



# SureStream

## Installation and Configuration Guide

Vega Systems Inc.,  
1999 S Bascom Ave #700,  
Campbell, CA 95008  
USA  
[info@vega25.com](mailto:info@vega25.com)

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# Introduction

SureStream is a High video availability MIP Plugin solution that enables direct multicast and unicast streaming from the camera to the Smart Client. It is not affected by Recording/Management Server failures.

## Release Notes SureStream 8.0.0

1. SureStream 8.0 introduces a wizard-based setup, making the configuration more user-friendly.
2. It supports camera mirroring and rotation.
3. Licensing is modified to consume one device license per MAC address instead of one per stream.
4. The cameras added on Milestone parent and child sites can be fetched directly from the parent site without multiple logins.

## Installation

### First-time Installation

Please follow the steps listed below to obtain and install SureStream.

### Obtaining Software

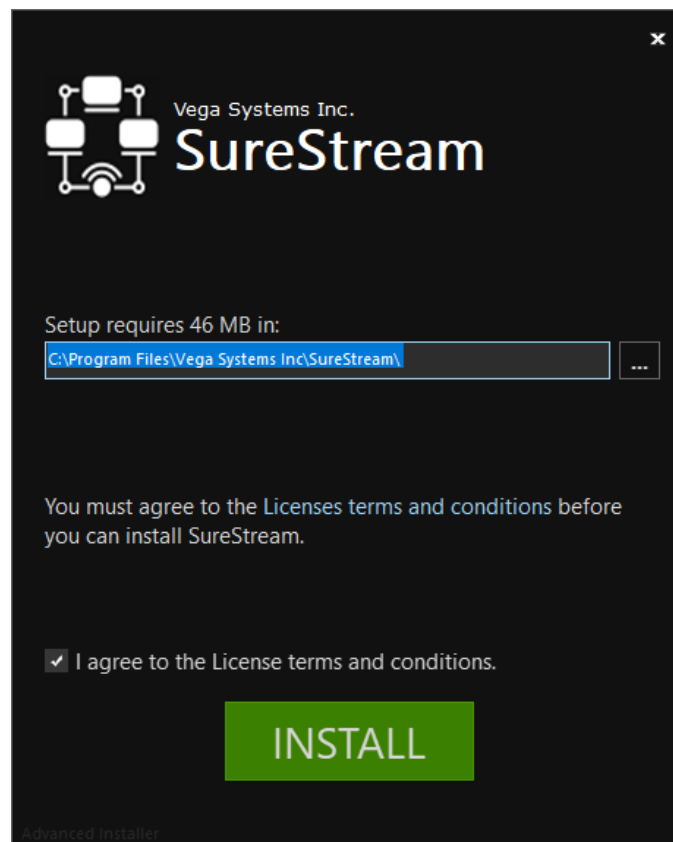
1. Please email [sales@vega25.com](mailto:sales@vega25.com) and provide information about your requirements, including,
  - a. The number of channels.
  - b. Your version of Milestone Corporate, Expert, Professional+ or Professional.
  - c. Release 8.0.0 is compatible with XProtect Corporate 2022 R1.
2. Receive a quote.
3. Pay.
4. Receive a link to download the installer.
5. Download installation files.

## Install Software

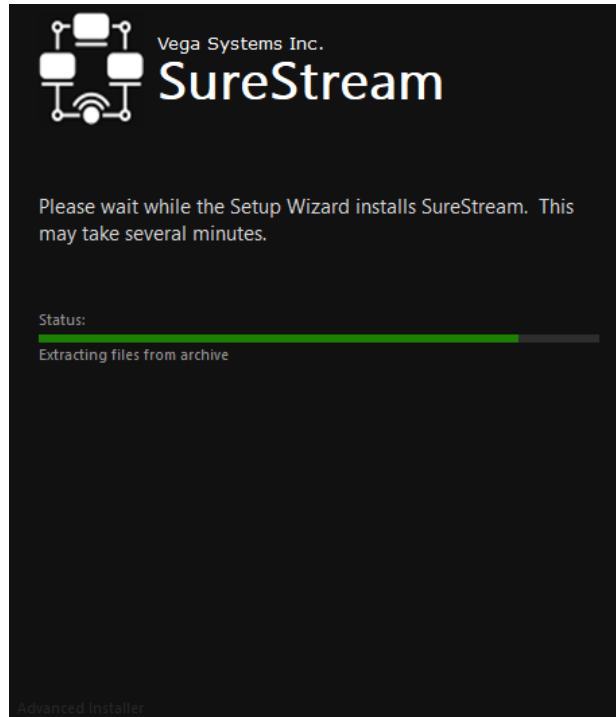
Please follow the below steps to install the software.

### Plug-In Installation - Management Server

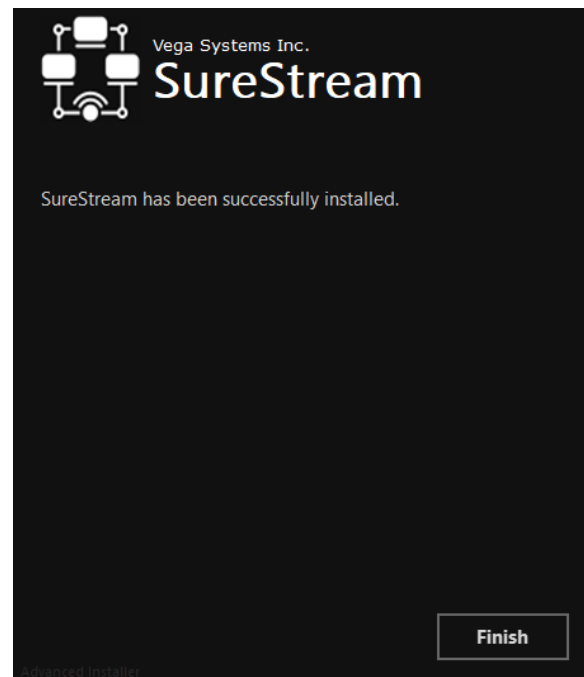
1. If Milestone software is active on the Management Server, please follow the shutdown procedure provided by Milestone to stop all Milestone UI programs running on the Milestone Management Server. Services do not need to shut down.
2. Copy the setup folder to a convenient location on the Milestone Management Server.
3. Open the **“SureStream Setup Folder,”** right-click on the setup and click **“Run as administrator.”**
4. The window below will appear.



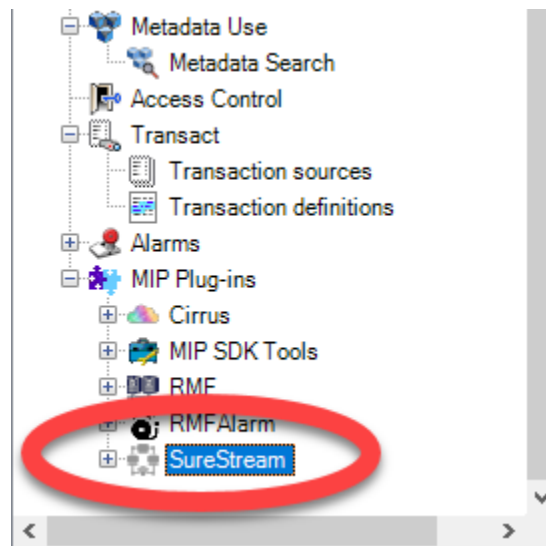
5. Review terms and select the **“I agree to the License terms and conditions.”**
6. Click on the **“Install”** button.
7. Installation progress is displayed as shown in the below image.



9. Upon successful Installation, we see:



10. Click on “**Finish**” to complete the installation.
11. Next, open the Management client application.
12. Login to Management Client.
13. The newly installed plugin will show under the ***MIP Plugin*** tree in the Management Client application, as shown below.



## Plug-In Installation - Smart Client

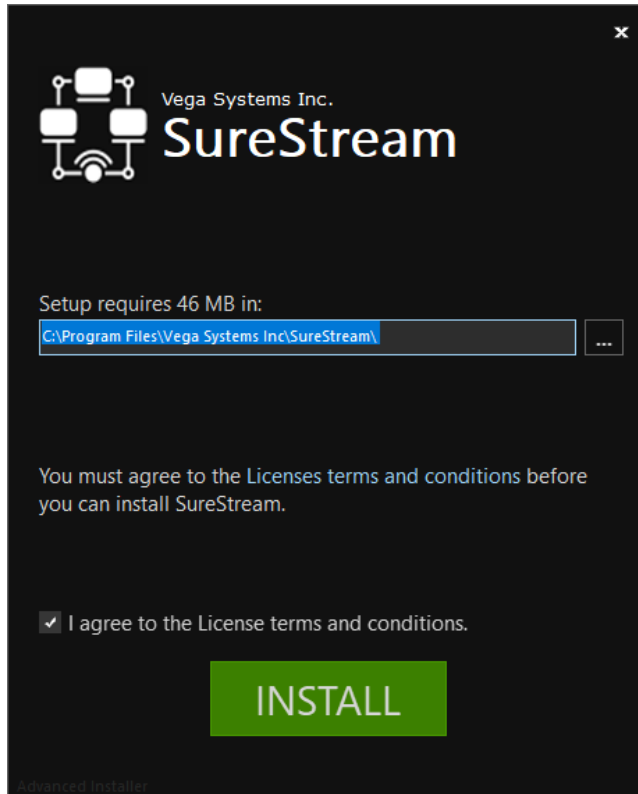
### Prerequisites - Server Specification

The smart client machine should have a minimum requirement, as mentioned below.

- *Processor - i5 or higher.*
- *RAM- 8GB*
- *OS - 64 bit Windows 10.*
- *GPU hardware acceleration is required.*

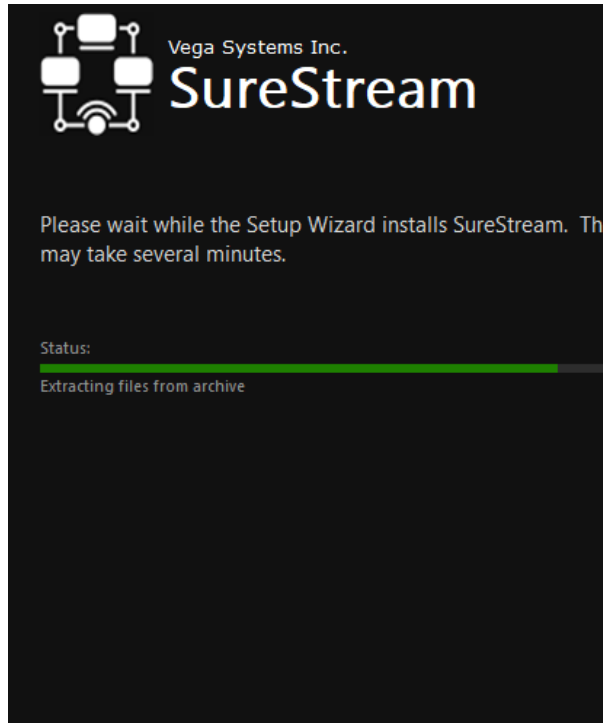
Follow the below procedure to install the plugin on each Smart Client machine.

1. Close the Smart Client application if running.
2. Copy the setup folder to the Milestone Smart Client machine.
3. Open the **“SureStream Folder,”** right-click on the setup and click **“Run as administrator.”**
4. We see

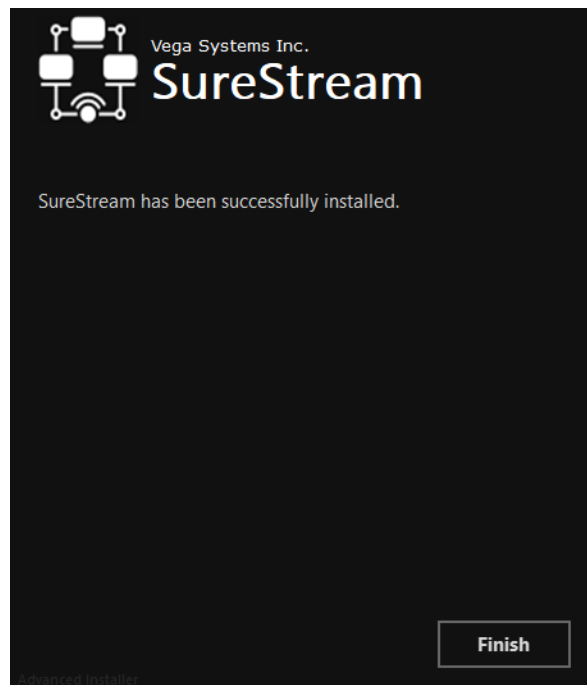


5. Review terms, select the *“I agree to the License terms and conditions.”*
6. Click on the **“Install”** button.
7. Upon clicking **“Install,”** software will display the installation progress in the image below.

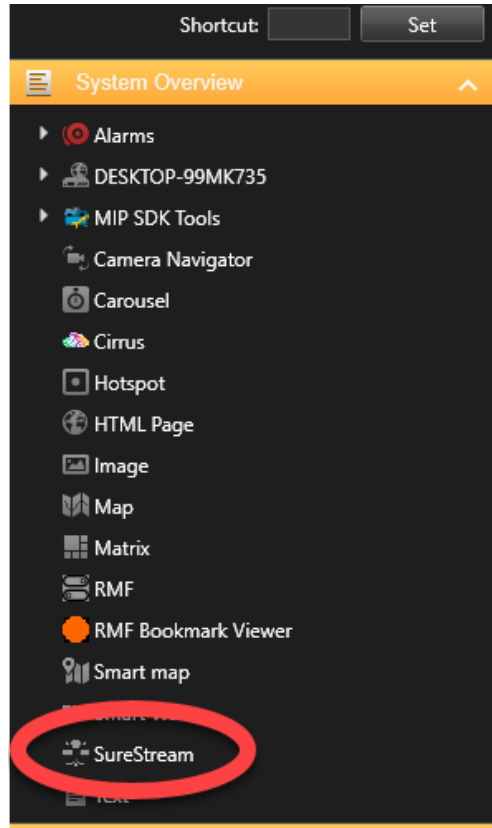




7. Upon successful Installation, we see:



8. Click on the **“Finish”** button to complete the installation.
9. Then, open Smart Client on the machine on which you installed the plugin.
10. The newly installed plugin will appear under the **MIP SDK Tools tree** in the Smart Client application, as shown below.



## Silent Installation

Command-line installation of software is supported. However, the invoker of the command line installation needs to have administrator privileges. E.g., if using a command prompt, invoke it as the administrator.

*To install, execute:*

```
<Installer_Name>.exe /exenoui /qn /i // /log "<Path_to_log>.txt"
```

*To uninstall, execute:*

```
<Installer_Name>.exe /exenoui /qn /x // /log "<Path_to_log>.txt"
```

## Offline License Activation

Follow the below steps to activate the license through offline activation. ***Please do this after the installation of SureStream on the management server machine.***

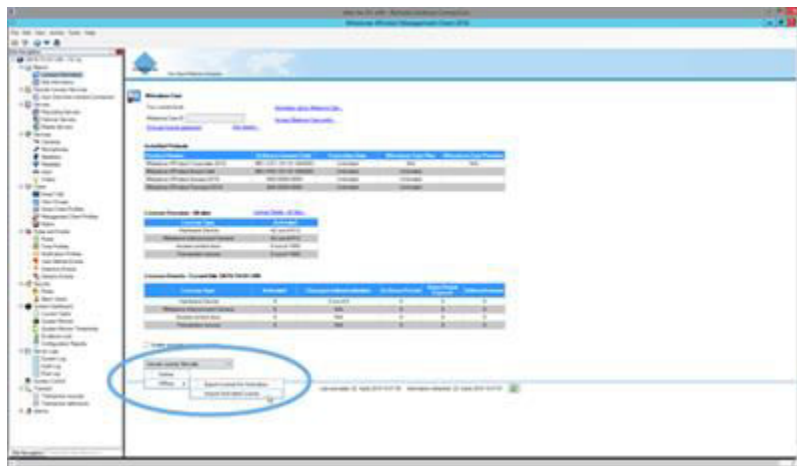
### Step 1: Provide SLCs to Vega

1. Please provide the SLCs for all sites that need offline activation to Vega.
2. Also, specify the number of RMF channels to license for each SLC.
3. Email: [sales@vega25.com](mailto:sales@vega25.com)

### Step 2: Export a License Request file for each SLC

Follow these steps for each SLC:

1. In the Management Client, in the **Site Navigation** pane, expand **Basics** and select **License Information**.
2. At the bottom of the main workspace, click **Activate Licenses Manually**, then **Offline**, and then click **Export License for Activation**.



3. Save the license request file to a portable storage device.

### Step 3: Wait for Confirmation from Vega

Wait for Vega to confirm *plugin activation* for your SLCs.

### Step 4: Upload the license request file to Milestone Customer Dashboard

For each SLC:

1. Connect the portable storage device to a computer with Internet access and log in to the Milestone Customer Dashboard.
2. Click **Customers & Licenses**, and then click **Upload License Request**.



3. Click **Select .lrq file**, and then find the license request file on the portable storage device.
4. Optional: By default, the activated license file is emailed to the email address specified when you purchased the software license. To allow other people to receive the activated license file, add their email addresses in the **Additional email recipient (optional)** field.
5. Click **Upload**.

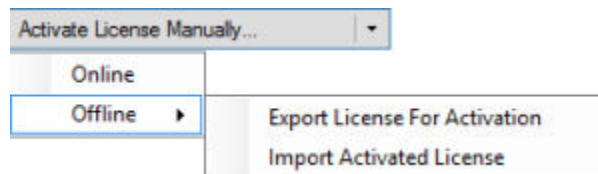
### Step 5: Receive an email from Milestone with the activated license file

After you receive an activated license file for each SLC, you can import each file into the corresponding Management Client to update your software license information

### Step 6: Import this into the corresponding Management Client for each SLC

To import the activated license file for each SLC, follow these steps once per SLC. Take care to upload the activated license file using the Management Client for the **corresponding** SLC.

1. Copy the activated license file from the email to your portable storage device, connect this storage device to the computer with **the corresponding** Management Server.
2. In Management Client, click **Activate License Manually**, click **Offline**, and then **Import Activated License**.



3. Find the activated license file on the portable storage device and click **Open**.
4. You Should find the plugin activated with the licensed number of channels.

