

# **User's Manual**

# EIZO Video Wall Plugin for Milestone XProtect

Version 1.0

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# **Overview**

# **System Overview**

### **Basic Information**



The EIZO Video Wall Plugin consists of 2 additions to the XProtect system:

- An XProtect Management Client integration
- An XProtect Smart Client integration

# **Plugin Dependencies**

**EIZO IP Decoder Products (hereinafter referred to as IP monitors)** 

- Version : 5.5000 or greater
- A valid enterprise license has been activated

### **XProtect System**

- Windows 10 64-bit
- XProtect edition : Corporate, Expert, Professional+, Express+
- XProtect version : 2021 R1
- Milestone Open Network Bridge version : 2021 R1
- The EIZO Video Wall Plugin version : 1.0.1.1

# **Plugin Installation**

Please check the EIZO website for information on how to obtain the installer.

### **Installation Prerequisites**

To ensure a successful installation the following should be completed before running the installer:

- All local Management Clients and Smart Clients must be closed
- The Event Server Window's service should be stopped

### Note:

In the event that the above programs have not been closed properly, a Files In Use screen may be displayed to show which programs are still open.

🛃 Eizo Video Wall Plugin Setup 🛛 🕹
Files in Use Some files that need to be updated are currently in use.
The following applications are using files that need to be updated by this setup.
Administration Client Client Milestone XProtect Event Server
Automatically close applications and attempt to restart them after setup is complete O Do not close applications (a reboot will be required)
Advanced Installer OK Cancel

To resume the installation, select

"Automatically close applications and attempt to restart them after setup is complete" and click the "OK" button.

### **Plugin Install Locations**

- C:\Program Files\VideoOS\MIPPlugins
- C:\Program Files\Milestone\MIPPlugins

### Note:

The user must choose from the above install locations and should check that a new folder named **EIZOVideoWallPlugin** appears at the end of the path.

eg: C:\Program Files\VideoOS\MIPPlugins\EIZOVideoWallPlugin

### Note:

The XProtect Event Server must be restarted after installation.

### **To Uninstall**

Run the installer software after the plugin has been installed and select the **Remove** option to uninstall.

### Note:

- Before uninstallation, it is expected that the user has manually deleted all EIZO Video Wall entitities from the XProtect Management Client.
- Modify option currently unimplemented.

记 Eizo Video Wall Plugi	in Setup X
Modify, Repair or Re Select the operation	move installation you wish to perform.
	<u>M</u> odify Allows users to change the way features are installed.
	<b>Repair</b> Repairs errors in the most recent installation state - fixes missing or corrupt files, shortcuts and registry entries.
	<u>Remove</u> Removes Eizo Video Wall Plugin from your computer.
Advanced Installer ———	< Back Next > Cancel

# **XProtect Management Client**

### **Management Client Overview**

## A new EIZO Video Wall section has been added to the **Site Navigation**.

Allows for:

- Registering EIZO IP-monitor devices to XProtect video-walls
- Arranging multiple IP-monitors in a video wall layout
- Creating presets for IP-monitors layouts
- Registering cameras to IP-monitors

# **XProtect Smart Client**

### **Smart Client Overview**

A new content item has been added to the **System Overview** pane.

EIZO Video Walls - the EIZO Video Wall for controlling IP-monitor devices.

### Allows for:

- Monitoring video-walls with IP-monitor devices
- Getting layouts and registered cameras from IP-monitors
- Managing errors and alerts

### Streaming

### Server

The **Milestone Open Network Bridge** is required as the streaming gateway server.

### Streaming Protocol

- RTP over UDP
- RTP over RTSP

### Video Codec

• H.264

# **XProtect Management Client**

## **Overview**

The XProtect Management Client allows users to create and configure multiple entities of **EIZO Video Walls** in the XProtect VMS.

All EIZO Video Wall settings can be configured from the **EIZO Video Wall** section of the XProtect Management Client.



# Prerequisites

To display camera streams on EIZO IP-monitors via the Milestone Open Network Bridge, the following settings should be configured in advance.

An **EIZO Video Wall** tab has been added to **XProtect Management Client --> Tools --> Options**.

Options						×
Analytics Events	Sustomer	Dashboard	Alarms and Events	Generic Events	EIZO Video Wall	< >
Options						
ONVIF Settings						
IP Address		192.168.0.22	3			
Port		554				
Protocol		directUri				
Communication	Method	udp	~			
Username		test				
Password		•••••				
Uri		rtsp://192.1	68.0.223:554/live/			
Save						
	1			_	OK	Orrest
Help					UK	Cancel

- IP Address: Milestone Open Network Bridge server address
- Port: **RTSP Port** of Open Network Bridge
- Username: Open Network Bridge user credentials as administrators
- Password: password for the above user
- Uri: "rtsp://server address:rtsp port/live/"

# **Setup Procedure**

### 1) Creating EIZO Video Walls

An EIZO Video Wall is an entity used to remotely control EIZO IP-monitor devices via XProtect. This entity may include multiple mimic templates and presets used to manage the registered devices.

