

Manual

Milestone Custom Development Actions v1.3

Table of Content

Target audience for this document	4
Copyright, trademarks & disclaimer	5
Copyright	5
Trademarks	5
Disclaimer	5
General description	6
Introduction	6
Installation	7
Prerequisites	7
Hotfix installers	7
Hotfix installation steps	7
Plug-in installer	21
Plug-in installation steps	21
License	25
Configuration	26
Enable <device>	26
Disable <device>	26
Enable <hardware>	26
Disable <hardware>	26
Start recording on <cameras>	27
Stop recording on <cameras>	27
Move <hardware> to <storage>	27
Add live permissions from <roles> on <hardware>	28
Remove live permissions from <roles> on <hardware>	28

Add <user> to <role>	28
Remove <user> from <role>	30
Add <evidence lock> to recording on <cameras>	31
Activate <rules>	33
Deactivate <rules>	34
Raise alarm via <alarm definitions> using throttling mechanism	35
Take snapshots of <cameras> from live feed	36
Example for rule Take snapshots of <cameras> from live feed	37
Example for a rule which performs Disable <hardware> action	37
Operation	43
Verify the Disable <hardware> action rule is working	43
Troubleshooting	44
MIP Logs	44
Limitations	46
Move <hardware> to <storage>	46
Add <user> to <role>	46
Remove <user> from <role>	46
Add <evidence lock> to recording on <cameras>	46
Activate <rules> / Deactivate <rules>	46
Loading issue	46
Known issues	46

Target audience for this document

The installation and configuration part of this document is aimed at system administrators of the Milestone XProtect.

The operation part of this document is aimed at system administrators and also system operators with basic knowledge of Milestone XProtect.

As this manual contains specific details about the solution, it is recommended for system administrators to check the following sources of information:

- Milestone XProtect (XProtect Management Client and XProtect Smart Client)

and for system operators to check at least:

- Milestone XProtect (XProtect Smart Client)

Copyright, trademarks & disclaimer

Copyright

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Trademarks

XProtect is a registered trademark of Milestone Systems A/S.

Microsoft and Windows are registered trademarks of Microsoft Corporation.

All other trademarks mentioned in this document are trademarks of their respective owners.

Disclaimer

This document is intended for general information purposes only, and due care has been taken in its preparation.

Any risk arising from the use of this information rests with the recipient, and nothing herein should be construed as constituting any kind of warranty.

Milestone Systems A/S reserve the right to make adjustments without prior notification.

All names of people and organizations used in this document's examples are fictitious. Any resemblance to any actual organization or person, living or dead, is purely coincidental and unintended.

This product may make use of third party software for which specific terms and conditions may apply. When that is the case, you can find more information in the file *3rd_party_software_terms_and_conditions.txt* located in your Milestone surveillance system installation folder.

General description

Introduction

The Custom Development Actions plug-in extends the Actions list in the rule creation/configuration. You can create rules based on events. The rules can perform these new actions:

- Enable <device>
- Disable <device>
- Enable <hardware>
- Disable <hardware>
- Start recording on <cameras>
- Stop recording on <cameras>
- Move <hardware> to <storage>
- Add live permissions from <roles> on <hardware>
- Remove live permissions from <roles> on <hardware>
- Add <user> to <role>
- Remove <user> from <role>
- Add <evidence lock> to recording on <cameras>
- Activate <rules>
- Deactivate <rules>
- Raise alarm via <alarm definitions> using throttling mechanism
- Take Snapshots of <cameras> from live feed

The activities of these rules are tracked into the MIP logs of the XProtect Event Server.

An example for creating a rule which performs **Disable <hardware>** action can be found in subchapter [Configuration > Example for a rule which performs Disable <hardware> action](#). Examples for the logging feature can be found in subchapter [Troubleshooting > MIP Logs](#).