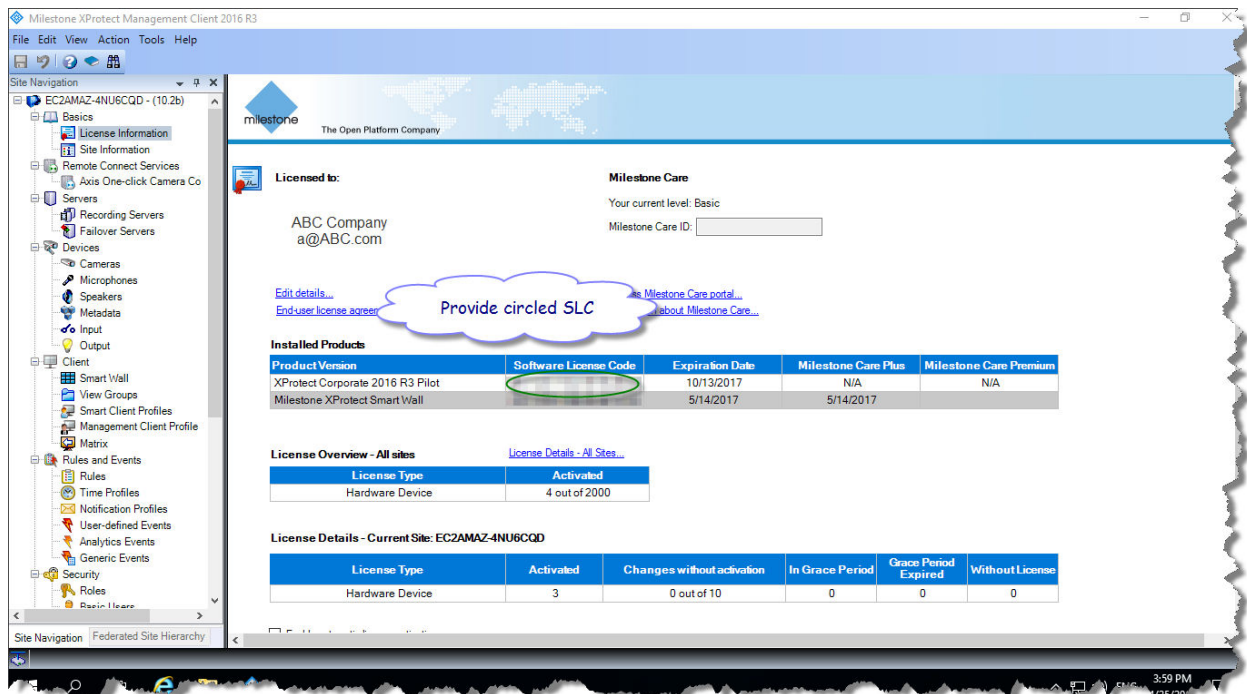
# Online License Activation

## Step 1: Install SureStream

Install SureStream on the Management server machine.

## Step 2: Provide SLC

1. Provide your Xprotect Corporate SLC (Software License Code) to [Sales@vega25.com](mailto:Sales@vega25.com).
2. Wait for an email from Vega confirming the activation of the license.
3. Proceed to Step 2.



## Step 3: Activate

Please follow the below procedure to activate the license.

1. This process needs your XProtect installation to be able to access the internet. Please check internet connectivity before doing the steps below.
2. After logging in to the Management Client, click on the **License Information** tab.

**License Information**

**Licensed to:** Milestone Care  
 Vops Systems Inc.  
 3939 S. Bascom Ave #700  
 95038 Campbell, CA United States  
 (Telephone) (United States) Requested: vops@vops.com

**Installed Products**

Product Version	Software License Code	Expiration Date	Milestone Care Plus	Milestone Care Premium
XProtect Corporate 2017 R2 Test	M01-C01-112-02-6C4EE3	6/25/2018	N/A	N/A
Milestone XProtect StreetView	M01-C01-030-02-6C222F	Unlimited	Unlimited	
ActiveActive v1.3.2.0	N/A			
SMSGateway v1.10.0.0	N/A			
StreamStream v1.0.2	N/A	4/24/2018	4/24/2018	

**License Overview - All Sites**

License Type	Activated
Hardware Device	4 out of 25
ActiveActive	2 out of 3
SMSGateway	1 out of 1
StreamStream	0 out of N/A

**License Details - Current Site: LAPTOP-NB5F0R3T**

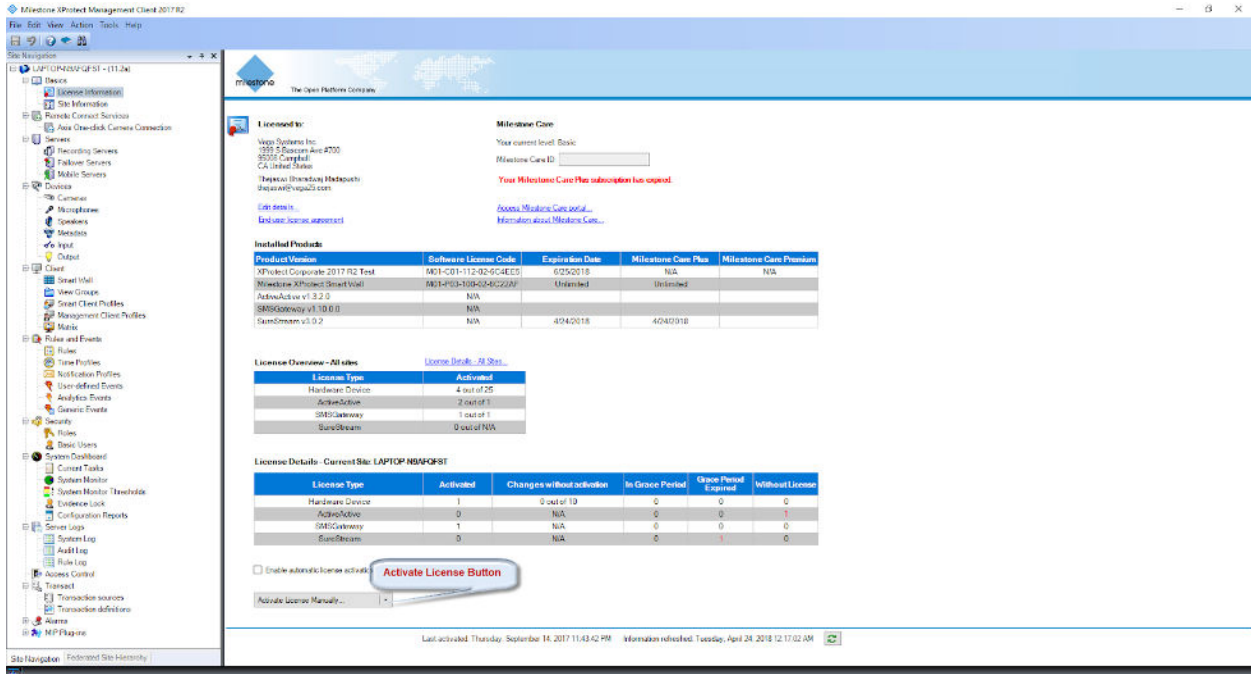
License Type	Activated	Changes without activation	In Grace Period	Grace Period Expired	Without License
Hardware Device	1	0 out of 10	0	0	0
ActiveActive	0	N/A	0	0	1
SMSGateway	1	N/A	0	0	0
StreamStream	0	N/A	0	1	0

**Activate License Manually...**

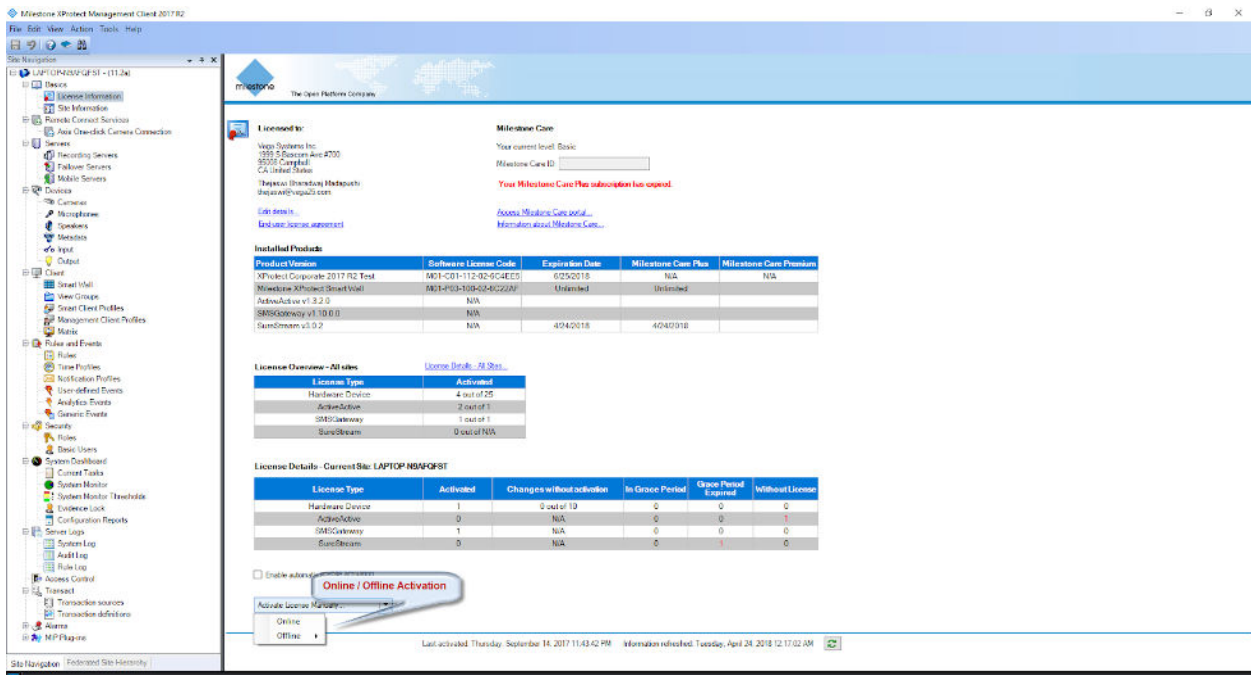
3. Upon Clicking on License Information, the below window will appear and show that the SureStream plugin has expired (It shows the expiration date as Plugin Installation Date).

**Plugin Installation Date**

4. Click on the **Activate License Manually** button.



5. Upon clicking on the **Activate License Button** Online / Offline activation option will pop down.



6. Click on the **Online** option.

7. Enter the **Username** and **Password** and click on the **OK** button.

8. Upon clicking the **OK** button, the license gets activated.
  - a. We see the Expiration Date with a Demo license, as shown below.

**License Overview - All Sites**

License Type	Activated
Hardware Device	3 out of 2000
ActiveActive	1 out of 1

**License Details - Current Site: EC2AMAZ-**

License Type	Activated	Changes without activation	In Grace Period	Grace Period Expir	Without License
Hardware Device	2	0 out of 10	0	0	0
ActiveActive	1	N/A	1	0	0

Callout: **Demo Version**

- b. We don't see any date in the Expiration Date column with a perpetual license.

**License Overview - All Sites**

License Type	Activated
Hardware Device	3 out of 2000
ActiveActive	1 out of 1

**License Details - Current Site: EC2AMAZ-**

License Type	Activated	Changes without activation	In Grace Period	Grace Period Expir	Without License
Hardware Device	2	0 out of 10	0	0	0
ActiveActive	1	N/A	0	0	0

Callout: **Full Version**



# Upgrading Software

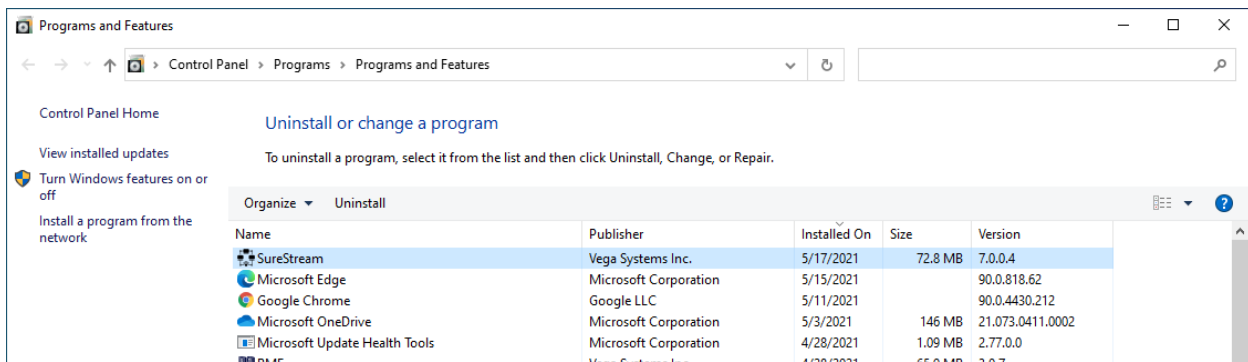
To upgrade software,

1. First, uninstall any versions by following un-installation instructions.
2. Then follow the installation instructions to install the latest version.
3. Finally, activate the license by following the License Activation instructions if the earlier license had expired.

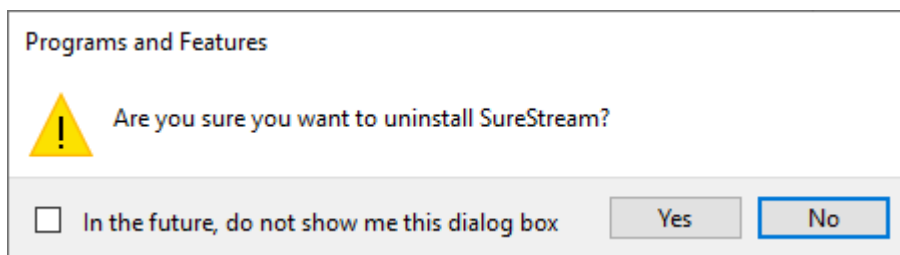
# Un-Installation

Repeat these steps on the Management Server and each smart client system using the SureStream plugin to uninstall the software.

1. If your Milestone software is active on the Management Server and Smart Client, please follow the shutdown procedure provided by Milestone to stop all Milestone programs running on both Milestone Management Server and Smart Client. Then, follow the steps below:
2. Open the **Control Panel**.
3. Select **“SureStream”** from the list.
4. Next, click on the **“Uninstall”** button.



5. Upon clicking the uninstall button, the window below will appear.



6. Click on the **“Yes”** button.

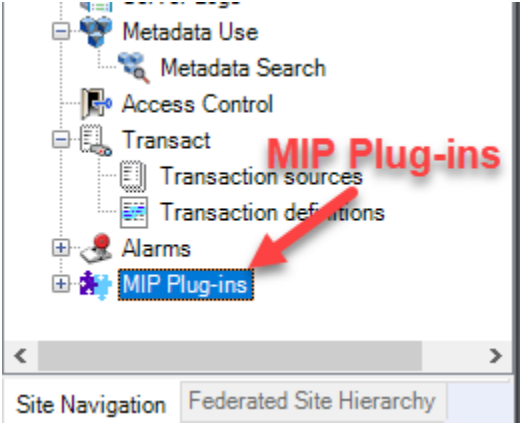
# Configuration and Usage

## Federated Architecture Set up

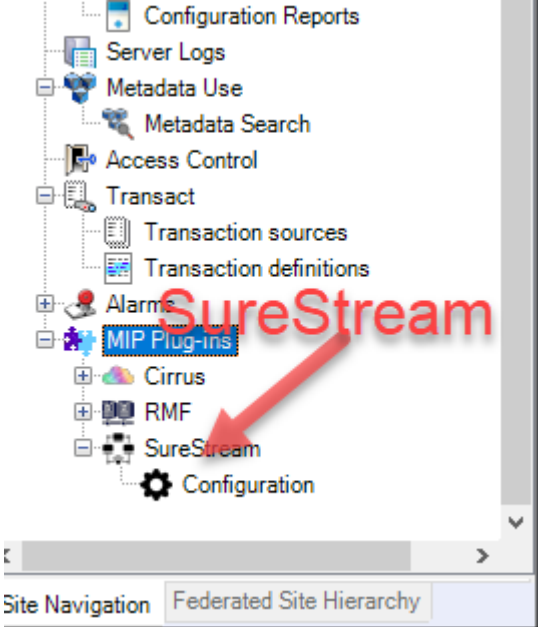
If the architecture you are setting up SureStream at is not Federated, skip this step and go to [Non-Federated Set Up](#).

A Federated architecture is needed for SureStream to function in a multi-site deployment. Please refer to the latest XProtect manuals for setting up federated sites. Please set up the milestone federated architecture before starting with the steps below.

1. Open the "Management Client" application on the Management Server Machine.
2. Goto the "MIPS-Plugin" tree and expand the tree list.



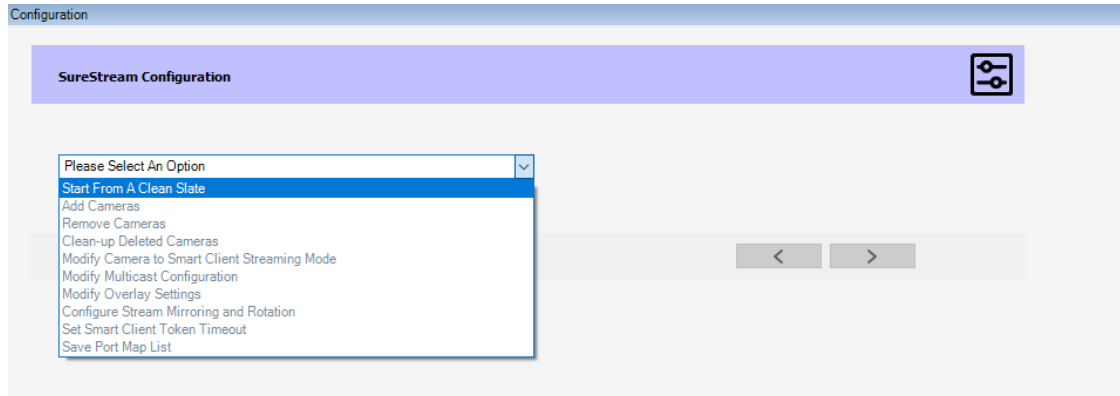
3. Expand the "SureStream" Plugin.