Create an EIZO Video Wall by right clicking on the **Configuration** pane and selecting **Add EIZO Video Wall**. A new Video-Wall will be created with configurable **Presets** and **Monitors**.

### 2) Registering Monitors

A **Monitor** entity refers to the mimic template of an EIZO IP-monitor device, which can be used to configure cameras and screen layouts remotely.

A new monitor can be created by right clicking the **Monitors** entity in the EIZO Video Wall and selecting **Add Monitor**.

The following information is required in order to register a device.

Field	Description
Name	The name of the EIZO IP-monitor (optional).
IP Address	The IP Address of the EIZO IP-monitor.
Username	The username used to log into the EIZO IP-monitor.
Password	The password used to log into the EIZO IP-monitor.
Port	The port for HTTP or HTTPS connections (must match the port set on the device)
Synchronization Monitoring	Allow all of the Smart Clients to check if the live screen settings of the IP-monitor match the Video-Wall settings.
Fullscreen	Display the EIZO IP-monitor as fullscreen.

It is also possible to change the settings under the Monitor's **Settings** -> **Edit** tab after adding an IP-monitor.

### **Registration Conditions:**

- The device version must be **5.2001 or greater**.
- The device must have an activated Enterprise License.
- The HTTP authentication method on the device must be set to **Digest**.

IP monitors will not be registered to the video wall if:

- A connection to the device cannot be made (eg: mismatched IP address or port setting)
- The username / password combination fails to authenticate

### 3) Adding Presets

Presets are used to define screen layouts and camera positionings for EIZO IP-monitor devices. A new preset can be created by right clicking the **Presets** entity in the EIZO Video Wall and selecting the **Add** button.

New Eizo video wall	Settings Resets	
Test     Test     Test	Name Description New Preset	Add Edit Remove
New Preset		Activate
New Monitor      New Preset settings		

### 4) Editing Presets

Navigate to the **Presets** tab under the **Monitors** entity, select a preset from the drop down and click **Edit** to display a list of layouts to choose from.



### Note: No more than 32 windows per layout

### **5) Activating Presets**

On the **Presets** tab of the Video-Wall, selecting a preset and clicking the **Activate** button will send that preset's layout and camera configuration to the live screen of all connected IP-monitors.

Add
Edit
Remove
Activate

### Remarks

### Saving Settings to the XProtect VMS Database

Any setting changes must be saved with the **Save** button at the top left of the XProtect Management Client.

-

### Note:

After making changes in the Management Client any open Smart Clients should also be refreshed in order to ensure up-to-date settings in the Smart Clients. This can be accomplished either by using the Restore Configuration button or by restarting the Smart Client application.

### **Reverting Unsaved Setting Changes**

Right clicking the **EIZO Video Wall** in the **Site Navigation** pannel and selecting **Refresh** will provide the option to revert any unsaved changes by reloading the plugin.



### **Checking the Device Connection Status**

Each monitor template in the preset tabs has a staus check button at the top right-hand corner. Clicking this checks the connection to the device and updates the monitor status color at the top of the template accordingly.



ColorStatusBlackCommunication SuccessRedCommunication Failure

Yellow Warning due to an invalid **edition** or **unexpected software version** 

New Monitor A	Enterprise Edition
Add Camera	Add Camera
Add Camera	Add Camera

### **Checking the Plugin Version**

The plugin version can be displayed by opening the XProtect Management Client's **Help** --> **About**.

EIZO Video Wall v1.x.x.x - Venzo Secure

# **XProtect Smart Client**

# **Overview**

The Smart Client application allows users to place EIZO Video Wall templates (hereinafter refered to as **mimic templates**) onto **view** screens. The mimic template can control IP-monitors by registering cameras, configuring layouts, and monitoring the connection status of the device.

New Monitor A 🛛 👩			Enterprise Edition 🔅
Add Camera	Add Camera	Add Camera	Add Camera
Add Camera	Add Camera	Add Camera	Add Camera
Add Camera	Add Camera	Add Camera	Add Camera
Add Camera	Add Camera	Add Camera	Add Camera
Add Camera	Add Camera	Add Camera	Add Camera
Add Camera	Add Camera	Add Camera	Add Camera
Add Camera	Add Camera	Add Camera	Add Camera
Add Camera	Add Camera	Add Camera	Add Camera

# **Basic Functionalities**

### **Registering a Mimic Template To a View Screen**

Press the **Setup** button on the **Live** tab and drag and drop an **EIZO Video Walls** entity from the **System Overview** pane to an open area on a **view** screen.

