edge Sync in camera web page for Multi- Channel camera

1. Login to the required camera web page.
2. Click **Camera Setup** on the left pane and under **General Settings**, check the number of channels available for camera.

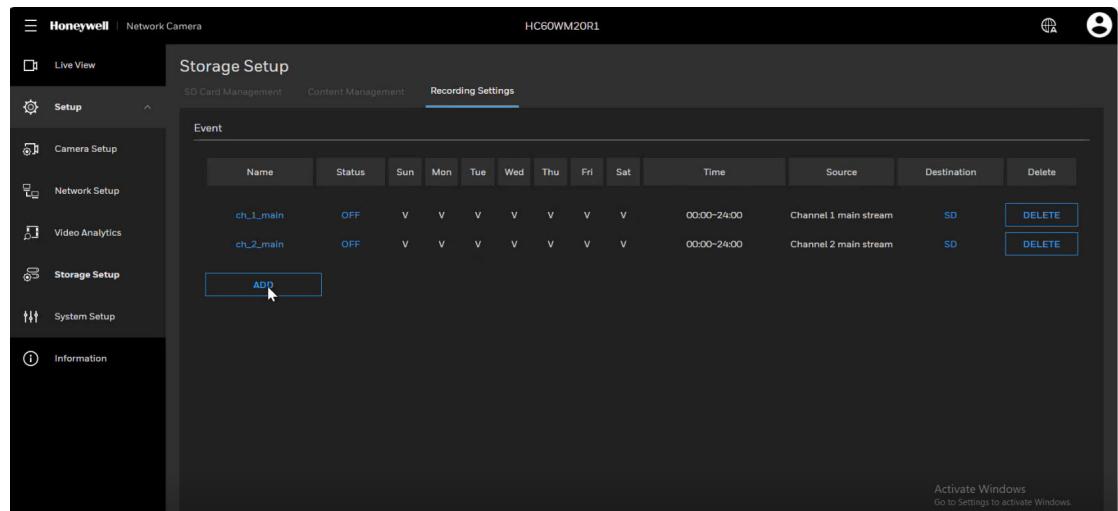


3. Click the **Video** tab and navigate to **Stream** to set the Video settings for the main stream for all channels (such as Codec, Frames, Bitrate and so on).

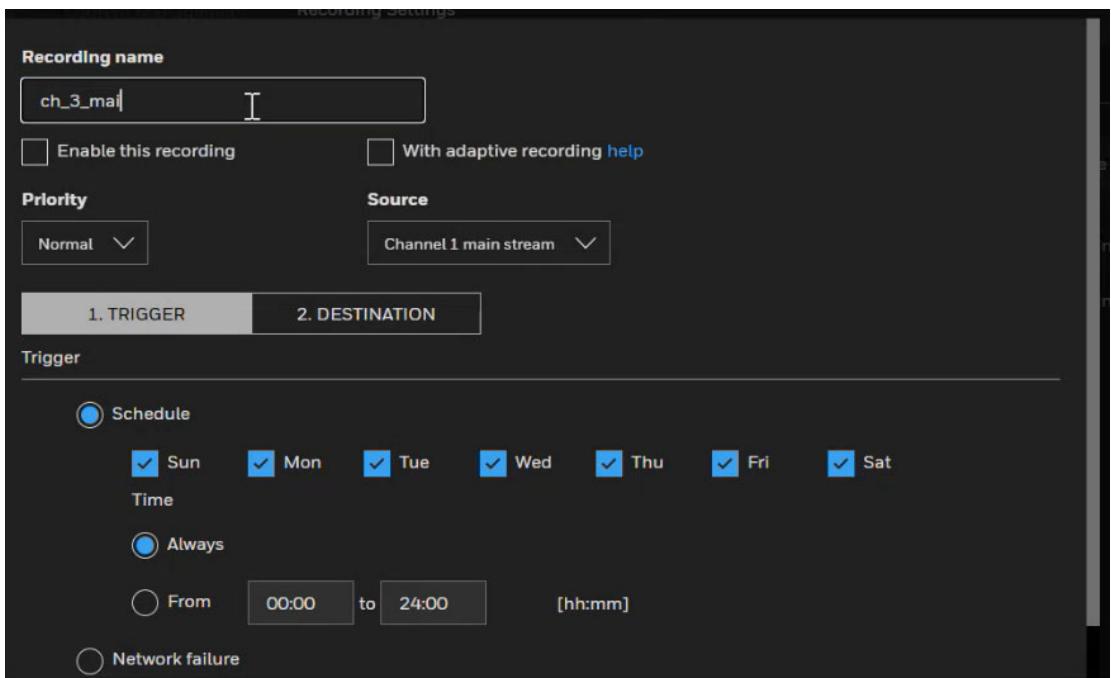


Note: Currently MJPEG codec format is not supported.

4. Click the **Storage Setup** option on the left pane and then check whether the SD card is available.
5. Click the **Recording Settings** tab.



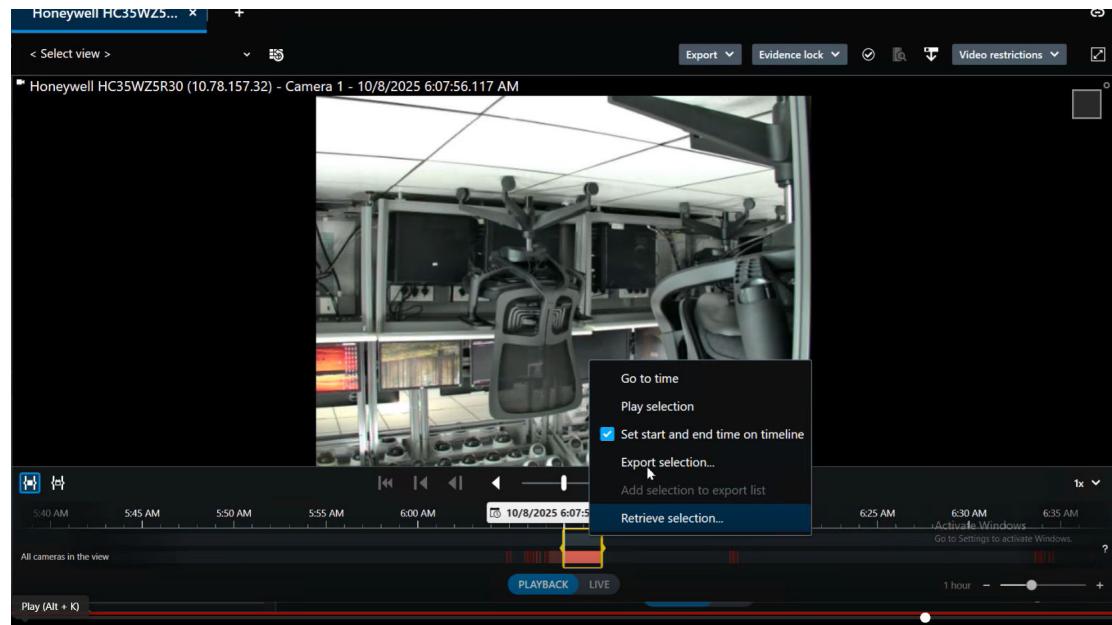
6. Click the Add button.



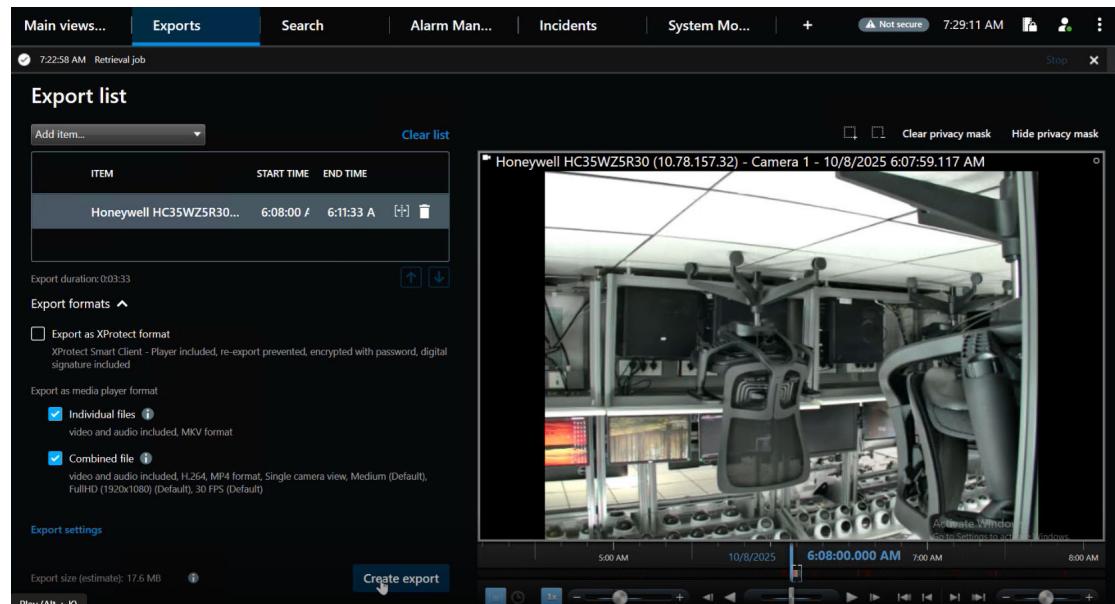
7. Enter the **Recording Name**,
8. Select the **Enable this recording** check box
9. Select the required stream from the **Source** drop-down. For example in this case Channel 3 main stream.
10. Click Save. Similarly you can add the rest of channels for the camera. See the [Viewing the Backfilled Recording in Smart Client](#) to view the backfilled video for all the channels.

Exporting the Backfilled Clip

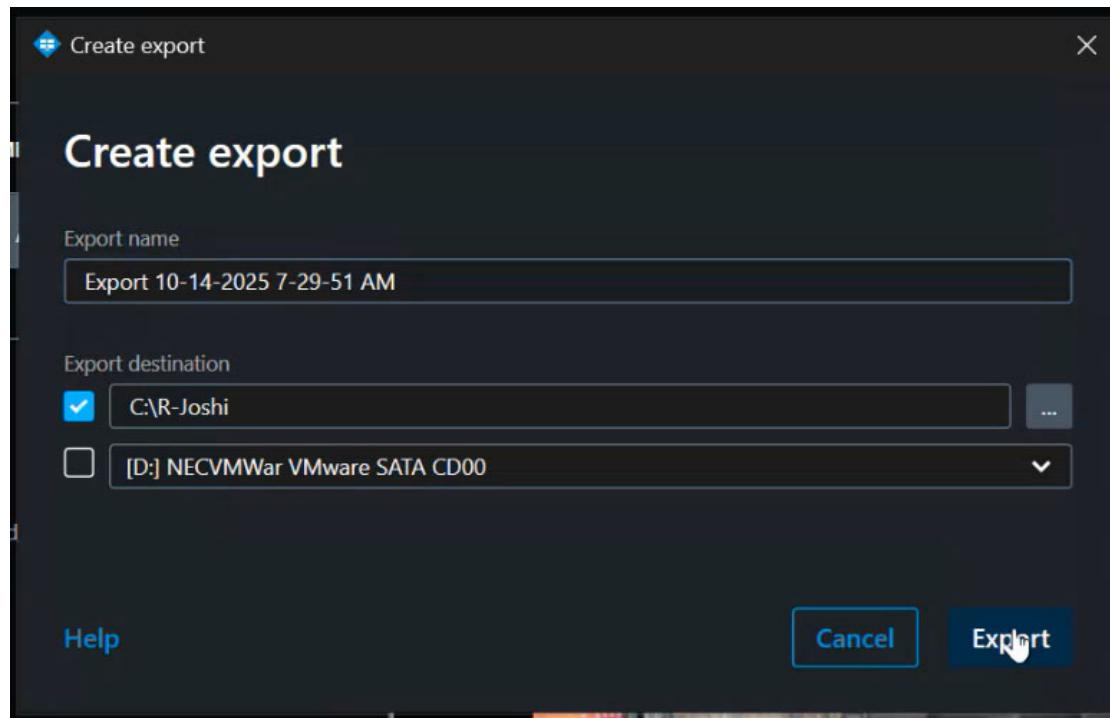
1. In the Backfilled video timeline, select the required time slot using the mouse.



2. Drag and adjust the frame using the mouse.
3. Right-click on the frame and then select Export Selection.
Or
Click the Exports tab in the main view and under Export List, select the camera. The video is displayed along with the clip to export.



4. Set the frame to export and then click the Create Export button. The Create Export dialog box is displayed.

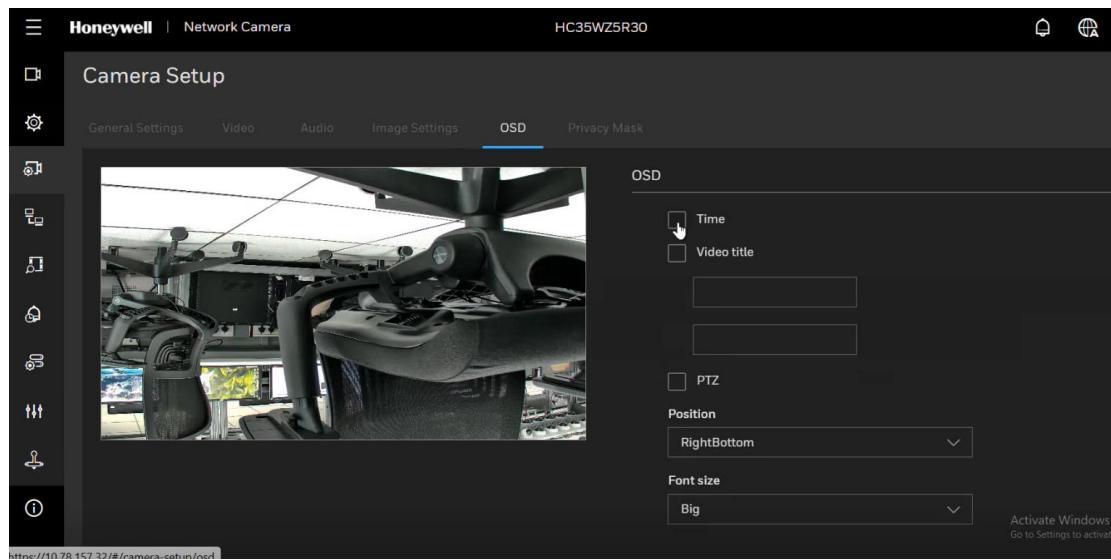


5. Set the Export clip name
6. Set the Export destination and then click the Export button. The status of Export is displayed on top the screen. Once the export is complete, user can navigate t the destination path to view the exported clip.

OSD Settings

To view the Time and Video Title on the video clip, user can configure the OSD settings on camera web page as explained below:

1. In the camera web page, click Camera Setup and then click OSD tab.



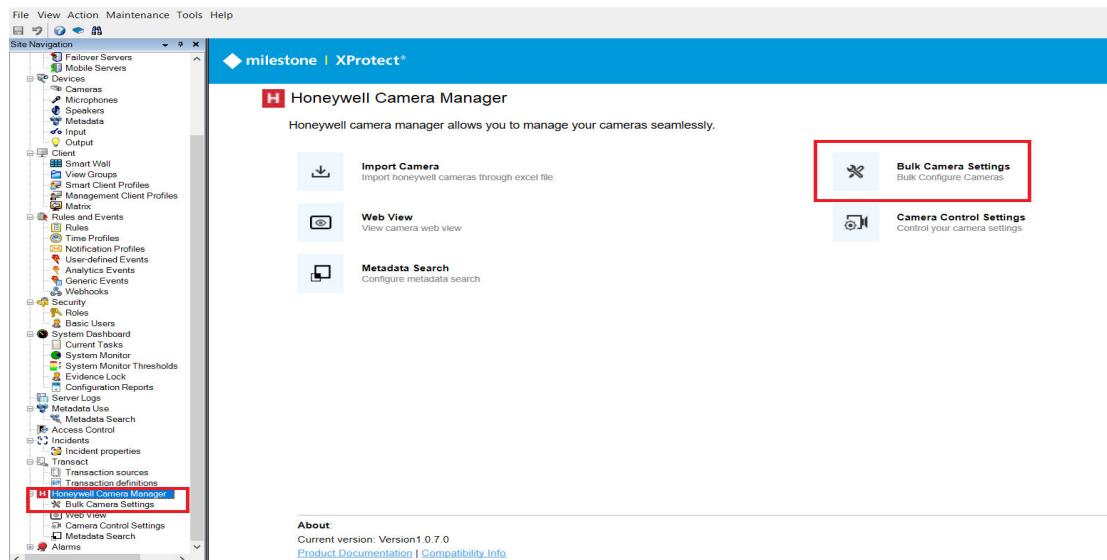
2. Select the Time and Video Title check box to enable.
3. Set the Position and Font Size from the drop-down.
4. Click Save.