4. Click on Configuration.

## Start from a Clean Slate

5. Select the option "Start From A Clean Slate." The window below appears.

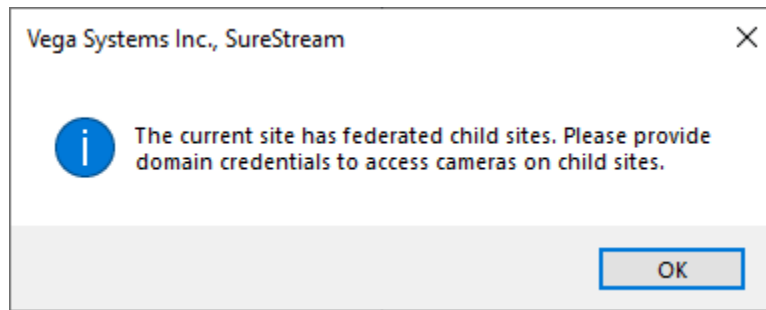


## Import Cameras from Milestone

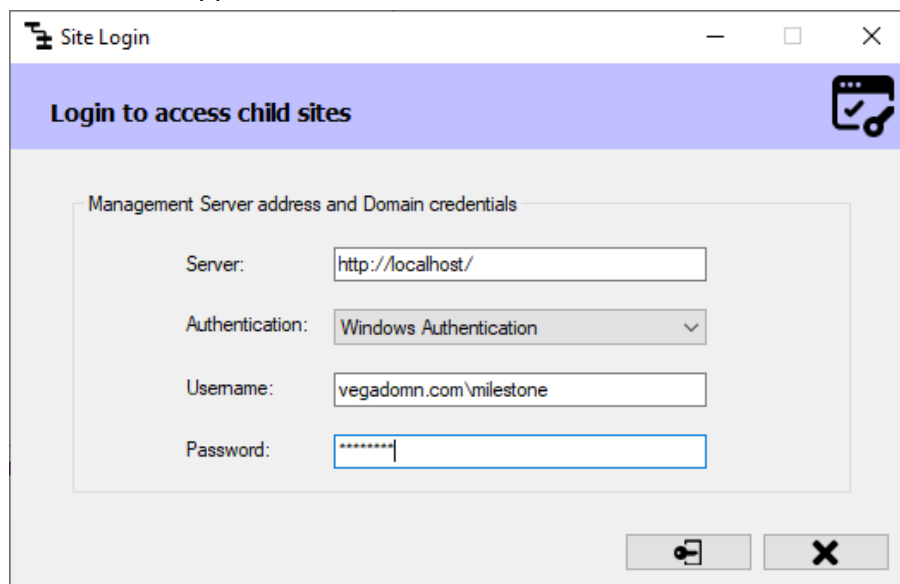
6. Click on the "+" button to import all cameras added on parent and child sites.



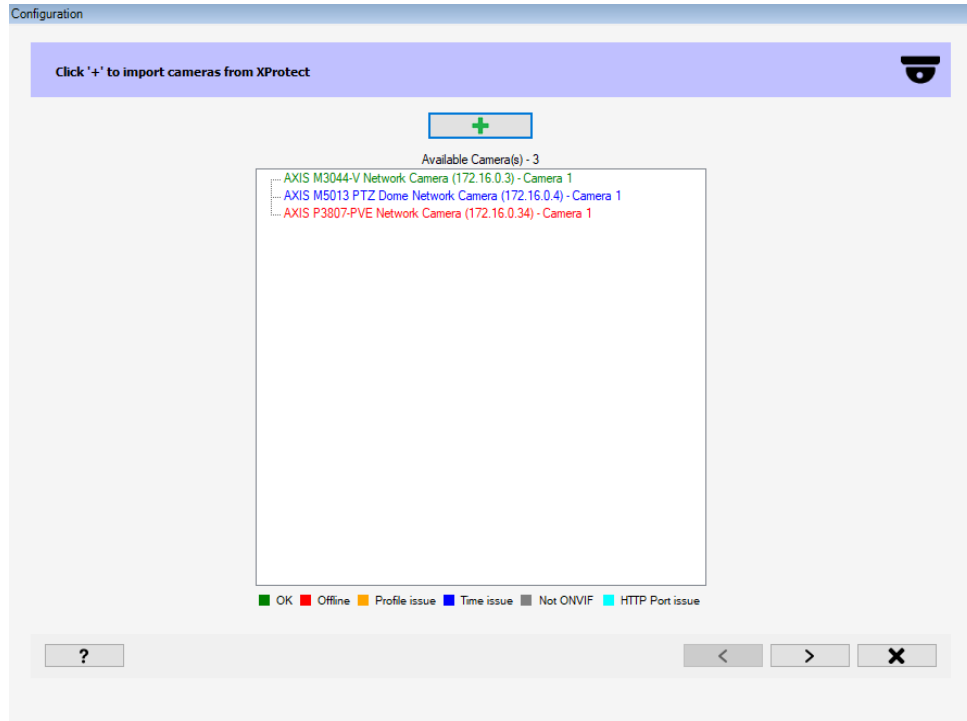
7. Upon clicking the below information window will appear.



8. Click on Ok.
9. The below window appears.



11. Enter the Windows domain username and password and click on "**Connect.**"
12. All cameras configured in the parent and child Management Servers get displayed in the list. The cameras could show up in different colors.
  - a. **Green** - Onvif compliant, with both Multicast and Unicast support.
  - b. **Red** - Unreachable cameras with ping failure appear.
  - c. **Gray** - The camera does not support ONVIF multicast or unicast.
  - d. **Orange** - The cameras are Onvif compliant but do not have a streaming profile set up. Note that SureStream adds a streaming profile automatically but was unable to do so in this case.
  - e. **Blue** -Camera date/time is not synchronized with the Management Server.
  - f. **Cyan** - Camera HTTP Port issue. The camera is not accessible on its HTTP port - which usually indicates that the network/firewall is blocking traffic on this port.

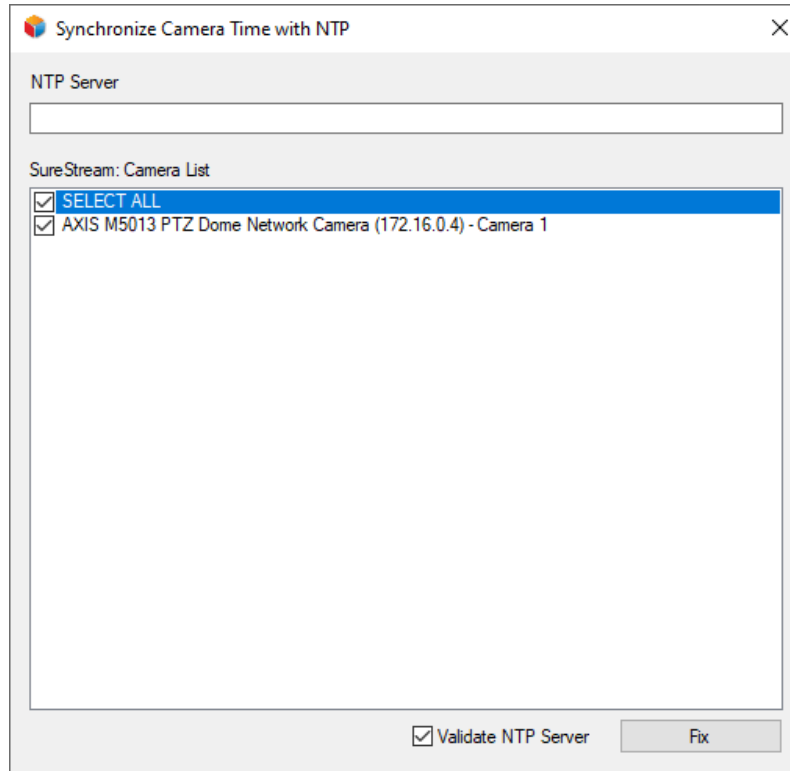


## Set Camera Time

13. Blue cameras have an unsynchronized date/time with the machine on which the management client is open.
  - a. Check the date/time on the management client machine. If incorrect, fix it and fetch the camera list again.

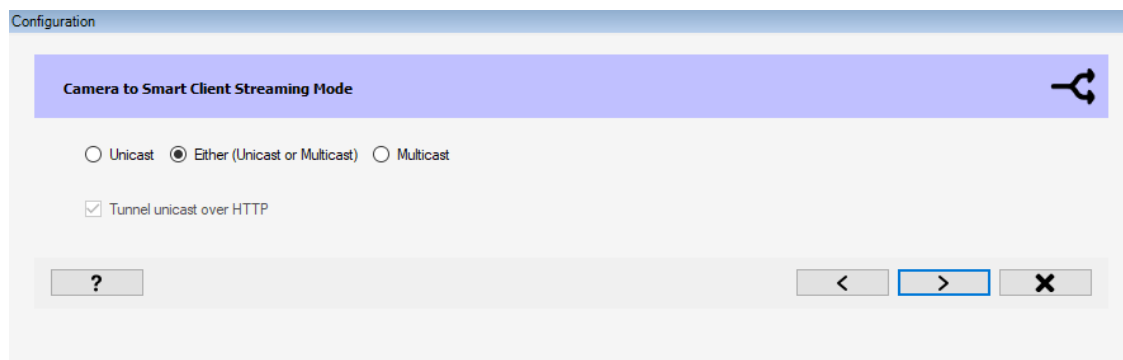


- b. If the date/time on the management client machine is correct, the cameras' date/time needs to be changed.
      - i. Click the 'Set NTP to Camera' button.
      - ii. Enter the NTP server details to set the camera's date and time.
      - iii. If the "Validate NTP Server" is ticked, the plugin will validate the NTP; otherwise, it will skip the process.



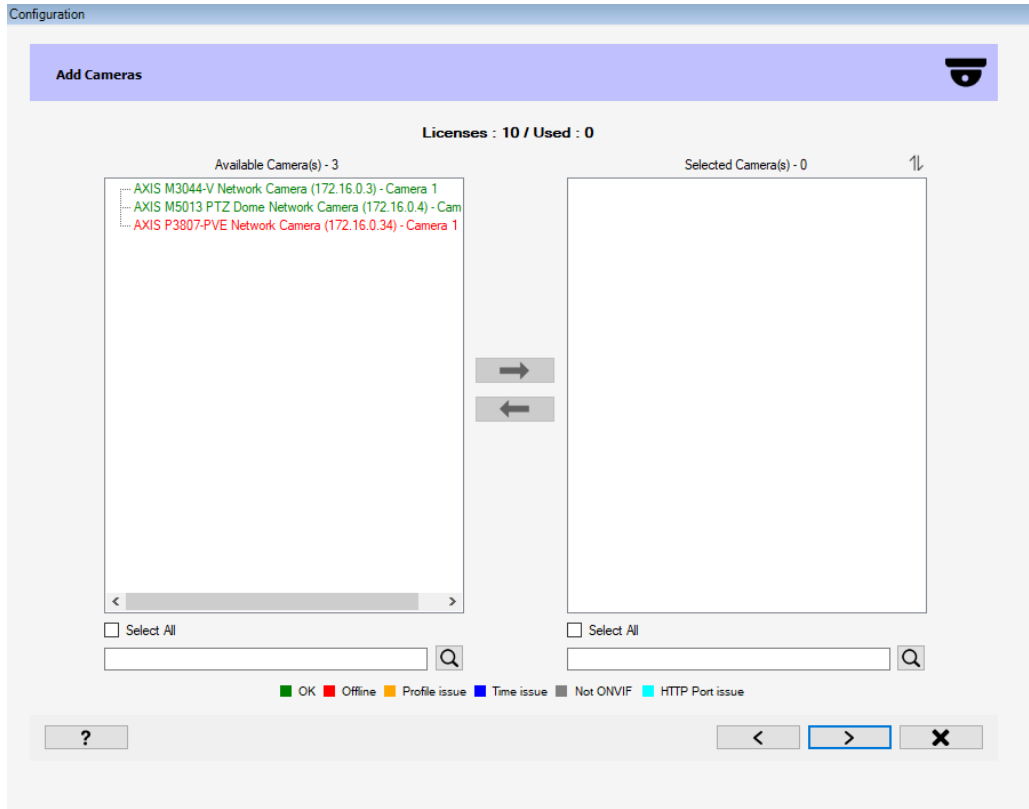
## Camera to Smart Client Streaming Mode

This step allows the user to select the streaming mode for a direct stream to each smart client from the camera. There are three available options: Unicast, Multicast, and Either.

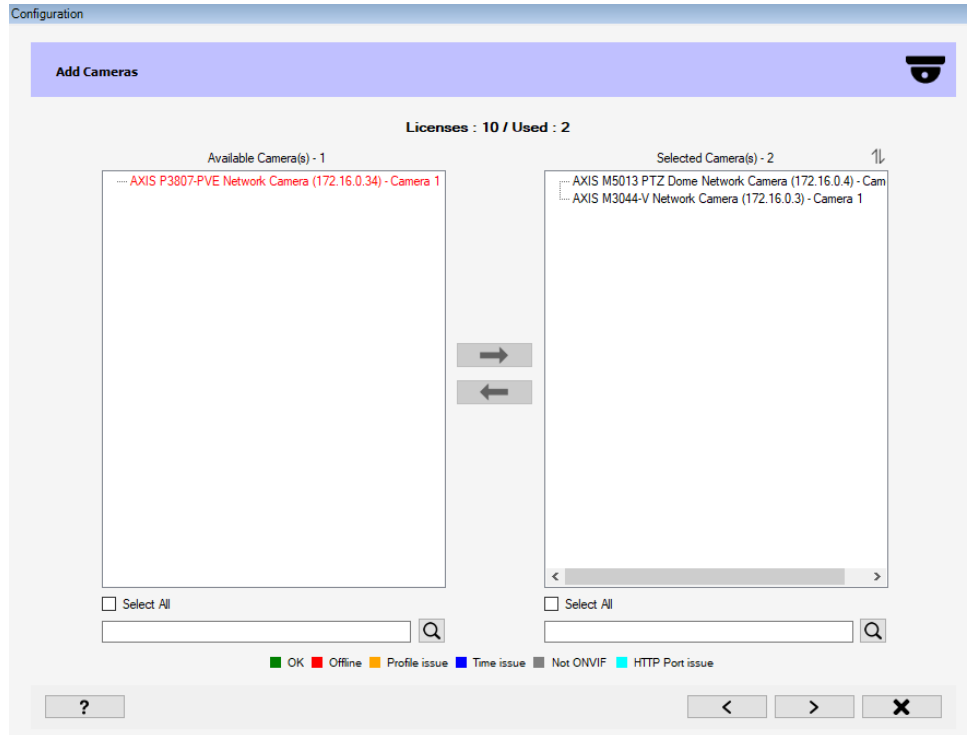


Unicast:

14. Selecting 'Unicast' will initiate a unicast stream from cameras to clients over an HTTP tunnel.
15. Select the "Unicast" option and click on Next.



16. Check the “Select All” option and click on the “Add” button.
17. SureStream will move all ‘green’ cameras that support unicast streaming to the “Selected Cameras” list.



18. The user can also move one or more cameras from the “Available Cameras” list to the “Selected Cameras” list by selecting the cameras and clicking on the “Add” button.
19. The user can remove all the cameras from the “Selected Cameras” list by clicking the “Remove All” button. Also, the user can remove one or more cameras by selecting them and clicking on the “Remove” button.
20. Each camera consumes one license.

Either (Unicast/Multicast):

21. Selecting 'Either' will configure all cameras listed in green color. When the user streams video in this mode, Sure Stream in the Smart Client fetches multicast video if the camera supports it. Else, it defaults to unicast video.
22. Select the “Either (Unicast / Multicast)” option and click on Next.



Configuration

**Add Cameras**

Multicast Settings

Multicast IP address / Range:  to  (Range : 239.0.0.0 to 239.255.255.254)

Multicast RTP Port:  (Even # in the Range : 1024 to 65534)

Licenses : 10 / Used : 0

Available Camera(s) - 3

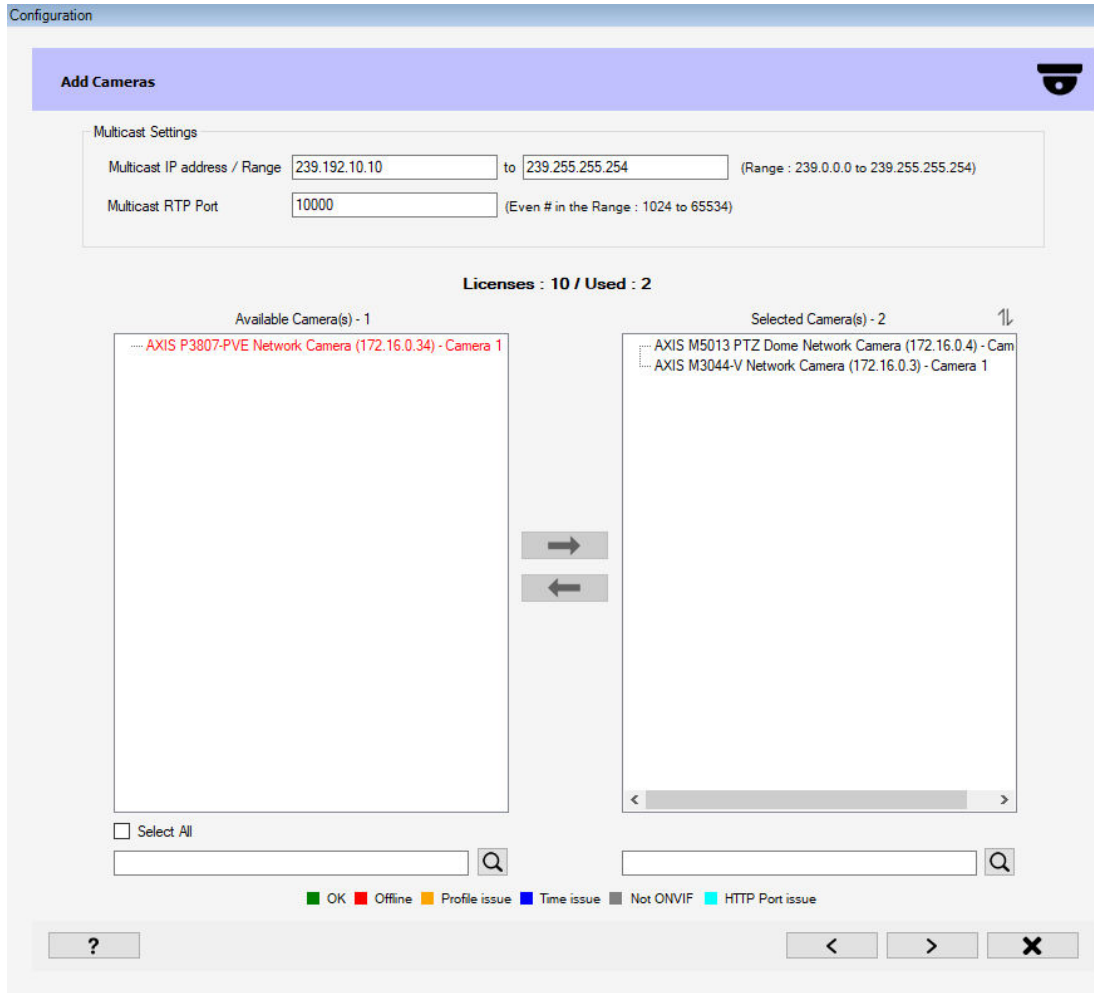
- AXIS M3044-V Network Camera (172.16.0.3) - Camera 1
- AXIS M5013 PTZ Dome Network Camera (172.16.0.4) - Cam
- AXIS P3807-PVE Network Camera (172.16.0.34) - Camera 1

Selected Camera(s) - 0

Select All

OK  Offline  Profile issue  Time issue  Not ONVIF  HTTP Port issue

23. Enter the “Multicast IPs” in the From and the To field. (Range: 239.0.0.0 to 239.255.255.255)
24. Enter the “Port Number” in the available field. (Range: Even numbers in the range 1024 to 65534)
25. Check the “Select All” option and click on the “Add” button.
26. SureStream will move all ‘green’ cameras to the “Selected Cameras” list if the entered IP address and Port range are sufficient.

