

Corsight for Milestone XProtect

Installation, Setup and User Guide



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1 Prerequisites

1.1 Software and Licensing

1.1.1 Microsoft System Requirements

- Microsoft® Windows® 10 Pro and Enterprise (64 bit)
- Microsoft® Windows® 10 Enterprise LTSB 2016 (version 1607 or later)
- Microsoft® Windows® 10 IoT Enterprise, version 1803 or later (64 bit), IoT Core
- Microsoft[®] Windows[®] 11 Pro and Enterprise (64 bit)
- Microsoft® Windows® Server 2016 (64 bit): Essentials, Standard and Datacenter
- Microsoft® Windows® Server 2019 (64 bit): Essentials, Standard and Datacenter
- Microsoft® Windows® Server 2022 (64 bit): Essentials, Standard and Datacenter

1.1.2 Milestone XProtect System Requirements

- XProtect Essential+, XProtect Express+, XProtect Professional+, XProtect Expert, XProtect Corporate [2023 R1 (23.1a) or above]
- <u>XProtect Event Server</u>
 - The XProtect Event Server is included as part of your XProtect installation. ***Note*** *If this component has not been installed with your version follow the steps found in troubleshooting at the end of this document.*
- XProtect Device Licenses applied to your XProtect Base License.
 - Device license is required for each video channel used for XProtect,
 - Any licensed XProtect video channel can be used with the Corsight service.
 - \circ Below figure shows product SKU effective of XProtect 2021-R2.

LICENSES	
SKU ID	Name
XPEXPLUSDL	XProtect Express+ Device License (DL)
XPPPLUSDL	XProtect Professional + Device License (DL)
XPETDL	XProtect Expert Device License (DL)
XPCODL	XProtect Corporate Device License (DL)

Open the <u>XProtect Management Client</u> and ensure that you have spare XProtect Device Licenses associated with the installed XProtect version before the installation of a ORBNET software trial.

1.1.3 ORBNET Systems

Part of this installation will include the <u>Streaming Engine</u> plugin for <u>XProtect</u>. This enables video feeds from XProtect to be shared with the <u>Corsight AI service</u>. There are license requirements for this product.

• License – When you first install the <u>Streaming Engine</u> you will get a 30-day trial license, following this you will need to update to a full license. <u>Corsight</u> will provide this license, subject to the payment terms and conditions that <u>Corsight</u> and the customer have agreed upon.

1.1.4 Corsight Service Requirements

- <u>Corsight AI Service</u> installed on local or hosted server.
 - Single server or multi-server
- Installers Available to download from Corsight Partner Portal.
 - 'Corsight XProtect Plugins Installer v*.*.* EN.msi'
 - 'ORBNET Streaming Engine Service Setup v*.*.* EN.msi'
 - 'ORBNET Streaming Engine Plugins Setup v*.*.* EN.msi'

1.1.5 Copyright, trademarks, and disclaimer

Copyright © 2023 ORBNET Systems

Copyright law and international treaties protect this Software.

Licensing agreements specify the terms and conditions of the Software use.

Neither the Customer nor any third party will be permitted to inspect, possess, use, copy, or attempt to discover any part of the Software source code (or any portion thereof).

<u>Trademarks</u>

XProtect is a registered trademark of Milestone Systems A/S. Milestone XProtect and connected components will be referred to as XProtect throughout this document. Corsight and Fortify are trademarks of Corsight AI Ltd.

This document contains other trademarks which belong to their respective owners.

Disclaimer

In preparing this text, due care has been taken to ensure that it is intended for general information purposes only.

Information provided herein does not constitute any kind of warranty, and any risk resulting from its use rests with the recipient.

Adjustments may be made without prior notification by ORBNET Systems.

In this text, all names and organizations referenced in examples are fictitious.

2 Software Schematic with Installation Example



Corsight for Milestone XProtect

3 Installation of Corsight plugin for XProtect

Begin with the server/machine running the <u>XProtect Management Server</u>. Place the 'Corsight Plugin for XProtect Installer.msi' in a folder on the desktop and double click to start the Install. The installer will prompt you to stop the <u>XProtect Event Server</u> service before installing.

Corsight Plugins for XProtect	- 🗆 X		Corsight Plugins for XProtect	- 🗆 X
Welcome to the Corsight Plugins for XProtect	t Setup		License Agreement	Scorsight
Wizard	(p consigni			d consigni
The installer will guide you through the steps required to instal XProtect on your computer.	Il Corsight Plugins for	۲	Please take a moment to read the license agreement nov click "I Agree", then "Next". Otherwise click "Cancel".	w. If you accept the terms below,
WARNING: This computer program is protected by copyright treaties. Unauthorized duplication or distribution of this program result in severe civil or criminal penalties, and will be prosecut	law and international n. or any portion of it, may ed to the maximum extent	l		1
possible under the law.			O I Do Not Agree	
<back< td=""><td>ext > Cancel</td><td></td><td>< Back</td><td>Next > Cancel</td></back<>	ext > Cancel		< Back	Next > Cancel
Corsight Plugins for XProtect	- 0 X		Corsight Plugins for XProtect	- 0 X
Select Installation Folder		B	Confirm Installation	
Select Installation Forder	😚 corsight			& corsight
The installer will install Corsight Plugins for XProtect to the follo	wing folder.	V	The installer is ready to install Corsight Plugins for XProte	ct on your computer.
To install in this folder, click "Next". To install to a different folder	er, enter it below or click		Click "Next" to start the installation.	
"Browse".				
C:\Program Files\Milestone\MIPPlugins\Corsight\	Browse			
	Disk Cost			
Install Corsight Plugins for XProtect for yourself, or for anyone	who uses this computer:			
Everyone Instance				
Орон Ше				
< <u>B</u> ack N	ext > Cancel		< <u>B</u> ack	Next > Cancel
Corsight Plugins for XProtect	- 0 X			
Installation Complete		10		
	😚 corsight			
Consider Division for VDrated has been successfully installed		а.		
Consignit Hughins for AProtect has been successionly installed.				
Click "Close" to exit.				
Please use Windows Update to check for any critical updates	to the .NET Framework.	в.		
< <u>B</u> ack	lose Cancel			
		-		

It is possible some of these messages will show during the installation. Press **Yes** to close or restart the required installation dependent to complete the installation.

Crose innestone smart cirent.	_		×
We need to stop the Milesto process to complete the in unsaved data will be los	one Smart Istallation. t. Continue	Client Any e?	,
103	140		1
		_	
Close Milestone Management Client?	-		×
We need to stop the Management Client proce the installation. Any unsav lost. Continue	Milestone ss to comp ed data wi ?	olete II be	
Yes	No]
Yes	No	_	
Yes	No –] ×
Yes Restart Event Server? This plugin requires an E service restart. Would you I it for you now	No – Event Serv ike us to re ?	er estart] ×

Follow the <u>XProtect Management Server</u> installation with any client machines that will be used for <u>Corsight</u> management. Both <u>XProtect Management Clients</u> and <u>XProtect Smart Clients</u> need this plugin installed. This one installer is used for both clients and servers.

4 Installation of Streaming Engine for XProtect

Begin with the server/machine running the Milestone XProtect Management, Event services and any machines with a Management Client that will need access to Streaming Engine settings.

Run the 'ORBNET Streaming Engine Service Setup.msi'

ORBNET Streaming Engine Service —	X	🕼 ORBNET Streaming Engine Service —	×
Welcome to the ORBNET Streaming Engine Service Setup Wizard	Ø	Select Installation Folder	0
	ORBNET	OF	RBNET
The installer will guide you through the steps required to install ORBNET St Engine Service on your computer.	reaming	The installer will install ORBNET Streaming Engine Service to the following folder To install in this folder, click "Next". To install to a different folder, enter it below or "Browse". Eolder:	r. r click
		C:\Program Files\ORBNET\Streaming Engine\ Browse	ð
		Disk Co	st
WARNING: This computer program is protected by copyright law and intern treaties. Unauthorized duplication or distribution of this program, or any porti result in severe civil or criminal penalties, and will be prosecuted to the max possible under the law.	national ion of it, may cimum extent	Install ORBNET Streaming Engine Service for yourself, or for anyone who uses th computer:	is
<back next=""></back>	Cancel	< <u>Back</u> Next> Ca	incel
ORBNET Streaming Engine Service —		ORBNET Streaming Engine Service Installation Complete OF	
The installer is ready to install ORBNET Streaming Engine Service on your	computer.	ORBNET Streaming Engine Service has been successfully installed.	
Click "Next" to start the installation.		Click "Close" to exit.	
		Please use Windows Update to check for any critical updates to the .NET Framew	work.

Follow with the server/machine selected to be used for the Streaming Engine service.