Importing Cameras

Note: User can also use the exported file from Honeywell Unified Tool(1.0.1.20250905) to import the cameras into the Milestone system.

Under Honeywell Camera Manager, click **Bulk Camera Settings** node. The Bulk Camera settings are displayed on the right pane.

1. In Honeywell Camera Manager, click **Bulk Camera Settings** as shown below.



- The Bulk Camera Settings configuration page is displayed on the right pane.

The screenshot shows a software interface titled 'Configuration' with a sub-section 'Bulk Camera Settings'. At the top right, there is a red box highlighting a button labeled 'IMPORT CAMERA' with a download icon. Below this, a table lists 'All Cameras (1)'. The table has columns for 'CAMERANAME', 'MODEL', 'IP ADDRESS', and 'STATUS'. A single entry is shown: 'Camera1-S60-113' with 'HC60WB4R2I' in the MODEL column, '10.78.255.113' in the IP ADDRESS column, and a green status icon in the STATUS column. A search bar and a filter icon are also visible.

2. Click **Import Camera** link. The Import Camera dialog box is displayed as shown below.

The screenshot shows the 'Import Camera - From File' dialog box. It displays a file named 'Camera failedImport_05_19_2025_15_01_05.xlsx' with a size of '10.5 KB'. Below the file information is a dashed box with a file icon and the text 'Browse or Drag a file here'. At the bottom, there is an information icon with the text 'To download the camera configuration template format [click here](#)'. At the very bottom are two buttons: 'CANCEL' on the left and 'NEXT' on the right.

- Click Browse to locate the Excel template file (OR) Drag the File directly into the screen to add.

3. User can also download the camera configuration template format to fill the details. Click the **click here** link to download the template. The password should meet the below criteria:
 - Be at least 8 characters in length
 - Contain both lower and upper case alphabetic characters (e.g A-Z, a-z)
 - Have at least one numeric value (e.g 0-9)
 - Have at least one special character (!@#\$%^&*()_-+=)
 - Password and Confirm Password need to match

Create Password For Configuration Template

For security reasons, kindly create a password that will be used to access and import the camera configuration file.

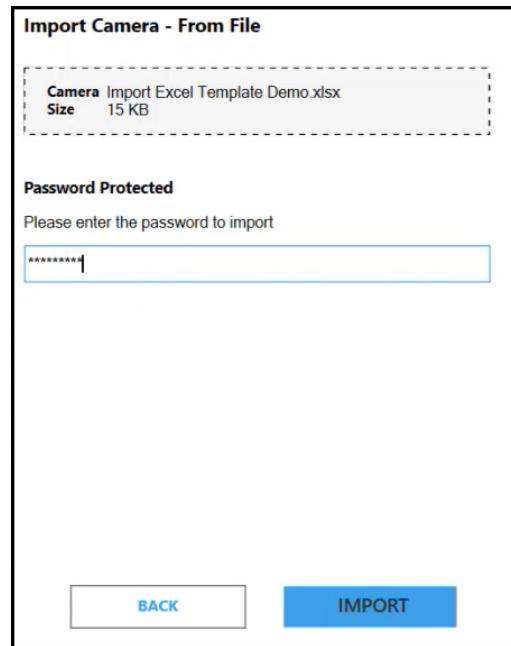
Create Password

Confirm Password

• Be at least 8 characters in length
• Contain both upper and lower case alphabetic characters (e.g A-Z, a-z)
• Have at least one numeric value (e.g. 0-9)
• Have at least one special character (e.g. !@#\$%^&*()_-+=)
• Password and Confirm Password need to match

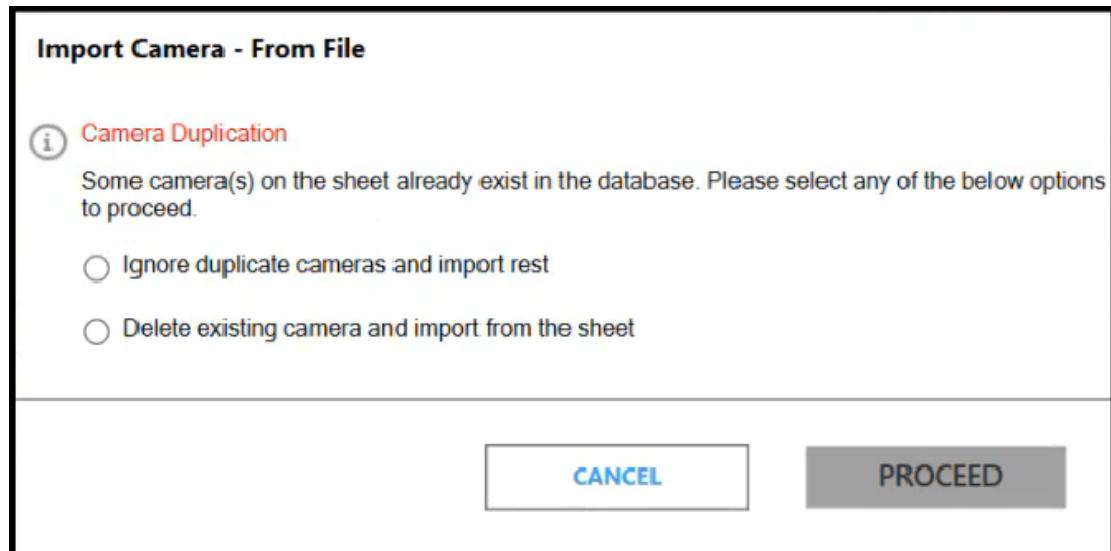
BACK **DONE**

4. Click **Done**. The below screen is displayed.

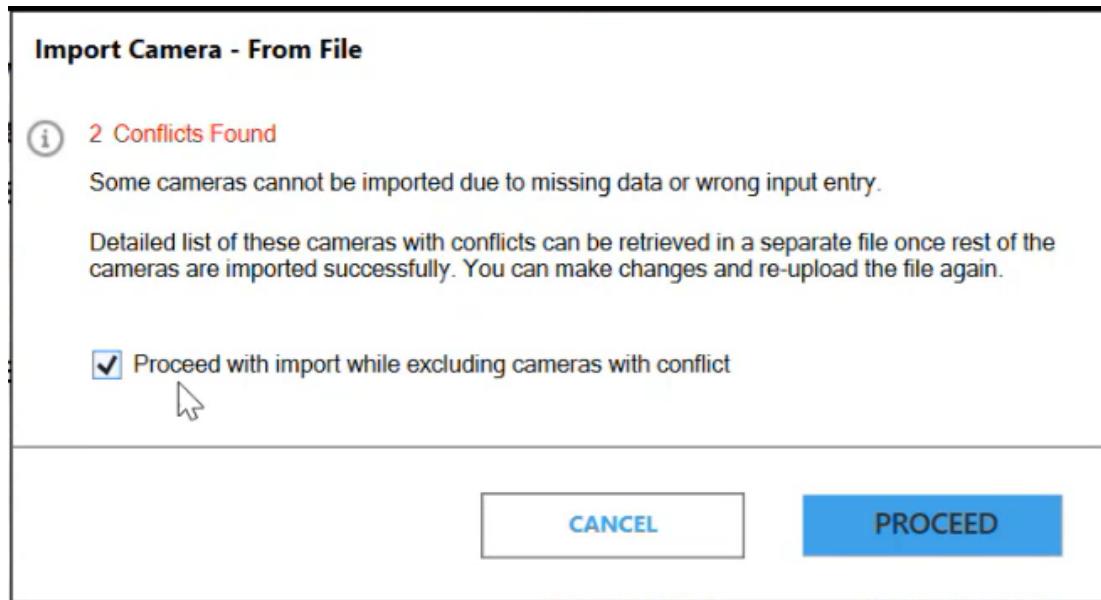


4. Type the password in **Password Protected** box and then click the **PROCEED** button. If there are any duplicate cameras are found then the below confirmation box is displayed.

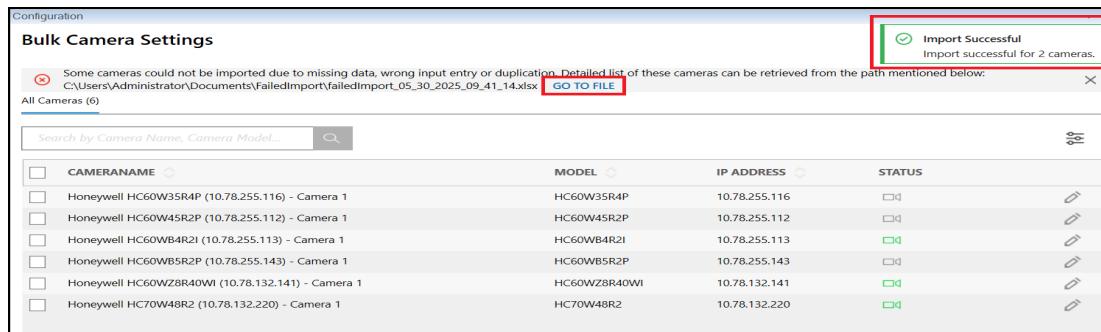
Note: *Handling the Excel Files for Bulk Import/Export* Securely handle the exported Excel file and do not disclose to any unauthorized persons. Even though it is password-protected, the password can be compromised by brute-force attack.



5. User can select the required option to import the Cameras from the sheet and then click **PROCEED**. If there are any conflicts in the data entered then the below confirmation box is displayed.



6. Read the conflicts, select the check box and then click **PROCEED**. The Import Camera in progress message appears. Once the cameras in the excel are successfully imported, a popup **Import Successful for # Cameras** is displayed at the top right corner of the screen.



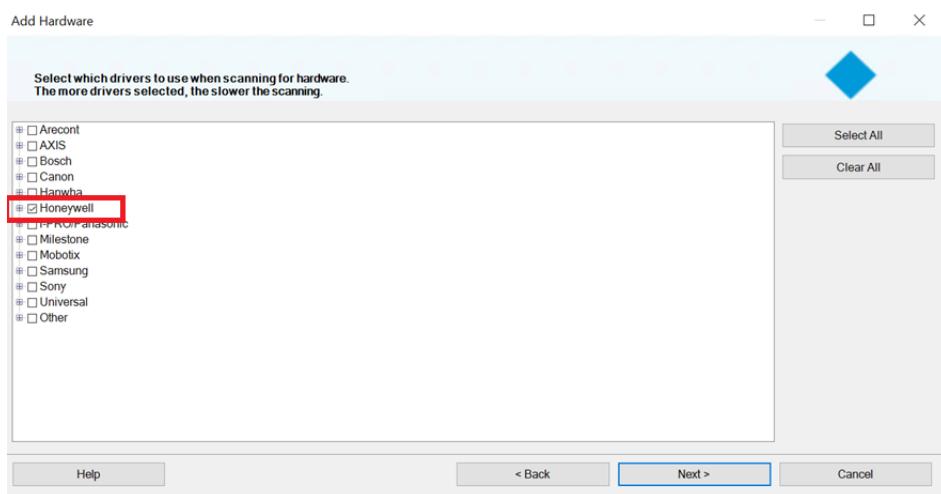
- Once the files is imported, a message displays that the file is generated with details if necessary data is missing or there are wrong inputs or same cameras already available in database. User can click **GO TO FILE** link to view the details.

A	B	C	D	E	F	G	H	I	J	K	L	M	
1	General Error	*IP Address	*User Name	*Password	Camera Name	Recording Server	#Camera	#Input	#Output	#Metadata	#Microphone	#Speaker	Group Prefix
2	Failed to Add	10.78.180.22	admin	P@ssword1	Honeywell HC60 DESKTOP-E4GPN61		5	1	1	1	1	1	
3	Failed to Add	10.78.180.20	admin	P@ssword2	Honeywell HC70 DESKTOP-E4GPN61		5	1	1	1	1	1	
4	Failed to Add	10.78.180.88	admin	P@ssword1	Honeywell HC70 DESKTOP-E4GPN61		5	1	1	1	1	1	
5													

Choosing Driver

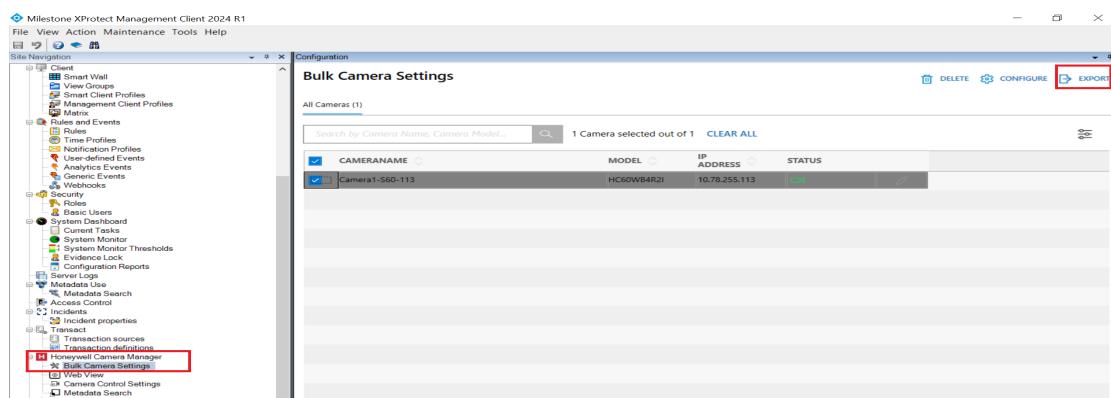
In Milestone XProtect Management Client, users can manually add the cameras by selecting **Honeywell Driver** as the hardware model as shown in the below images.

As Honeywell Driver

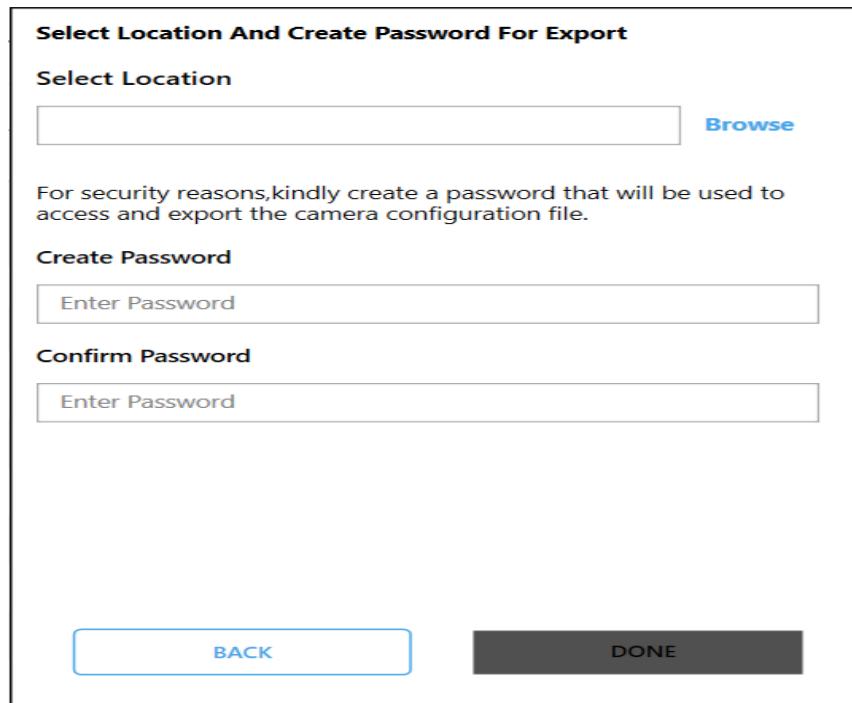


Exporting Cameras

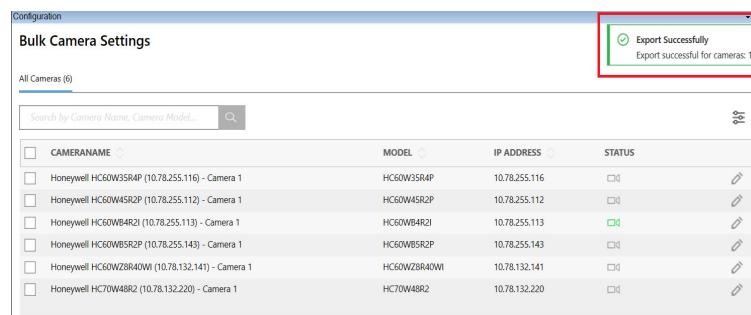
- Under Honeywell Camera Manager, click **Bulk Camera Settings** node. The Bulk Camera settings are displayed on the right pane.