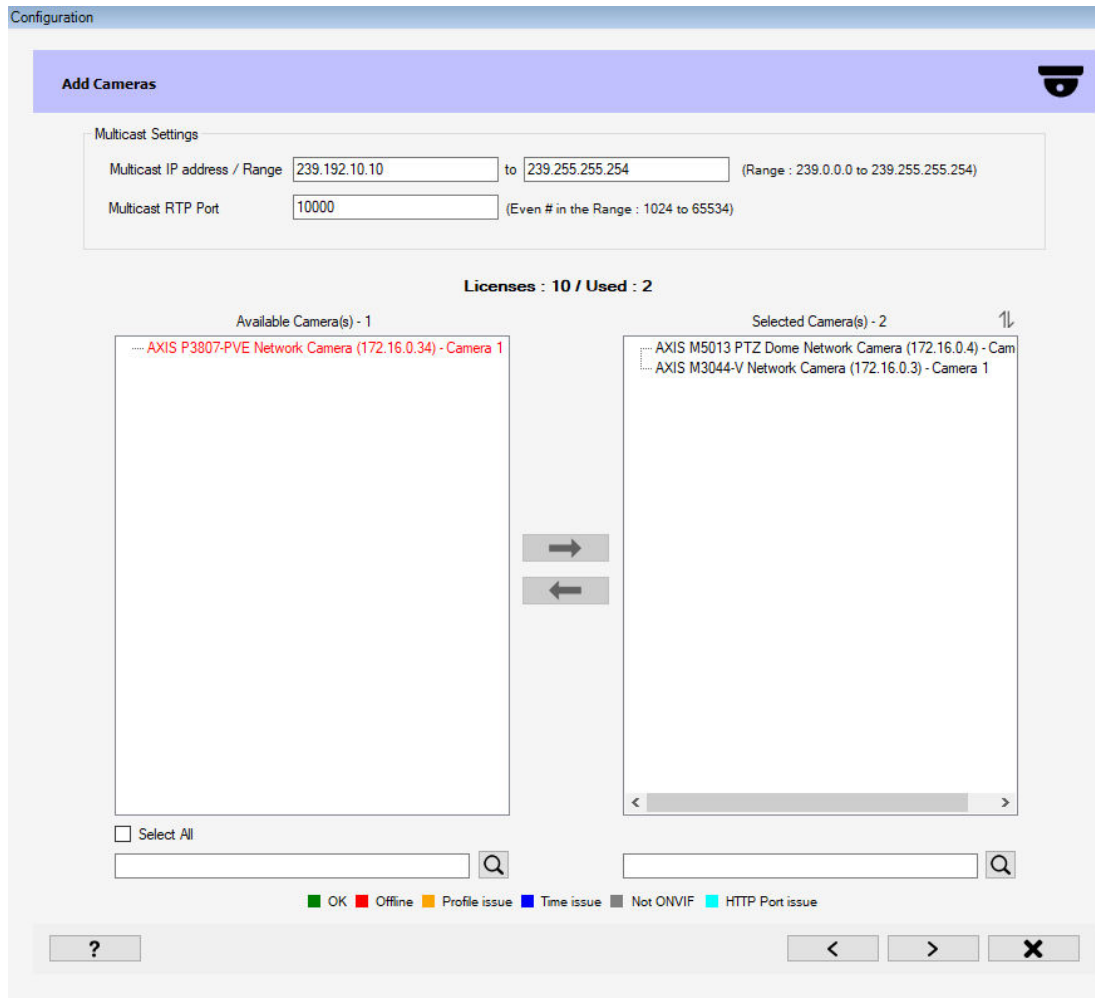


26. The user can also move one or more cameras from the “Available Cameras” list to the “Selected Cameras” list by selecting the cameras and clicking on the “Add” button.
27. The user can remove all the cameras from the “Selected Cameras” list by clicking the “Remove All” button. Also, the user can remove one or more cameras by selecting them and clicking on the “Remove” button.
28. Each camera consumes one license.

#### Multicast:

29. Selecting ‘Multicast’ will configure only cameras that support ONVIF multicast transmission.
30. Select the “ Multicast” option and click on Next.
30. Enter the “Multicast IPs” in the From and the To field. (Range: 239.0.0.0 to 239.255.255.255)
31. Enter the “Port Number” in the available field. (Range: Even numbers in the range 1024 to 65534)
32. Check the “Select All” option and click on the “Add” button.

33. SureStream will move all 'green' cameras to the "Selected Cameras" list if the entered IP address and Port range are sufficient.

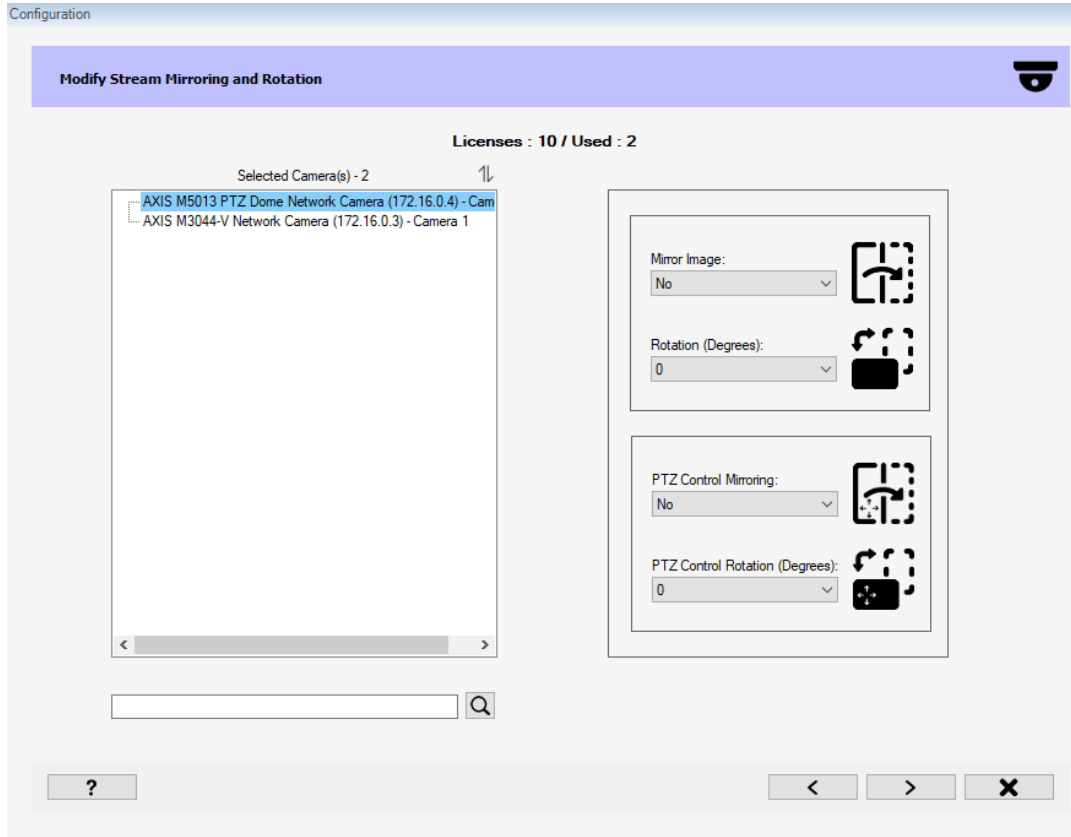


34. The user can also move one or more cameras from the "Available Cameras" list to the "Selected Cameras" list by selecting the cameras and clicking on the "Add" button.

35. The user can remove all the cameras from the "Selected Cameras" list by clicking the "Remove All" button. Also, the user can remove one or more cameras by selecting them and clicking on the "Remove" button.

## Stream Mirroring and Rotation.

36. Suppose the camera installation orientations require image rotation and mirroring. We can change the mirroring and rotation on a camera's view by selecting the individual cameras from the list and setting the required orientation.
37. For PTZ cameras, PTZ movement will be auto-adjusted based on the stream's mirroring and rotation.
38. Users can also override PTZ movement mirroring and rotation using the control provided on this page.



Configuration

**Modify Stream Mirroring and Rotation**

Licenses : 10 / Used : 2

Selected Camera(s) - 2

- AXIS M5013 PTZ Dome Network Camera (172.16.0.4) - Cam
- AXIS M3044-V Network Camera (172.16.0.3) - Camera 1

Mirror Image:  
No

Rotation (Degrees):  
0

PTZ Control Mirroring:  
No

PTZ Control Rotation (Degrees):  
0

?

< > X

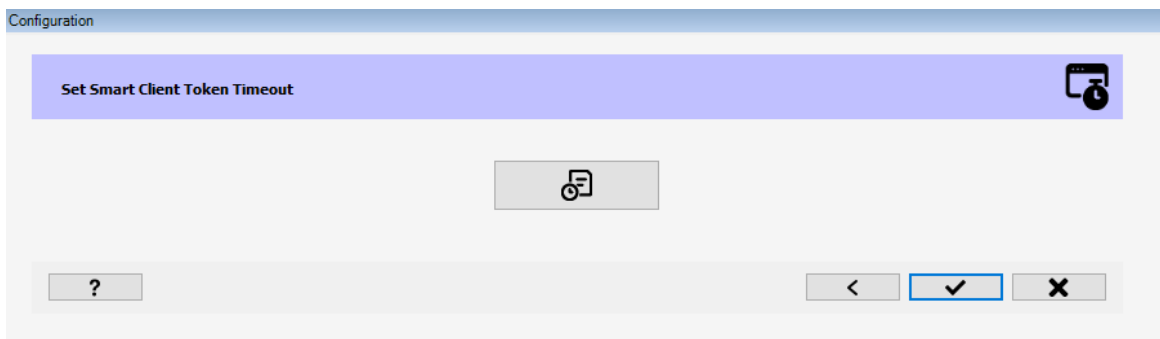
## Smart Client Overlay

Check the “Enable Overlay” option to display the overlay in Smart Client. The overlay should display resolution, codec type, and camera FPS.



## Smart Client Token Timeout

Smart Clients periodically authenticate themselves with the Management Server. If the management server is offline, Smart Clients will automatically log out after a time-out period. To avoid this, one may need to extend this Smart Client auto timeout period based on the expected management server repair time. Click on the instruction button and follow the steps to set the token timeout.

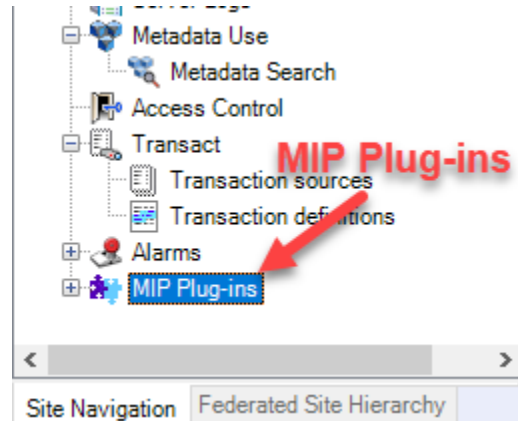


Click on the “Finish” button, then click on the "Save" button in the management client toolbar to complete the SureStream configuration.

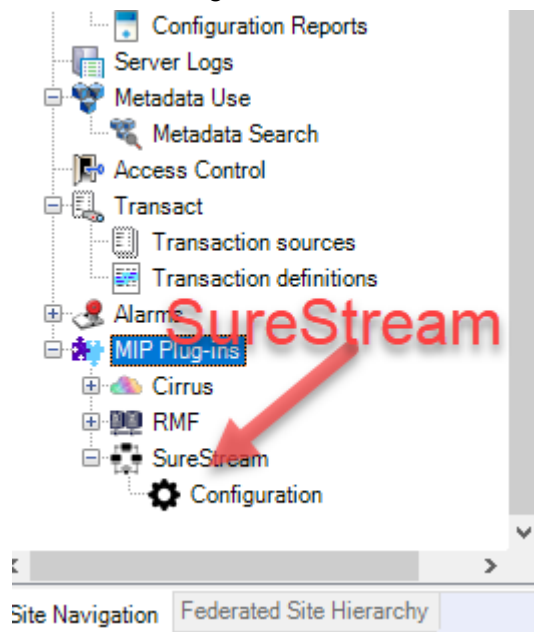
## Non-Federated Set Up

These setups have a single XProtect Installation.

1. Open the "Management Client" application on the Management Server Machine.
2. Goto the "MIPS-Plugin" tree and expand the tree list.



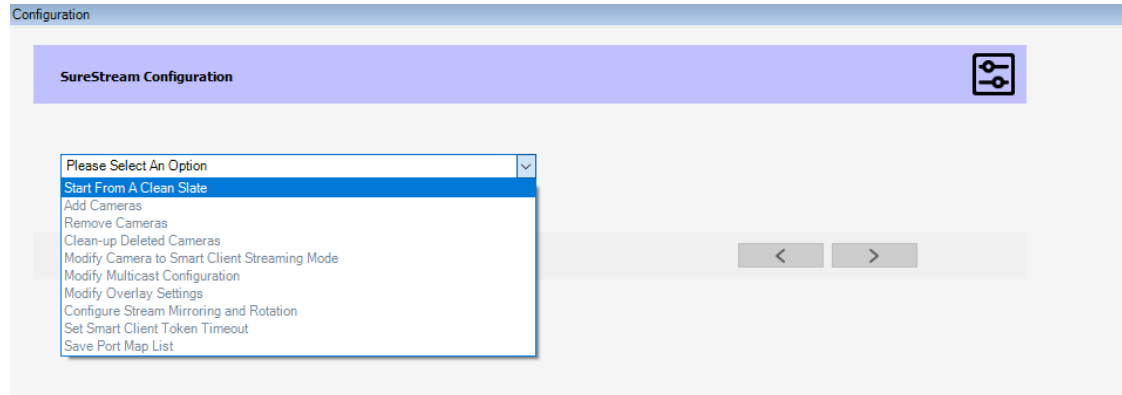
3. Expand the "SureStream" Plugin.



4. Expand the "Cameras" and click on "SureStream."
5. Click on the Configuration.

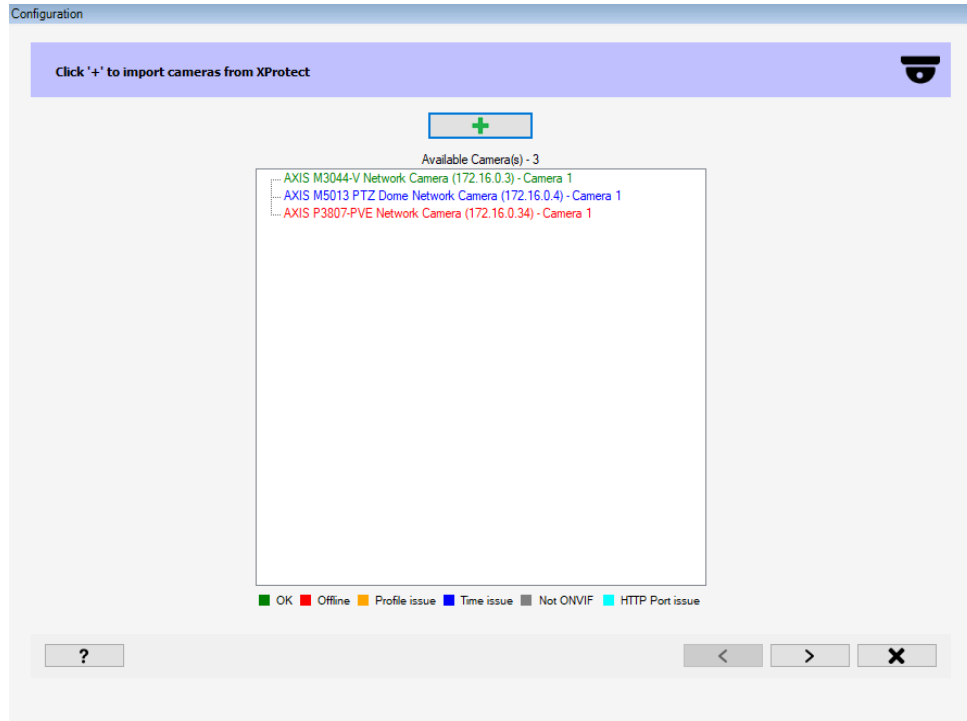
## Start from a Clean Slate

6. Select the option "Start From A Clean Slate." The window below appears.



## Import Cameras from Milestone

7. Click on the "+" button to fetch all the cameras added to the Milestone. All cameras configured in the Management Server will get displayed in the Available Cameras list. The cameras could show up in different colors.
  - a. **Green** - Onvif compliant, with both Multicast and Unicast support.
  - b. **Red** - Unreachable cameras with ping failure appear.
  - c. **Gray** - The camera does not support ONVIF multicast or unicast.
  - d. **Orange** - The cameras are Onvif compliant but do not have a streaming profile set up. Note that SureStream adds a streaming profile automatically but was unable to do so in this case.
  - e. **Blue** - Camera date/time is not synchronized with the Management Server.
  - f. **Cyan** - Camera HTTP Port issue. The camera is not accessible on its HTTP port - which usually indicates that the network/firewall is blocking traffic on this port.