Run the 'ORBNET Streaming Engine Plugins Setup.msi'

📸 ORBNET Streaming Engine XProtect Plugins – 🗆 🗙	💋 ORBNET Streaming Engine XProtect Plugins - 🛛 🗙
Welcome to the ORBNET Streaming Engine XProtect	Select Installation Folder
The installer will guide you through the steps required to install ORBNET Streaming Engine XProtect Plugins on your computer.	The installer will install ORBNET Streaming Engine XProtect Plugins to the following folder. To install in this folder, click "Next". To install to a different folder, enter it below or click
	Eolder: C:\Program Files\Milestone\ Disk Cost
WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.	Install ORBNET Streaming Engine XProtect Plugins for yourself, or for anyone who uses this computer:
<back next=""> Cancel</back>	< Back Next > Cancel
ORBNET Streaming Engine XProtect Plugins - X Confirm Installation	Restart Event Server?
The installer is ready to install ORBNET Streaming Engine XProtect Plugins on your computer.	This plugin requires an Event Server service restart. Would you like us to restart it for you now?
Click "Next" to start the installation.	Yes No
<back next=""> Cancel</back>	
ORBNET Streaming Engine XProtect Plugins - X Installation Complete ORBNET	
ORBNET Streaming Engine XProtect Plugins has been successfully installed. Click "Close" to exit.	
Please use Windows Update to check for any critical updates to the .NET Framework.	
< Back Qose Cancel	

4.1 License Activation



When you first install the <u>Streaming Engine</u>, you will get a 30-day trial license, following this you will need to update to a full license. Corsight will provide this license, subject to the payment terms and conditions that Corsight and the customer have agreed upon.

					×
ense file ha	s been creat	ed. Please er	ter your co	ompany n	ame
cense, expo	ort it and get	i it activated	for perman	ent use.	Note:
upgrading	from an old	er version yo	ur 30 day t	rial will n	ot be
					ОК
	ense file ha	ense file has been creat	ense file has been created. Please en	ense file has been created. Please enter your co	ense file has been created. Please enter your company n
	cense, expc	cense, export it and get	cense, export it and get it activated i	cense, export it and get it activated for perman	cense, export it and get it activated for permanent use.
	upgrading	upgrading from an old	upgrading from an older version yo	upgrading from an older version your 30 day t	upgrading from an older version your 30 day trial will n

The <u>Streaming Engine</u> License information can be accessed from the <u>Streaming Engine</u> system tray icon. **Stop** the <u>Streaming Engine</u> service first.

Then right click again and you can then select Update license...



This window will initially show the default license values with just the trial license countdown at the top.

Import		Export
rbStreamingEngineLicense		
21		
1. License Info		
a. Client Name	MKDX Test	
b. Days Valid (-1 == Unlimited)	365	
c. License Id	bt46ed62-eb63-4c01-a8t0-0ad017b9b60t	
d. Unique Id	e/bcad8t-cd3t-4e72-8044-45854d43t322	
e. License Number	1638876584710	
f. Product Version	2.9.6.0	
g. version Release Date	4/2/2022 12:00:00 AM	
h. OKB Up End Date	7/21/2023 12:00:00 AM	
I. Hash Code	CA10201F4C8A387E1CC326DDF1846A32	
a Number of concurrent streams	10	
b. Number of Redundant Streaming Engines	10	
c. Multiple Streams		
d. Playback Support		
e. Encrypted Streams (RTSP over SSL)		
3. Extra Features		
a. HLS		
b. RTMP (Youtube / Twitch)		
c. Timelapse		
d. RTMP Proxy Server Channels	0	
a Managard FEMOLC Streams	0	

Use Import and Export buttons for license requests and software activation.

When making a license request, please complete the fields in bold.

- 1. License Info
 - o Enter the Client Name
- 2. <u>Streaming Engine Options</u>
 - Increment the values of the options and disable all checkboxes <u>Number of concurrent streams</u>
- 3. Extra Features
 - Increment the values of the options and enable the required checkboxes <u>None required</u>

Use the **Export** license request button to generate a license request file. This will be required to be included in an email to <u>Corsight</u> when requesting your activated product license.

On completion of an order alongside a license request file a valid license will be sent back. This can be imported by using the **Import** valid license button.

This will now show an unlimited (Days Valid = -1) time frame associated to the <u>Streaming Engine</u> instance at the top.

Import	Export	
rbStreamingEngineLicense		
211 2 I		
1. License Info		
a. Client Name	MRDX Test	
b. Days Valid (-1 == Unlimited)	-1	
c. License Id	bf46ed62-eb63-4c01-a8f0-0ad017b9b60f	
d. Unique Id	e7bcad8f-cd3f-4e72-8044-45854d43f322	
e. License Number	1638876584710	
f. Product Version	2.9.6.0	
g. Version Release Date	4/2/2022 12:00:00 AM	
h. ORB Up End Date	7/21/2023 12:00:00 AM	
i. Hash Code	CA10201F4C8A387E1CC326DDF1846A32	
2. Streaming Engine Options		
a. Number of concurrent streams	10	
b. Number of Redundant Streaming Engines	10	
c. Multiple Streams		
d. Playback Support		
e. Encrypted Streams (RTSP over SSL)		
3. Extra Features		
a. HLS		
b. RTMP (Youtube / Twitch)		
c. Timelapse		
d DTMD Doorse Commended and	0	

4.2 Initial connection to XProtect



Ensure you have either have a <u>XProtect Basic User</u> account created or a Windows service account ready and assigned to a <u>Security Role</u> in <u>XProtect</u> to be used for the <u>Streaming Engine</u> service.

See Basic User Setup or Changing a service account

After installation, the <u>Streaming Engine</u> service will not be connected to the <u>XProtect</u> system.

The <u>Streaming Engine Manager</u> will show in the system tray a red cross to indicate a problem. If the task icon is not showing, check that it is not hidden in the system tray or run from the desktop shortcut.



Right click the tray icon and select Stop, then right click again, and select Change settings...



Service Restart confirmation, Click Yes



From <u>Streaming Engine Settings</u> two XProtect user options are available.

1. Log in with service account credentials

[Uses the windows account that is running the "<u>ORBNET Streaming Engine</u>" service to login to <u>XProtect</u>. If set to true, you must change the service user from "Network Service" to a domain service account of your choosing and add the service account to <u>XProtect Security Roles</u>.]

2. <u>XProtect Basic User</u>

[This is a uses a <u>XProtect</u> created basic user account, the account needs to be added to a relevant <u>XProtect Security Role</u>. Only works if "Log in with service account" is set to false.]

- Fill out the correct <u>XProtect Management Server</u> IP address and port.
- Tick <u>Secure Only</u> if you have installed <u>XProtect</u> using an SSL certificate on the <u>XProtect</u> <u>Management Server</u>.

Orbnet Streaming Engine Settings		_	\times
0			
BNET			
RBStreamingEngineConfig			
2↓			
API Settings			
API External IP			
API Port	45333		
API Port	45334		
HLS File Path	C:\ProgramData\ORBNET	Streaming Engine\HLS	
Milestone Connection Settings			
Log in with service account credentials			
Milestone Basic User	orbnet		
Milestone Basic User Password	••••••		
Milestone Management Server IP	127.0.0.1		
Milestone Management Server Port	80		
Secure Only			

Finish your configuration changes then exit with the close window **cross** at the top right of this window. You will get a message **"Config saved!"**. Check that the <u>Streaming Engine</u> service is started from the system tray icon.



5 Configuration

5.1 XProtect Management Client

5.1.1 Connect Corsight device

From the <u>Site Navigation</u> window select **Corsight Plugins** then **Corsight Settings**.

w action Maintenance 100Is Hel	2			
🤊 🥝 🗢 🛍				
lavigation 🚽 🖗	× Configuration			
Mobile Servers	^			
0 0 Devices	Scowaht			
- Cameras	d corsign			
- Microphones				
Speakers	Corsight Settings			
Metadata	Set the IP. Port and Credentials used to o	onnect to the Corsight server	Connection Status	Not Connected
			E	Heads COP Palace
Circle	Corsight Server IP	Event Filters	Events Status	Not Connected Modily SSE Filters
Const label	Contraction of the Contraction o	In Interest / Authorized List		
Contract vision	Streaming Engine Hostname / IP	Not in Authorised List	Create Camera Remo	e Camera Update Camera
Smart Class Dubles	and a second sec	Detection Only OR In Interest List + Liveness		
Management Client Profiles		☑ Camera Status	Adde	d cameras
S Making	Username	Other	Camera Name	Status Node ID
Dulas and Events	superadmin	Streaming Engine Streaming Engine Alarm retention		
Dular	Password	RTSP Port API Port time (days)		
Time Profiles		554 • 45333 • 7 •		
Notification Drofiles				
Iser-defined Events	Show Advanced	hirte		
Analytica Events	CHON POTUTORS	1 1000		
Generic Events	Config Connect		Find Camera	
- Niebbooks	Comy			
Security			Const	Information
Roles			Genera	momaton
Rasic Users	Global Log Level			
System Dashboard	Normal			
Current Tasks				
Sustem Monitor				
System Monitor Thresholds			1	
- R Evidence Lock				
Configuration Reports				
Server Logs				
Metadata Use				
Metadata Search				
Access Control				
C Incidents				
- 59 Incident properties				
EL Transact				
-El Transaction sources				
Transaction definitions				
Consight Plugins				
 Consider Settions 				
Income Income				
MIP Duction				
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5.1.2 Corsight Settings

From this window Set the IP, Port and Credentials used to connect to the Corsight Server.