Installation

Prerequisites

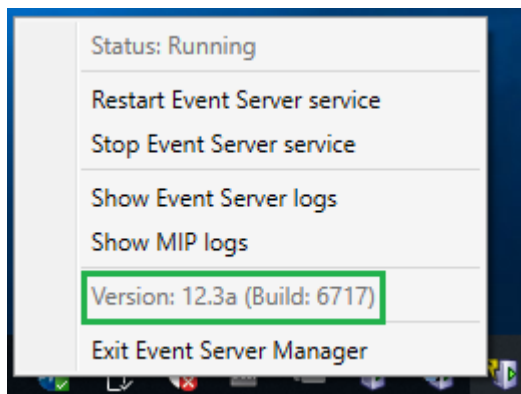
The Custom Development Actions plug-in is compatible with Milestone XProtect Corporate 2018 R3 or newer.

Hotfix installers

Several hotfixes must be installed, but only in case of Milestone XProtect Corporate 2018 R3:

- ***Milestone.Hotfix.201810250552.MC.12.3a.8563.exe*** must be installed where the XProtect Management Client is installed.
- ***Milestone.Hotfix.201810301135.MS.12.3a.8575.exe*** must be installed where the XProtect Management Server is installed.
- ***Milestone.Hotfix.201810301135.RS.12.3a.8575.exe*** must be installed where the XProtect Recording Server is installed.
- ***MilestoneEventServerInstaller_x64.exe (v12.3.13877.1)*** must be installed where the XProtect Event Server is installed.

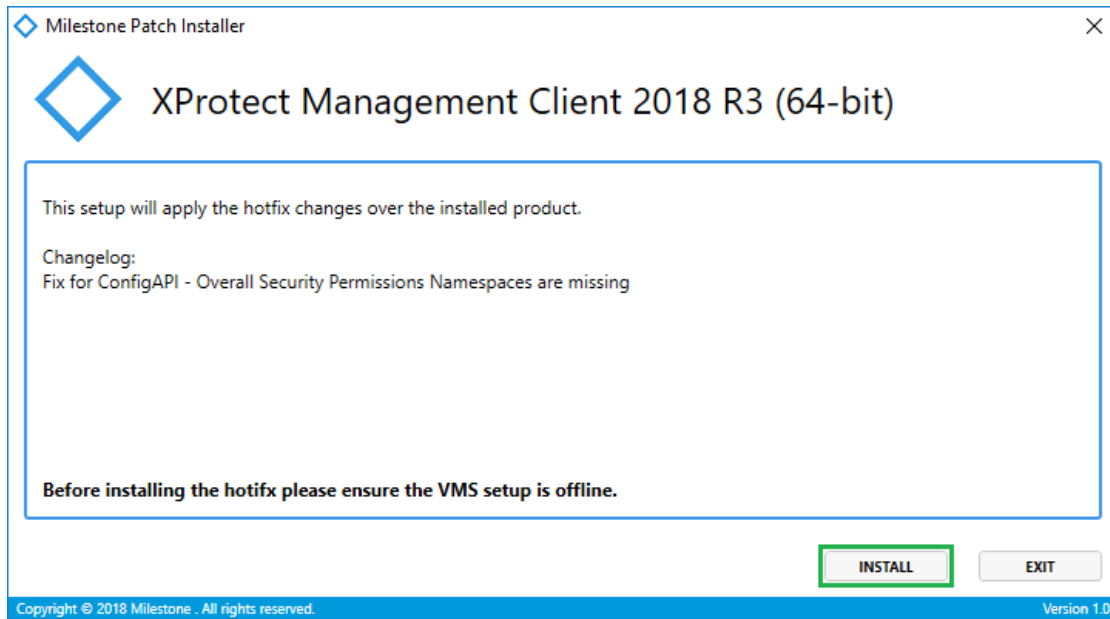
Note: Check the installed version of the XProtect Event Server and do not install the XProtect Event Server hotfix if the version is 12.3a (Build:6717) or higher.