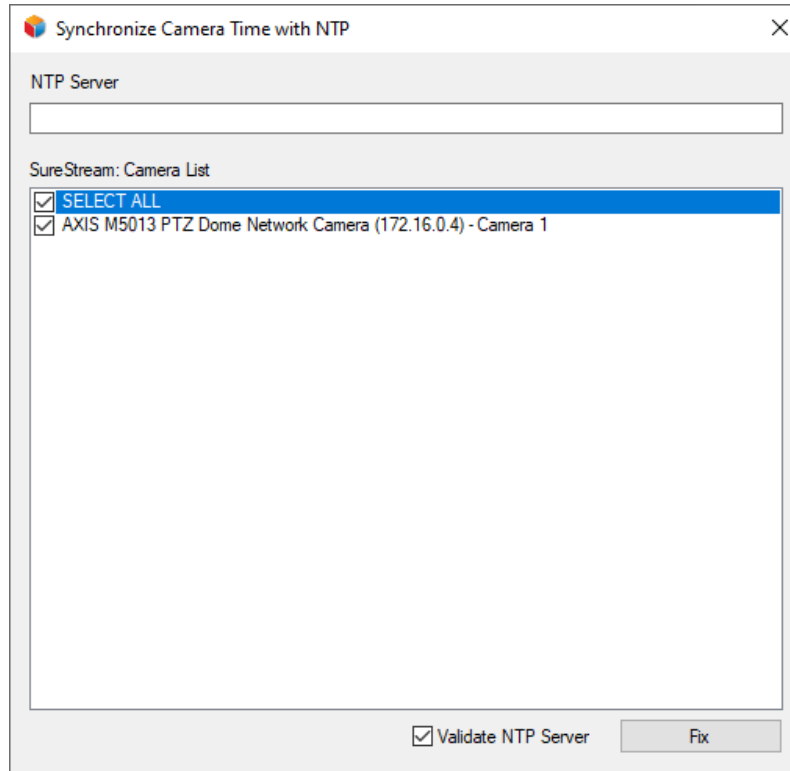
## Set Camera Time

8. If the cameras are blue, these cameras have an unsynchronized date/time with the machine on which the management client is open.
  - a. Check the date/time on the management client machine. If incorrect, fix it and fetch the camera list again.



- b. If the date/time on the management client machine is correct, the cameras' date/time needs to be changed.
      - i. Click the 'Set NTP to Camera' button.
      - ii. Enter the NTP server details to set the camera's date and time.
      - iii. If the "Validate NTP Server" is ticked, the plugin will validate the NTP; otherwise, it will skip the process.





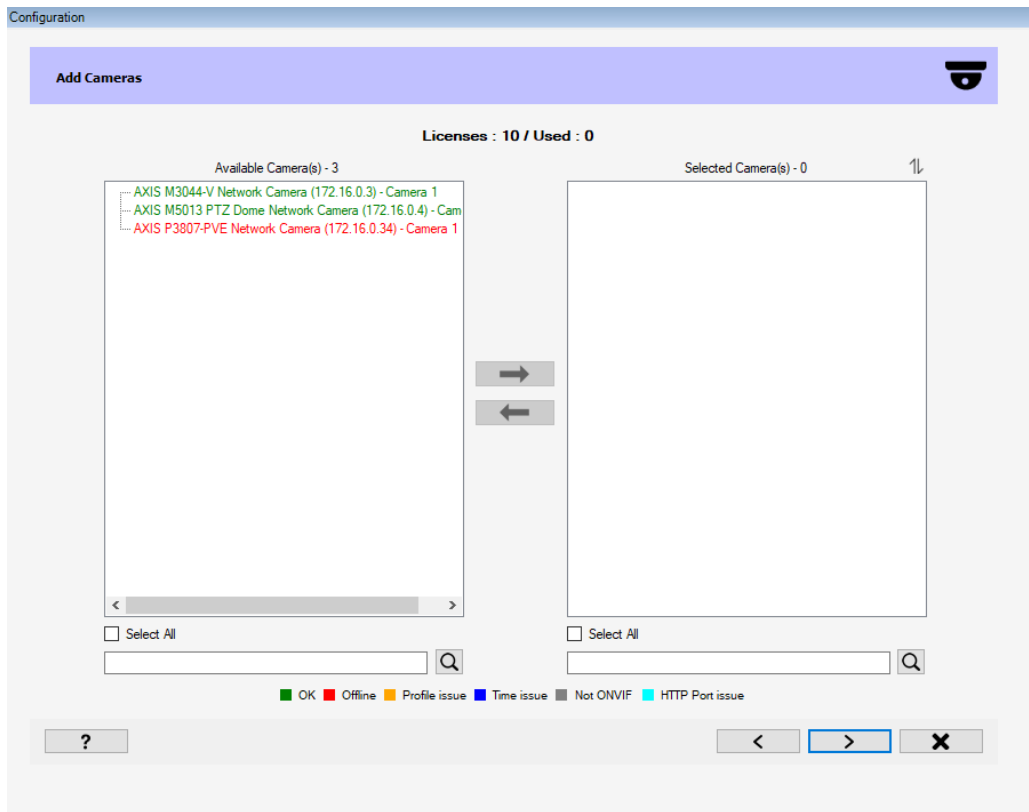
## Camera to Smart Client Streaming Mode

This step allows the user to select the streaming mode for a direct stream to each smart client from the camera. There are three available options: Unicast, Multicast, and Either.

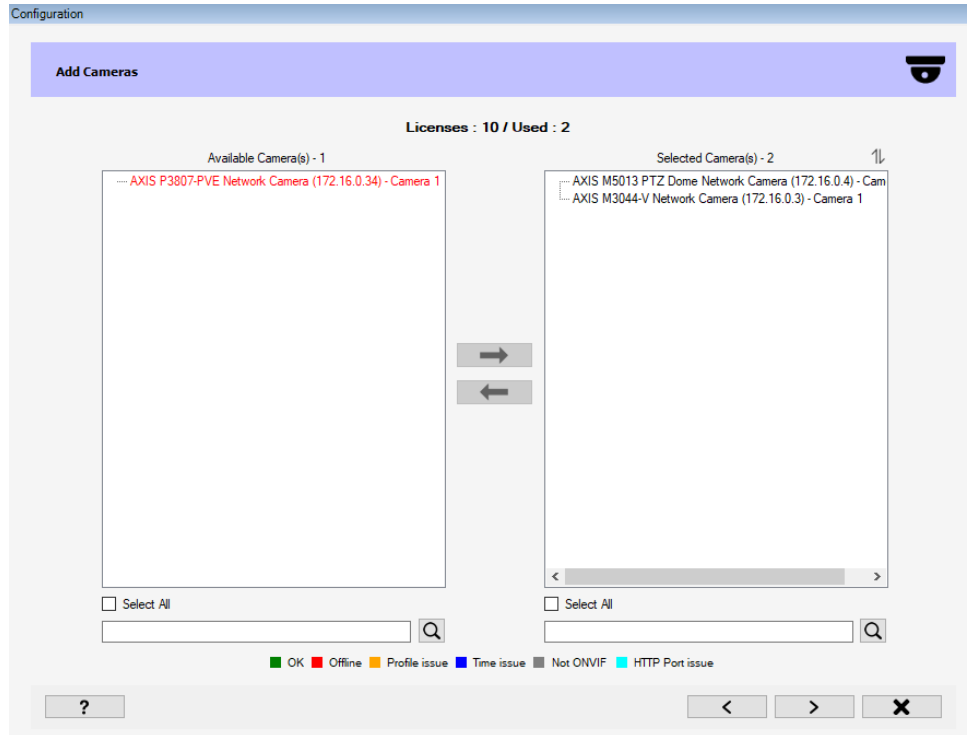


Unicast:

9. Selecting 'Unicast' will initiate a unicast stream from cameras to clients over an HTTP tunnel.
10. Select the "Unicast" option and click on Next.



11. Check the “Select All” option and click on the “Add” button.
12. SureStream will move all ‘green’ cameras to the “Selected Cameras” list.



13. The user can also move one or more cameras from the “Available Cameras” list to the “Selected Cameras” list by selecting the cameras and clicking on the “Add” button.
14. The user can remove all the cameras from the “Selected Cameras” list by clicking the “Remove All” button. Also, the user can remove one or more cameras by selecting them and clicking on the “Remove” button.

Either (Unicast/Multicast):

15. Selecting 'Either' will configure all cameras listed in green color. When the user streams video in this mode, Sure Stream in the Smart Client fetches multicast video if the camera supports it. Else, we default to unicast video.
16. Select the “Either (Unicast / Multicast)” option and click on Next.

Configuration

**Add Cameras**

Multicast Settings

Multicast IP address / Range:  to  (Range : 239.0.0.0 to 239.255.255.254)

Multicast RTP Port:  (Even # in the Range : 1024 to 65534)

Licenses : 10 / Used : 0

Available Camera(s) - 3

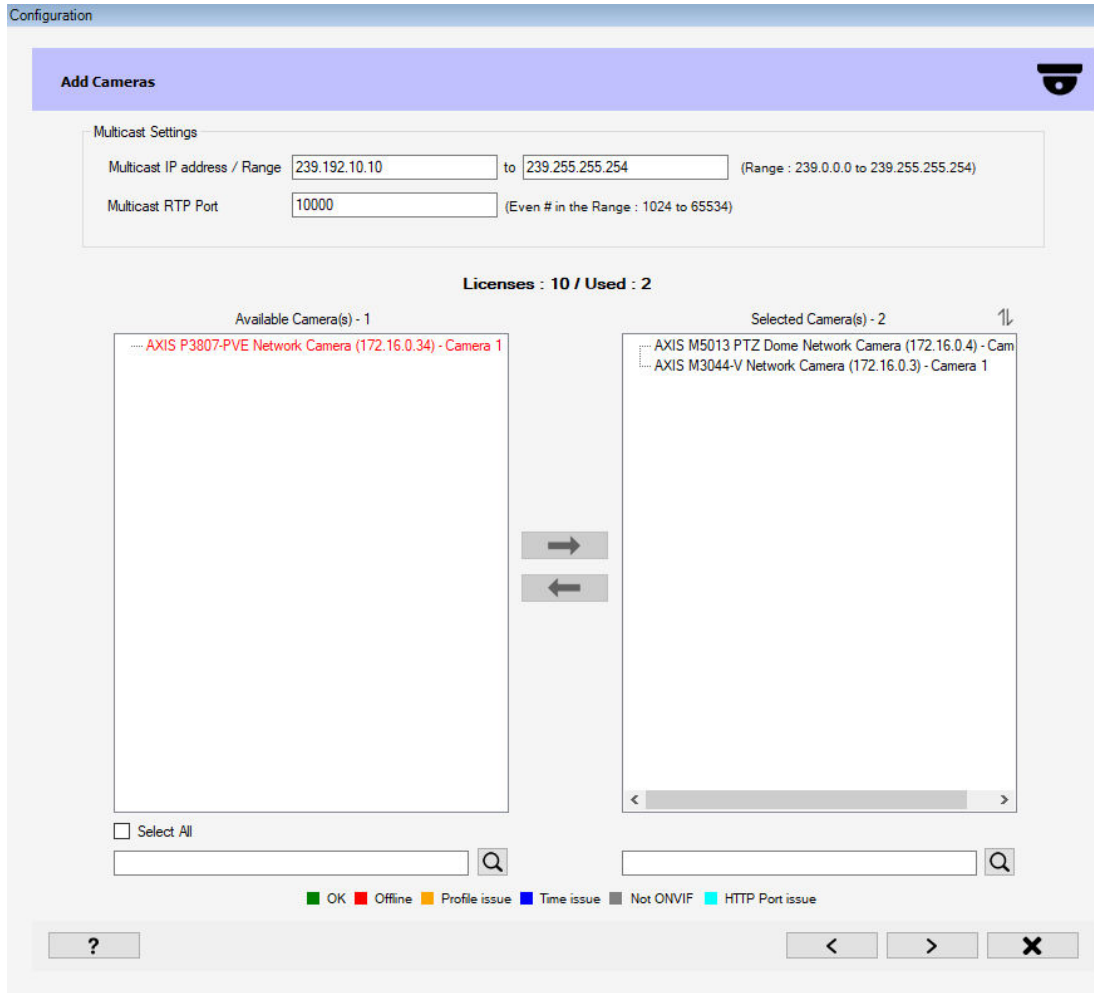
- AXIS M3044-V Network Camera (172.16.0.3) - Camera 1
- AXIS M5013 PTZ Dome Network Camera (172.16.0.4) - Cam
- AXIS P3807-PVE Network Camera (172.16.0.34) - Camera 1

Selected Camera(s) - 0

Select All

■ OK
 ■ Offline
 ■ Profile issue
 ■ Time issue
 ■ Not ONVIF
 ■ HTTP Port issue

17. Enter the “Multicast IPs” in the From and the To field. (Range: 239.0.0.0 to 239.255.255.255)
18. Enter the “Port Number” in the available field. (Range: Even numbers in the range 1024 to 65534)
19. Check the “Select All” option and click on the “Add” button.
20. SureStream will move all ‘green’ cameras to the “Selected Cameras” list if the entered IP address and Port range are sufficient.

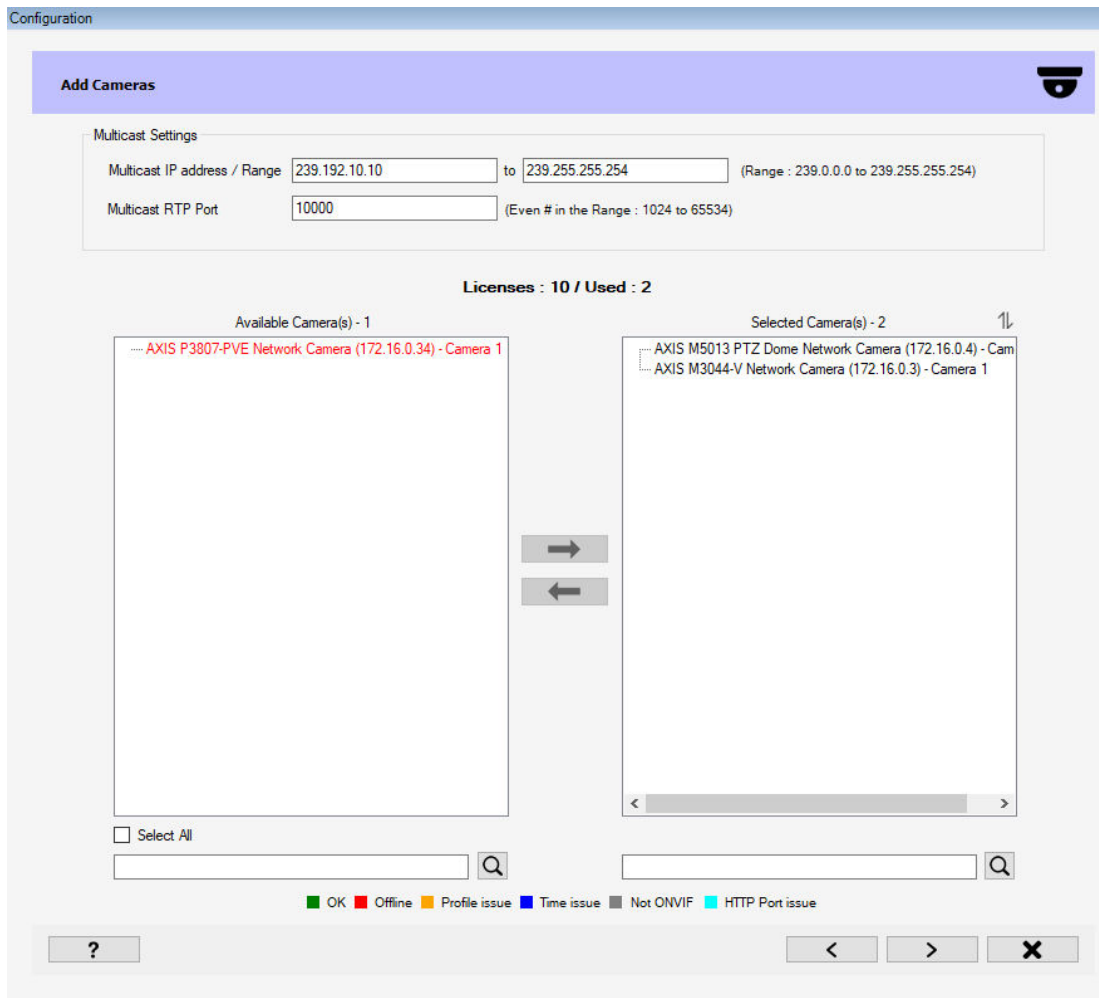


21. The user can also move one or more cameras from the “Available Cameras” list to the “Selected Cameras” list by selecting the cameras and clicking on the “Add” button.
22. The user can remove all the cameras from the “Selected Cameras” list by clicking the “Remove All” button. Also, the user can remove one or more cameras by selecting them and clicking on the “Remove” button.

#### Multicast:

23. Selecting ‘Multicast’ will configure only cameras that support ONVIF multicast transmission.
24. Select the “ Multicast” option and click on Next.
25. Enter the “Multicast IPs” in the From and the To field. (Range: 239.0.0.0 to 239.255.255.255)
26. Enter the “Port Number” in the available field. (Range: Even numbers in the range 1024 to 65534)
27. Check the “Select All” option and click on the “Add” button.
28. If the entered IP address and Port range are sufficient, SureStream will move all ‘green’

## cameras to the “Selected Cameras” list



Configuration

**Add Cameras**

Multicast Settings

Multicast IP address / Range:  to  (Range : 239.0.0.0 to 239.255.255.254)

Multicast RTP Port:  (Even # in the Range : 1024 to 65534)

Licenses : 10 / Used : 2

Available Camera(s) - 1

- AXIS P3807-PVE Network Camera (172.16.0.34) - Camera 1

Selected Camera(s) - 2

- AXIS M5013 PTZ Dome Network Camera (172.16.0.4) - Cam
- AXIS M3044-V Network Camera (172.16.0.3) - Camera 1

Select All

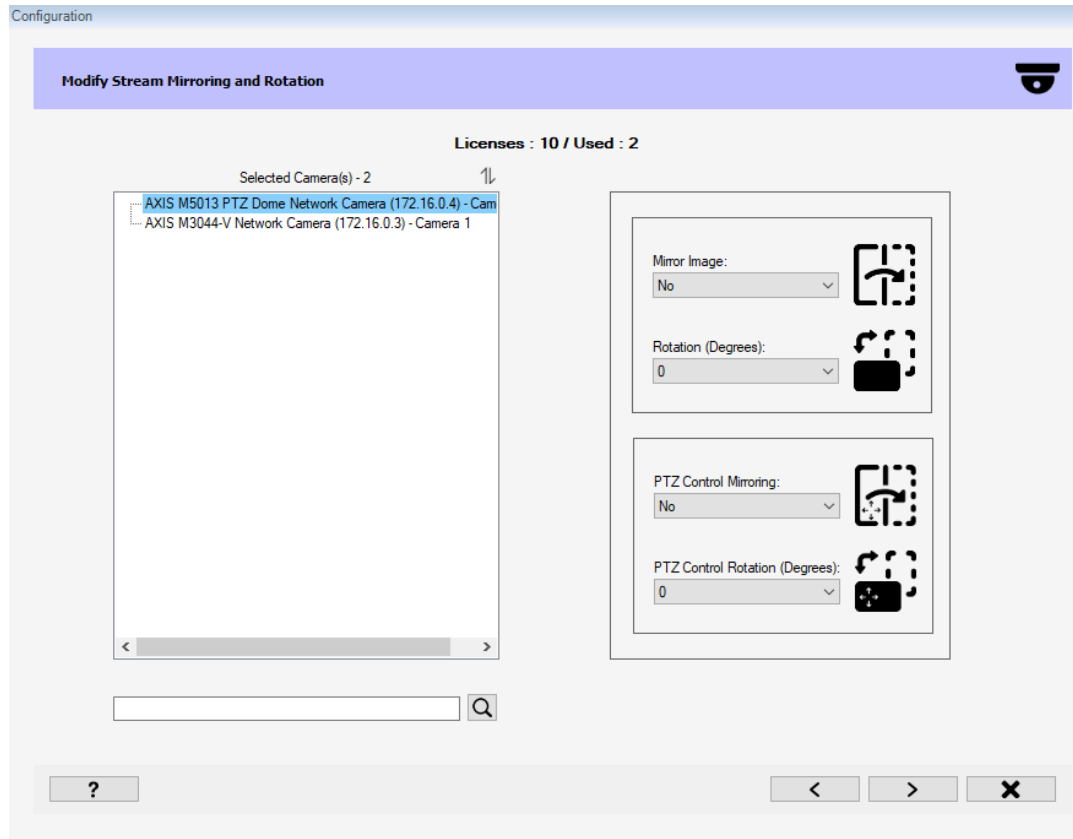
■ OK 
 ■ Offline 
 ■ Profile issue 
 ■ Time issue 
 ■ Not ONVIF 
 ■ HTTP Port issue

? < > X

29. The user can also move one or more cameras from the “Available Cameras” list to the “Selected Cameras” list by selecting the cameras and clicking on the “Add” button.
30. The user can remove all the cameras from the “Selected Cameras” list by clicking the “Remove All” button. Also, the user can remove one or more cameras by selecting them and clicking on the “Remove” button.