- Corsight Settings
 - Corsight Server IP IP address or hostname of your local or hosted Corsight Server
 - Streaming Engine Hostname/ IP External IP address for <u>Streaming Engine</u>
 - Username This is for the <u>Corsight Server</u>
 - Password This is for the <u>Corsight Server</u>

Modify SSE Filter (Press button to display these settings)



Using this option means it is possible to update the filter settings without closing the connection to the <u>Corsight AI</u> service.

- **Corsight SSE Event Filters** (Server-Sent Events allows servers to push real-time client updates over a single HTTP connection.)
 - In Interest / Authorized List
 - Not in Authorized List
 - Detection Only OR In Interest List + Liveness
 - Camera Status

These options are used in the <u>XProtect Smart Client</u> to show or hide the default filter options for <u>Corsight AI</u> events. How the filters are shown in the XProtect Smart Client is directly synchronize with the setting changed here.

Advanced (Press button to display these settings)

- Other
 - Streaming Engine RTSP Port Default: 554
 - Streaming Engine API Port Default: 45333
 - Alarm retention time (days) Number of days after which old alarms will no longer display in the "Alarms" Section of the plugin in Smart Client

The <u>Streaming Engine</u> is a third-party application provided by <u>ORBNET Systems</u>. This is used to stream video from <u>XProtect</u> to the <u>Corsight AI</u> service.



NEW for v1.1.2, more information is provided in Debug logs to assist with any required troubleshooting.

et the IP, Port and Credentials used to	connect to the Corsight server
Corsight Server IP Streaming Engine Hostname / IP	Event Filters In Interest / Authorized List Not in Authorised List Detection Only OR In Interest List + Liveness
Isemame	Camera Status
superadmin	Other Streaming Engine Streaming Engine Alarm retention
Password	RTSP Port API Port time (days) 554 + 45333 + 7 +
Show Advanced	Hide
Config Connect	t

Show – Show or hide the password in clear text.

Advanced – Show or hide ports config

Config – Once connected the configuration is greyed and not editable. Press **Config** to make changes. This will also disconnect from the <u>Corsight Service</u> plus client users.

Connect – Once the <u>Corsight Server</u> settings are filled out, press the Save icon (top left) and then **Connect** to make the first connection.

Global Log Level – Change log level if asked by support for troubleshooting. Normal, Debug, Trace

Hide – Remove the config and filter menu from being visible.

Corsight Connection

With the <u>Corsight</u> settings filled press **Save** in the top toolbar first then **Connect**. The <u>Connection</u> <u>Status</u> and <u>Event Status</u> will update to show if the service is <u>Connected</u>. If the <u>Connection Status</u> remains as <u>Not Connected</u>. Further information will be shown in <u>General information</u>.

fiew Action Maintenance Tools Help 2 ② ◆ 曲	
ន្លcorsight	
rsight Settings Set the IP, Port and Credentials used to connect to the Corsight server Corsight Server IP Streaming Engine Hostname / IP Streaming Engine Hostname / IP Jsername superadmin Password	Connection Status: Connected Events Status: Connected Modify SSE Filters Update Camera Create Camera Remove Camera Update Camera Added cameras Added cameras Image: Camera
Show Advanced Config Connect	Find Camera General Information
Global Log Level Normal ~	

General Information – This section will provide text-based information on the status of connections to the <u>Corsight</u> service. Use this to troubleshoot if connections are not working.

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5.1.3 Corsight add XProtect video camera

In this side of the Corsight menu, XProtect Cameras can be added to the Corsight service.

To add a video camera from <u>XProtect</u> to the <u>Corsight service</u> press Create Camera.

Remove Camera	Update Camera	Create Camera
	Added cameras	
Camera Name	Status	Node ID

Added cameras – Once added cameras show in this list along with the <u>Corsight AI</u> processing status.

Find Camera – Use this to search list by <u>Camera</u> <u>Name</u>, input text to start a search.

Next a pop-up window. <u>Add Camera Wizard</u> will be shown, where a camera, watchlist and other <u>Corsight</u> settings can be updated. First use Select Camera

Watchlists Open list Selected Watchlists: 0 Node ID Required Face Attributes		
Watchlists Open list Selected Watchlists: 0 Node ID Imain Required Face Attributes		
Watchlists Open list Selected Watchlists: 0 Node ID main Required Face Attributes		
Selected Watchlists: 0 Node ID Main Required Face Attributes		
Node ID main Required Face Attributes		
Required Face Attributes		
Age Detection		
Gender Detection		
Liveness Detection		
Analysis Quality		
O Speed Average		
4		

Select Camera... – Press to open camera picker.

Watchlists – Press Open list to select the relevant Watchlist/s.

<u>Selected Watchlists</u> number will update based number of watchlist selected.

Node ID - Additional processing nodes will show here. Select the one to be used.

Face Attributes – Use the tick boxes to select detection types.

Analysis Quality – Select Speed or Average detection mode.

Corsight Pixel Thresholds –

Set the pixel thresholds for each detection mode.

Cancel – Close this window.

Add Camera – Add to Corsight

From Select Camera... the Camera <u>Item Picker</u> will show. Pick the relevant camera to be added to the <u>Corsight service</u>.

Item Picker	-		\times
Select one MS-ANDC StableFPS StableFPS_T800 (ocalhos StableFPS_T800 (ocalhos StableFPS_T800 (ocalhos StableFPS_T800 (ocalhos StableFPS_T800 (ocalhos	t) - Camera 1 t) - Camera 2 t) - Camera 3 t) - Camera 4 t) - Camera 5		
Group Hierarchy	OK	Cano	zel

From **Open list** the <u>Watchlist Selection</u> window will be shown. **Tick** one or many options for the relevant camera that is being added.

🛃 Watchlist Selection	-		×
Available Watchlist	S		
None All b6adb8bc-6181-4b2a-b3c9-42f5d testpers	idd68e0i	b	
Cancel	ОК		l.

None – Default <u>Watchlist</u> helper option. This will untick all other selected watchlists.

All - Default <u>Watchlist</u> helper option. This will tick all other unselected watchlists.

Other Named <u>Watchlists</u> options are shown below <u>None</u> and <u>All</u>. These are user defined watchlist.

Run a final check of the settings for this window "<u>Add Camera Wizard</u>". Check all of these elements have been selected or updated.

- 1. Camera
- 2. Watchlist (If required)
- 3. Node ID
- 4. Detection mode (If required)
- 5. Corsight Pixel Thresholds

Now the <u>XProtect</u> camera can be added with the Add Camera button.

-	
Select the Milestone camera you want to add and	d configure it's properties for Corsight
Select Camera.	haa
Detection Minimum Face Width (min 30)	Watchlists Open list
30 PX	Selected Watchlists: 1
Face Recognition Threshold (min 0, max 100)	Node ID main ~
Unauthorized Alert Minimum Face Width (min 30)	Required Face Attributes
30 PX	Age Detection
Liveness Detection Minimum Face Width (min 300)	Gender Detection
300 PX	Liveness Detection
Age Gender Detection Minimum Face Width (min 60)	Analysis Quality
60 PX	○ Speed
Cancel	Add Camera

Once added the camera appears in <u>Added cameras</u> list with its <u>Corsight</u> status alongside.

Remove Camera	Update Camera		Create Camera	
Added cameras				
Camera Name		Status	Node ID	
StableFPS_T800 (localhost) - Cam idle main				
StablePPS_1800 (localhost) - Cam idle main				

Remove Camera – Remove the selected camera.

Update Camera – Press to open the <u>Add Camera Wizard</u> to edit settings. Create Camera – Use to add new camera to Corsight service.

Find Camera - Use this to search list by Camera Name, input text to start a search.

5.1.4 Streaming Engine Integration

The <u>Streaming Engine</u> (made by <u>ORBNET Systems</u>) provides a method of streaming <u>XProtect</u> video to the <u>Corsight Service</u>.

Any of the devices added to the <u>Corsight</u> camera list will also need to have streaming enabled to be sent to the <u>Corsight AI Service</u>.