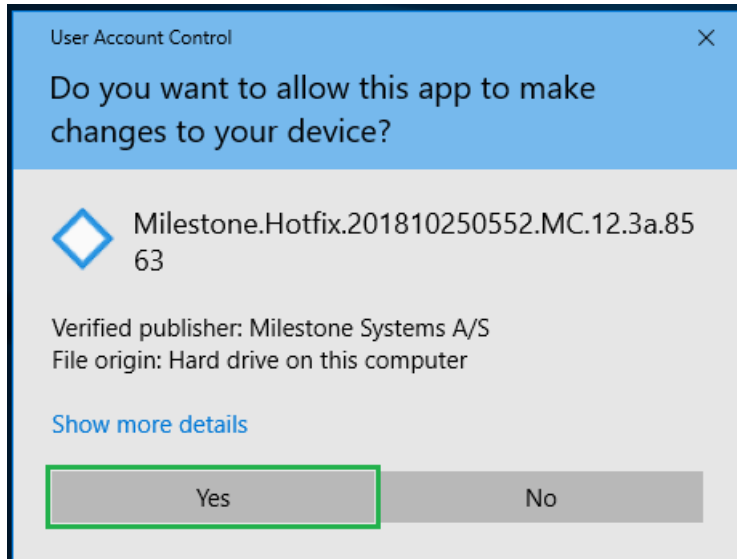
Hotfix installation steps

Milestone.Hotfix.201810250552.MC.12.3a.8563

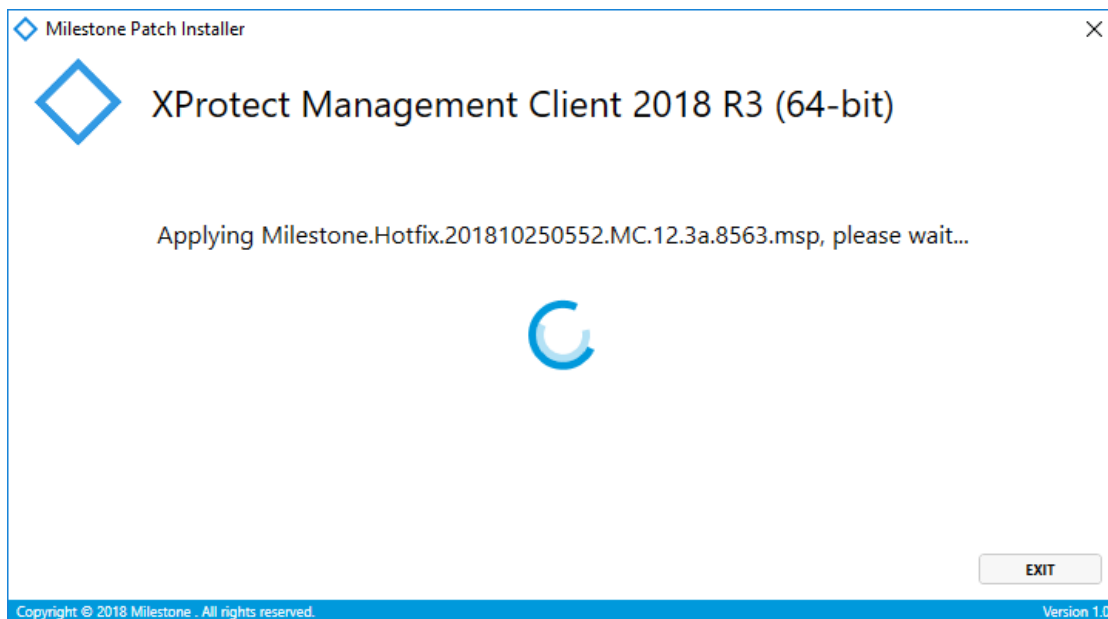
1. Close the XProtect Management Client.
2. Start the installation by executing ***Milestone.Hotfix.201810250552.MC.12.3a.8563.exe***.
3. Click **Install**.