After creation, press the **Setup** button again to finalize the settings and a mimic template will be registered to the view.



### Adding a Camera

The Smart Client allows users to add cameras on the mimic template in the following ways.

- Dragging and dropping a camera from a camera list.
- Pressing the **Add Camera** button on the mimic template and selecting a camera.
- Copying cameras from a view group by dragging the view group on to the mimic template.

After changes have been made, press the **Send to Devices** button to update the settings on the IP-monitor devices.

### **Changing a Layout**

Pressing the gear icon on a monitor and selecting **Layout** should open a list of supported layouts to choose from.

The **Clear** button removes all registered cameras and updates the layout to 1x1 on the mimic template.

After changes have been made, press the **Send to Devices** button to update the settings on the IP-monitor devices.



### **Activating a Preset**

Select a preset from the **Preset** drop down menu and press the **Send to Devices** button to update all registered IP-monitors with that preset.

### **Restoring the Default Presets**

Making changes on the mimic template (e.g. changing layouts or cameras) temporarily updates the preset in the local Smart Client.

To restore the presets to the default settings, press the **Restore** icon in the upper right corner of the mimic template.



### **Getting Current IP-monitor Device Layouts**

Pressing the **Get from Devices** button will update the mimic template to match the layouts and cameras on the registered IP-monitors.

### Activating a View Template Layout

Dragging and Dropping a view template from the **Views** pane to the mimic template will update the layout to match the view.

After changes have been made, press the **Send to Devices** button to update the settings on the IP-monitor devices.

### Note:

Other than cameras, it is not possible to copy entities (such as maps and web p ages) from a view template into the mimic template.

**Removing a Mimic Template From a View** 

Enter setup mode by pressing the **Setup** button. Left click the X at the top right-hand side of an EIZO Video Wall template to remove the mimic template from the view.

### **Switching Between EIZO Video Walls**

If multiple EIZO Video Walls have been created, it is possible to switch between them using the drop down box on the upper left corner of the mimic template.

EIZO Video Wall	
New EIZO Video Wall	
New EIZO Video Wall	]-
New EIZO Video Wall 2	ſ

# **Advanced Functionalities**

### **Enabling Synchronization Monitoring**

The Synchronization Monitoring feature periodically checks if the live-view screen of each IPmonitor device matches the mimic template settings.

To enable this feature, the **Synchronization Monitoring** checkbox under **Monitor->Settings** in the **XProtect Management Client** must be checked in advance.

Monitor Informa	ation		
Name			
Monitor A			
Protocol		IP address	
nttp	~	192.168.0.152	
Username		Password	
admin		•••••	
Port			
80			
🗸 Synchroniza	ation Monitoring		
Fullscreen			Show Info.
Dimensions —			
Size	38	✓ inches	
Aspect Ratio	4:3	~	

When **Synchronization Monitoring** is enabled in the XProtect Management Client, clicking the gear icon on a monitor in the XProtect Smart Client will display an **Enable Synchronization** checkbox. Checking **Enable Synchronization** will cause the Smart Client to perform periodical synchronization checks for that IP-monitor.



If the layout and registered cameras on the IP-monitor do not match the layout and cameras on the mimic template, an icon will be displayed to notify the user of a settings mismatch.



### **Checking a Device's Status**

To check the current state of a registered monitor, click the gear icon and then click **Check Device Status**. This will check the device to make sure a connection can be established, the version is 5.2001 or greater, and a valid Enterprise edition is activated.

If a connection cannot be established, the border at the top of the monitor will turn red. If there is a version or edition mistmatch, the border at the top of the monitor will turn yellow.

Fixing these issues and pressing the **Check Device Status** should resolve the border back to black.

### Мар

It is possible to register cameras from the **Map** entity by dragging and dropping a camera onto a monitor in the mimic template.

After changes have been made, press the **Send to Devices** button to update the settings on the IP-monitor devices.

### **Event Rules**

The following actions are available for linking with XProtect event rules.

- Changing the mimic template layout to a 1x1 layout with the camera that triggered the event.
- Changing the mimic template layout to a designated preset layout.

### **Remarks**

### **Checking the Plugin Version**

The plugin version can be displayed by opening the XProtect Smart Client's **Help** --> **About**.