From the <u>XProtect Management Client</u> go to <u>Site Navigation</u> select <u>Devices</u>, <u>Cameras</u>. Find any camera devices used with the <u>Corsight Al Service</u>. Go to the <u>Streaming Engine</u> tab and tick <u>Enable for</u> <u>live and playback over RTSP (TCP and UPD)</u>.

evices - • • Cameras • Cameras Group 1 • CLVE / RECORD • LVE / RECORD • Avigilon 2.0C-H5A-82 (172 • TIMELAPSE	Properties	ORBNET Str	eaming	Engine
	DESKTOP-4D072EK ~	Hostname: DESKTOP-4D072 Standalone IPv4 adresses: 192.168.0.95172.20.103.100	EK ServerType: TOTAL CPU=0%,	Ŷ
	RTSP RTMP SRT Web Streaming	Timelapse & Auto-Snapshots	Refresh All	
	Enabled for live and playback over l Camera GUD (Used to open the RTSP Str T = 0.4400 45.07 4107 2000 1000 1000 1000 1000 1000 1000 1	RTSP (TCP and UDP)		
	7ae1fd23-d54f-4d97-8f3e-1606fd Audio Channel	CO8004 Copy	ear	
	<	Select Ondriner O		
<hr/>	<	Motion 🕂 Presets 🔂 Patrolling 🤻 Ever	ats 🗐 Client 🗃 Privac	y masking 💿 Streaming Engine

5.1.4.1 Enable All XProtect video streams for RTSP

For sites with a high number of camera devices used with the <u>Corsight Service</u> from <u>XProtect</u>. Instead of manually needing to go into each device and enable the <u>RTSP stream</u> in the <u>Streaming Engine</u> tab, there is an enable all option in the <u>Streaming Engine</u> configuration.

Right click the tray icon and select **Stop** to stop the Streaming Engine Service.



Navigate to C:\ProgramData\ORBNET\Streaming Engine\ and open <u>ORBStreamingEngineConfig.xml</u> with Notepad.

Find the line with <BypassRTSPActivationInManagementClient>

Update from false to true and save this file.



Restart the <u>Streaming Engine</u> from the system tray icon.



5.1.5 XProtect Analytics Events

From the <u>XProtect Management Client Analytics Events</u> need to be created manually to bring <u>Corsight</u> <u>Service Events</u> into <u>XProtect</u>. This plugin listens for these events that will use the below text and associated video device to trigger an event.

These events need to be created **<u>exactly</u>** as shown with <u>capitals</u> and <u>underscores</u> where shown. Otherwise, the event will not be triggered in <u>XProtect</u>.



XProtect Management Client under <u>Site Navigation</u> find Rules and Events > Analytics Events. Right click <u>Analytics Events</u> and click Add New...



Copy the <u>Analytics Event Name</u> exactly as shown below. Once the <u>Name</u> is added use the toolbar **Save** button to confirm.

Installation, Setup and User Guide | Corsight for Milestone XProtect

Analytics Events Analytics Events Analytics Event	Analytics Events information Name: Analytics Event	• *
		Test Event
	Description:	

<u>ې چ</u>	Milestone XProtect Management Client 2023 R1					
File	View	Ac	tion	Maintenance	Tools	Help
_	9	0	٠	#1		

Camera Status			
Detection_Detection Only			
Detection_In Authorised List			
Detection_In Interest List			
Detection_In Interest List + Liveness			
Detection_Not In Authorised List			

After saving the <u>Test Event</u> button is now available, used this to confirm <u>Rules</u> and <u>Alarms</u> are working in <u>XProtect</u>. The next steps in this manual will go through <u>Rules and Alarms</u>.

Analytics Events Information	↓ ₽
Name:	
Camera Status	
	Test Event
Description:	

5.1.6 Rules and Events Setup

5.1.6.1 Events

With the <u>Analytics Events</u> created they can now be used for Rules in <u>XProtect</u>.

<u>XProtect Management Client under Site Navigation find Rules</u> and Events > Rules.

Right click Rules and click Add Rule...

Use <u>Perform an action on event</u> then select the relevant Analytics Event. Refer to <u>5.1.6 XProtect</u> <u>Analytics Events</u> for more information.

For <u>device/recording server/management server</u> select the relevant video device this <u>Rule</u> is related to.



5.1.6.2 Actions

<u>Actions</u> that can be triggered from a <u>Rule</u>.

- Enable Corsight Camera associated with <camera>
- Disable Corsight Camera associated with <camera>



These actions enable or disable the Corsight service on the selected device. In a rule an Event of a Time Profile can be used to trigger this.

Use a time profile to enable Corsight service only in office hours for internal cameras.

lanage Rule					-	×
lame:	New R	ule 001				
Description:						
ctive:						
		S	tep 3: Actions			
Select actions to	perform					
Retrieve and of Save attached Activate archi On <site> trig Send event in Enable privac Disable privac Disable Corsig Disable Corsis</site>	store remote d images ving on <arc ger <user-de fo to Webho y mask on < cy mask on < cy mask on ht Camera a ght Camera</user-de </arc 	recordings between < thives> sfined event> ok at <address> icamera> <camera> ssociated with <came associated with <came< th=""><th>istart and end time> fro tra> era></th><th>rm <devices></devices></th><th></th><th>*</th></came<></came </camera></address>	istart and end time> fro tra> era>	rm <devices></devices>		*
Edit the rule desc	ription (clic	k an underlined item)				_
Perform an action from <u>External</u> day of week is <u>Mo</u> Disable Consight C	on <u>Test Eve</u> Inday, <u>Tuesc</u> Jamera <u>Stabl</u>	nt lay, Wednesday, Thurs eFPS_T800 (localhost)	<u>dav, Friday, Saturday, S</u> - <u>Camera 5</u>	Sunday		
Hala	1				-	

5.1.7 Alarm Definitions

With the <u>Analytics Events</u> created they can now be used for <u>Alarms</u> in <u>XProtect</u>.

<u>XProtect Management Client</u> under <u>Site Navigation</u> find Alarms > Alarm Definitions.

Right click Alarm Definitions and click Add New

For the <u>Triggering Event</u> use **Analytic Events** then select the relevant <u>Event</u> that is in the list that follows. Refer to <u>4.1.6 XProtect Analytics Events</u> for more information.

For <u>Sources</u> select the relevant video device/s this <u>Alarm</u> is related to.

Arm Definition Arm Definition Arm Definition Arm Definition Arm Detection, Detection Only Arm Detection (In Athenised List Arm Detection (In Athenised List Arm Detection (In Interest List Arm Detection (Interest List	Alam definition Erable: Name: Instructions:	Z Aim_Canes_Status	
	Tingger Tinggeing event: Sources:	Analytica Events Camera Satus Al Cameras	v v Set
	Activation period		
	Time profile:	Rimays	v
	O Event based:	Stat:	Select
		Stop:	Select
	Мар		

5.1.8 User Security Management

It is possible to add or remove security rights to the <u>Corsight Plugin</u> in <u>Roles</u>

<u>XProtect Management Client</u> under <u>Site Navigation</u> find Security > Roles.

Select the relevant <u>Role</u> you wish to update. Navigate to the MIP tab, then to Corsight Plugin > Corsight Settings.

There are security settings available for <u>View</u> and <u>Control</u> of the <u>Corsight Camera List</u>, <u>Watchlist</u> and <u>POI</u>.



6 User Guide

6.1 XProtect Smart Client

6.1.1 Corsight Plugin Tab

From the <u>XProtect Smart Client</u> select the **Corsight** Tab. Below shows the default layout when first opened.

- Cameras Shows list of cameras connected to <u>Corsight Service</u>
- Watchlists Shows <u>Corsight Service</u> <u>Watchlists</u>
- Alarms Shows <u>Corsight Service</u> <u>Alarms</u>

Milest	tone XProtect	Smart Clien	t						-		×
Views	Exports	Search	Streaming Engine	Alarm Manager 🕼	Incidents	Corsight	System Monitor	03:26:05		2	:
										Setup	Z
Camer	as (7)	►									
Watch	lists (3)	►									
Alarms	s (O)	►									
	Refresh										
											÷

If not connected to the <u>Corsight Service</u>, the <u>Corsight Plugin</u> tab will show the below screen.

Milestone XProtect	t Smart Clien	ŧ							×
Views Exports	Search	Streaming Engine	Alarm Manager 🞯	Incidents	Corsight	System Monitor	03:26:05	2	:
								Setup	
Corsight server disconnected									
÷									÷

6.1.1.1 Cameras

Select Cameras, then select a camera from the list. The live camera image will display for this device.