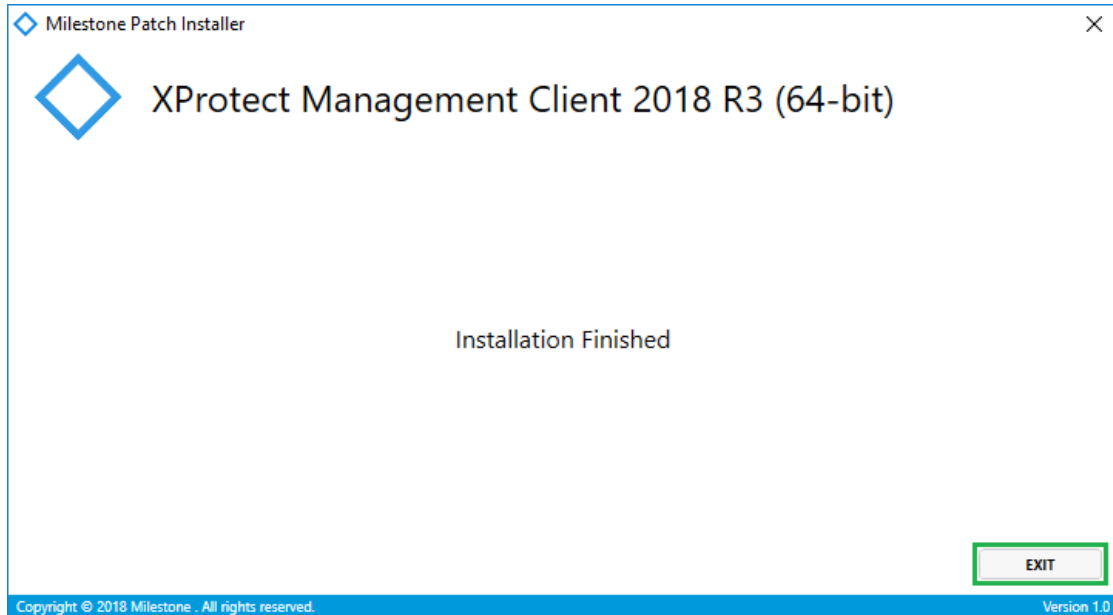
- Click **Yes**, in case the following message appears on the screen:



- The next steps are executed automatically.