2. Select the required cameras and then click on **Export** link on the top right corner of the screen. The Select **Location and Create Password for Export** dialog box is displayed.

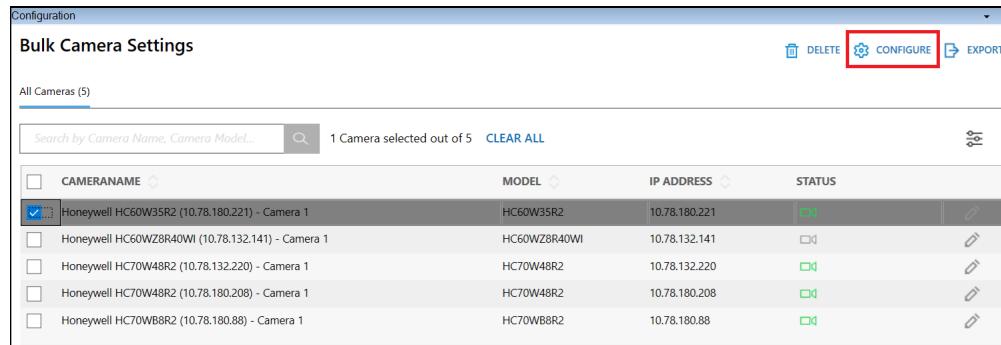


3. Browse the location to save the file.
4. Create and Confirm the Password to protect.
5. Click **Done**. The **Export Successful for # cameras** pop-up appears on the top right corner of the screen.



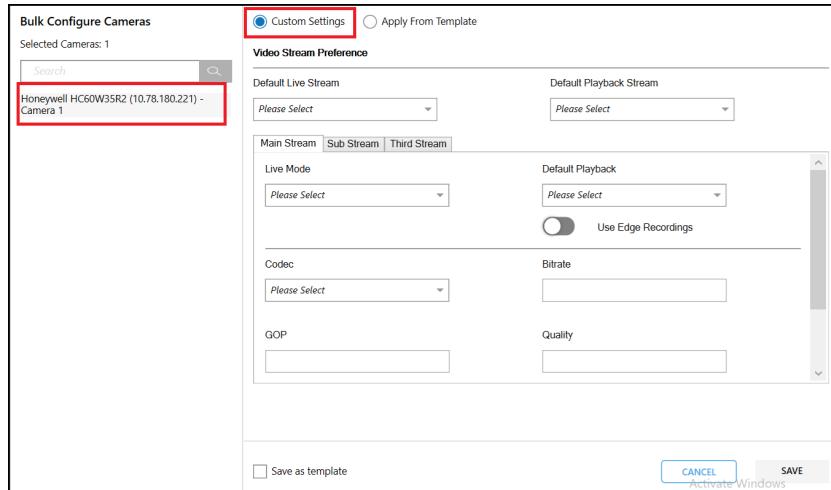
Updating Camera Configurations

1. Under Honeywell Camera Manager, click **Bulk Camera Settings** node. The Bulk Camera Settings screen is displayed.



CAMERANAME	MODEL	IP ADDRESS	STATUS
Honeywell HC60W35R2 (10.78.180.221) - Camera 1	HC60W35R2	10.78.180.221	
Honeywell HC60WZ8R40WI (10.78.132.141) - Camera 1	HC60WZ8R40WI	10.78.132.141	
Honeywell HC70W48R2 (10.78.132.220) - Camera 1	HC70W48R2	10.78.132.220	
Honeywell HC70W48R2 (10.78.180.208) - Camera 1	HC70W48R2	10.78.180.208	
Honeywell HC70WB8R2 (10.78.180.88) - Camera 1	HC70WB8R2	10.78.180.88	

2. Select the required cameras check boxes and then click the **Configure** option.
3. Select any one of the camera model and click continue, the **Custom Settings** screen is displayed as shown below.



4. Customize the details for Video Stream Preferences, and configure the Main Stream, Sub Stream and Third Stream as per the requirements.
5. Click **Save**. The pop-up **Camera Configuration Updated Successfully** appears on the top right corner of the screen.

Configuration			
Bulk Camera Settings			
All Cameras (6)			
<input type="text" value="Search by Camera Name, Camera Model..."/> <input type="button" value="Search"/>			
<input type="checkbox"/> CAMERANAME	MODEL	IP ADDRESS	STATUS
<input type="checkbox"/> Honeywell HC60W35R4P (10.78.255.116) - Camera 1	HC60W35R4P	10.78.255.116	<input type="checkbox"/>
<input type="checkbox"/> Honeywell HC60W45R2P (10.78.255.112) - Camera 1	HC60W45R2P	10.78.255.112	<input type="checkbox"/>
<input type="checkbox"/> Honeywell HC60W84R2I (10.78.255.113) - Camera 1	HC60W84R2I	10.78.255.113	<input checked="" type="checkbox"/>
<input type="checkbox"/> Honeywell HC60WB5R2P (10.78.255.143) - Camera 1	HC60WB5R2P	10.78.255.143	<input type="checkbox"/>
<input type="checkbox"/> Honeywell HC60WZ8R40WI (10.78.132.141) - Camera 1	HC60WZ8R40WI	10.78.132.141	<input type="checkbox"/>
<input type="checkbox"/> Honeywell HC70W48R2 (10.78.132.220) - Camera 1	HC70W48R2	10.78.132.220	<input type="checkbox"/>

To Save the Configuration as a Template

- Click the **Save as Template** check box as highlighted in the below screen, if you want to save the configuration as a template for future use.

Bulk Configure Cameras

Selected Cameras: 1

Honeywell HC60W35R2 (10.78.180.221) - Camera 1

Custom Settings Apply From Template

Video Stream Preference

Default Live Stream	Default Playback Stream
<input type="button" value="Main Stream/Stream 1"/>	<input type="button" value="Main Stream/Stream 1"/>

Main Stream **Sub Stream** **Third Stream**

Live Mode	Default Playback
<input type="button" value="When needed"/>	<input type="button" value="Primary"/>
<input checked="" type="checkbox"/> Use Edge Recordings	

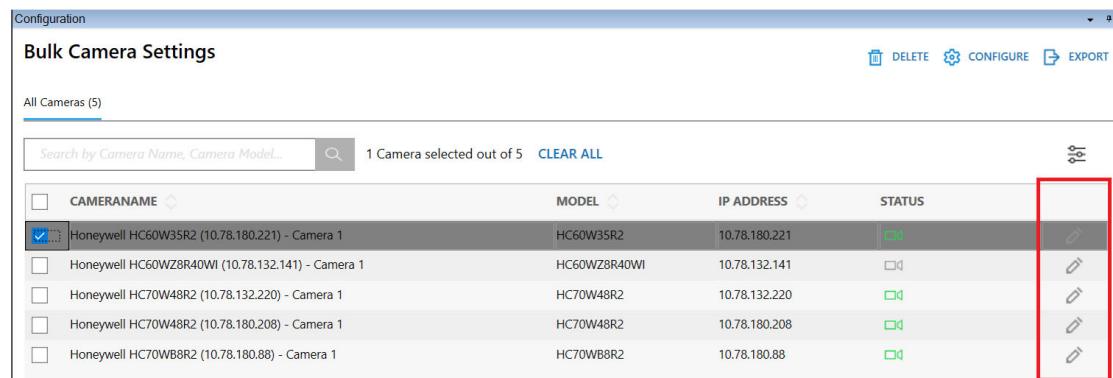
Codec	Bitrate
<input type="button" value="JPEG"/>	1000

GOP	Quality
1	40

Save as template

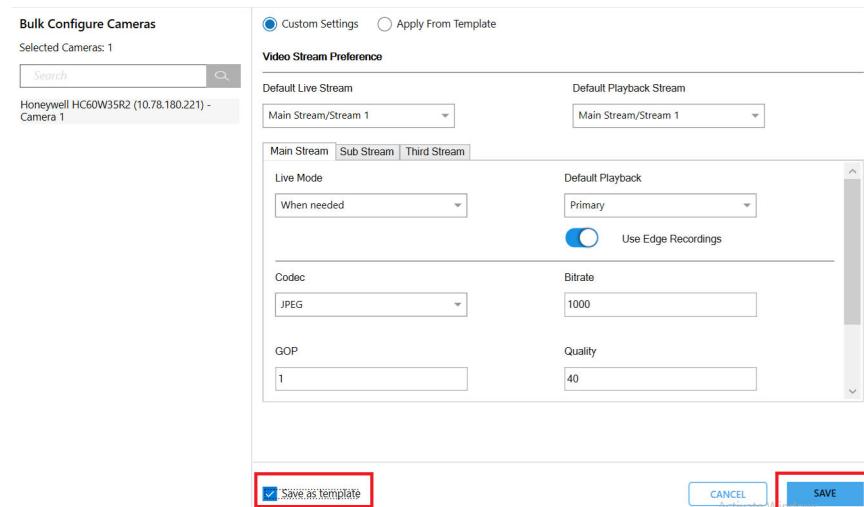
How to Edit Camera Settings and Save as a Template

1. In Bulk camera settings window, select the required camera.



CAMERANAME	MODEL	IP ADDRESS	STATUS	
Honeywell HC60W35R2 (10.78.180.221) - Camera 1	HC60W35R2	10.78.180.221	ON	
Honeywell HC60WZ8R40WI (10.78.132.141) - Camera 1	HC60WZ8R40WI	10.78.132.141	OFF	
Honeywell HC70W48R2 (10.78.132.220) - Camera 1	HC70W48R2	10.78.132.220	OFF	
Honeywell HC70W48R2 (10.78.180.208) - Camera 1	HC70W48R2	10.78.180.208	OFF	
Honeywell HC70WB8R2 (10.78.180.88) - Camera 1	HC70WB8R2	10.78.180.88	OFF	

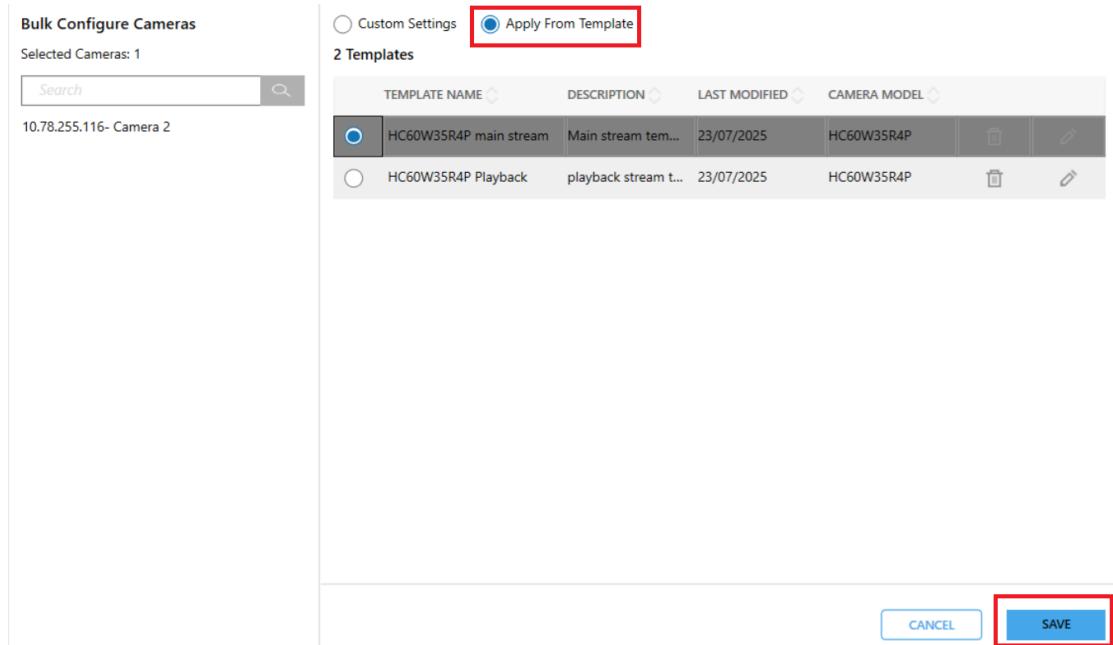
2. Click **Edit** icon. The Custom Setting screen is displayed.
3. Edit or configure the required parameters as shown below.



Apart from configuring the video stream preference user can also customize the Recording Preferences. The video stream preferences are as follows:

Default Live Stream	Default Playback Stream
Live Mode	Default Playback
Codec	Bitrate
GOP	Quality

4. Select the **Save as Template** check box as highlighted above if you want to save the configuration as a template for future use.
5. User can also use the Apply from Template tab to configure the cameras in bulk as shown below.



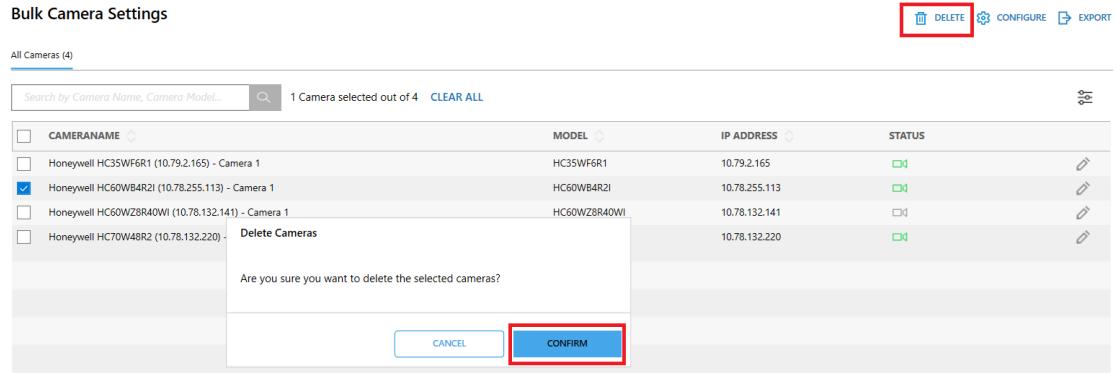
6. Click **Save**, a pop-up message **Camera Configuration Updated Successfully** appears on the top right corner of the screen.