## Stream Mirroring and Rotation.

31. If the camera installation orientations require image rotation and mirroring. We can change the mirroring and rotation on a camera's view by selecting the individual cameras from the list and setting the required orientation.
32. For PTZ cameras, PTZ movement will be auto-adjusted based on the stream's mirroring and rotation.
33. Users can also override PTZ movement mirroring and rotation using the control provided on this page.



## Smart Client Overlay

Check the “Enable Overlay” option to display the overlay in Smart Client. The overlay should display resolution, codec type, and camera FPS.



## Smart Client Token Timeout

Smart Clients periodically authenticate themselves with the Management Server. So, if the management server is offline, Smart Clients automatically log out after a time-out period. If this happens, Smart Client live streams stop. To avoid this, one may need to extend the Smart Client auto timeout period based on the expected management server repair time. Click on the instruction button and follow the steps to set the token timeout.



Click on the “Finish” button, then click on the "Save" button in the management client toolbar to complete the SureStream configuration.

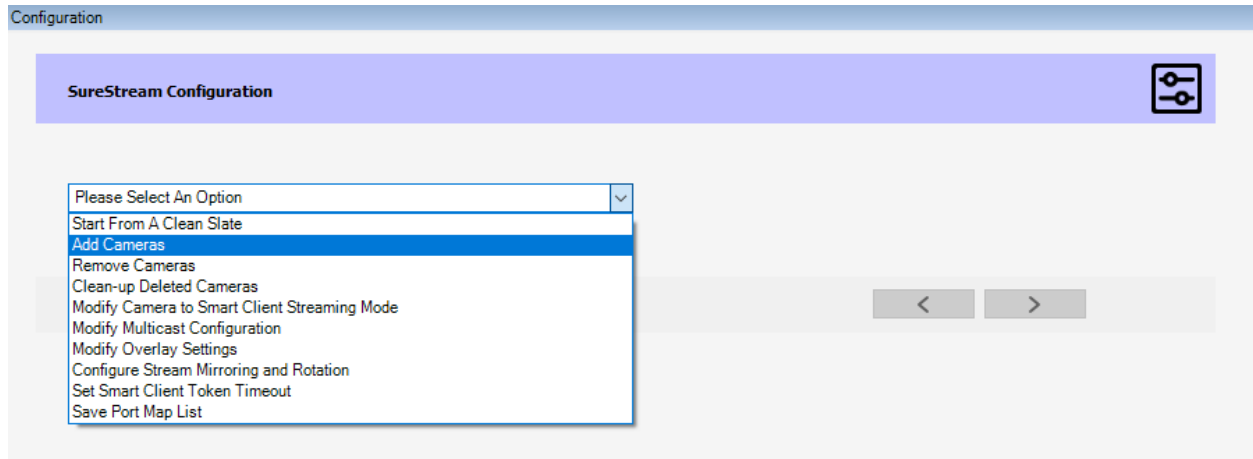


# Modify Settings

## Add Cameras

To add new cameras to SureStream, please follow the below steps

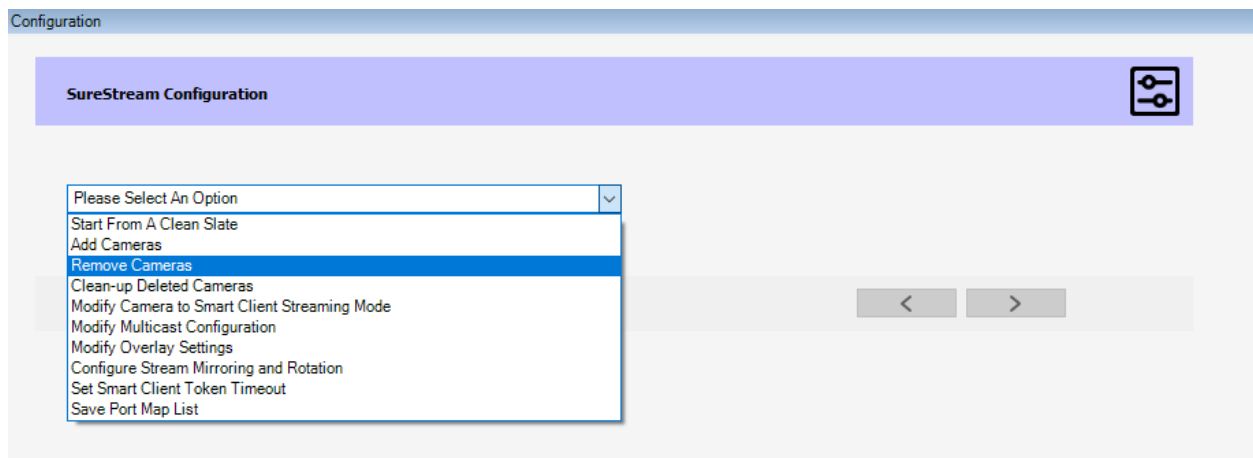
1. Go to the SureStream Configuration page
2. Select the option “Add Cameras” from the drop-down list.
3. Follow the wizard to add cameras.



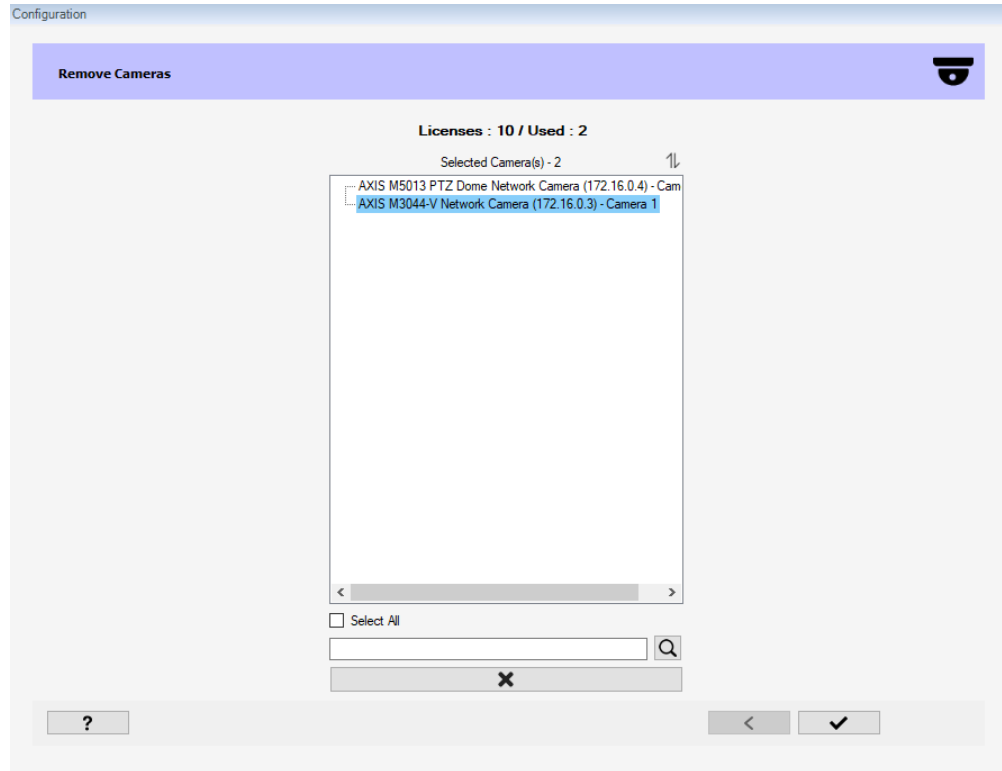
## Remove Cameras

To remove cameras from the licensed list:

1. Go to the SureStream Configuration page
2. Select the option “Remove Cameras” from the drop-down list.



3. Follow the wizard to remove cameras.

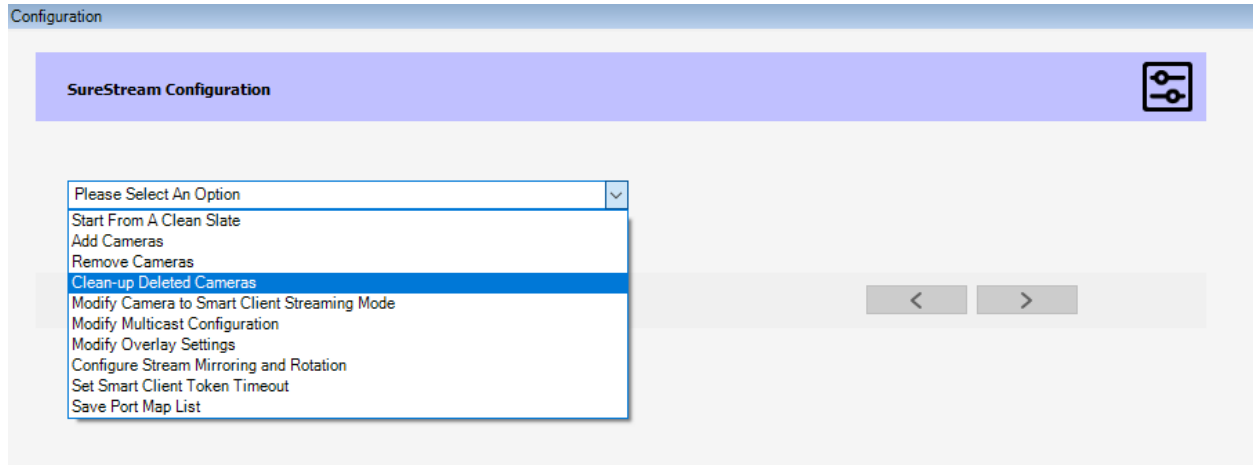


4. Select cameras to remove.
5. Click on the “X” button to remove the cameras.
6. Then, click on the "Finish" button and click on the “Save” in the Management Client application.

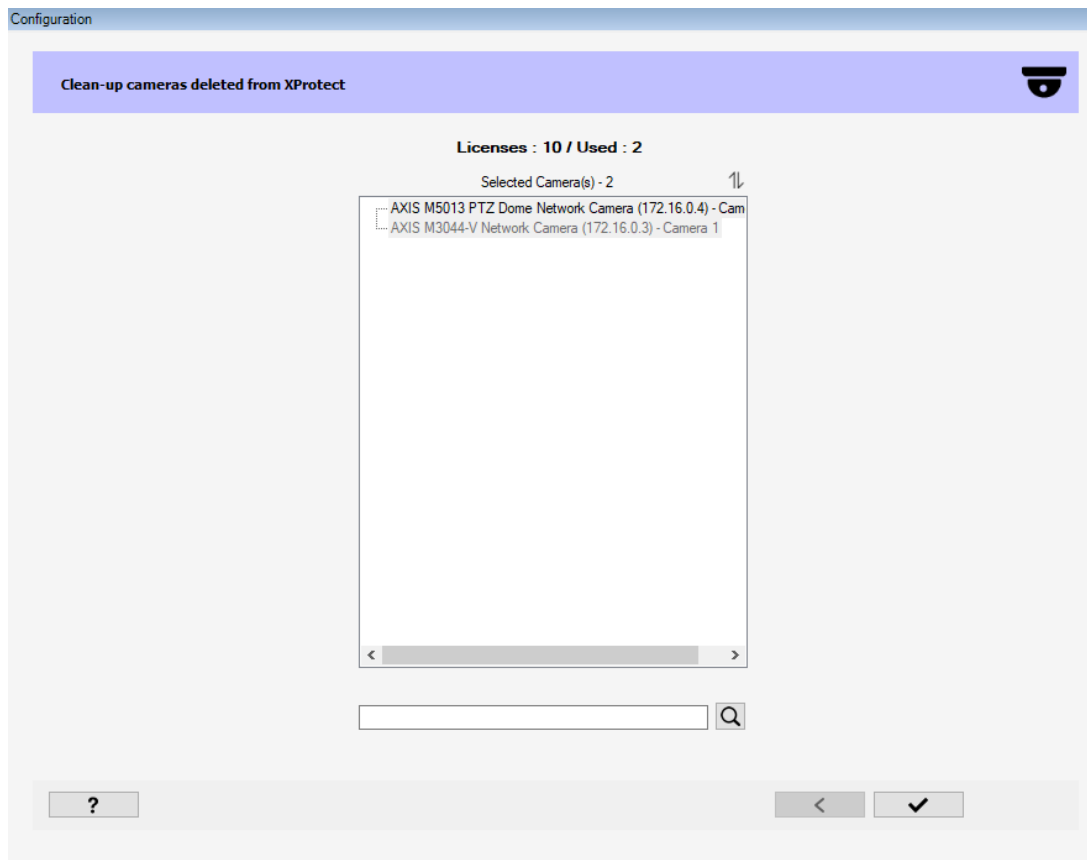
## Clean-up Deleted Cameras

We can remove SureStream cameras deleted from XProtect by selecting the clean-up option in the plugin. Please follow the below steps to clean up.

1. Go to the SureStream Configuration page.
2. Select the option “Clean-up Deleted Cameras” from the drop-down list



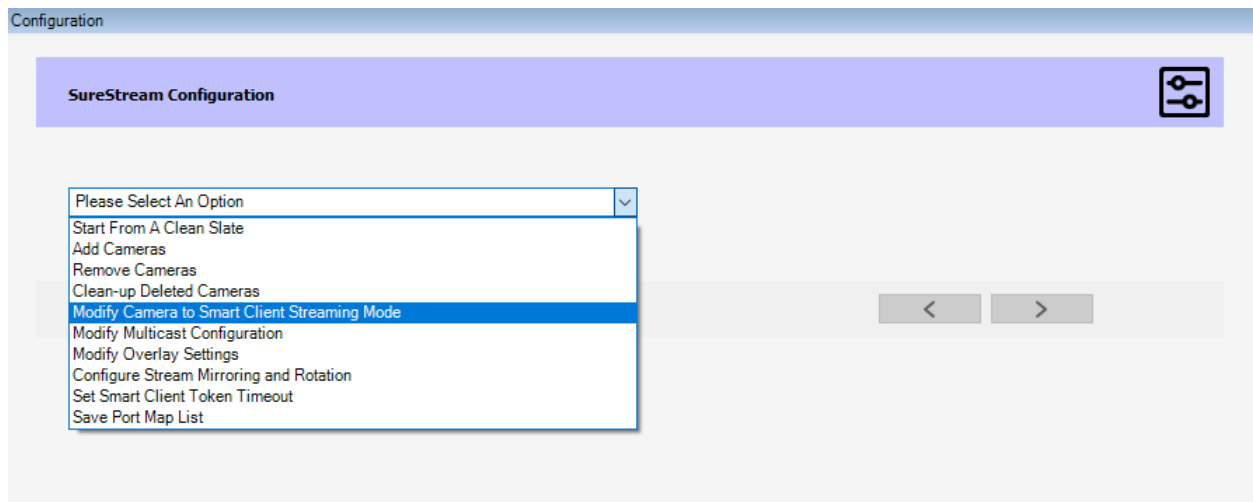
3. Cameras deleted on XProtect will automatically be removed from SureStream.



## Modify Cameras to Smart Client Streaming Mode

To make changes to streaming:

1. Go to the SureStream Configuration page
2. Select the option “Modify Cameras to Smart Client Streaming Mode” from the drop-down list.