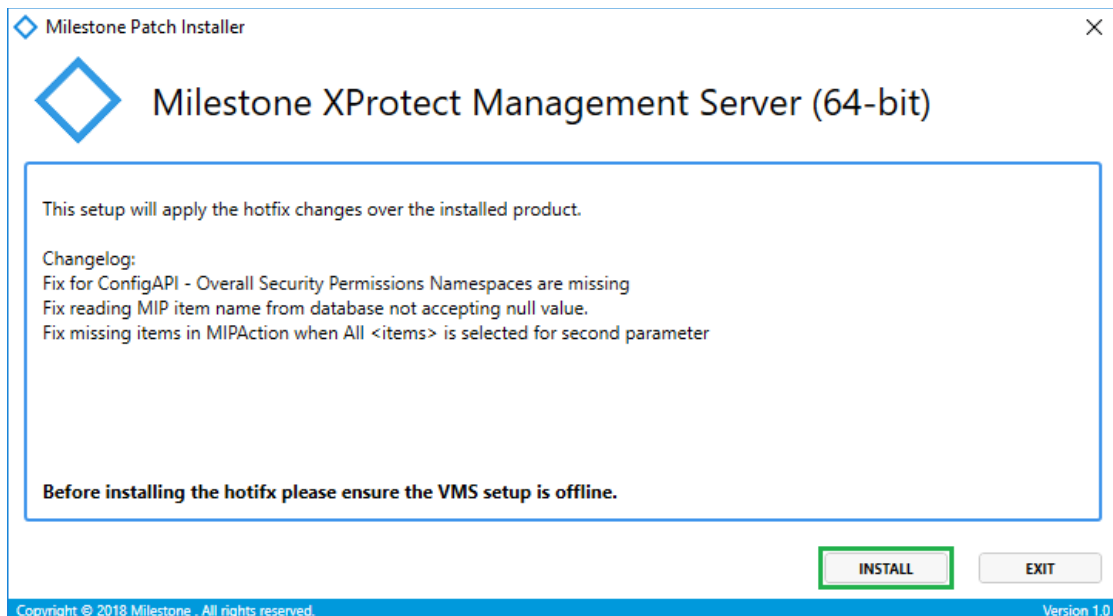


6. Click **Finish**.

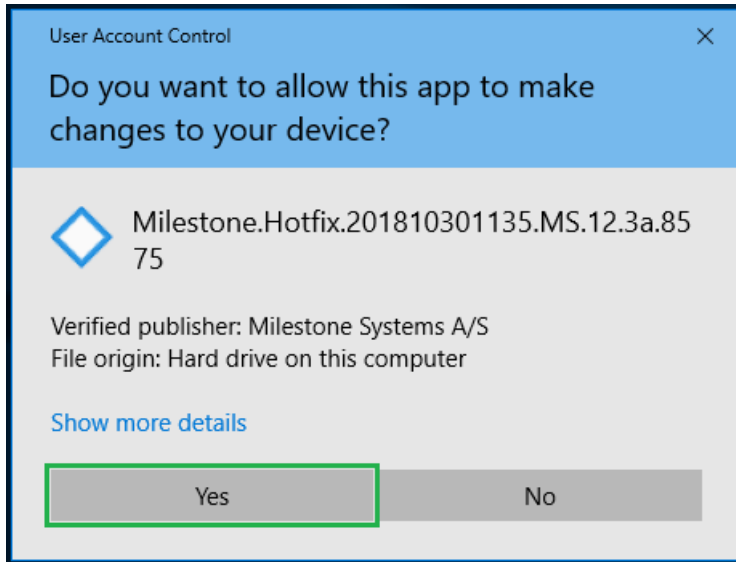


Milestone.Hotfix.201810301135.MS.12.3a.8575

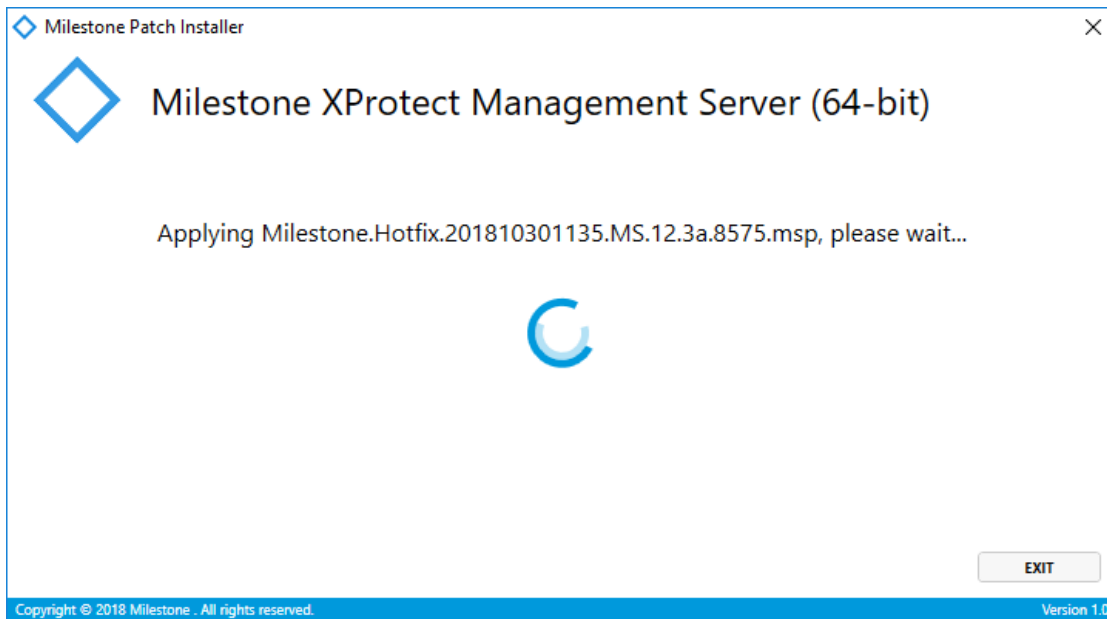
1. Stop the XProtect Management Server.
2. Start the installation by executing *Milestone.Hotfix.201810301135.MS.12.3a.8575.exe*.
3. Click **Install**.