Configuration			
Bulk Camera Settings			
All Cameras (6)			
SEARCH	MODEL	IP ADDRESS	STATUS
<input type="checkbox"/> CAMERANAME	HC60W35R4P	10.78.255.116	<input type="checkbox"/>
<input type="checkbox"/> Honeywell HC60W35R4P (10.78.255.116) - Camera 1	HC60W35R4P	10.78.255.116	<input type="checkbox"/>
<input type="checkbox"/> Honeywell HC60W45R2P (10.78.255.112) - Camera 1	HC60W45R2P	10.78.255.112	<input type="checkbox"/>
<input type="checkbox"/> Honeywell HC60W84R2I (10.78.255.113) - Camera 1	HC60W84R2I	10.78.255.113	<input checked="" type="checkbox"/>
<input type="checkbox"/> Honeywell HC60WB5R2P (10.78.255.143) - Camera 1	HC60WB5R2P	10.78.255.143	<input type="checkbox"/>
<input type="checkbox"/> Honeywell HC60WZ8R40WI (10.78.132.141) - Camera 1	HC60WZ8R40WI	10.78.132.141	<input type="checkbox"/>
<input type="checkbox"/> Honeywell HC70W48R2 (10.78.132.220) - Camera 1	HC70W48R2	10.78.132.220	<input type="checkbox"/>

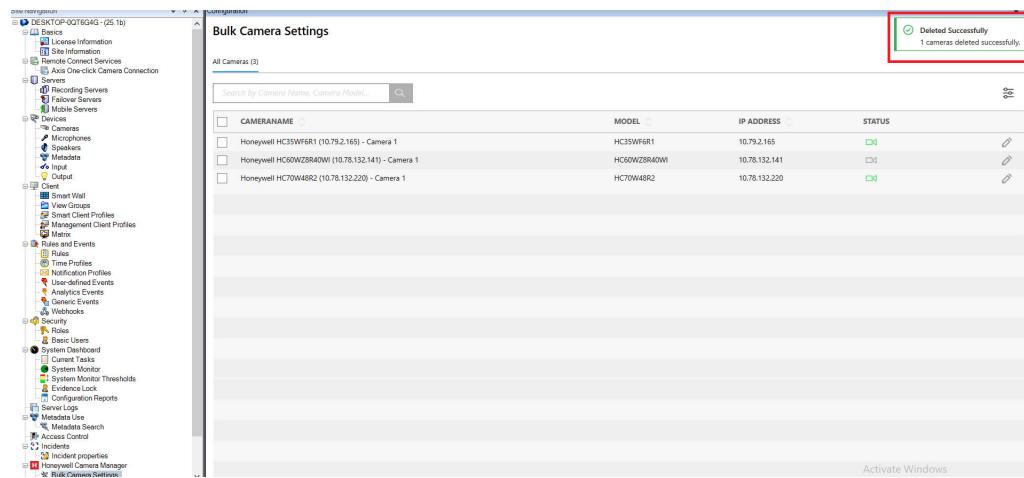
Note: User can cross verify the configuration changes under configuration settings.

Deleting Cameras

1. In Bulk Camera settings page, select the camera and Click **Delete**, the confirmation dialog box appears as shown below.



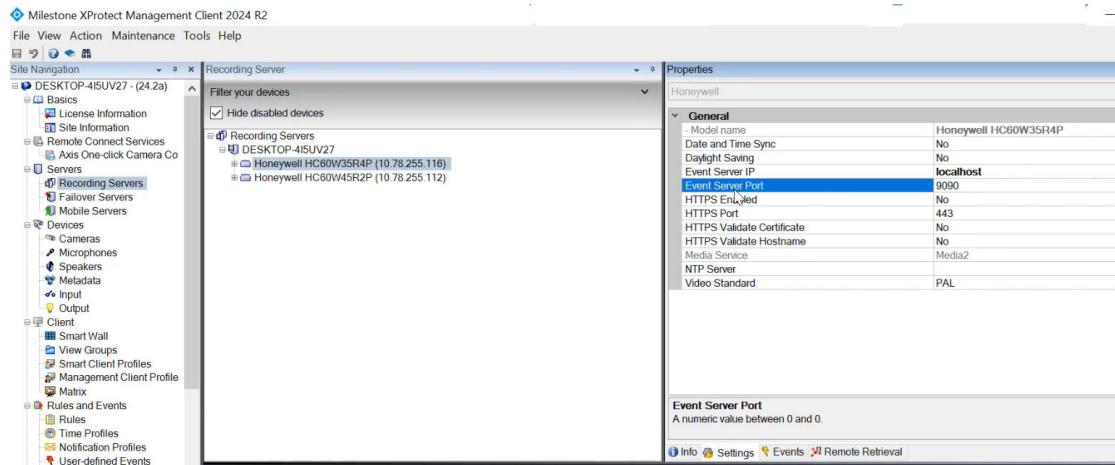
2. Click **CONFIRM**. The **#cameras deleted successfully** pop-up appears on the top right corner of the screen as shown below.



Configuring Event Server Details

Event Server details needs to be configured in order to point the driver to communicate with event server through the IP and Port.

1. Navigate to Server > Recording Servers.
2. Select the required camera.
3. Under Properties > General screen, type the Event Server IP and Port details as shown below.



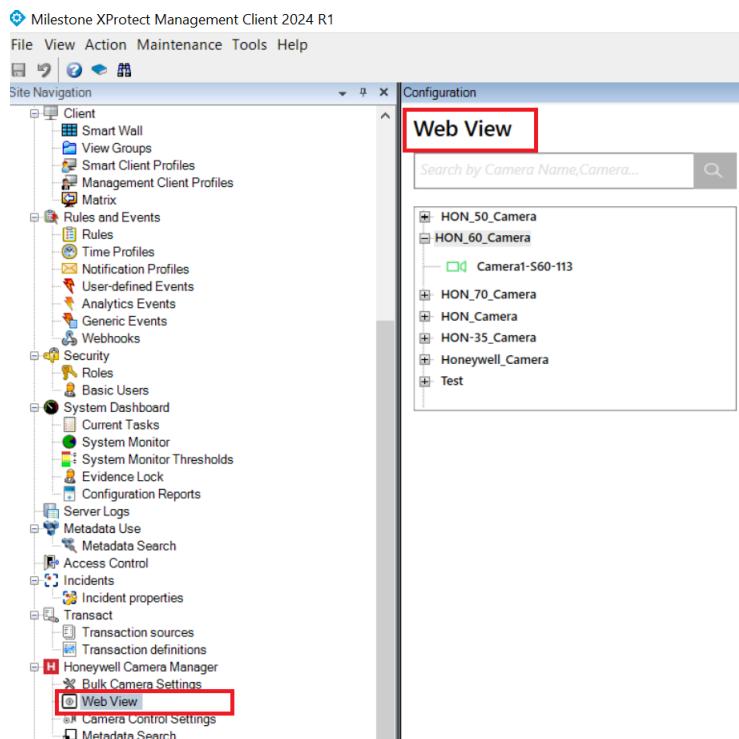
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Web View

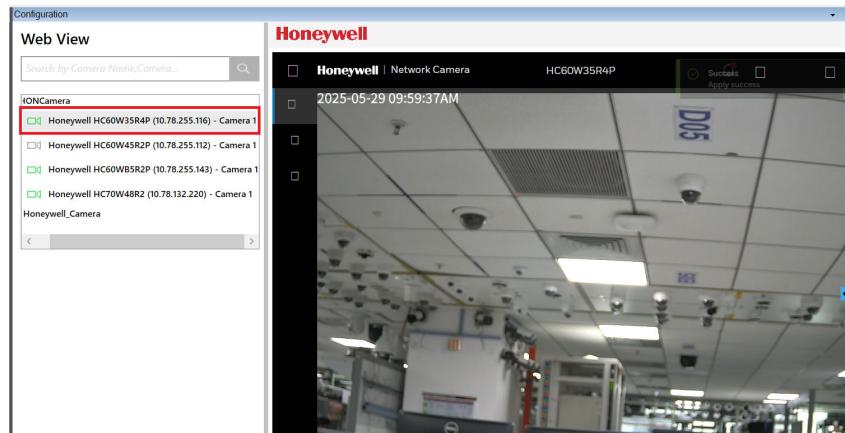
This feature allows the user to view the web page of a camera in a single click. This feature comes with inbuilt capability to auto login and user don't have to enter any camera credentials.

How to View a Camera Web Page

1. In the Milestone XProtect Management Client navigate to Honeywell Camera Manager and click on **Web View** tab the list the of cameras are displayed as shown below.



2. Click on the required camera from the camera list. The specific camera web page is displayed on the right pane as shown below.

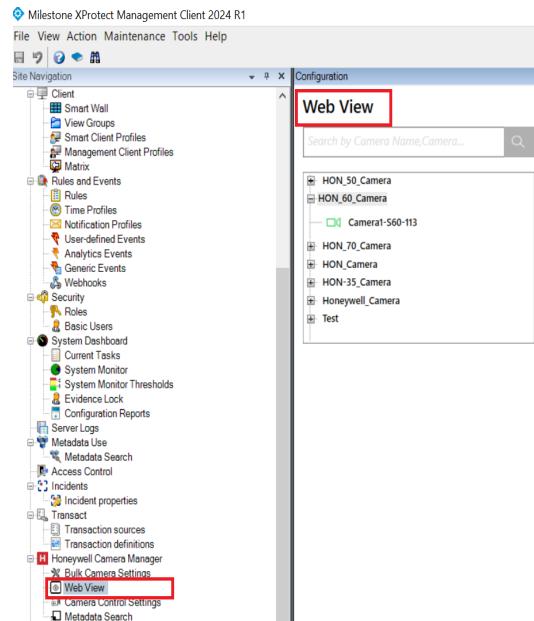


Searching a Camera

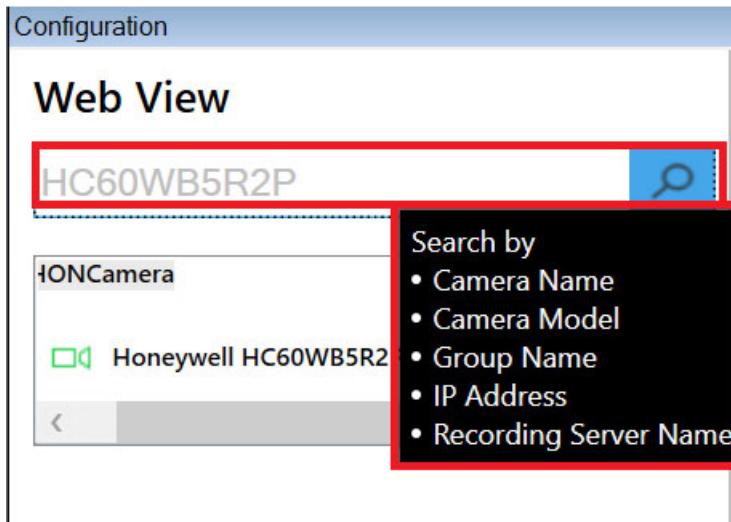
User can search the cameras with IP Address, Camera Name or Server Name in the search bar.

How to Search a Camera

1. In the Milestone XProtect Management Client navigate to Honeywell Camera Manager and click on **Web View** tab the list of cameras are displayed as shown below.



2. In the search box, type the IP Address, Camera Name or Server Name. The corresponding cameras are displayed in the list as shown below.

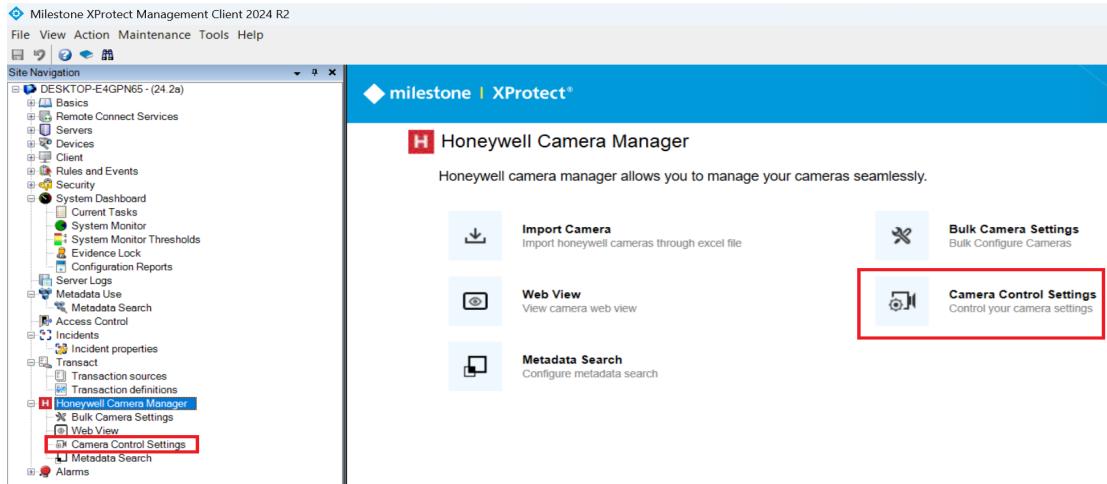


Camera Control Settings

This feature allows to control the functionalities or features which are used in the XProtect Smart Client. Camera control settings includes Video Panel Control and Plugin Camera Control. User can enable it to use these functionalities in the XProtect Smart Client.

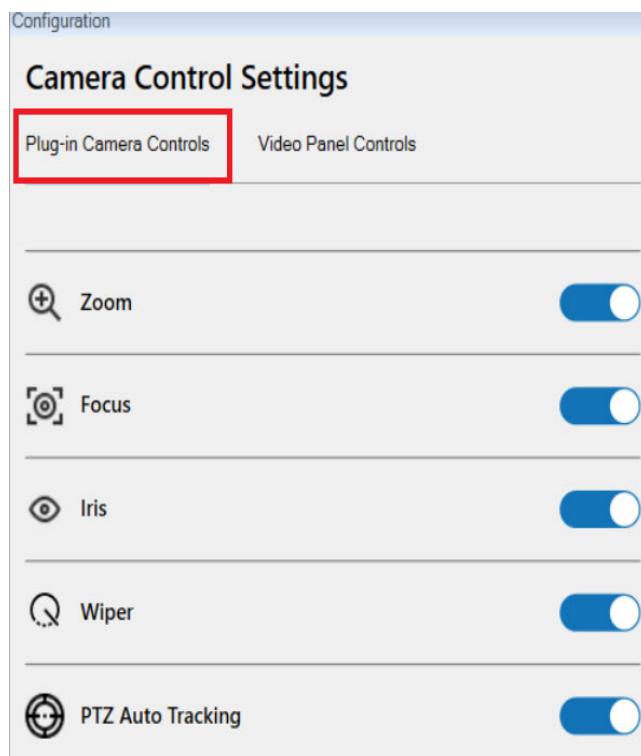
How to Configure the Camera Control Settings

1. In the Honeywell Camera Manger screen, click the **Camera Control Settings** option as shown below.

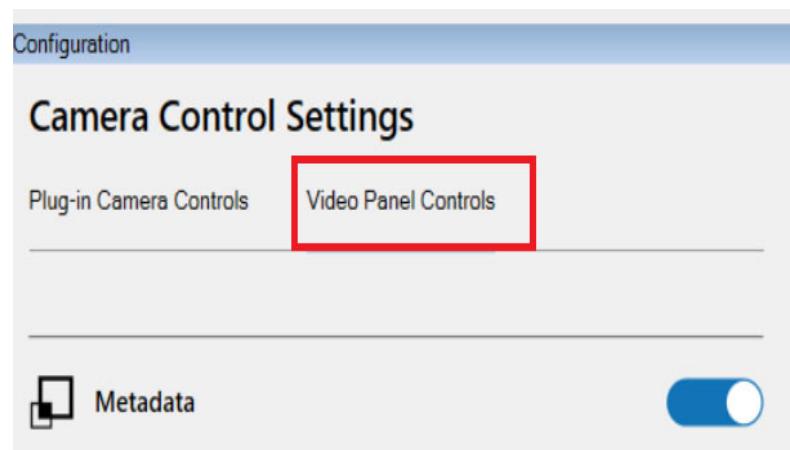


The Configuration box is displayed.