					Setup 🔽
meras (4)	Total C	ameras 4) (Licences in Use 0) (Analyzing 0) (Idle	4) (Error 0)		
atchlists (3)	•			Subs/P1,7808 (scalhort) - Camera J	
	1	StableFPS T800 (localhost) - Camera 2	die		
Cameras (4) Itemes in like 0 Analysing 0 (ster 4) (tror 0) Watchlists (3) Index Camera Name Status Index Status 75,1000 (localhout) - Camera 2 Index Alarms (0) Index Status 75,1000 (localhout) - Camera 3 Index Status 73,1000 (localhout) - Camera 3 Index Refresh Status 75,1000 (localhout) - Camera 3 Index Index Index 3 Index Refresh Status 75,1000 (localhout) - Camera 3 Index Index Index Index Refresh Status 75,1000 (localhout) - Camera 3 Index Index Index Index					
Refert		StableFPS_T - Camera 4	idle		
Peresh	4	StableFPS_T800 - Camera 5	idle		
				Start Analyzing	

Corsight Server Displayed Counts (Shown above Camera List)

Total Cameras	– Total number of cameras connected to Corsight Service
Licenses in Use	– Number of Corsight Service licenses in use
Analyzing	– Number of XProtect video channels being analyzed
Idle	– Number of <u>XProtect</u> video channels ready for processing
Error	– Number of devices not working with Corsight Service

Corsight Camera Table

Camera Name- Camera Name as it is in XProtect.Status- Current camera state (idle, active).

Live video display (Shown below video tile)

- Start Analyzing Start <u>Corsight Service</u> processing.
- Stop Analyzing Stop <u>Corsight Service</u> processing.

6.1.1.2 Watchlists

Select **watchlists**, then select a watchlist from the list shown. The <u>POI(s)</u> included in the list will display on the right-hand side.

iews Exports	Search Streaming Engine	Alarm Manager 😰 Incidents	Corsight Syste	m Monitor	03:30:05 🌇 🚑
neras (2) 🕨 🕨	Total Watchliots (2) (Interest Lists (2) (Aud	vorised Lists (B)		POI(s) registered under t	his watchlist
chlists (2)	Wathini Name Mashini 411-02a bit-425668600 Integer	M Meddler, 4111–822, 43,9-425668800b PrivetTic 204 abit 206-Protocol 23	Type POloj interest kit 1 jedenest kit 3	n pi uniyan	
				lance /	dd
	(Barrier)	Venchies Clear Watchist Create New		2	

Corsight Server Displayed Counts (Shown above <u>Watchlists</u>)

Total Watchlist– Total number of <u>Watchlists</u> assigned to <u>Corsight Server</u>.Interest List– Number of <u>Watchlists</u> related to Unauthorised <u>Persons of Interest (deny list)</u>.Authorised List– Number of <u>Watchlists</u> related to Authorised <u>Persons of Interest (allow list)</u>.

Corsight Camera Table

Watchlist Name	- <u>Watchlist</u> Name as in <u>Corsight</u> .
id	- <u>Watchlist</u> ID as in <u>Corsight</u> .
Туре	- <u>Watchlist</u> type (Interest , Authorised).
POI(s)	- <u>Person of Interest,</u> total number in <u>Watchlist</u> .

Watchlist action buttons (Shown below Watchlist)

Remove Watchlist	 Press to remove selected <u>Watchlist</u>. Available only if no POI(s) are registered.
Clear Watchlist	 Press to remove all <u>POI(s)</u> from <u>Watchlist.</u>
	(Confirmation will be requested, followed by if you wish to also remove POI(s) from the database)
Create New	– Press to create a new <u>Watchlist</u> .

POI(s) registered under this watchlist

Shows each POI with the defined name and thumbnail.

Remove- Press to remove selected POI from list.Add- Press to add new POI to list.

Add new POI form

Fill in the	settings for the new POI
Display Name	testpers2
Notes	
Watchlists	 ✓ b6adb8bc-6181-4b2a-b3c9-42f5ddd68e0i ✓ testpers
Image	Select Image
Cancel	Add

Display Name – Relevant name used for <u>POI.</u> Notes – Any further information to be used for <u>POI.</u>

Watchlists – Select the <u>Watchlists</u> relevant to this user. The watchlist you started from is always selected

Image – Use Select Image to navigate to a relevant image on the <u>XProtect Smart Client</u> machine for this <u>POI</u>.

Cancel – Close this process and do not save. Add – Commit to add <u>POI</u> to <u>Watchlist</u>.

Add new Watchlist form

	New	Watchlist Setting	s	
Туре		Interest List	-	
Name				
Notes				
Color		Open Color Picker		
	Cancel	Cr	reate	

- Type Can be either Interest or Authorised List
- Name Name of the new watchlist
- Notes Additional notes can be added.

Color – Color of the bounding box displayed on matches for this watchlist.

Cancel – Press to close this process. Create – Press to save a create this watchlist.

6.1.1.3 Alarms

<u>Alarms</u> in the plugin workspace are different from <u>Alarms</u> in the <u>XProtect Alarm Manager</u>. Although connected (as shown in the next section), these contain much more information and are updated in real-time.

as (5) 🕨	Total Alarms (76) Detection Only (519) In Internet	t List (7) (In Independ List + Linemens (2) (In Au	formed (ALD) Not in Authorized List (3)	Selection, Selection, Connect J. 11.042	C C	
1919 [9]						
(76) 🚽	Camera Status (2)					
()						
Refresh						
	50 Detection Only 50 in Interest	Lat SC in Interest Lat + Liveness SC in Author	ried List S2 Not in Authorised List S2 Camera Status			
	Filter by Camera	Mar	number of alarms displayed: 5000 *			
	And in succession					
	The second second second	Share and the second se			and the second se	
	11/04/2023 12/30/07	Statements (1000 (scanoti) - Camera 3	Detection in Interest Call			
	11002023 123835	Statistics, 1000 (ocanoci) - Camera 3	Constant Detection Only	 < < 100007 	12:38:02.756 b un	
	11002003123000	Subjection (1990) (subjection (1990) (subjection (1990))	Detection Detection Only			
	1100000103000	Sold St. 199 (such st. Comm.)	Detection to be and that a Taxabase			
	5 11/06/2021 12/16/00	Stable [25, 1970 (scalhout) - Camera 1	Polytical in Internet Lat			
	110000113000	Stable [25, 1909 (scalvest) - Canana 3	Determine Determine Deter			
	7 11.09.2023 12.37.30	Stable/PS T800 (scalhost) - Camera 3	Ortection In Interest List			
	1 11.09.2023 12.3728	StableFPS T800 (localhost) - Camera 3	Detection Detection Only			
	11.09.2023 12.37.27	StableFP5_T800 (scalhost) - Camera 3	Ontection. In Interest List			
	10 11.092623 12.37.58	StableFPS_T800 (locathost) - Camera 3	Detection Detection Only			
	11 11.09.2023 12.3657	StableFPS_T800 (localhoxt) - Camera 3	Detection. In Interest List + Liveness			
	12 11.09.2023 12.3654	StableFPS_T800 (localhort) - Camera 3	Detection, Detection Only			
	13 11.09.2023 12.3653	StableFPS_1800 (locathost) - Camera 3	Ontection, In Interest List			
	14 11.09.2023 12.3645	StableFPS_T800 (localhost) - Camera 3	Detection Detection Only	PCI Cityley Image	Take Crop	
	15 11.09.2023 12.3629	SubleFPS_T800 (localhost) - Camera 3	Detection, In Interest List	Name 1121,		
	16 11.09.2023 12.3621	StableFP5_1000 (localhost) - Camera 3	Detection, Detection Only	POI Confidence 19290.		
	17 11.09.2023 12:36:20	StableFP5_1800 (localhost) - Camera 3	Detection_Detection Only	Age 30-39, Gender male, Liveness live		
	18 11.09.2023 12.3611	StableFPS_T808 (localhost) - Camera 3	Detection, Detection Only	In FOV Tame 15:92 seconds Last seen time 11:09:2021 12:18:07		
	19 11.09.2023 12.3550	StableFP5,7800 (localhost) - Camera 3	Detection, Detection Only			
	89 11.09.2023 12.3546	StableFP5_T800 (localhest) - Carnera 3	Detection_Detection Only			
	21 11.04.2023 12.3540	StableFPS_1800 (localhost) - Camera 3	Detection_Detection Only	54	e Face Crop	
	22 11.09.2023 12.35.34	StableFPS_T800 (localhost) - Camera 3	Detection, Detection Only			
	23 11.09.2023 12.35.16	StableFP5_T800 (localhost) - Camera 3	Detection, Detection Only			
	14 11.09.2023 12.35/14	StableTP5_T800 (localhost) - Camera 3	Detection_Detection Only			
	25 11.09.2023 12.35/12	StableFPS_1800 (localhost) - Camera 3	Detection Detection Only			
		The second states in the second states in the second states and th	Detection Detection Only			

Total Alarms – Total number of alarms generated by <u>Corsight Service</u>.

All types of alarms that can be generated by <u>Corsight Service</u> are listed below that and incremented as they appear.

Filters – Alarms can be filtered by event type or by camera name. All filters are additive, meaning that, for example, you can search for all "In Interest List" alarms that came from particular camera only. (Selected filters are prefilled on startup in the XProtect Smart Client based on the last choice.)