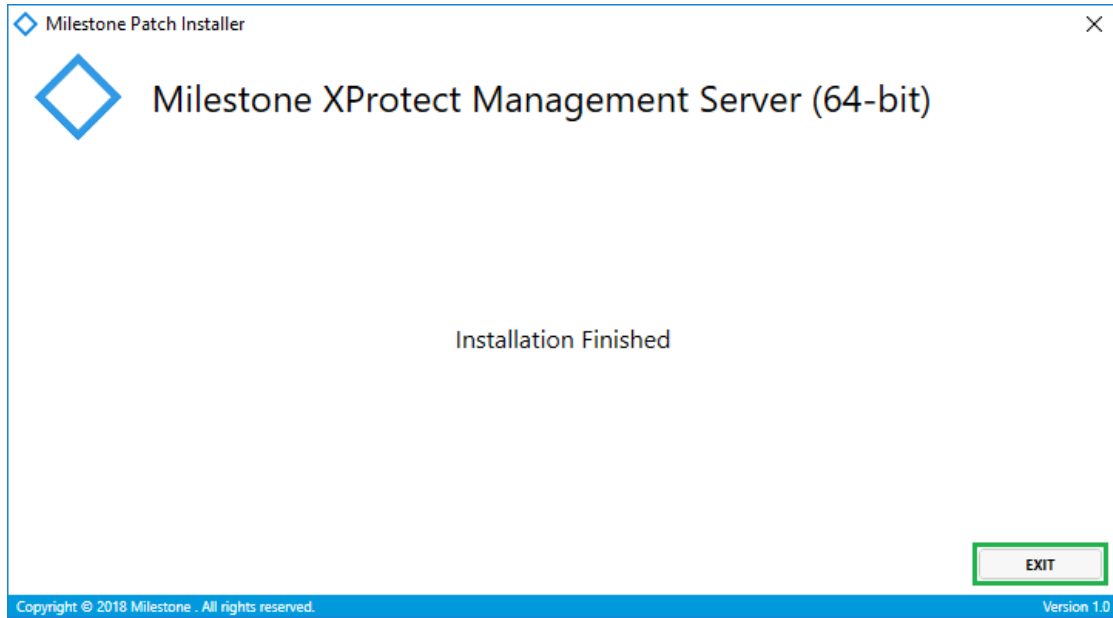
- Click **Yes**, in case the following message appears on the screen:



- The next steps are executed automatically.