2. Under **Plug-in Camera Controls**, enable the camera control commands button as shown below.



3. Under **Video Panel Control**, enable the Metadata button.



Metadata Search Settings

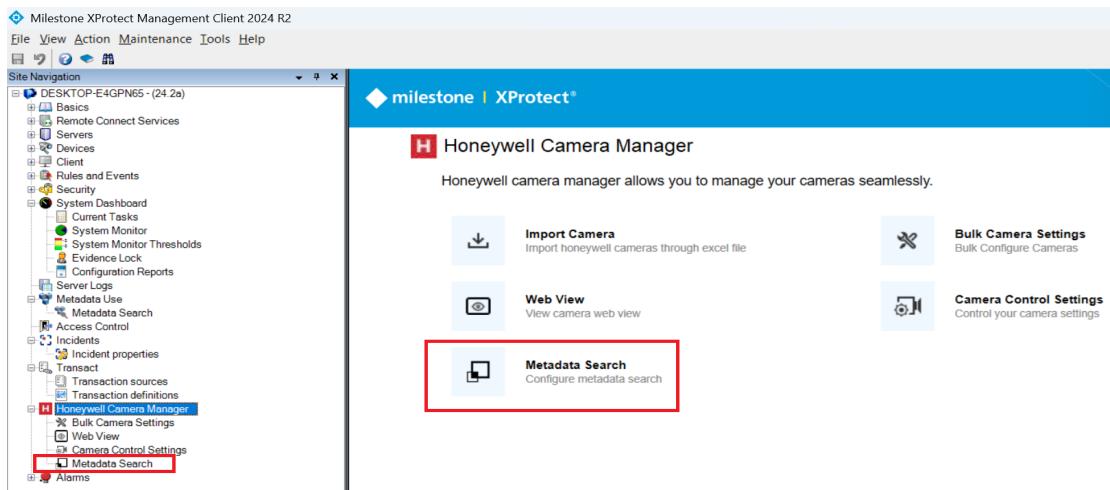
Introduction

This allows the user to configure the following options to use in Milestone XProtect Smart Client application.

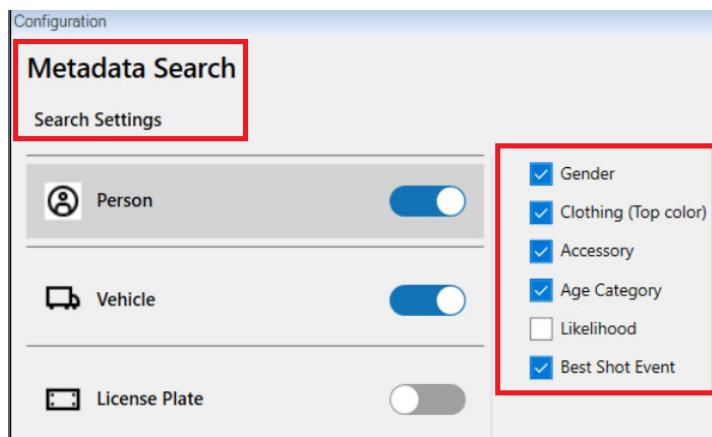
- Person Search
- Vehicle Search
- License Plate Search

How to Configure the Metadata Search Settings

1. In the Honeywell Camera Manager screen, go to **Metadata Search** Settings as shown below.



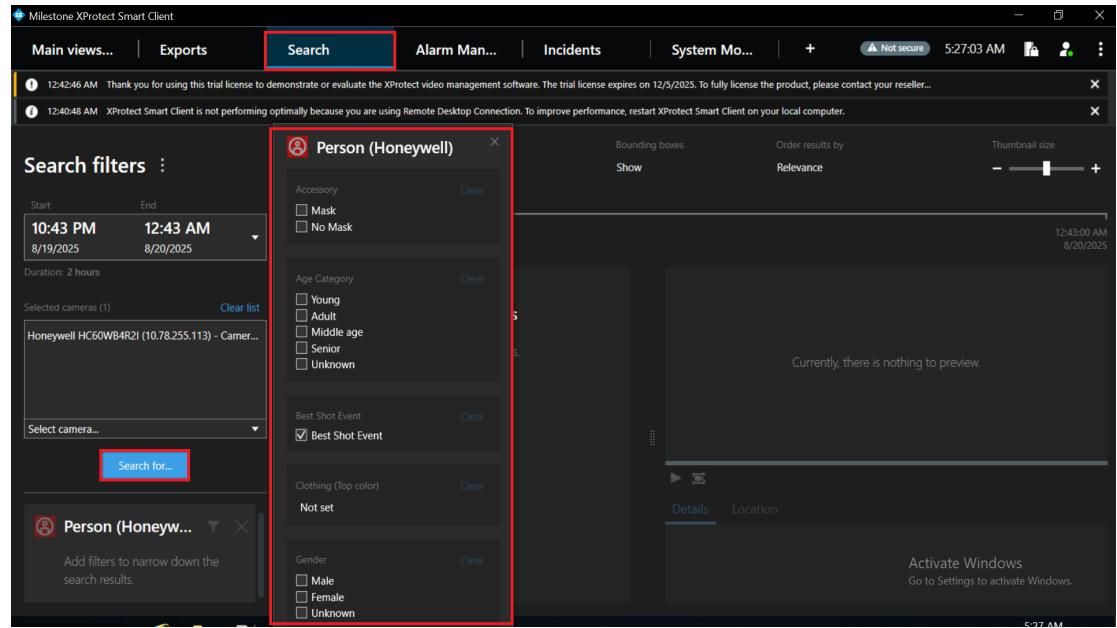
2. Click **Metadata Search** Setting, the Configuration box is displayed.



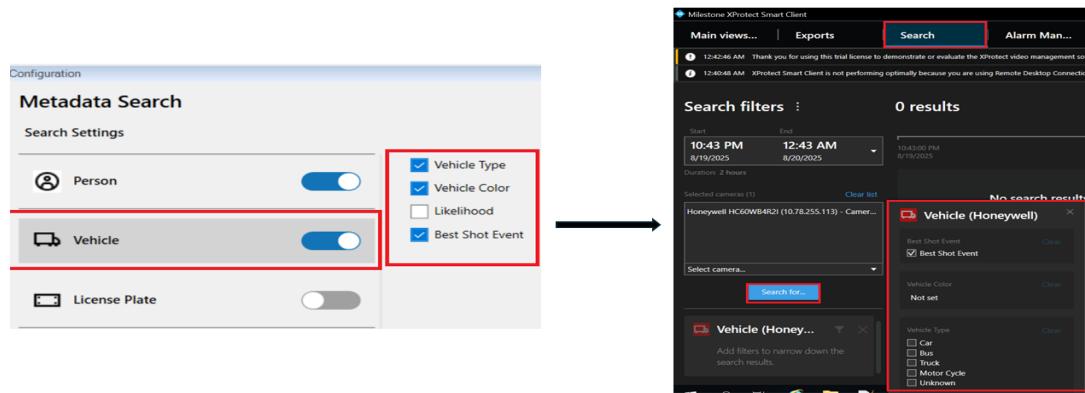
3. Move the toggle buttons to enable and select the required parameters to view the search options in XProtect Smart Client as shown below.

Note: Restart the Smart Client application once to view the changes.

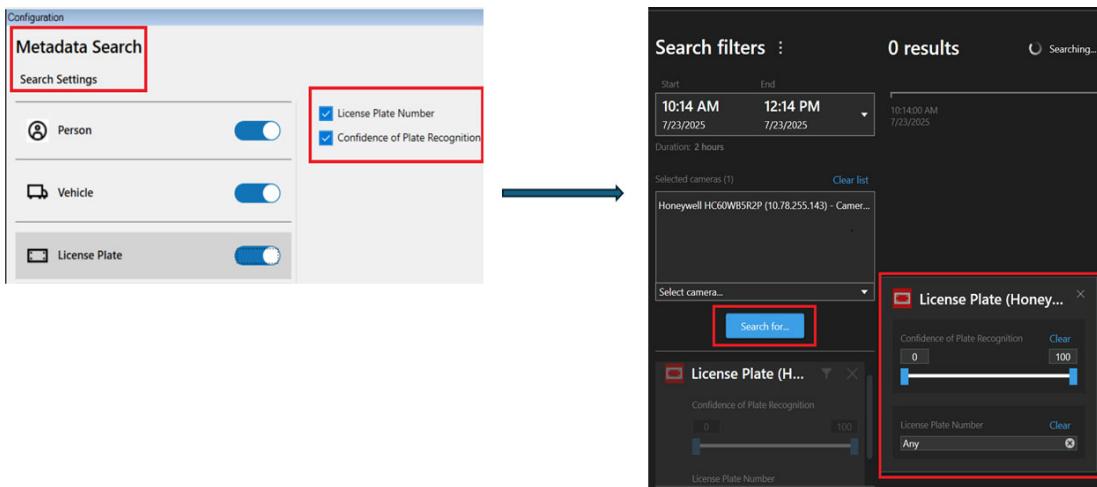
For Person Search



For Vehicle Search



For License Plate Search



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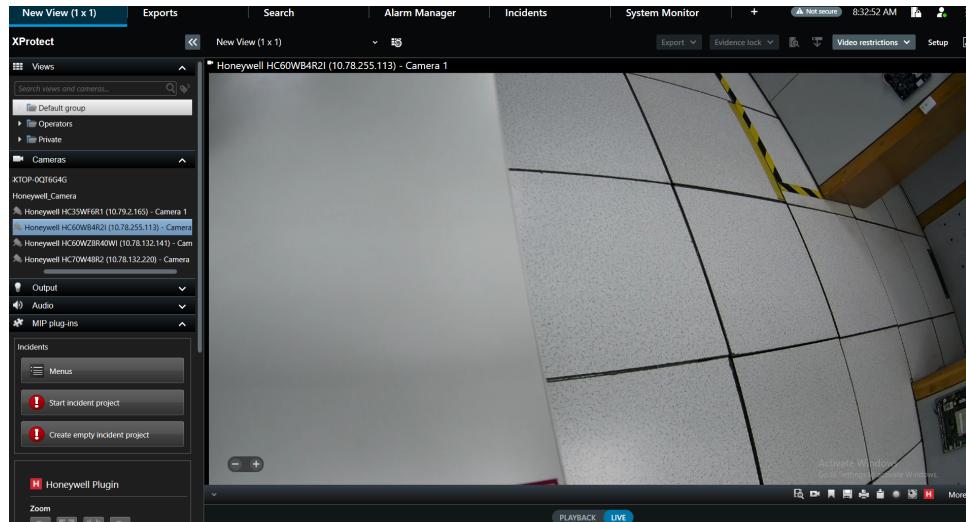
Video Controls

The Milestone XProtect Smart Client allows you to perform the following with Honeywell cameras:

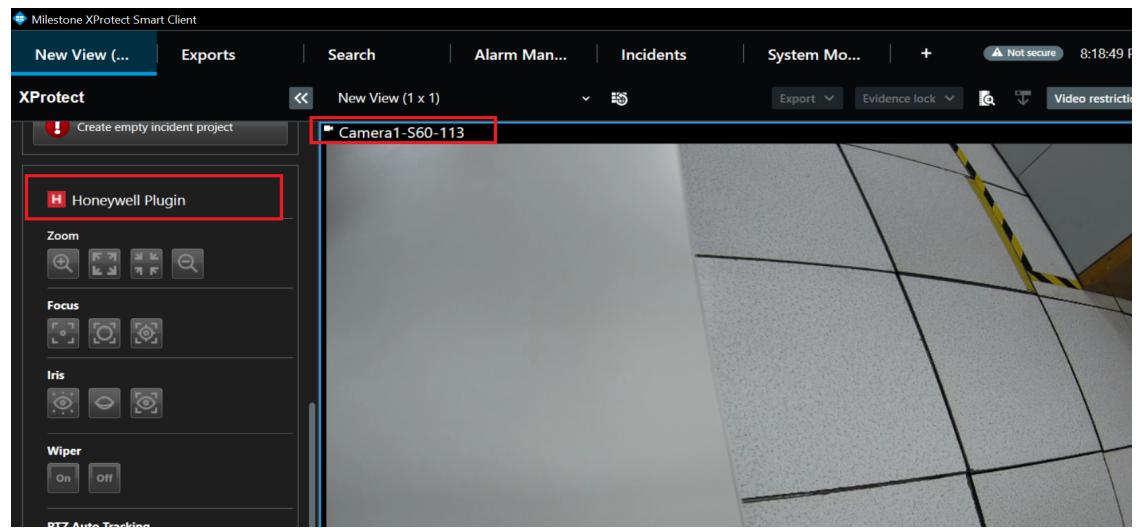
- To view the live and playback video
- To perform Surveillance operations
- To search and view the Video analytics features based on the camera

How to View the Honeywell Cameras in Smart Client

1. Go to Milestone XProtect Smart Client dashboard > **New View**.
2. In the left pane, navigate to Honeywell Cameras. Select the required camera from the list as shown below.



3. Drag and drop the camera on the right video panel. The Honeywell Plug-in commands are enabled in the live view when the Honeywell camera is selected on the main screen as shown below.



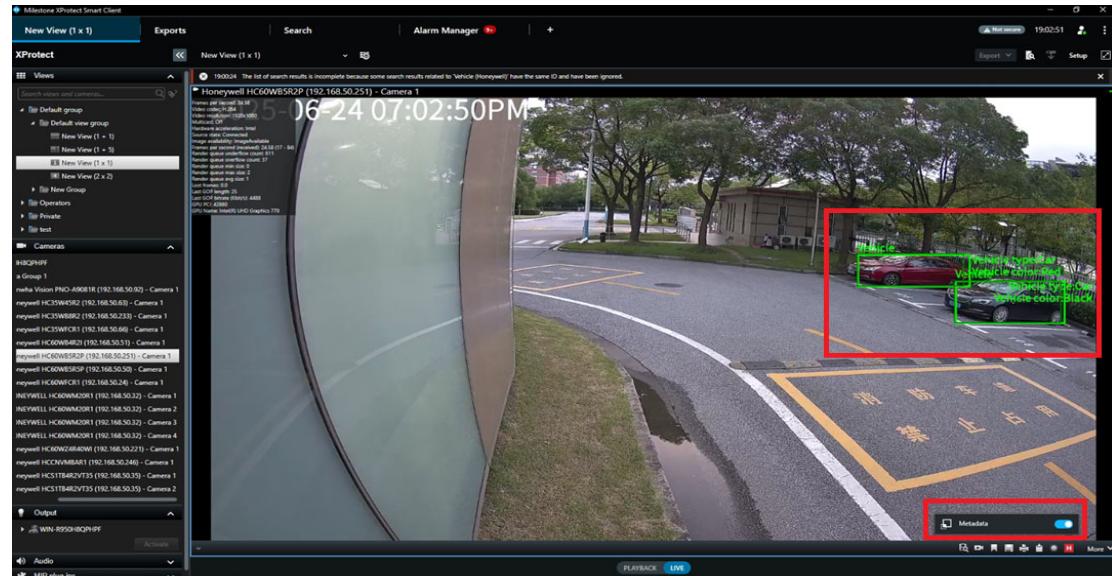
4. Perform the required surveillance operations as explained in the below table.