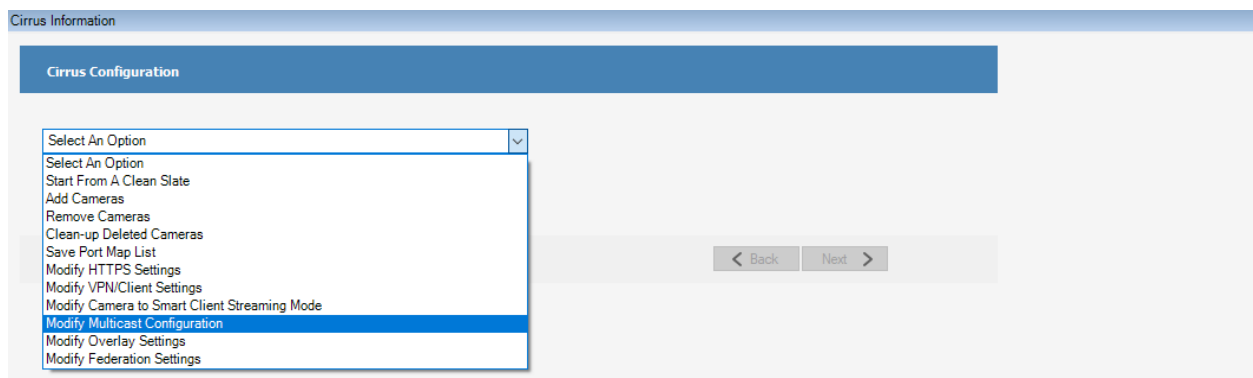


3. Follow the wizard to make changes.

## Modify Multicast Configuration

To make changes to multicast settings:

1. Go to the SureStream Configuration page
2. Select the option “Modify Multicast Configuration” from the drop-down list



3. We see:

Configuration

**Modify Multicast Configuration**

**Step 1 : Select one or more cameras to modify multicast settings on.**

Licenses : 10 / Used : 2

Selected Camera(s) - 2

- AXIS M5013 PTZ Dome Network Camera (172.16.0.4) - Cam
- AXIS M3044-V Network Camera (172.16.0.3) - Camera 1

Select All

**Step 2 : Provide the Multicast IP range and Port.**

Multicast Settings

Multicast IP address / Range:  to  (Range : 239.0.0.0 to 239.255.255.254)

Multicast RTP Port:  (Even # in the Range : 1024 to 65534)

**Step 3 : Click the Modify button to apply changes.**

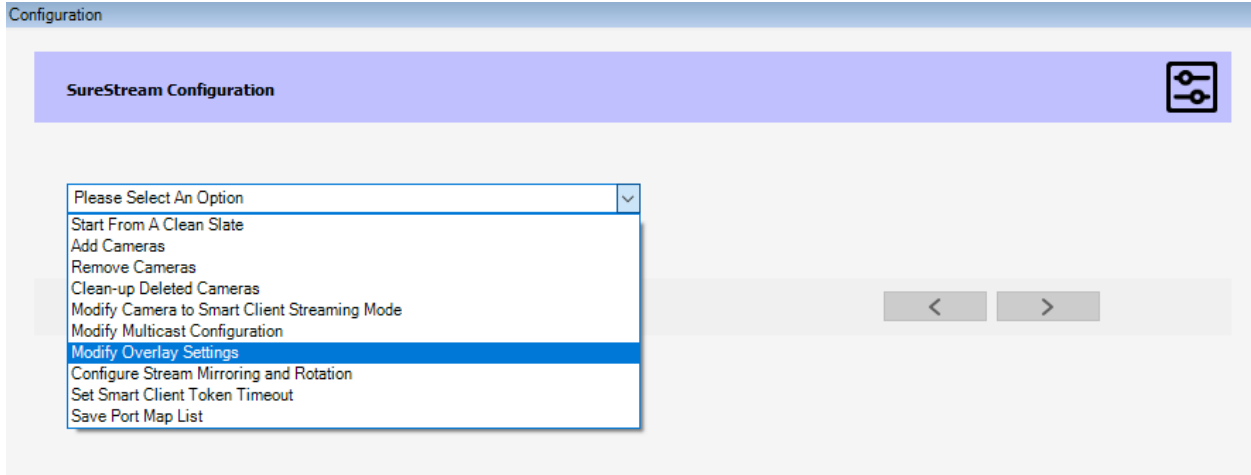
4. Please select cameras and update multicast IP addresses and port numbers.
5. Then, click on the “Modify” button.
6. Finally, click on the Finish button.

## Modify Overlay Settings

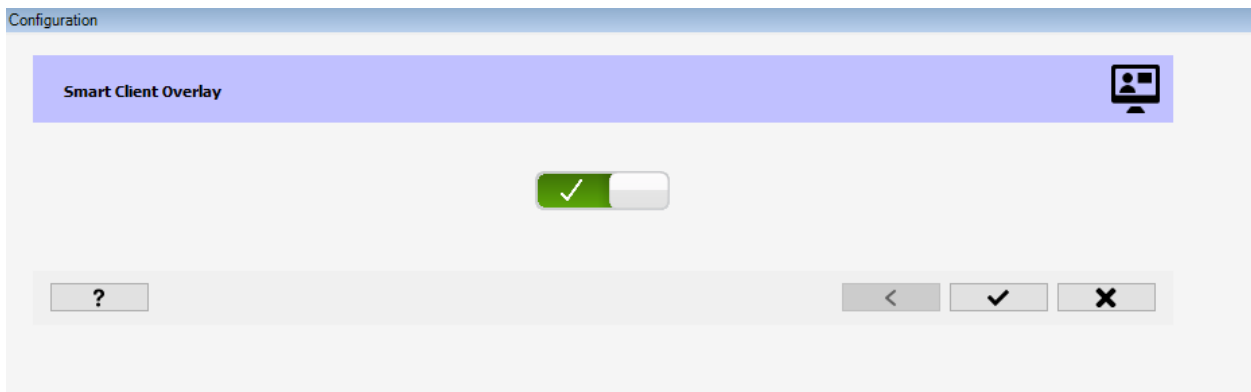
Smart client overlay provides information about the stream type, resolution, and frame rate used by SureStream.

To change Smart Client overlay settings:

1. Go to the SureStream Configuration page
2. Select the option “Modify Overlay Settings” from the drop-down list.



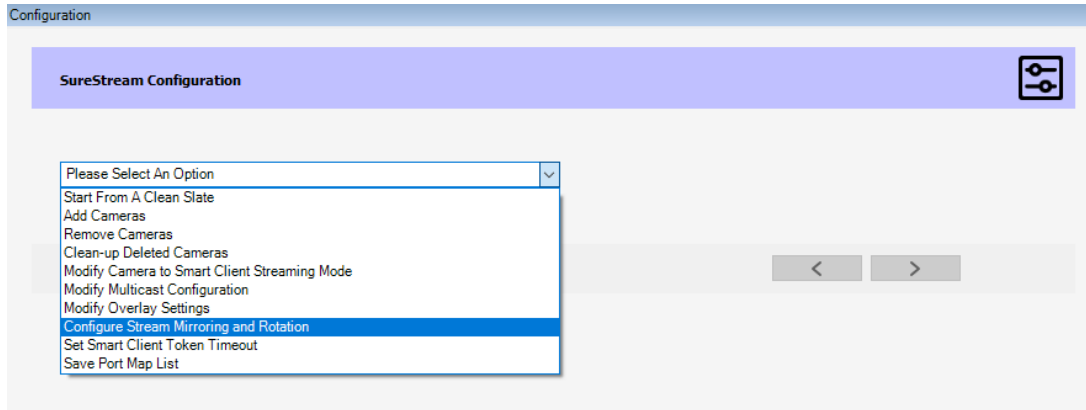
### 3. Configure as needed



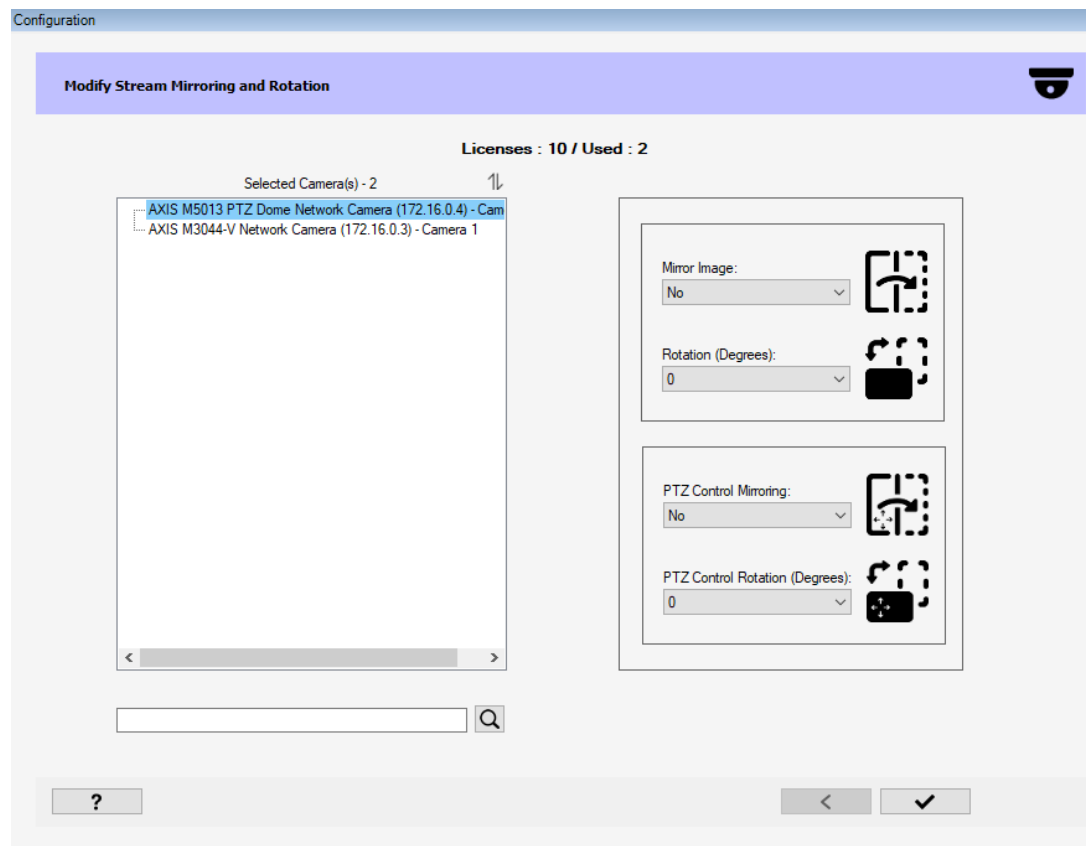
## Configure Stream Mirroring and Rotation

Users can change the mirroring and rotation on a camera's view in SureStream by selecting the individual cameras from the list and setting the required orientation. To make changes to

1. Go to the SureStream Configuration page.
2. Select the option "Configure Stream Mirroring and Rotation" from the drop-down list.



### 3. We See:

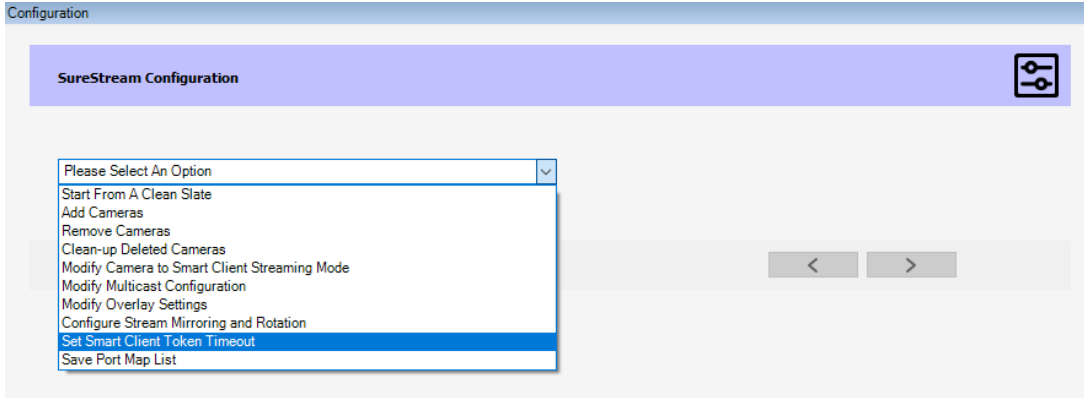


4. Select the camera and configure it as needed
5. Click on the Finish button.

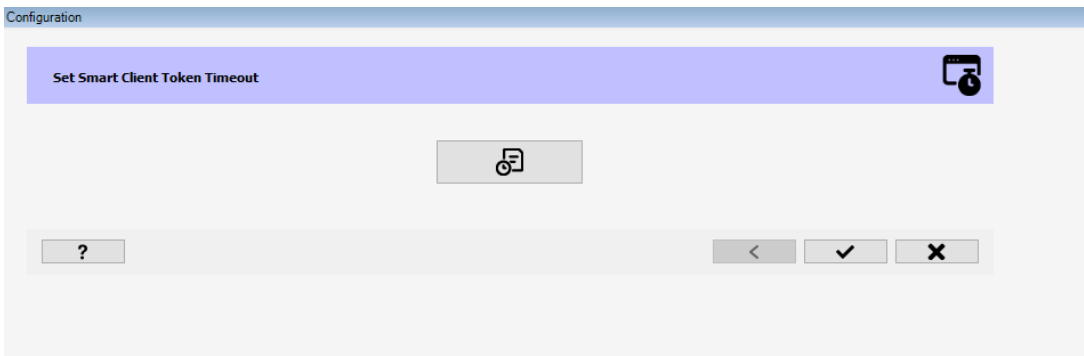
## Set Smart Client Token Timeout

To make changes to Smart Client Token Timeout, follow the below steps.

1. Go to the SureStream Configuration page.
2. Select the option "Set Smart Client Token Timeout" from the drop-down list.



### 3. We See:



4. Click on the instruction button and follow the steps to change the token timeout value.

## Save Port Map List

Network Administrators need to know the list of all ports that need to be open for communication between SureStream and cameras. Select “Save Port Map List” on the configuration page to view/save a list of all needed ports. Note that this list changes dynamically based on camera capabilities and configuration choices.

Camera Name	IP Address	Multicast IP Add...	Multicast RTP/UDP Po...	Multicast R...	RTSP/TCP ...	HTTP Port for b...
AXIS M5013 PTZ Dome Network Camera (172.16.0.4) ...	172.16.0.4	239.192.10.11	10000	10001	554	80
AXIS M3044-V Network Camera (172.16.0.3) - Camera 1	172.16.0.3:11000	239.192.10.10	10000	10001	554	11000

Port information is saved to C:\Users\vegad\Documents\CameraList.csv

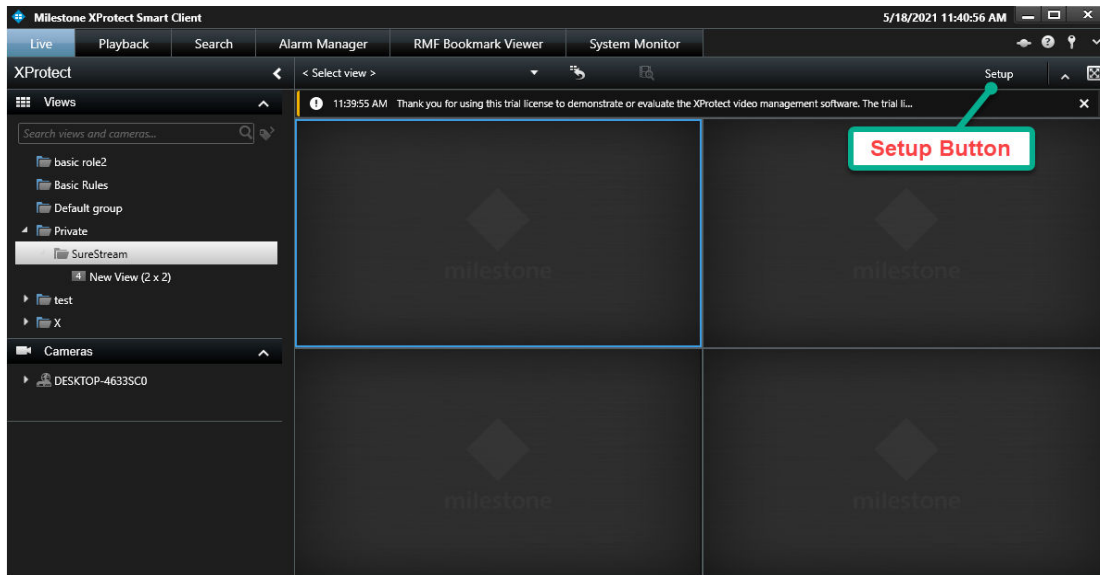


## Smart Client Live View plugin

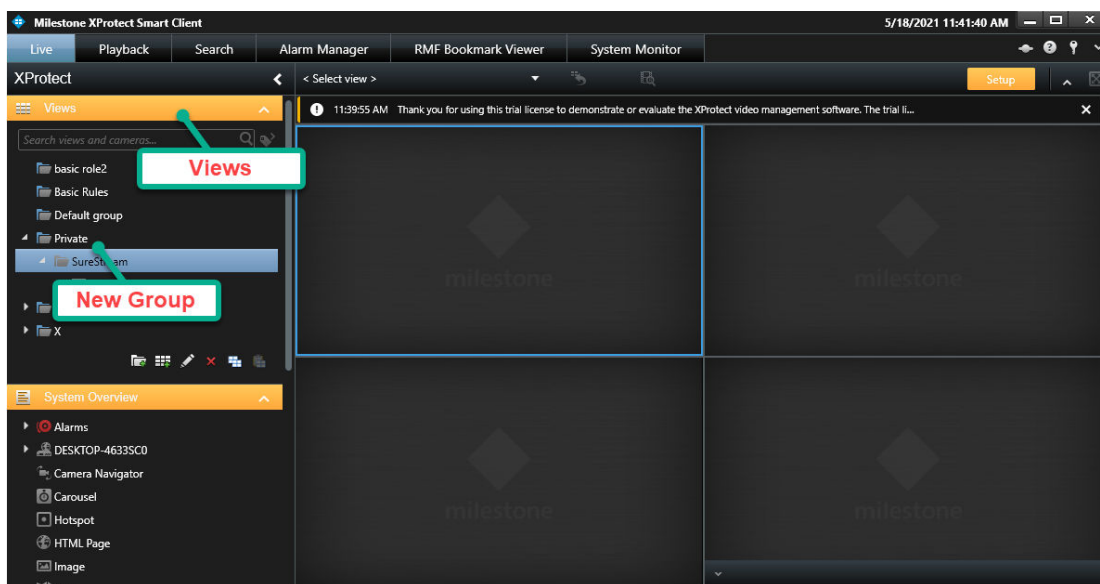
To configure SureStream in the Smart Client, install the SureStream on each Smart Client machine.

### Adding a SureStream View

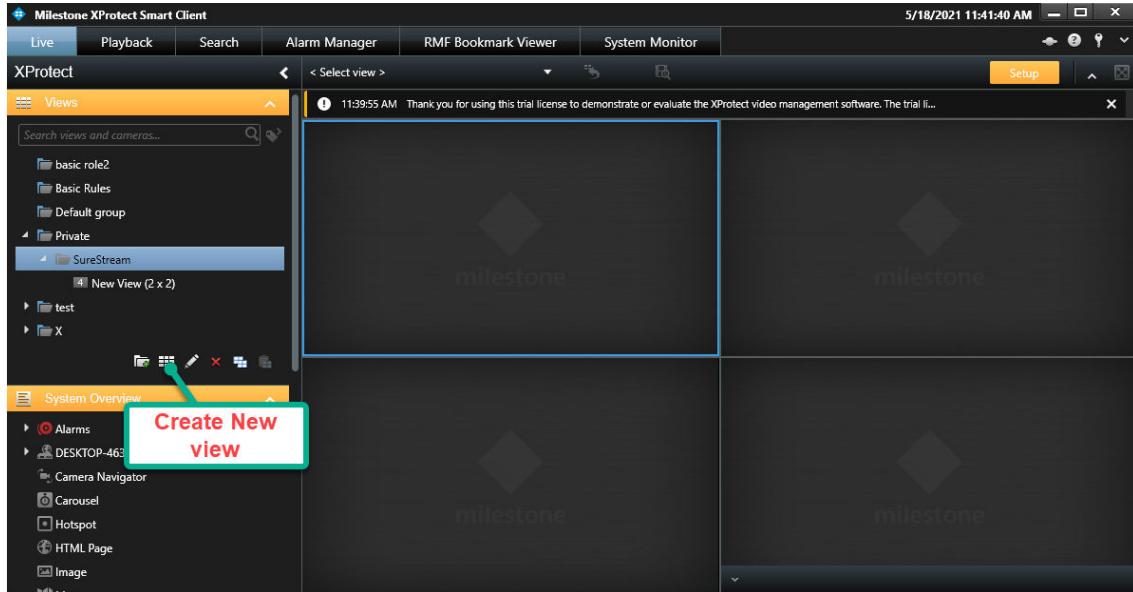
1. Open the "Smart Client" application.
2. Click on the "Setup" button.