EIZO Video Wall v1.x.x.x - Venzo Secure

# **Troubleshooting Guide**

# **Prerequisites**

The following are necessary to effectively troubleshoot the EIZO Video Wall Plugin:

- A Milestone XProtect system version 2021 R1 or greater.
- An Open Network Bridge of the corresponding XProtect version.
- An EIZO DuraVision product version 5.5000 or greater.
- An EIZO Video Wall Plugin version 1.0.1.1 or greater.
- All system-wide EIZO Video Wall Plugin installations are the same version.

### **Problems With Streaming**

The following error codes, when displayed on the IP Monitors, are an indication of several streaming-related problems.

Error Code	Description
E01-00	Camera connection failure due to XProtect factors
E02-02	The camera stream failed to authenticate with the RTSP server
E02-03	Failure to communicate with the camera due to connection or setting errors
E02-04	Failure to communicate with the RTSP Server
E04-00	Unsupported camera resolution

# A Camera Stream Fails to Display

### Error E01-00 Causes

This type of error indicates a failure to connect to the camera. The most common causes being:

- The camera no longer exists in the XProtect system.
- The specified ONVIF Client User for the Open Network Bridge does not have the proper privileges.
- The camera has been set to an unsupported streaming codec.

# Error E02-02 Causes

This type of error indicates an RTSP stream authentication failure. The most common causes being:

- The Open Network Bridge user information does not match the EIZO Video Wall Plugin user information.
- The user in the Open Network Bridge settings does not exist as an XProtect Basic User.

## Error E02-03 Causes

This type of error indicates a failure to communicate with the camera due to connection or setting issues.

The most common causes being:

- The XProtect system has lost connection to the camera.
- The camera has been set to an unsupported streaming codec.

### Error E02-04 Causes

This error indicates a connection issue to the Open Network Bridge server. The most common causes being:

- The Open Network Bridge server has not been properly installed.
- The Open Network Bridge service has been stopped (either manually or due to a crash).
- No network connection from the IP Monitors to the computer where the Open Network Bridge server is installed.

# **Troubleshooting Steps**

# **Troubleshooting the Open Network Bridge**

First, it is important to determine whether the problem is with the RTSP server itself or the EIZO Video Wall Plugin.

To confirm this, check that the Open Network Bridge is available in the ONVIF Device Manager and that network streams are viewable. If network streams are not viewable from the ONVIF Device Manager, there is an issue with the Open Network Bridge that must be resolved before following the steps in this guide.

For more information please refer to: https://doc.milestonesys.com/2020r1/en-US/standard\_features/sf\_onvifbridge/onvif\_usingonvifclientstovi.htm?Highlight=onvif%20de vice%20manager

- 1. Open the **Management Client** and check under Servers in the Site Navigation pane to confirm that the Open Network Bridge has been installed properly.
- 2. Ensure that at least one Open Network Bridge server exists and that the service is running. This can be done by checking the services tray in the Windows toolbar



3. Confirm that the IP Address and Port fields under:

```
Management Client -> tools -> options -> EIZO Video Wall
```

match the IP Address of the Open Network Bridge server and the RTSP Port in the Open Network Bridge Settings.

Options							$\times$
Analytics Events	Customer	Dashboard	Alarms and Events	Generic Events	EIZO Video Wall		< .>
Options ONVIF Bridge	Settings —						
IP Address		192.168.0.22	3				
Port		554					
Protocol		directUri					
Communicatio	on Method	udp	2				
Username		testUser					
Password		••••					
Uri		rtsp://192.1	68.0.223:554/live/				
						Save	
Help					OK	Cancel	

# Important

After making changes in the EIZO Video Wall Options menu remember to press the Save button before closing the menu with the OK button. Failing to press the Save button will result in unsaved changes.

Open Network Bridge Servers 👻 🎙	Open Network Bridge Information	
⊮ 🄊 Open Network Bridge Servers	Open Network Bridge settings	
	ONVIF port:	580
	RTSP port:	554
	Enable WS-Discovery	
	Default camera settings (as reported to the O	NVIF clients)
	Max days of retention:	30
	Frames per second:	5
	Width:	1920
	Height:	1 080
	Bitrate kbps:	512
	GOP size:	5
	Codec:	H264 Baseline Profile H264 Main Profile H264 High Profile H264 Extended Profile Use configurations from cameras
	Real Time Streaming Protocol settings	
	🗸 Skip gaps in recordings	
	🗹 Repeat frames	
	Maximum time between frames:	350 🚔 ms
	Prefer absolute time over normalized	
	Return sequences on command	
	Maximum number to return:	10
	Return from start or end of recording:	Start of recording $\vee$
i i		

4. Finally check that the correct Open Network Bridge server address is used for the IP Address in the Plugin settings and that the IP Address matches the Uri address.