Icon	Description
Zoom	
	Zoom In
	Zoom Out
	Maximum Zoom
	Minimum Zoom
Focus	
	Focus Far
	Focus Near
	Auto Focus
Iris	
	Increase Iris
	Decrease Iris

Icon	Description
	Auto Iris
Wiper	
	Wiper On
	Wiper Off
PTZ Auto Tracking	
	Auto Tracking

Bounding Box Display

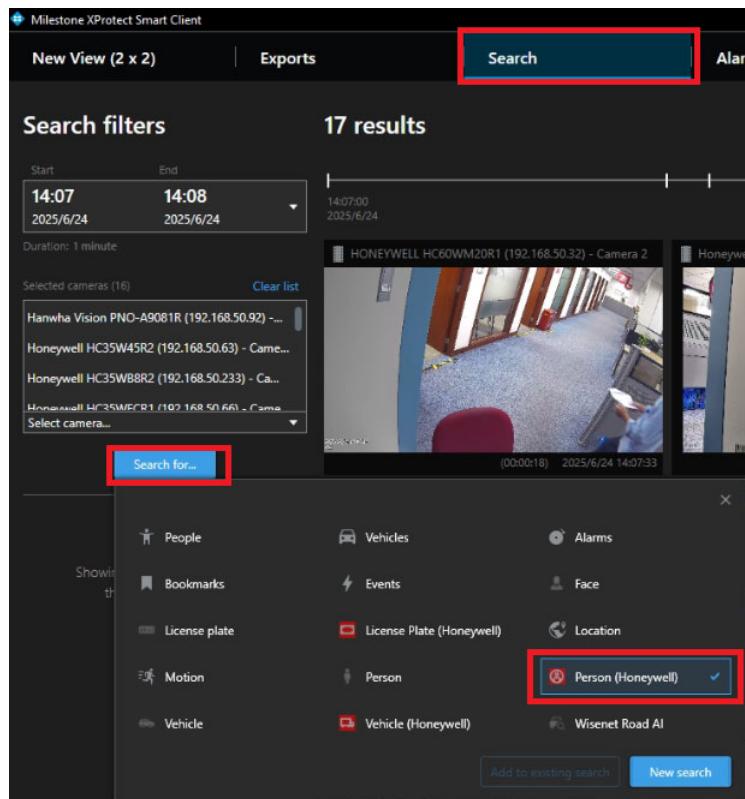
If the **Metadata** options are configured then the User can view the **Bounding Boxes** in the video when an object is detected as shown in the below figure.



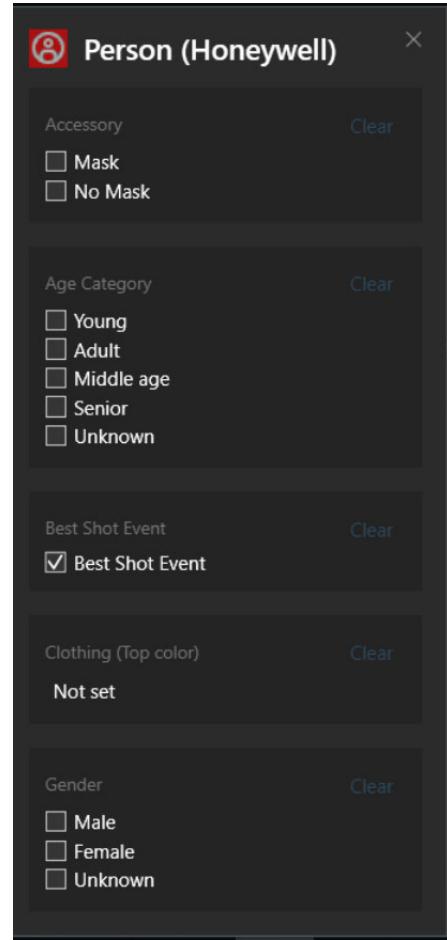
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Person Search

1. Go to Milestone XProtect Smart Client and then click the **Search** tab.
2. Under Search tab, select the required Honeywell camera and then click the **Search For** button. The supported Analytics are displayed for a camera.
3. Select the **Person Search** option and then click on **New Search** as shown below



The Person Search filter dialog box appears as shown below.



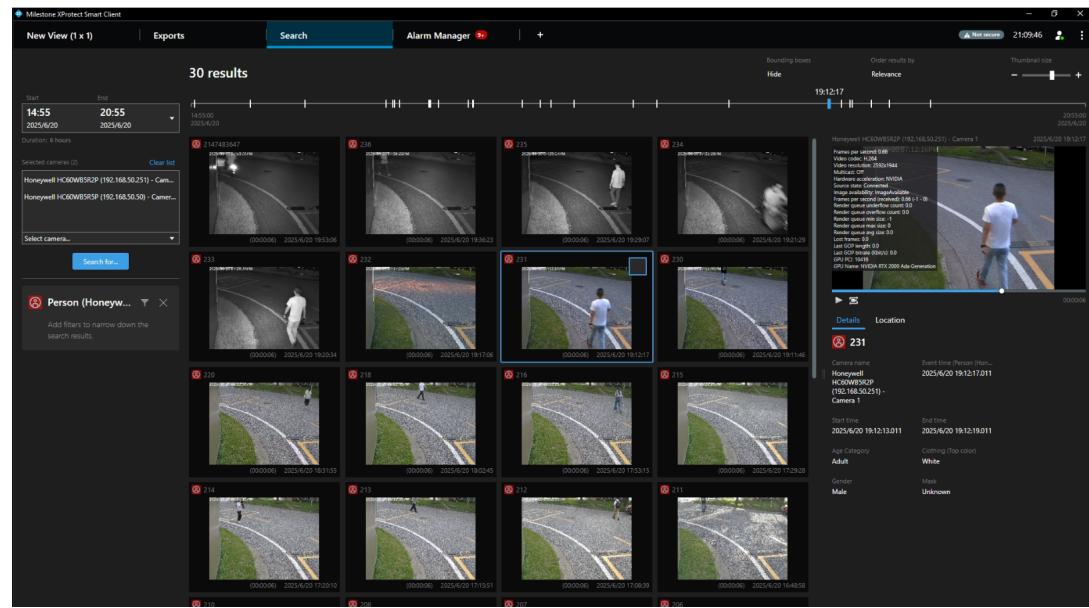
4. Set the required below parameters for Person Search.

- Accessory
- Age Category
- Clothing (Top color)
- Gender
- Likelihood
- Best Shot Event

The best snapshot is for all basic analytics setting. This feature captures the best still cuts of the classified objects (Humans and Vehicles).

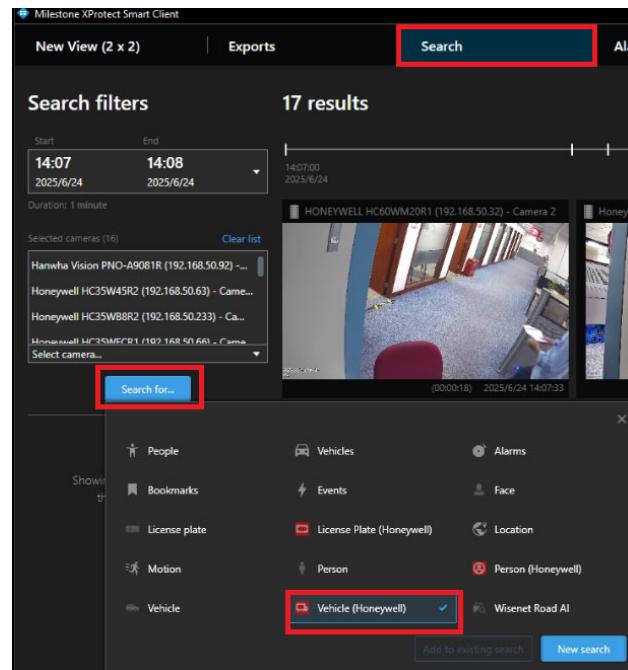
Note: The object should meet the set time and size, and the camera will select the best one to display during the start time and the departure time.

Once the parameters are set, user can view analytics in the video as shown in the below figure. The number of search results are displayed on top left corner of the screen.

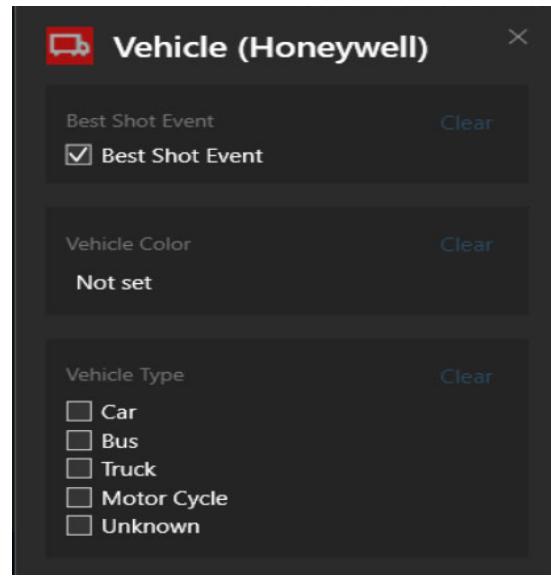


Vehicle Search

1. Go to Milestone XProtect Smart Client and then click the **Search** tab.
2. Under Search tab, select the required Honeywell camera and then click the **Search For** button. The supported Analytics are displayed for a camera.
3. Select the **Vehicle Search** option and then click on **New Search** as shown below.



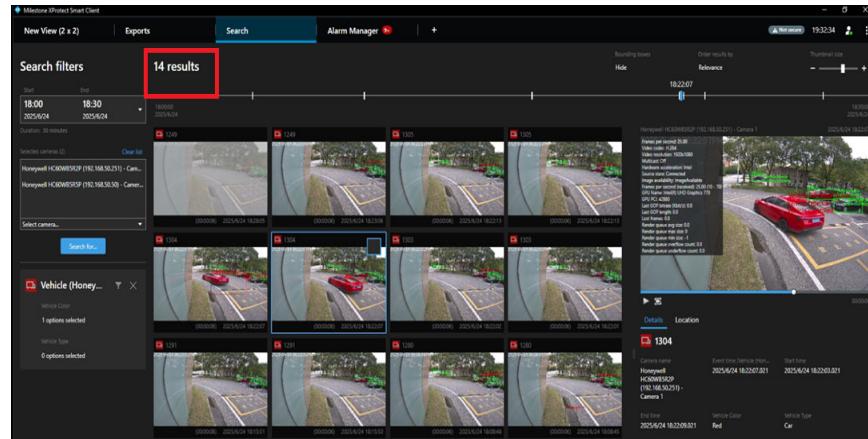
The Vehicle Search filter dialog box appears as shown below.



4. Set the required below parameters for Vehicle Search.

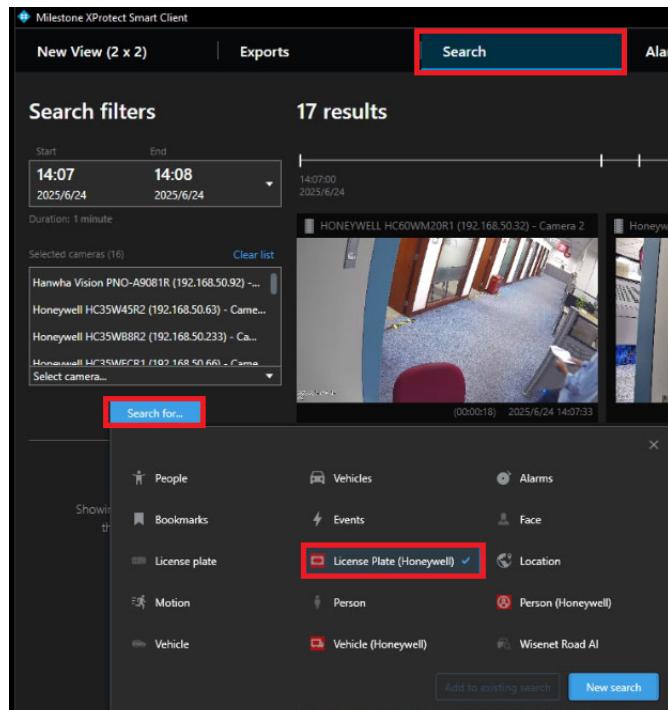
- Vehicle Color
- Vehicle Type
- Likelihood
- Best Shot Event

Once the parameters are set, user can view analytics in the video as shown in the below figure. The number of search results are displayed on top left corner of the screen.

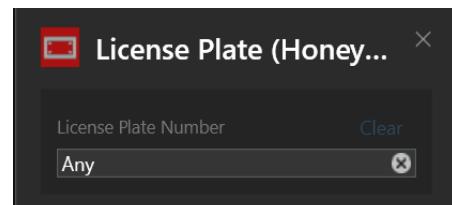


License Plate Search

1. Go to Milestone XProtect Smart Client and then click the **Search** tab.
2. Under Search tab, select the required Honeywell camera and then click the **Search For** button. The supported Analytics are displayed for a camera.
3. Select the **License Plate** option and then click on **New Search** as shown below.

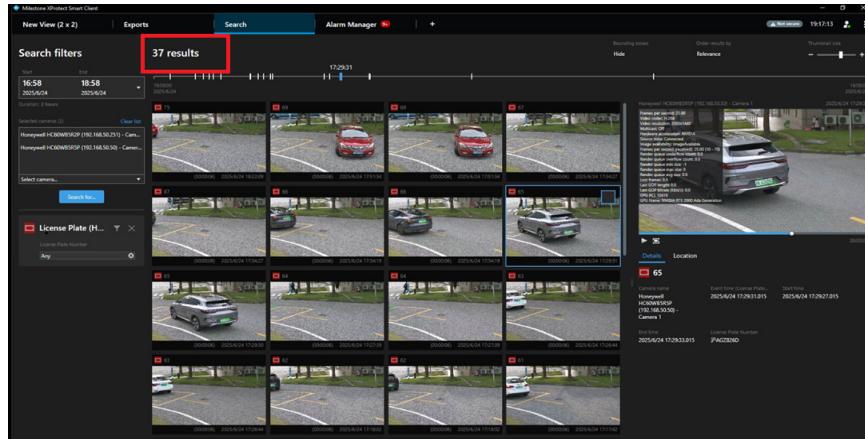


The License Plate filter dialog box appears as shown below.



4. Set the required below parameter for license plate.
 - License Plate Number

Once the parameters are set, user can view analytics in the video as shown in the below figure. The number of search results are displayed on top left corner of the screen.



License Plate Settings

License Plate recognition is an exclusive camera recognition feature which is now supported in Milestone XProtect Management Client through Honeywell Camera Manager plug-in. It is based on the intelligence of LPR featured camera. The events from LPR enabled camera is systematically managed in Milestone application.

License Plate enabled camera automatically detects and captures the image of license/number plate of a vehicle, categorizes it whether authorized or unauthorized and then generates an event in Milestone Smart Client application.

You can use this feature to take the following actions such as:

- Track authorized or unauthorized vehicle entry
- Searching/viewing the video clip of specific license plate vehicle
- Maintaining the records of vehicles entered or exited in a building
- Helping in investigating a crime scenario and so on.

Prior using this feature, user need to configure the following:

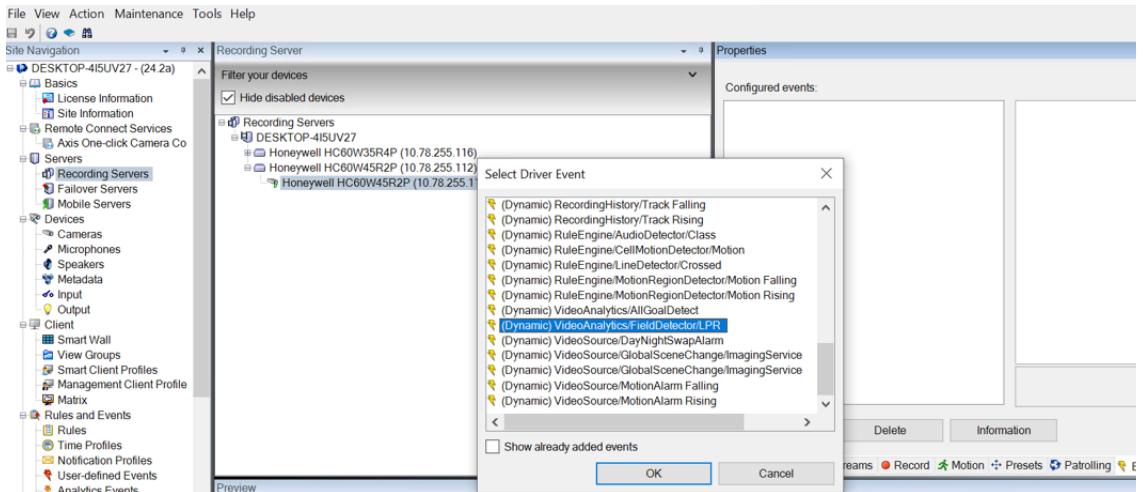
- Ensure to install the Client and Event Server plug-in as explained in [Installing Honeywell Camera Manager Plugin & Driver](#) step 3.
- Add the camera with Honeywell Driver as explained in [Importing Cameras](#) and [Choosing Driver](#) sections.
- Add VideoAnalytics/FieldDetector/LPR" event in Camera Events Tab.
- Enable "Analytics Events" option in Management client
- Event server detail needs to be updated when user installs Event server in different server machine. These settings can be updated in camera hardware settings tab. See [Configuring Event Server Details](#) section.