<u>Filter by Camera</u> – Type search field

Max number of alarms displayed: (Default 5000)



The filter options are directly synchronized with the options made available in the <u>XProtect</u> <u>Management Client under Corsight Plugins</u>, <u>Corsight Settings</u>. Select <u>Modify SSE Filter</u> to update filters. This allows changes without closing the <u>Corsight AI plugin</u> connection.

Alarm List – Filtered list of alarms that were generated by <u>Corsight Service</u>. This is filtered by the filters above and also by the retention time setting set in the plugin settings in <u>XProtect Management Client</u>.

- Time: the time of the last update generated by <u>Corsight Service</u>. This time is the moment the video stops at and matches the bounding box and face crop.
- Source: the camera that generated the event

• Message: the type of the detection



This list is constantly refreshed, and new alarms will always appear on the top. There is a maximum limit of 5,000 alarms and when that is reached the oldest will be overwritten in order of creation.

The information is stored on disk (<u>Program Data/Corsight</u>) every minute so in case there is an issue with the <u>XProtect Event Server</u> connection the alarm list will be retrieved on start-up, but all alarms generated since the last save will be lost. This does not affect the alarms in the <u>Alarm Manager</u>, so in the situation described above, there could be a mismatch where there are more alarms in <u>Alarm Manager</u> than in the plugin workspace.

If a hard refresh is required, all files from that folder can be deleted and that will delete all stored alarms in the plugin Workspace. It will not affect the alarms in the <u>Alarm Manager</u>, but their face crops will be missing.

In case you want to view an old alarm that is no longer displayed in the list, you can adjust the retention time setting in the plugin settings in <u>Alarm Manager</u>. If there were more than 20,000 alarms generated in the meantime however, this will not work.

Milestone XProtect Smart Clien	t					-	- 0	×
Views Exports	Search Streamin	ng Engine 🕴 Alarm Manager 🧃	Incidents Corsight 🖗 System M	onitor	(A Not second)	15:47:29	h 4	
							Setup	
Cameras (11)	Total Alarms (5000)			Statistics, 1909 (scallword) = Camera 3 = 11 09 30	19 12 18:02 768			
Watchlists (3)	Detection Only (2436) In Interest	t List (1912) (In Interest List + Liveness (601)	In Authorised List (0) (Not In Authorised List (0)					
Alarms (5000)	Camera Status (51)							
Refresh	Filters							
and the second second	Detection Only 🗹 In Interest Lie	st 🗹 in Interest List + Liveness 🗹 in Authoris	ed List 💟 Not in Authorised List 📝 Camera Status					
	Filter by Camera	Max nu	mber of alarms displayed: 5000 *					
	frame and			the second se		e ,		
	2358 19,09,2021 12,45,44	Stable IPS TROU (conduct) - Camera 1	Detection Detection Only		L mummer a			
	2359 19-09-2023 12-45-42	StableFPS T800 (localhost) - Camera 4	Detection in Interest List	◄ ◀ 19/09/2023	12:44:58.198			
	2360 19-09-2023 12-45-38	StableFPS_T800 (localhost) - Camera 4	Detection_In Interest List			۴. (
	2361 19-09-2023 12-45-31	StableFPS_T800 (localhost) - Camera 4	Detection_Detection Only					
	2362 19-09-2023 12-45-30	StableFPS_T800 (localhost) - Camera 4	Detection_Detection Only					
	2363 19-09-2023 12-45-23	StableFPS_T800 (localhost) - Camera 1	Detection_In Interest List + Liveness	é	Bick			
	2364 19-09-2023 12-45-20	StableFPS_T800 (localhost) - Camera 1	Detection_Detection Only					
	2365 19-09-2023 12-45-19	StableFPS_T800 (localhost) - Camera 1	Detection_In Interest List					
	2366 19-09-2023 12-45-11	StableFPS_T800 (localhost) - Camera 1	Detection_Detection Only					
	2367 19-09-2023 12-45-09	StableFPS_T800 (localhost) - Camera 4	Detection_In Interest List					
	2368 19-09-2023 12-45-05	StableFPS_T800 (localhost) - Camera 4	Detection_In Interest List					
	2369 19-09-2023 12-44-57	StableFPS_1800 (localhost) - Camera 4	Detection_Detection Only	and the second se				
	23/0 19-09-2023 12-44-5/	StableHPS_1800 (localhost) - Camera 4	Detection_Detection Only					
	2271 19-09-2023 12-04-09	StableFPS_1800 (localnost) - Camera 1 StableFDS_TR00 (localheat) - Camera 1	Detection_In Interest List + Eveness	POI Disalar Imana	Same Come			
	2123 10.00.2023 12.44.16	Stable DS 1900 Accelhorti - Camera 1	Detection Detection Only	Barriss and Annual Street	Face Crop			
	2174 19-09-2023 12-44-36	StableEPS TR00 (localbort) - Camera 1	Detection Detection Only	Age: J0–J9, Gender: male, Liveness: not_det In FOV Time: 0.00 seconds	rmined			
	2375 19-09-2023 12-44-15	StableFPS T800 (localhost) - Camera 4	Detection. In Interest List	Last seen time: 19/09/2023 12:44:38				
	2376 19-09-2023 12-44-31	StableFPS T800 (localhost) - Camera 4	Detection In Interest List					
	2377 19-09-2023 12-44-24	StableFPS_T800 (localhost) - Camera 4	Detection Detection Only					
	2378 19-09-2023 12-44-23	StableFPS_T800 (localhost) - Camera 4	Detection_Detection Only					
	2379 19-09-2023 12-44-16	StableFPS_T800 (localhost) - Camera 1	Detection_In Interest List + Liveness					
	2380 19-09-2023 12-44-12	StableFPS_T800 (localhost) - Camera 1	Detection_In Interest List	Save	Face Crop			
	2381 19-09-2023 12-44-04	StableFPS_T800 (localhost) - Camera 1	Detection_Detection Only	_				
	2382 19-09-2023 12-44-04	StableFPS_T800 (localhost) - Camera 1	Detection_Detection Only					
	2383 19-09-2023 12-44-03	StableFPS_T800 (localhost) - Camera 4	Detection_In Interest List					
	2384 19-09-2023 12-43-59	StableFPS_T800 (localhost) - Camera 4	Detection_Detection Only					
			• • • • •					

Bounding Box on video – Bounding box generated by the <u>Corsight Service</u> that matches the location of the face crop. The display colon matches the color of the watchlist for that particular POI (if it was a match). Green (no match) or red (not in an authorised list) are also possible.

Go Back – Press to go back to the moment of the alarm to return to the start of the alarm event. When playback has been used.

POI Display Image – Reference photo taken from <u>Corsight</u> database. Face Crop – Latest update of the face crop generated by Corsight for that POI

Textbox

- Name: POI Name.
- Watchlist: Watchlist connected to trigger.
- Confidence: Shown as a percentage, match confidence level.
- Age, Gender, Liveness: Defined if selected as option for camera device.
- In FOV time: Time that POI remained in the camera's FOV
- Last seen time: The time that POI was last seen

Save Face Crop – Press to save current recorded face crop to client machine.



<u>XProtect</u> records with motion detection by default, but in some cases an appearance can be picked by the <u>Corsight Service</u> without triggering the motion detection in XProtect.

Depending on the use case, the user can adjust the camera settings to avoid missing important events and recordings. One option is to enable motion recording and lower the motion detection threshold to start recording earlier. Another option is to choose continuous recording for some cameras.

For further details see the troubleshooting section <u>7.3 Warning</u>, no recordings are available for this <u>timestamp</u>

Where no recordings are available the video dialogue will display a warning message. "Warning, no recordings are available for this timestamp."

◄ ◀ 19/09/2023 12:44:38.198 ► ►	
Warning, no recordings are available for this timestamp.	

6.1.2 Alarms in Alarm Manager

From the XProtect Smart Client select the Alarm Manager Tab. Below shows an example alarm generated by the Corsight Plugin. Refer to 5.1.8 Alarm Definitions for the setup of these alarms.

	Chent			Q	221					
Views Expo	orts Search	Streaming Engine	Alarm Manager 📲	🕈 Incidents 🕴 Corsight 🏾 🕏	WorkSpace Plugin	System Monitor		12:02:55		•
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In the above Alarm example, we see the face crop of the POI taken from the Corsight system. The video shows the camera feed from XProtect at the moment the alarm is registered. Bellow the face crop is the Appearance Data button that will take you to the corresponding Alarm displayed in the Alarms section of the Corsight plugin workspace.



Alarms in the Alarm Manager are not updated with the latest face crop or analytics that can be provided by Corsight. They are tiggered as soon as a detection takes place. This is why it's necessary to click on the Appearance Data button to see the latest info in the Corsight plugin workspace. Once you do that that alarm will automatically enter the In Progress state and will now be

found under that category in the <u>Alarm Manager</u>.