The Uri is necessary for streaming while the IP Address is necessary for registering cameras to the IP Monitors.

Options								
Analytics Events	Customer	Dashboard	Alarms	and Events	Generic Events	EIZO Video	Wall	<
Options								
IP Address	bettings	192.168.0.22	3					
Port		554						
Protocol		directUri						
Communicatio	n Method	udp	~					
Username		testUser						
Password		••••						
Uri		rtsp://192.1	68.0.223	554/live/				
						_		
							Save	
Help						OK		Cancel

# **Troubleshooting User Settings**

1. Confirm that the desired user for the EIZO Video Wall Plugin exists as an XProtect Basic User with **XProtect Administrator Privileges.** 



2. Right click the Milestone Open Network Bridge service in the Windows taskbar and select Manage ONVIF client users to confirm that the desired user has been registered to the Open Network Bridge.

### Note

When adding a user to older versions of the Open Network Bridge, the Open Network Bridge plugin might not check if the username and password match a valid XProtect user so it is important to confirm the user credentials beforehand.

Manage ONVIF client	t users X
User name:	
Password:	
L	Add user
ONVIF client users	
testUser	
	Remove user
ОК	Cancel

3. Check that the user information in the Open Network Bridge Settings matches the Username and Password in:

Management Client -> tools -> options -> EIZO Video Wall

Options						×
Analytics Events	Customer	Dashboard	Alarms and Events	Generic Events	EIZO Video Wall	<b>&lt;</b> >
Options						
ONVIF Bridge S	Settings —					
IP Address		192.168.0.22	3			
Port		554				
Protocol		directUri				
Communicatio	n Method	udp	2			
Username		testUser				
Password		•••••				
Uri		rtsp://192.1	68.0.223:554/live/			
						Save
Help					OK	Cancel

### Important

After making changes in the EIZO Video Wall Options menu remember to press the Save button before closing the menu with the OK button. Failing to press the Save button will result in unsaved changes.

4. Finally, before resending cameras to the decoder, refresh any open Smart Clients via the Restore Configuration button or by restarting the Smart Client application. This is to ensure the latest usernames and passwords are also updated in the Smart Clients.

# **Troubleshooting Camera Streaming Settings**

- 1. Open the **Management Client** and click on Recording Server under Servers in the Site Navigation section.
- 2. Confirm that the camera displaying the error is registered to a recording server and has a connection to the XProtect system.
- 3. If Milestone indicates a connection issue check the connectivity to the camera by either checking the network cable physically or via a simple ping command. Resolving the connection issue should resolve the error code.
- 4. If there is a connection to the camera from the XProtect system, then confirm that the camera's codec setting is set to H.264 under:

operties		-
anasonic		
General		
Image Capture Mode	2 mega pixel [16:9] (30fps mode)	
JPEG Frames per second	1	
H264/H265 1 - streamed		
Codec	H264	
Control mode	Frame rate	
Frames per second	15	
I frame interval in secondes	1	
Max frames between keyframes mode	Default (determined by driver)	
Maximum bit rate (kbit/s)	4096	
Minimum bit rate (kbit/s)	512	
Multicast address	230.0.0.1	
Multicast Port	50000	
Multicast TTL	16	
Resolution	320x180	
Streaming Mode	RTP/UDP	
H264/H265 2 - streamed		
Codec	H265	
Control mode	Frame rate	
Frames per second	10	
I frame interval in secondes	1	
Max frames between keyframes mode	Default (determined by driver)	
Maximum bit rate (kbit/s)	1024	
Minimum bit rate (kbit/s)	512	
Multicast address	239.192.0.21	
Multicast Port	37004	
Multicast TTL	16	
Resolution	640x360	
Streaming Mode	RTP/UDP	
Minimum bit rate (kbit/s) Multicast address Multicast Port Multicast TTL Resolution Streaming Mode	512 239.192.0.21 37004 16 640x360 RTP/UDP	

Devices -> Cameras -> Camera Group -> Camera -> Settings

5. Then confirm that the H.264 stream is selected under:

ream	Name	Live Mode	Default	Record	Remote Recording
H264/H265 1 - streamed	✓ H264/H265 1 - streamed	When needed	~ <b></b>		
Add	Delete				

Devices -> Cameras -> Camera Group -> Camera -> Streams

### Note

Certain cameras may have additional codec settings on their web interfaces. It is also recommended to check that the remote camera codec settings are set to H.264.

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**Json.NET 12.0.3** 

#### SPDX identifier MIT

#### License text MIT License

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