Steps to configure License Plate Settings in Milestone application

1. Add LPR Event
2. Enable Analytics Events option
3. Add License Plates
4. Create New LPR Group
 - Authorized Group
 - Unauthorized Group
5. View the Events in Smart Client

Adding LPR Event

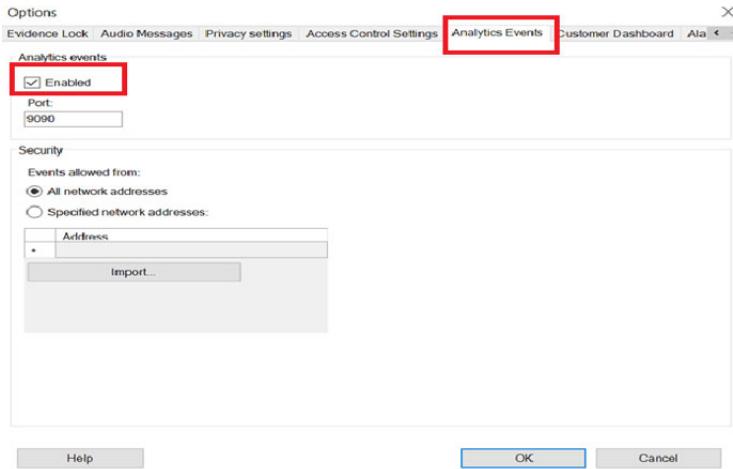
1. Navigate to the Milestone XProtect Management Client application.
2. Under Recording Servers, select the required camera.
3. Under Properties, click the Events tab. The Select Driver Event dialog is displayed.



4. Select VideoAnalytics/FieldDetector/LPR" event and then click Save.

Enabling Analytics Events option

1. Launch XProtect Management Client 2024 R2 application.
2. Click Tools menu and then choose Options. The Options dialog box is displayed.



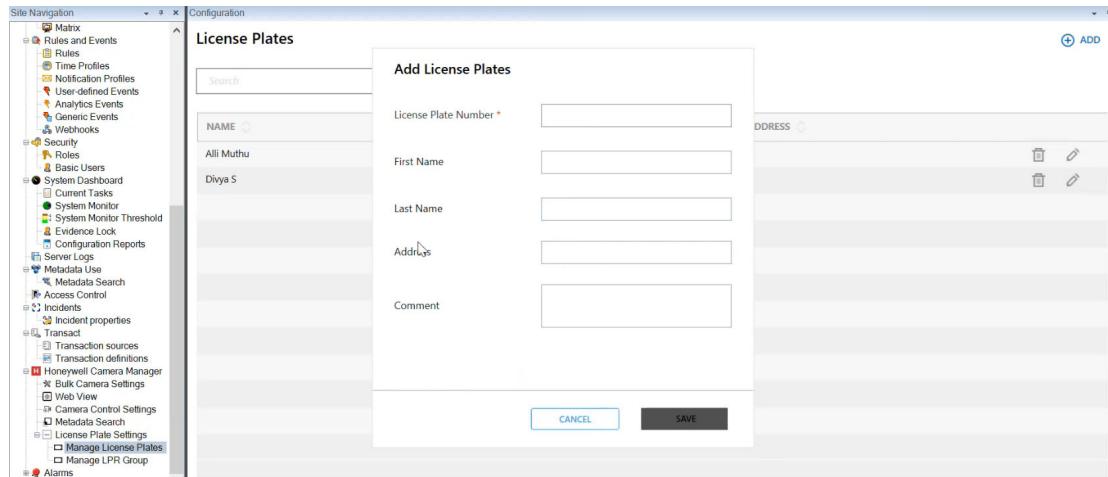
3. Click the "Analytics Events" tab and then select the "Enabled" Check box.
4. Click OK.

Update the Event Server Details

Event Server detail needs to be updated when user installs Event server in different server machine. These settings can be updated in camera hardware settings tab. See [Configuring Event Server Details](#) section.

Adding License Plates

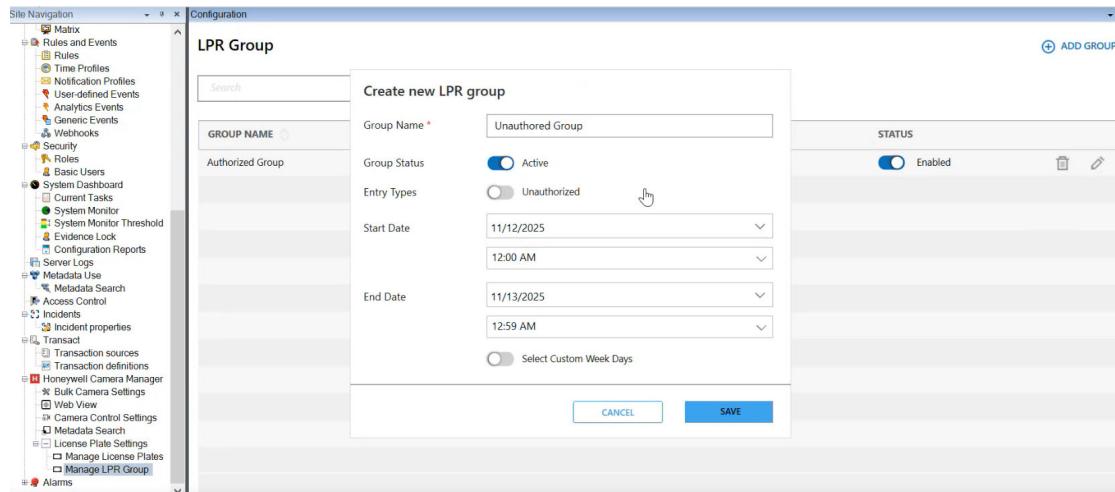
1. Navigate to the Milestone XProtect Management Client application.
2. Navigate to Honeywell Camera Manager and then click Manage License Plate node.
3. On the right pane click Add on top right corner. The Add License Plate screen is displayed.



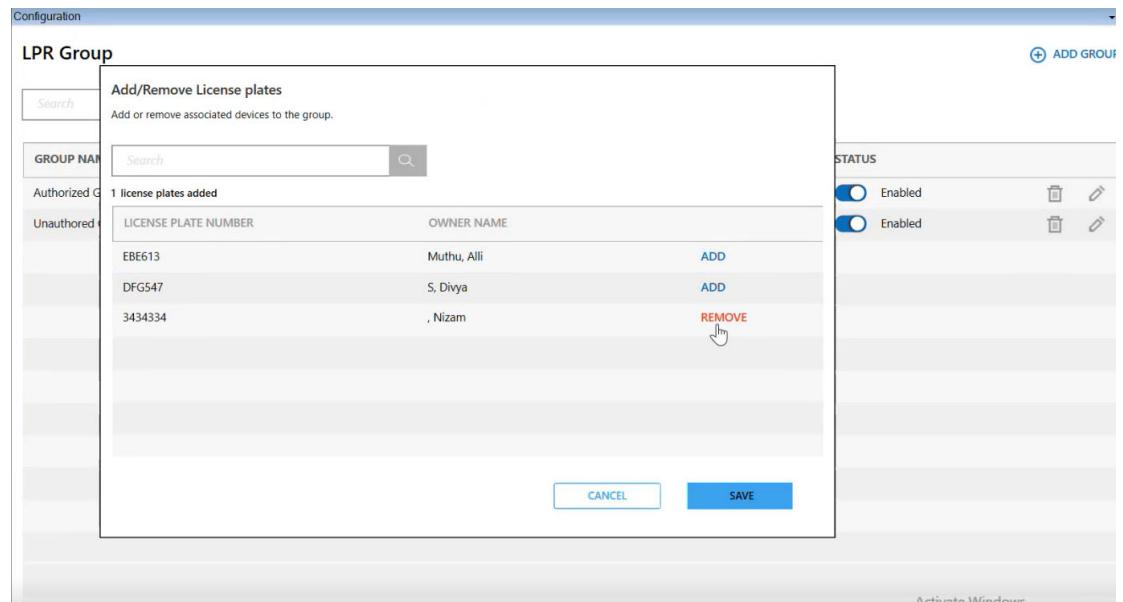
4. Type the License Plate Number.
5. Enter the details of First Name, Last Name, Address and comments if any.
6. Click Save. Similarly you can add required number of license plate numbers

Creating License Plate Groups

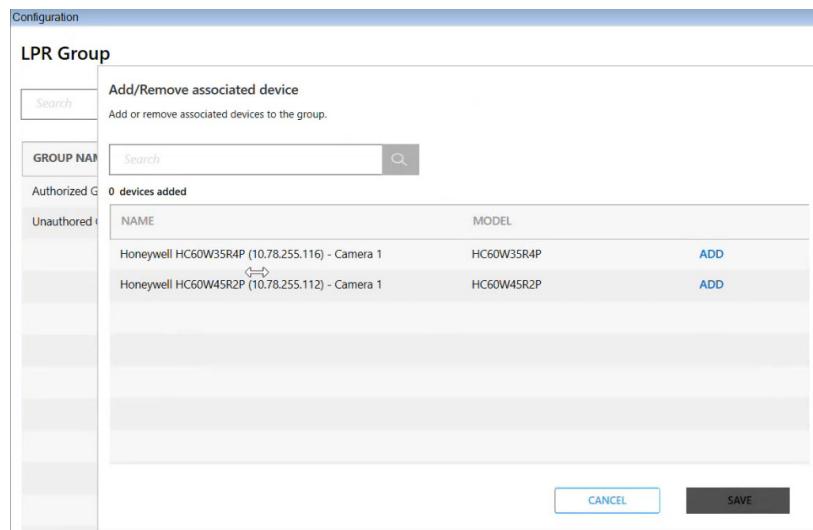
1. Navigate to the Milestone XProtect Management Client application.
2. Navigate to Honeywell Camera Manager and then click Manage LPR Group node.
3. On the right pane, click ADD GROUP link on the top right corner.



4. Perform the following:
 - a. Type the Group Name (Authorized or Unauthorized)
 - b. Enable the Group Status toggle button to active
 - c. Move the toggle button to categorizes as authorized or unauthorized
 - d. Define the start and end date and time
 - e. If required, enable the Select Custom Week Days toggle button to define the custom date, time and duration.
6. Click Save.
7. In the LPR Group screen, under Number Plates column, click ADD for the newly created group.



8. For the newly added number plate row, click ADD to associate the license plate number. Similarly you can do multiple number plates
9. Click Save.
10. In the LPR Group screen, under DEVICES column, click ADD for the newly created group.



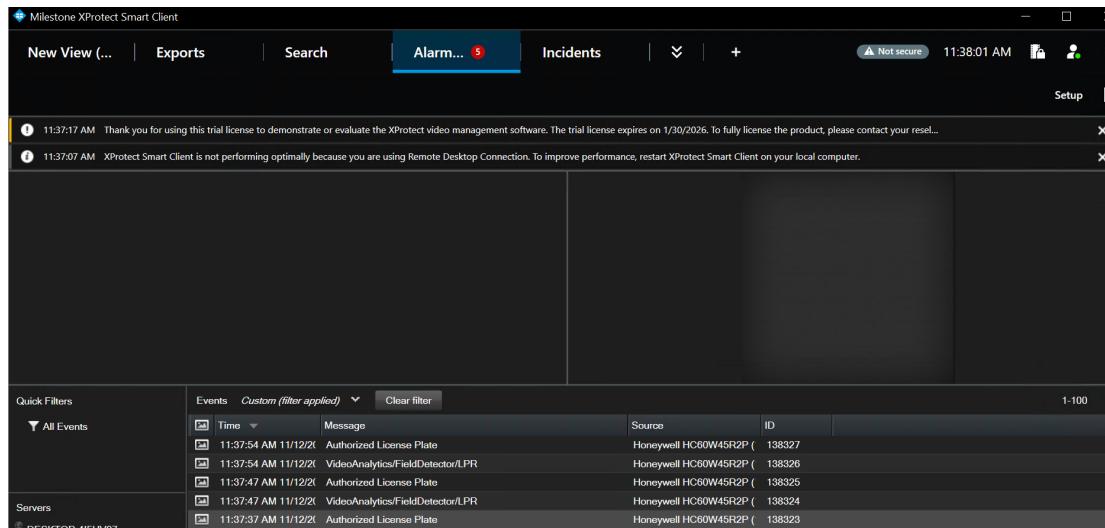
11. Click the required ADD button to associate the camera for the newly added group.
12. Click Save.

13. In the LPR Group screen, ensure the STATUS column is enabled for the required groups. In addition you can click the edit and delete icons to edit the group details.

Note: If the License Plate Number is part of both authorized and unauthorized group, then unauthorized group will take the priority.

Viewing the License Plate Events

1. Launch Milestone XProtect Smart Client application.
2. Click the Alarms tab. At the bottom of the screen user can view the list of alarms from the associated cameras as shown below.



The screenshot shows the Milestone XProtect Smart Client interface. The top navigation bar includes 'New View (...)', 'Exports', 'Search', 'Alarm...', 'Incidents', and 'Setup'. The 'Alarm...' tab is selected, indicated by a blue background and a red notification badge with the number '5'. Below the navigation bar, there are two status messages: one about a trial license and another about performance issues with Remote Desktop Connection. The main area is a large, empty black space. At the bottom, there is a table titled 'Events' with a 'Custom (filter applied)' dropdown and a 'Clear filter' button. The table has columns for 'Time', 'Message', 'Source', and 'ID'. It lists several events, all of which are 'Authorized License Plate' messages from 'Honeywell HC60W45R2P' cameras. The table shows 1-100 events.

Time	Message	Source	ID
11:37:54 AM 11/12/20	Authorized License Plate	Honeywell HC60W45R2P (138327
11:37:54 AM 11/12/20	VideoAnalytics/FieldDetector/LPR	Honeywell HC60W45R2P (138326
11:37:47 AM 11/12/20	Authorized License Plate	Honeywell HC60W45R2P (138325
11:37:47 AM 11/12/20	VideoAnalytics/FieldDetector/LPR	Honeywell HC60W45R2P (138324
11:37:37 AM 11/12/20	Authorized License Plate	Honeywell HC60W45R2P (138323

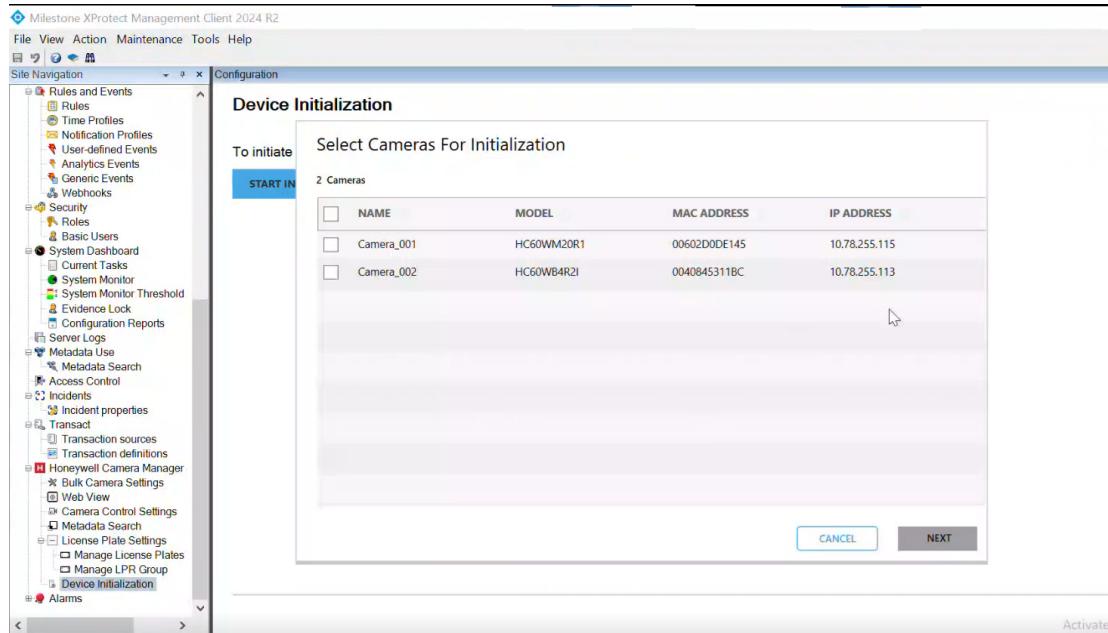
Device Initialization

Device initialization feature from Honeywell Plug-in allows user to initialize a new or factory default state Honeywell cameras so that it can be discovered and used in Milestone application. This avoids user to depend on other third party tools. User need to configure the required camera in Milestone application to get discovered and added.