6.1.3 Create a Custom View

Within this plugin there is the option to create custom views with the <u>Corsight AI</u> view items.

In this example we have used the <u>View (1 + 2* P)</u>, go to **Setup** then drag in <u>Corsight Metadata View</u> <u>Item</u> (Left) and <u>Corsight Playback View Item</u> (Right). Below use the <u>XProtect Alarms</u>, <u>Alarm List</u>.

An alternative option is a one tile view <u>WorkSpace Plugin View Item</u>, this is the same as is shown in the <u>Corsight tab</u>.



As shown out of <u>Setup</u> mode.

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Installation, Setup and User Guide | Corsight for Milestone XProtect

7 Troubleshooting

7.1 XProtect Event Server Installation

If XProtect was installed via a custom installation, the <u>XProtect Event Server</u> service may not have been included, as it is not always required.

From the server/machine with the <u>XProtect Management Server</u> service navigate to <u>http://localhost/installation/admin/default-en-US.htm</u>

This will provide a <u>XProtect</u> installation page where you will be able to run the installer for the <u>XProtect</u> <u>Event Server</u>. This must be installed so the ORBNET plugin can communicate with <u>XProtect MIP SDK</u>.



7.2 Corsight Plugin Logs

This location has logs related to all plugins. Search for <u>Corsight</u> in the log file. <u>C:\ProgramData\Milestone\XProtect Event Server\logs\MIPLogs\</u>

Logs related to the <u>Streaming Engine</u>. <u>C:\ProgramData\ORBNET\Streaming Engine\ORBNET Streaming Engine\Logs\</u>

7.3 Warning, no recordings are available for this timestamp

This error is shown when recordings are not made available from the XProtect system for the event timestamp request by the <u>Corsight AI</u> plugin. Generally, this will be related to the default XProtect recording settings. Below we will cover the general troubleshooting to ensure recordings are available for <u>Corsight AI</u> event.



The recommendation for recording when using the <u>Corsight AI</u> plugin is for recording to be always on. However, we are aware that in different user cases this would not always be possible or feasible.

Recording retention days

Select the relevant <u>Recording Server</u> followed by the <u>Storage</u> tab. Here you will see the recording retention for a recording profile. In the below example recordings are erased once they are <u>3 day(s)</u> <u>old</u>.

If the <u>Corsight AI</u> plugin event view window shows events that are older than the recording retention timeframe the warning of no recordings being available will show for these events.



This window shows the used storage in the allocated storage area. Whenever the available space is below <u>1GB</u>, XProtect is erasing video footage before the set number of retention days. This is to maintain the integrity of the video database.

Recording Servers	Storage configuration Stop the recording s	server if a recording storage is un	available	
⊕ P ORBSVR-SN-12	Name		Device Usage	Default
	Local default		<u>92</u>	
	Corsight		Q	
	Recording and archivit Recordin 17.0 GB	ng configuration g (16.9 GB used)		
	C:/Media	Database hen recordings are 3 day(s) old		J

If you would like all cameras relate to the <u>Corsight Al</u> plugin to have a separate recording profile to other cameras in your system, this can be done by creating a new recording profile.

Select Add Recording Storage



Update the fields in this pop-up window in relation to your required system settings. Key points are the <u>Path</u>, <u>Retention time</u> and <u>Maximum size</u>.

- Path This can be the same storage area as other storage configurations or another storage location.
- Retention time This will erase the recording after a set timeframe. However, this requires a calculation based on the number of cameras, how much space they use and the available storage.

Maximum size – This is the maximum size that XProtect can use for this storage area. If shared with another profile, ensure these are spaced accordingly for the total disk space (Generally allowing 10-20% free space buffer for performance).

					•
					milestone
Storage	Name: Corsig	ht			
Recording	j				
	Path:	C:\MediaDatabas	e\Corsight		
	Retention time:	7 🔹	Day(s)	~	a the second
	Maximum size:	1000 🜲	GB		
	Signing:	0			
	Encryption:	None			~
	Password:	Set			

The retention timeframe is ignored if the storage area is full. In this case once the Maximum size is reached XProtect will erase the oldest recordings to maintain a recording buffer for new recordings.

If the retention timeframe was 30-days but the system had only space for 25-days, you would only see 25-days of recordings available.

Confirm recording retention, per camera.

Use the <u>XProtect Smart Client</u> in a playback window to show when the last available recordings are available on your XProtect system for a camera. **Go to** a view with the camera you wish to check, **Select** the <u>camera tile</u> and **press** the <u>First Sequence</u> **w** button. Check the date shown.



Create a <u>Camera Group</u> for the cameras that will fall under this new <u>recording profile</u>, add the relevant cameras to this <u>group</u>, using Edit.

Select the **Record** tab for this <u>group</u>, under the <u>Properties</u>, see the settings for <u>Storage</u>, use **Select** to update the <u>storage profile</u>.

meras Camera Group 1 Corsight	Playback setting	s				
ORBNET Single Driver (orbne	t) -	corolings nom remote system				
•Y on bitch single bitter (apeed	Recording settin	2 5				
	Necorang					
	Record	d on related devices				
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	Time		3 8 8000	4		
	Time.		S LE SECON			
	Recording f	rame rate				
	JPEG:		5 🐨 FPS			
	MPEG-4/H	1.264/H.265:	Record keyframes	only		
	Storage					
	Local defaul	1			Sel	ect
	Status:	Active				
	Status	Database	Location	Used space		
	ОК	Local default	C:\MediaDatabase	6.20 GB		
		Total used space:	6 20 GB		Delete all recordings	2
		Total used space:	6.20 GB		Delete all recordings	2

Select the new recording profile and press OK.

Select Storage	×
	milestone
Local default	
	OK Cancel

Motion Detection

As default in a <u>XProtect system</u>, recordings are set to <u>record only</u> on <u>motion detection</u>. In the below example the motion detection threshold has not been reached so there will be no recordings at this time. Whenever the motion bar shows in green there is not enough motion to trigger the <u>Motion</u> <u>Started</u> event. Green in the motion bar can also mean the <u>Motion Stopped</u> event has been triggered.

Motion Settings

- Manual sensitivity In newer XProtect systems, post 2020 dynamic motion sensitivity is used as default. With dynamic sensitivity, the system calculates and optimizes the sensitivity level automatically and suppresses the motion detections that come from noise in the images. This improves motion detection at nighttime, where the noise in the images often triggers false motion.
- Sensitivity (When <u>Manual sensitivity</u> is ticked) The sensitivity setting determines how much each pixel in the image must change before it is regarded as motion. Value from 0-100, 0 being the most sensitive, 100 being the least.
- Threshold The motion detection threshold determines how many pixels in the image must change before it is regarded as motion. Value in pixels from 0-10000.
- Keyframes only As default this option is selected, in most cases H.264 or H265 would be used. Depending on the camera make this could have a default, anything from 1-4 seconds for a keyframe. Motion will only be processed on keyframes for H.264 or H265. This could affect the overall sensitivity of motion detection. Disabling this option could use far more system resources as the video has to be decoded to process the I-frames and P-frames.
- Process image every (msec) Video images are processed for motion based on the timeframe set. This option is ignored if <u>Keyframes only</u> is enabled.
- Detection resolution Specify whether the full image or a selected percentage of the image should be analyzed. For example, by specifying 25%, every fourth pixel is analyzed instead of all pixels, reducing the system resources used but also offering less accurate motion detection.
- Generate motion data for smart search This option is unrelated to Motion started; Motion stopped events.
- Use excluded regions These are selected areas within the video image that are selected to be excluded from motion detection. If too much of the image is covered with these areas, it may prevent motion from being triggered.

otion preview	Hardware acceleration:		
Use left and right mouse buttons to select/clear	 Automatic 		
	Off		
	Manual sensitivity		100
IIIII MARTINI	Threshold:		2000
COMPLEX ROUND	Keyframes only (MPEG-4/H.264/H.265)		
	Process image every (msec):	500	v
	Detection resolution:	12%	~
	Generate motion data for smart search		
<i>, , , , , , , , , ,</i>	Use exclude regions		
	8×8 ~	Show grid	
	Clear	Show regions	
	Pen size:		
	Small		Large
Show privacy masks			

When the motion bar changes from green to red (as below), the <u>Motion Started</u> event is trigged.

Action preview	Hardware acceleration:		
	Automatio		
Use left and right mouse buttons to select/clear			
	0 Of		
	Manual sensitivity		94
	Treshold	_	1774
	Keyframes only (MPEG-4/H.264/H.265)		
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	Detection resolution:	12%	~
ORBNET	Generate motion data for smart search		
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and the states of the states o	16 x 16 🗸	Show grid	
DEVELOPER	Clear	Show regions	
201 Martinet Acceleration of the second sec	Pen size:		
	Small		Large
Show privacy masks			

Camera Status

In the <u>XProtect Management Client</u> within <u>Cameras</u>, the cameras display status on the camera icon itself.