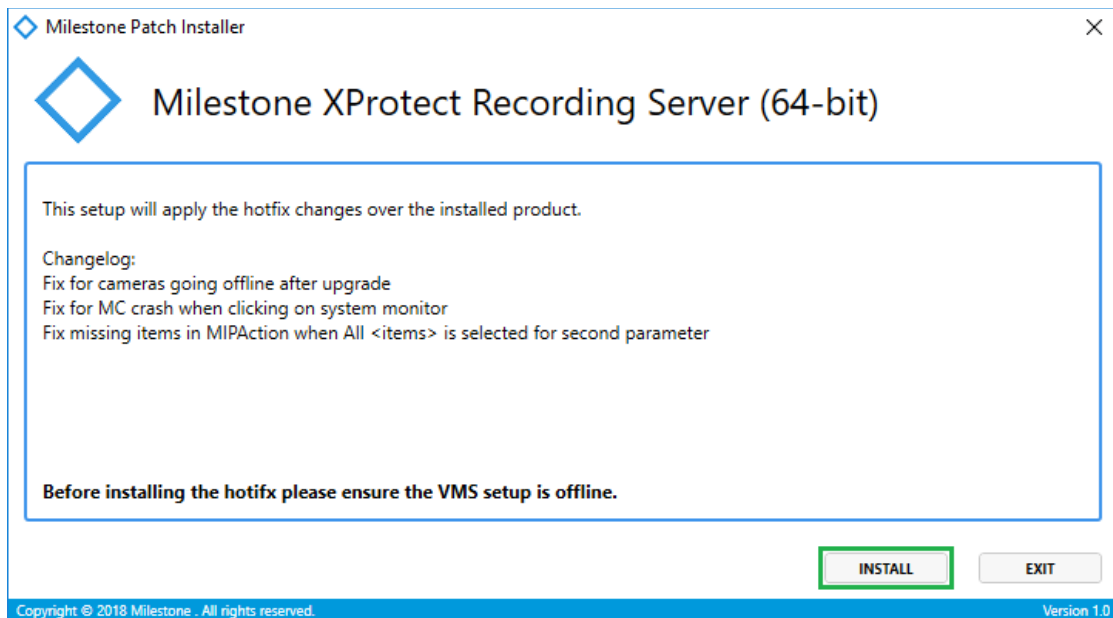


6. Click **Finish**.

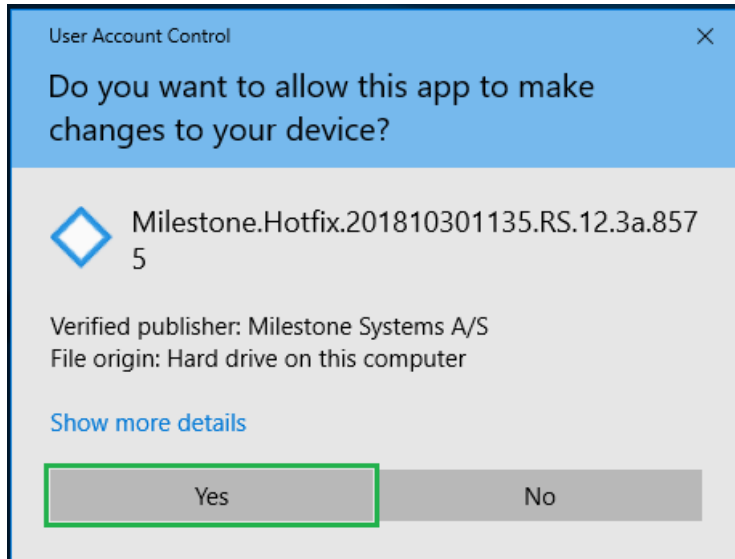


Milestone.Hotfix.201810301135.RS.12.3a.8575

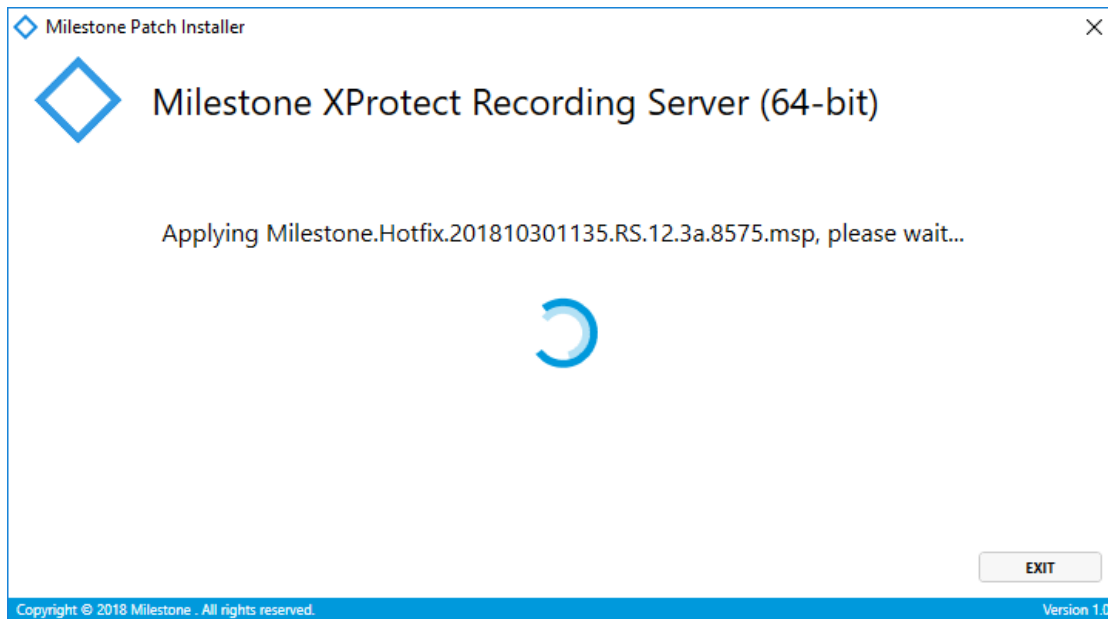
1. Stop the XProtect Recording Server.