How to Initialize a Device

Note: Ensure the camera is in factory default state.

1. In the Milestone XProtect Management Client application, navigate to Honeywell Camera Manager and then click Device Initialize node. The Device Initialization screen is displayed on the right pane.
2. Click Start Initialization. The system starts discovering cameras and displays the Select Camera for Initialization screen is displayed with the default cameras available.



3. Select the required camera check box or multiple cameras or in bulk and then click Next. The Define Credentials screen is displayed.

Define Credential

Define Username

Create Password

Confirm Password

Your password must have:

The password must be between 8 to 20 characters
Upper & lower case letters
At least one number
One of the symbols: -_!.*
The first character must be a number or letter
No space

4. Define the Username and create Password as per the criteria mentioned.
5. Click the Initialize button. A message pops up on the top right corner that the Device Initialization is successful. Once the initialization is done, launch the camera web page to view the login page.
6. Proceed to add and discover the camera using Recording Server option as explained in [Bulk Camera Configurations](#) chapter.

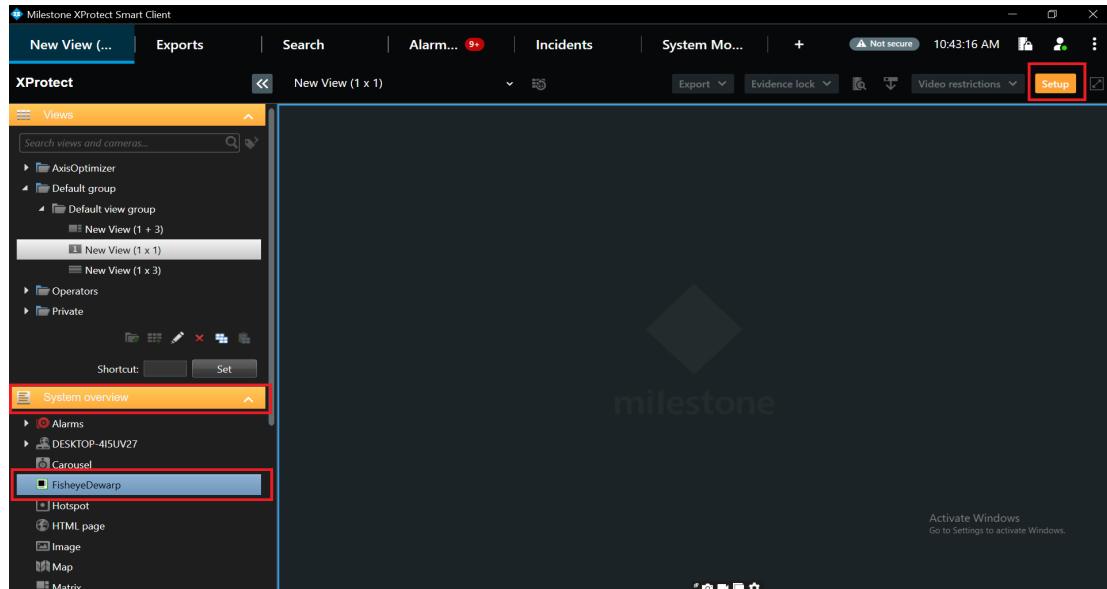
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Note: This feature can be used on XProtect Smart Client machines which has GPU.

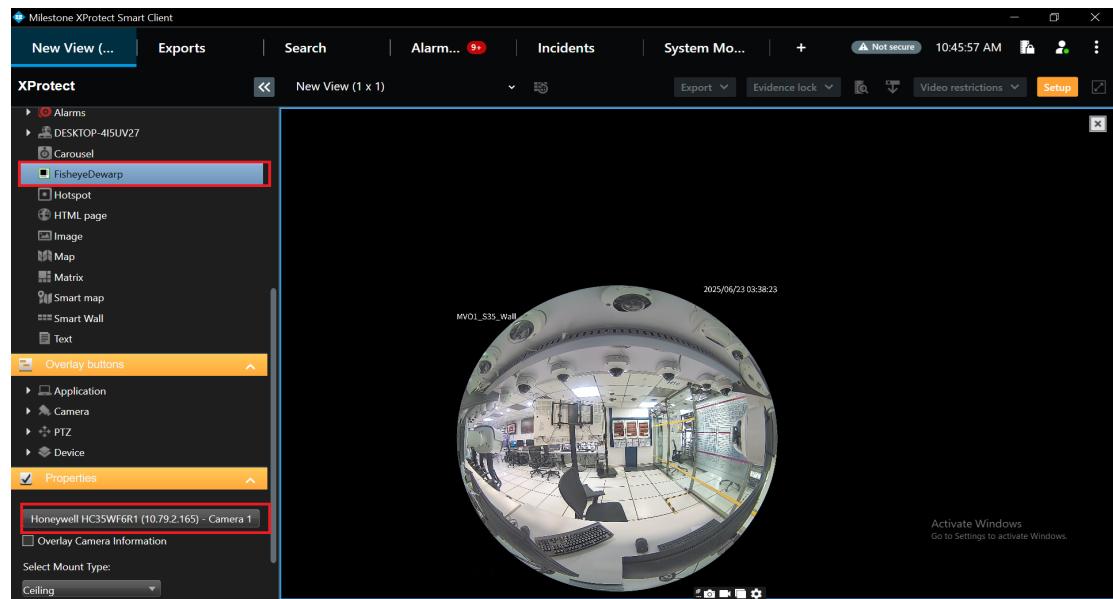
If the camera supports the Fisheye function, set the Fisheye mode to the original mode before using the plug-in.

How to Configure the Fisheye Dewarping

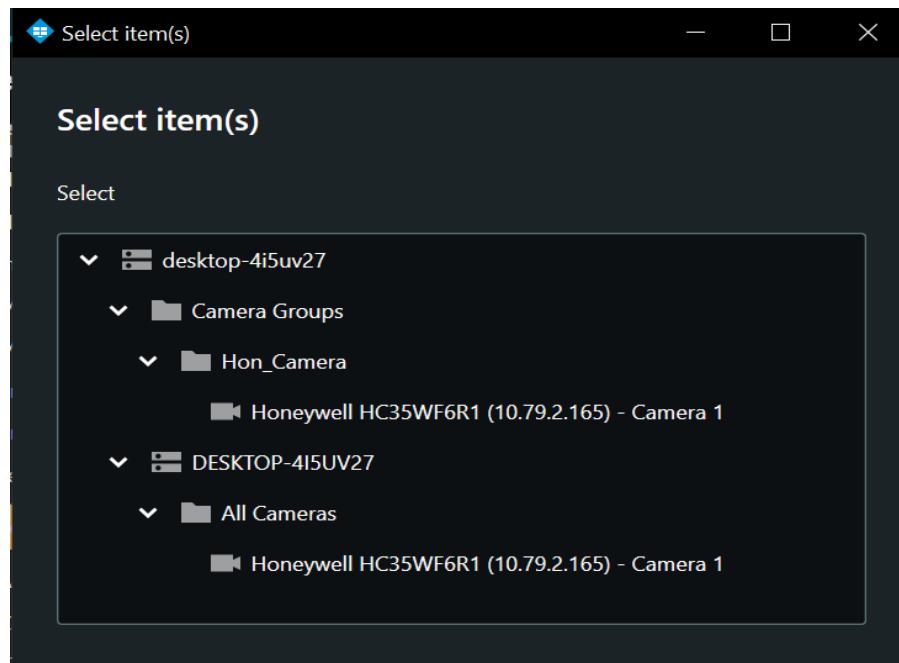
1. Start the **XProtect Smart Client**.
2. On the Live View window, click on **Setup**.
3. In the Setup window, the **Fisheye Dewarp** plug-in can be found in the System Overview pane.



4. Click and drag Fisheye Dewarp Plug-in into the view cell. After completion, there is an X icon in the upper right corner of the view cell, and parameter settings are added to the property pane in the lower left corner.



5. Under properties, click on cameras and then select the required camera from the drop-down list as shown below.

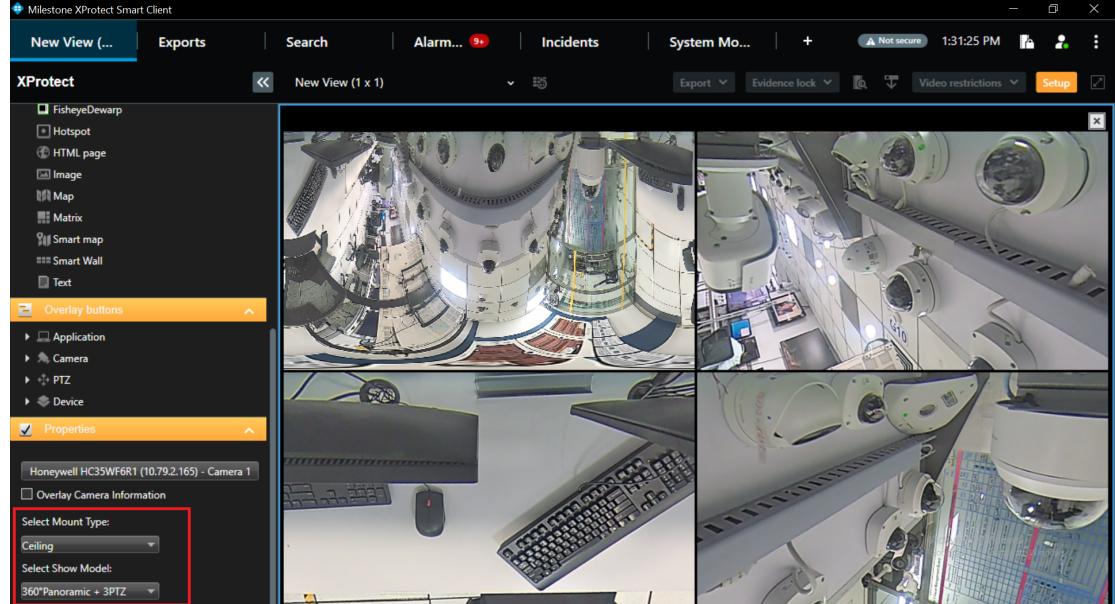


6. Select camera and then select the camera **Mount Type** as **Ceiling** and **Show Model** type as **Original** in the properties as shown below.

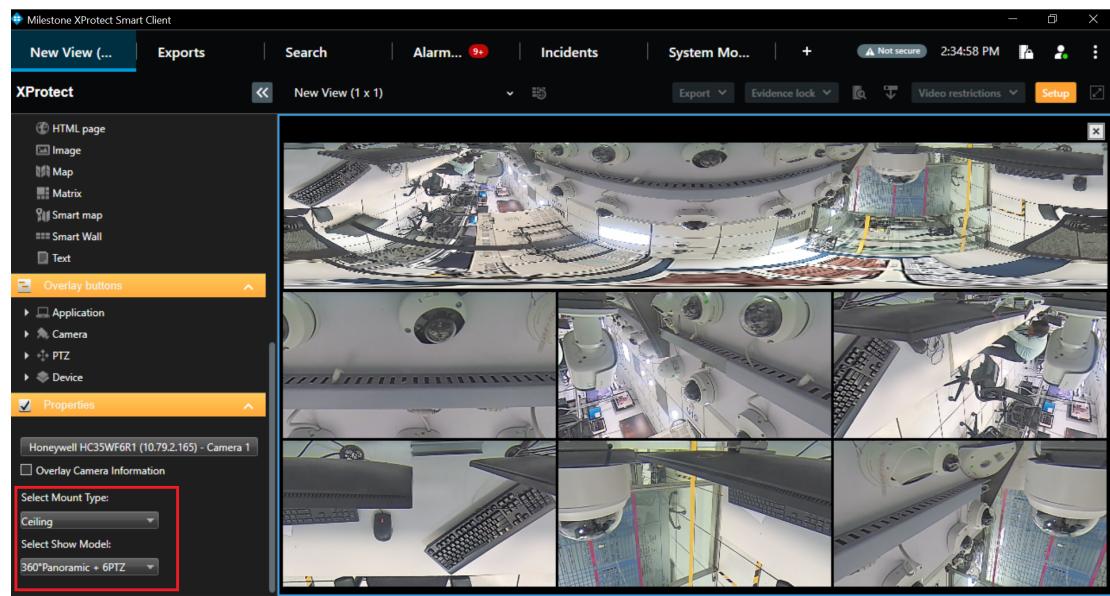


Please refer to the Plug-in supported capabilities

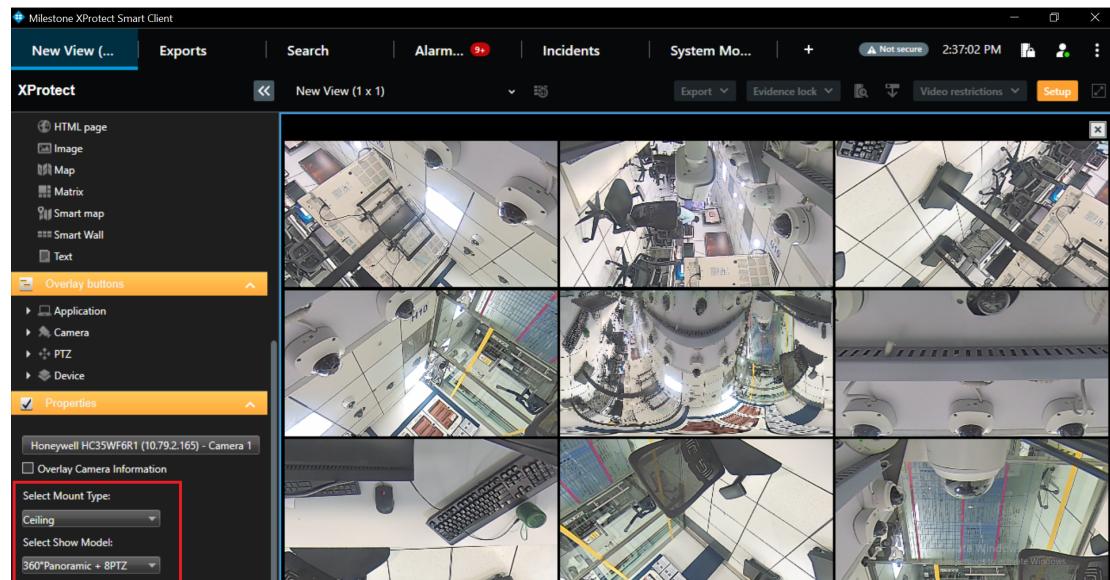
7. **PTZ Control:** User can press and hold the mouse button to slide and to adjust the angle of view. User can also zoom in/out to view the display.
- **For Panoramic model 360° + 3PTZ:**



- For Panoramic model 360°+ 6PTZ:



- For Panoramic model 360° + 8PTZ:



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