🔋 - Device enabled and retrieving data: The device is enabled, and you retrieve a live stream.

- Device recording: The device is recording data on the system.

The Device temporarily stopped or has no feed: When stopped, no information is transferred to the system. In this state you cannot view live video, there will be no recordings.

Pevices disabled: Cannot be started automatically through a rule and cannot communicate with the recording server. If a camera is disabled, you cannot view live or recorded video.

🧟 - Device requires attention: The device does not function correctly.

- Device live and Recording: This is the ideal combined camera state for <u>Corsight AI</u> connected camera devices.

Example shown under <u>Devices</u>, <u>Cameras</u>.



Recording and Stream Settings

Select a <u>Camera</u> or <u>Camera Group</u>, **select** the <u>Record</u> tab. From this tab confirm that <u>Recording</u> is ticked as enabled. Without this option ticked no recordings will be available for this camera device.

ices 👻 🗸	Properties					*
Cameras Camera Group 1 Consight Consigh	Playback setting	s cordings from remote system	,			
ORBNET Single Driver (speed-sen	Recording setting	gs d on related devices nanual recording after:	5 💇 minute	•		
	Pre-buffer Location: Time:	Memory		ds		
	Recording fr JPEG: MPEG-4/H	rame rate 1.264/H.265:	5 🔄 FPS	i only		
	Storage					
	Local default				Se	lect
	Status:	Active				
	Status	Database	Location	Used space		
	ОК	Local default	C:\MediaDatabase	6.20 GB		
		Total used space:	6.20 GB		Delete all recordings	2
	A loto Da Sattio	os 🕅 Streams 🙆 Rea	Motion III Client			
	John Start		COLD V. MOROLL HAR CHOLE			

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When using motion only recording or recording on a schedule in some cases the live video can go into a standby mode. This can cause the Streaming Engine to lose connection to the camera. In turn the Corsight AI plugin would lose connection to the video stream for processing. This is related to the priority of video delivered over the XProtect API.

If this is the case, we recommend changing the <u>Live mode</u> setting for the used video stream from the default of <u>When needed</u> to <u>Always</u>.

Cameras Camera Group 1	Stream information						
ORBNET Single Driver (orbnet	Stream information		Live mode settings		Recording setting	15	
	Stream	Name	Live mode	Default live stream	Recording	Default playback	Use edge recordings
I	Stream 1	Stream 1	When needed		Primary	V 2	
I			Never When needed				
I							
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	Add	Delete					
	Add	Delete					
	Add	Delete					
	Add	Delete					
	Add	Delete					

Recording Rules

XProtect uses rules to start camera video streams and record. As default all cameras are included in the <u>Default Start Feed Rule</u>. This means that camera video streams are available for live viewing.

- 🕆 No feed: When stopped, no information is transferred
- 🔊 Device enabled and retrieving data: The device is enabled, and you retrieve a live stream.

Rules 🗸 🗸	Rule Information 🗸 👎
Rules Default Goto Preset when PTZ is done Rule Default Root on Request Rule Default Record on Bookmark Rule Default Record on Motion Rule Default Record on Request Rule Default Start Audio Feed Rule Default Start Metadata Feed Rule Trigger RJ Poll Event	Name: Default Start Feed Rule Description: Active Definition: Perform an action in a time interval always start feed on <u>All camerae</u> Perform an action when time interval ends stop feed <u>immediately</u>

The <u>Default Record on Motion Rule</u> enables recoding pre and post a <u>Motion Started</u> and <u>Motion</u> <u>Stopped</u> event. Outside of these triggers there is no recording.

Rules 🗸 🗸	Rule Information 🗸 👎
Rules • • • •	Rule Information • 7 Name: Default Record on Motion Rule Description: C Active Definition: Perform an action on Motion Started from All cameras stat recording <u>3 seconds before</u> on the device on which event occurred from All cameras
	stop recording 3 seconds after

Alternative Rules;

Constant Record

This is the simplest rule to enable constant recording on the <u>Corsight</u> camera group. Create a new rule, **right click** and <u>Add Rule</u>.

- **Step 1**: Perform action in time interval:
- Step 2: Always
- Step 3: Start Recording on <<u>devices</u>> (Select the Corsight <u>Camera Group</u>)
- **Step 4**: Perform an action when time interval ends
- Step 5: Stop recording immediately

Rules 🚽 📮	Rule Information	→ ₽
Rules Consight Constant Record Consight Record on Motion Rule with Keyframes Consight Record on Motion Rule Default Goto Preset when PTZ is done Rule Default Record on Request Rule Default Record on Motion Rule Default Record on Motion Rule Default Start Audio Feed Rule Default Start Ket Rule Default Start Metadata Feed Rule Trigger RJ Poll Event	Name: Corsight Constant Record Description: Active Definition: Perform an action in a time interval always start recording immediately on <u>Consight</u> Perform an action when time interval ends stop recording immediately	

Constant Keyframe Record, All Frames on Motion

This rule will record constantly on keyframes. When motion detection is triggered, it will increase to the full framerate.

This rule requires a camera setting change.

Check the camera device settings, in this example we have an Axis camera. Under <u>Devices</u>, **select** <u>Cameras</u> and the Corsight <u>Camera Group</u>. **Select** the <u>Settings</u> tab. For <u>Video Stream 1</u>, see <u>Frames per Second</u> and <u>Max. frames between keyframes</u>.

For <u>Max, frames between keyframes</u> as default for the Axis camera this is <u>30</u>. This would mean there would only be a keyframe every 3 75 seconds. When using keyframe recording 1 second between keyframes is ideal. Match the <u>Frames per second</u> and <u>Max, frames between keyframes</u> to achieve this.

evices 🗸 🗸 🕂	Properties	Ψ
Cameras	Axis	
Camera Group 1 Consight	✓ Video stream 1	
-Status F44 Network Camera (1	Bit rate control mode	Variable bit rate
ORBNET Single Driver (orbnet	Bit rate control priority	None
ORBNET Single Driver (speed	Codec	H.264
••	Compression	30
	Frames per second	8
	Include Date	No
	Include Time	No
	Max. frames between keyframes	8
	Max. frames between keyframes mode	Default (determined by driver)
	Resolution	1920x1080
	Streaming Mode	RTP/RTSP/TCP
	Target bit rate	2000
	Zipstream compression	Low
	Zipstream FPS mode	Fixed
	Zipstream GOP mode	Fixed
	Zipstream max dynamic GOP length	300
	General	
	👔 Info 🚜 Settings 🚺 Streams 🥥 Reci	ord 🖈 Motion 🙆 Fisheye Lens 🤻 Events 💷 Client 🧱 Privacy 🗧

Go to the <u>Record</u> tab. Tick <u>Record keyframes only</u>.

Devices		→ ‡	
Cameras Camera Group 1 Corsight ORBNET Single Driver (orbnet ORBNET Single Driver (speed	Playback settings	rdings from remote system	
	E Driver (speed Recording settings Recording Recording Record of	Recording settings Image: Percording Image: Percord on related devices	
	Stop mar Fre-buffer Location: Time-	Memory V	
	Recording fran JPEG: MPEG-4/H.2	ne rate 5 🖝 FPS 164/H.265: 💽 Record keyframes only	
	🚺 Info 🖓 Settings	Streams 🕒 Record 🖈 Motion 🖵 Client	

Create a new rule, right click and Add Rule.

- **Step 1**: Perform action on <<u>event</u>> (Motion Started)
- Step 2: (Skip)
- Step 3: Start Recording on <<u>devices</u>> (Select the Corsight <u>Camera Group</u>),
 - Set recording frame rate to all frames for MPEG-4/H.264/H.265 on <u>the device which</u> <u>event occurred</u>
- **Step 4**: Perform an action on <<u>event</u>>
- **Step 5**: (Automatic)Stop recording, Restore default recording rate.

Rules 👻 🕈	Rule Information 👻 🔻
Rules Corsight Constant Record Corsight Record on Motion Rule with Keyframes Default Roto Preset when PT2 is done Rule Default Record on Request Rule Default Record on Motion Rule Default Start Audio Feed Rule Default Start Audio Feed Rule Default Start Neted Rule Default Start Pred Rule Default Start Pred Rule Default Start Pred Rule Default Start Neted Rule Default Start Neted Rule Default Start Neted Rule Trigger RJ Poll Event	Name: Consight Record on Motion Rule with Keyframes Description: Active Definition: Perform an action on <u>Motion Started</u> from <u>Consight</u> start recording <u>3 seconds before</u> on <u>the device on which event occurred</u> and set recording <u>3 seconds before</u> on <u>the device on which event occurred</u> and set recording <u>3 seconds before</u> on the <u>device on which event occurred</u> and set recording <u>3 seconds before</u> on the <u>device on which event occurred</u> and restore default recording frame rate of keyframes for MPEG-4/H.264/H.265 <u>immediately</u>