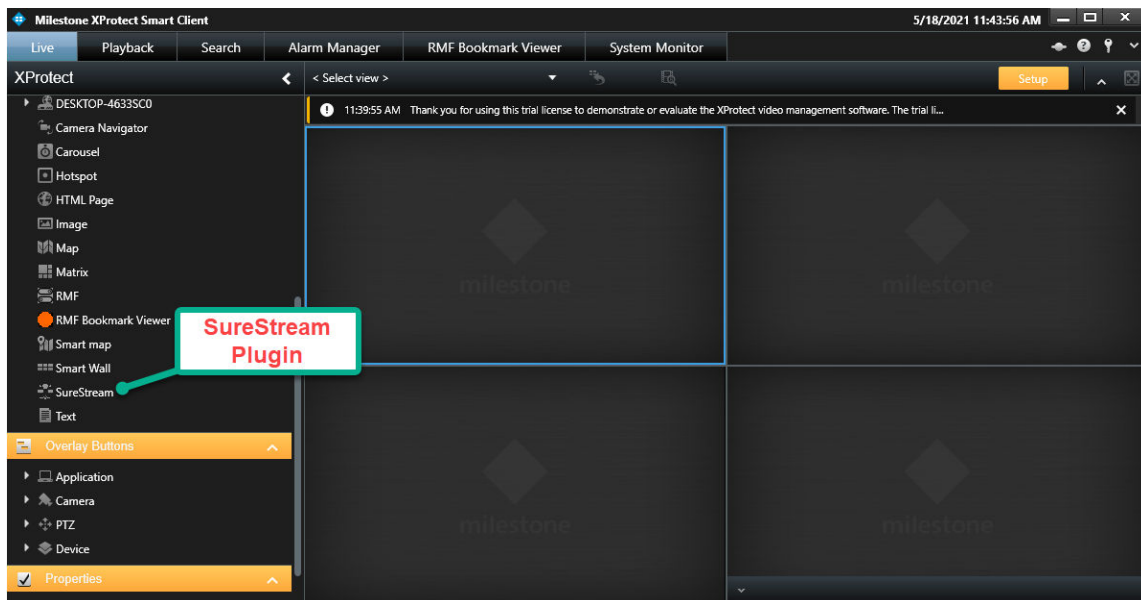
3. Goto "Views" and click on "New Group."



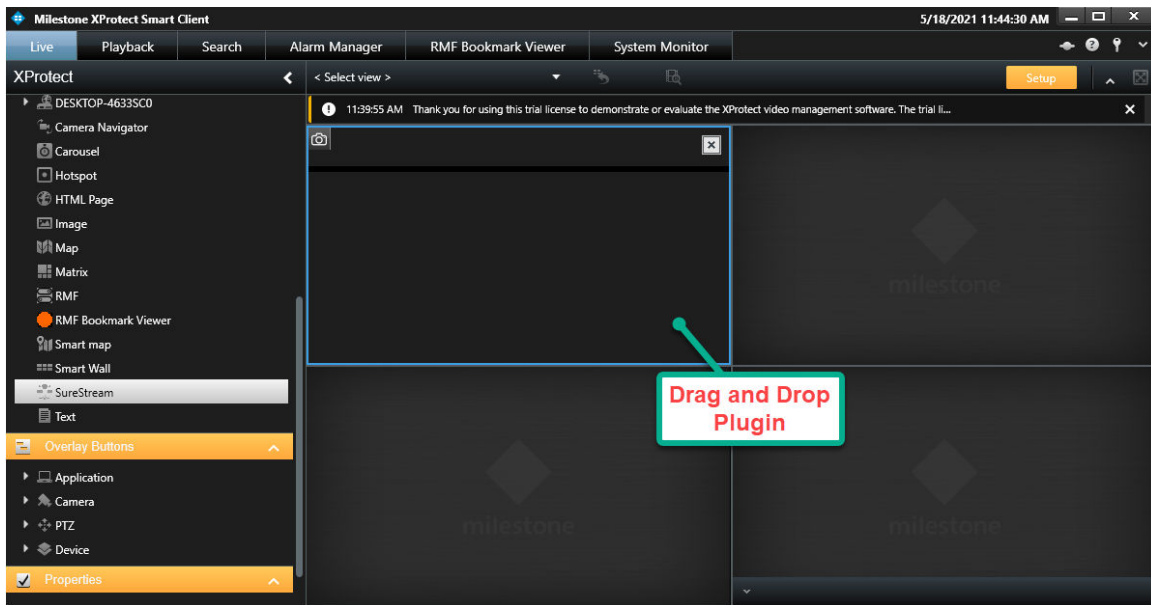
4. Click on "Create New View" and select the required view.



5. Go to "SureStream Plugin" in the "System Overview" tab.



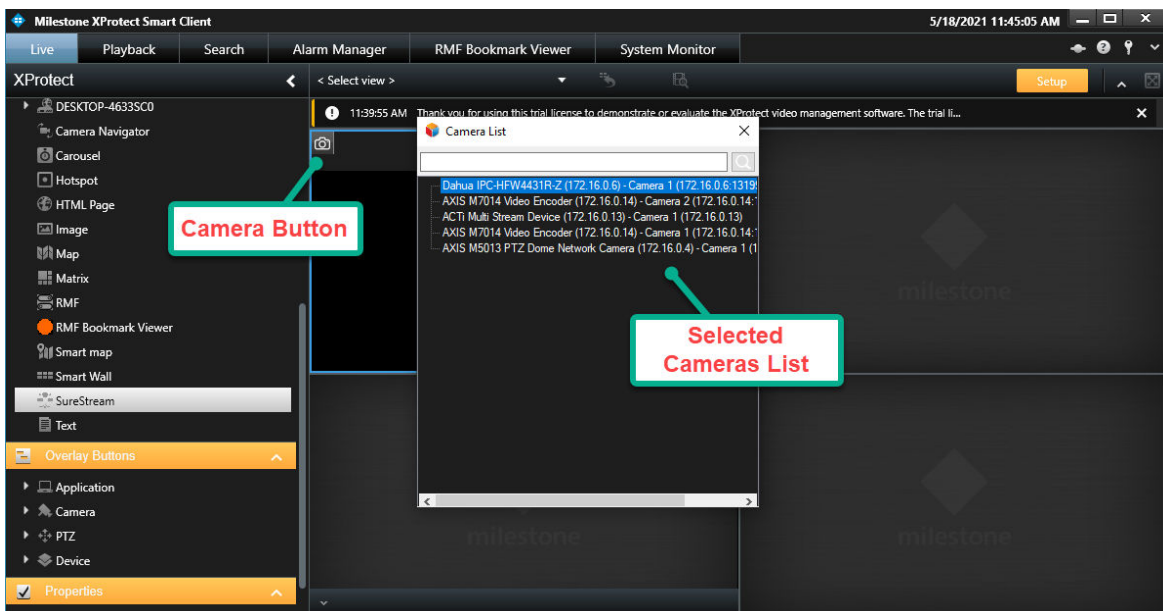
6. Drag and Drop the "SureStream" plugin to a new view.



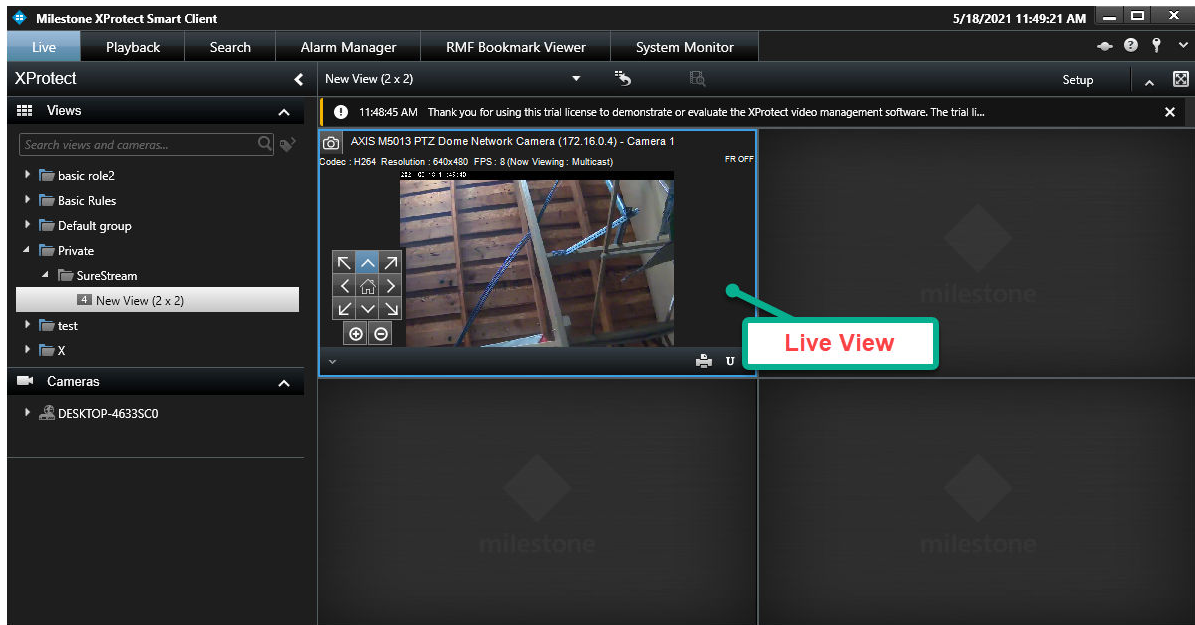
- Repeat Step 6 to configure the plugin for all windows in the created view. (ex - if you made a 2 X 2 view, you drag and drop the plugin for all four views individually).

## Selecting a Camera

- Click on the button "Camera Icon," present in the top-left side corner in a view window.
- Upon clicking "Camera Icon," a SureStream camera list will pop up. This window is a list of selected cameras for the Multicast stream.

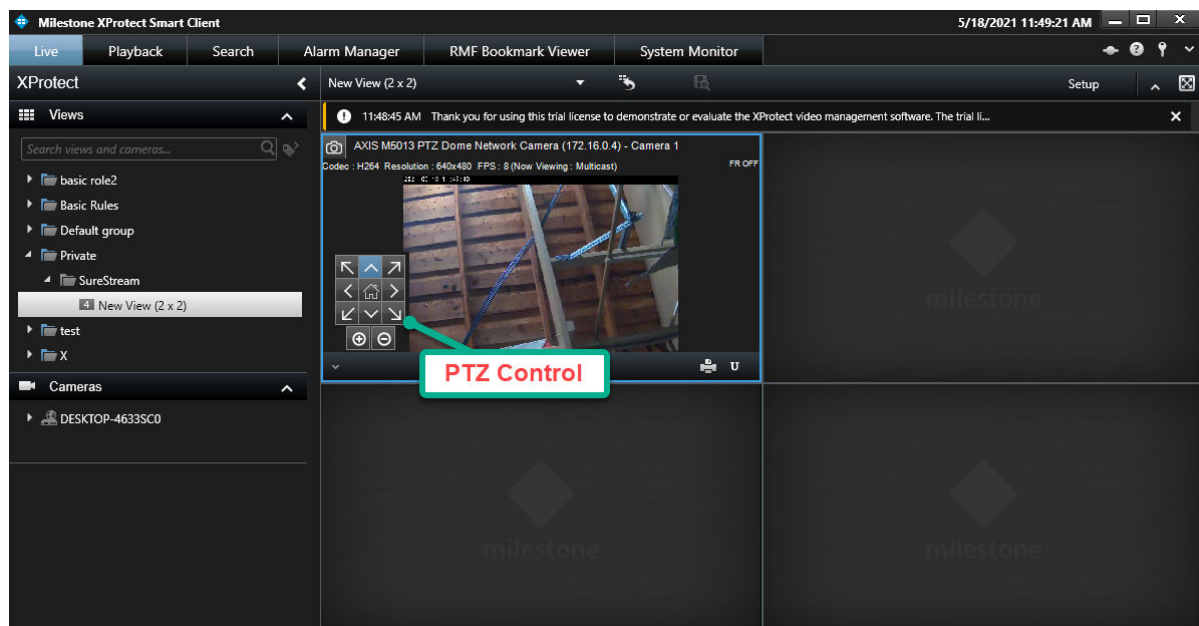


10. Double click on the required camera in the list to select it.
11. Follow Step 10 for all the remaining views.
12. Click on the "Setup" button to switch to the live view. You should now see the live videos from each stream directly from the cameras.



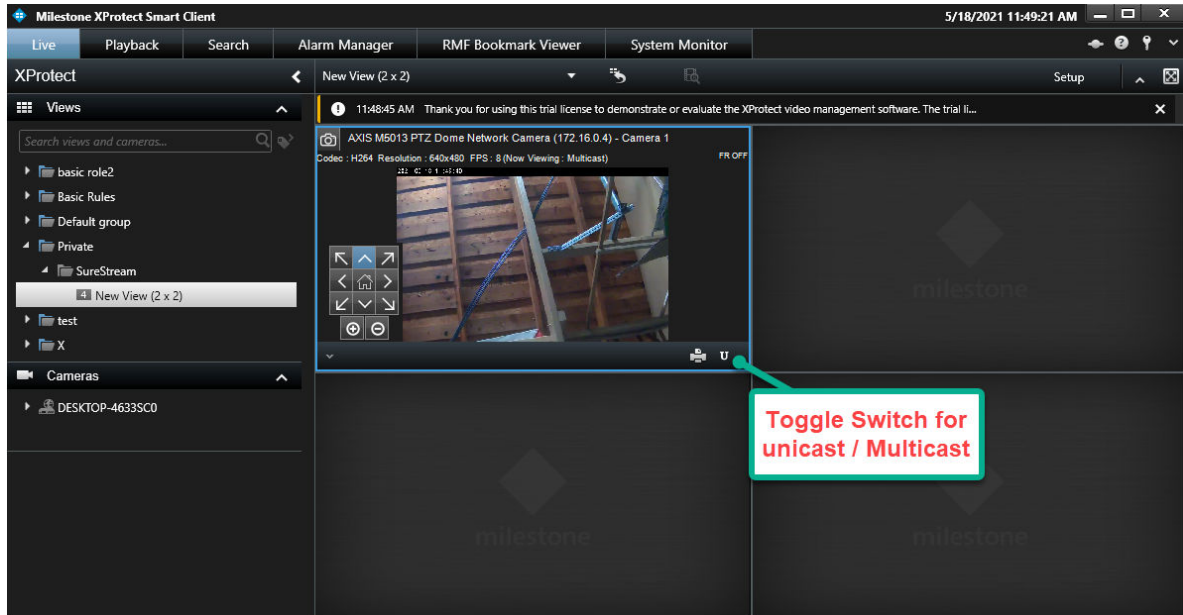
## PTZ Support

13. If the selected cameras support PTZ, SureStream will display a PTZ control.



## Toggle Streaming

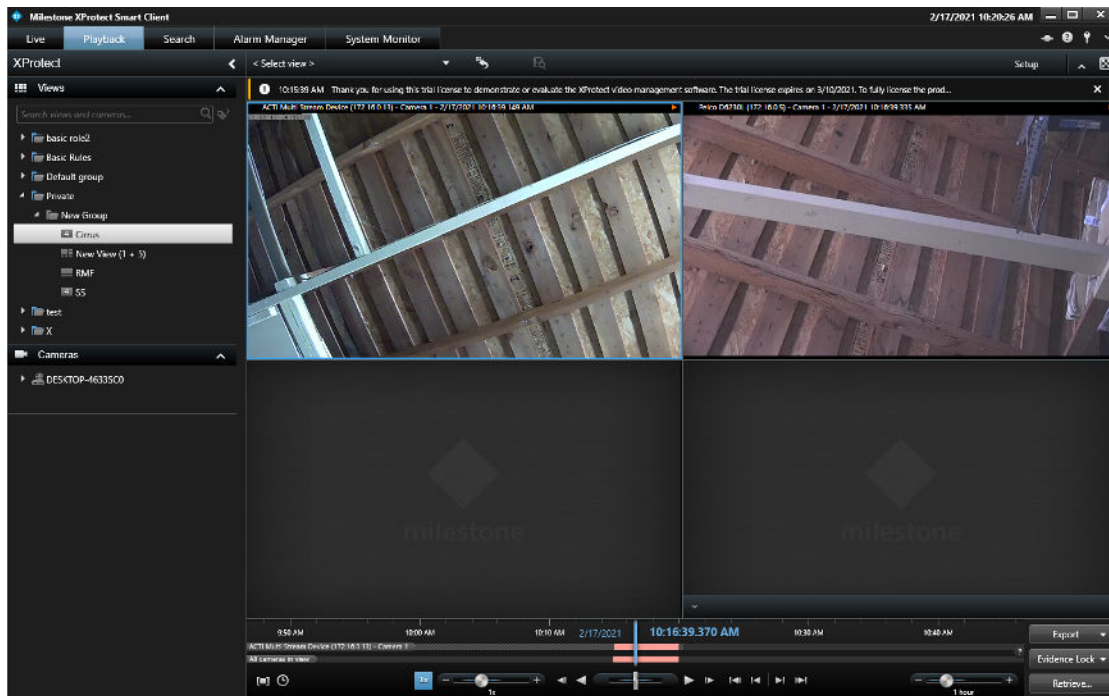
14. A toggle switch is available in the toolbar to switch the stream from Unicast to Multicast and vice-versa if the streaming mode selected in the management client is 'either' and for those cameras that support both methods.



15. One can go back to set up and close a window if needed.

# Playback

SureStream fetches playback video from the recording server.



# Contact Us

Vega Systems Inc.,  
1999 S Bascom Ave #700,  
Campbell, CA 95008  
USA  
[sales@vega25.com](mailto:sales@vega25.com)