2. Start the installation by executing *Milestone.Hotfix.201810301135.RS.12.3a.8575.exe*.
3. Click **Install**.



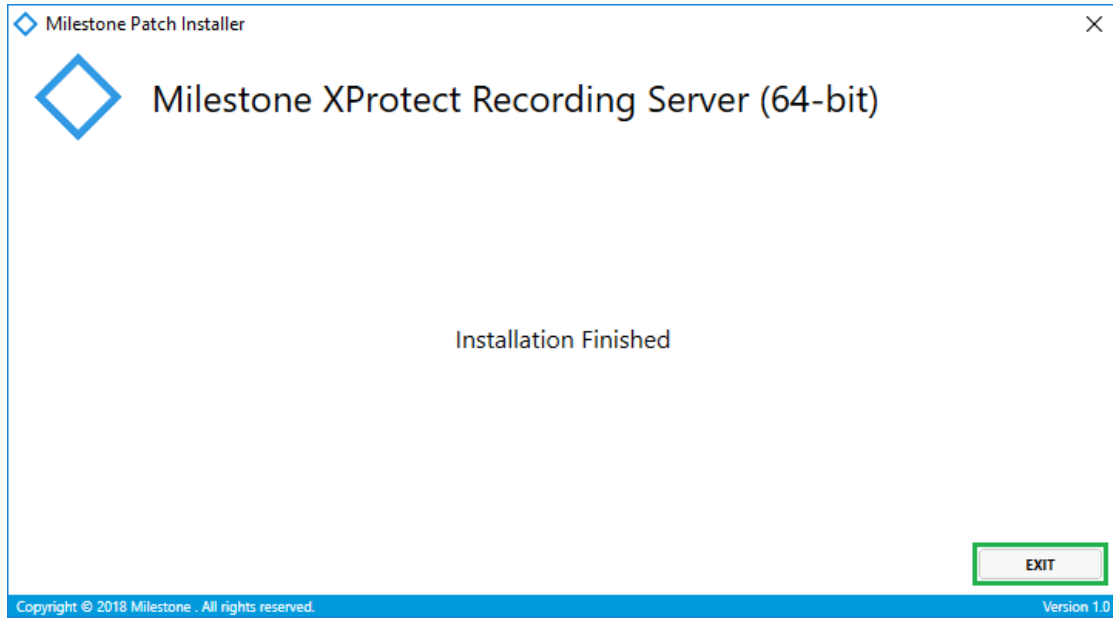
- Click **Yes**, in case the following message appears on the screen:



- The next steps are executed automatically.

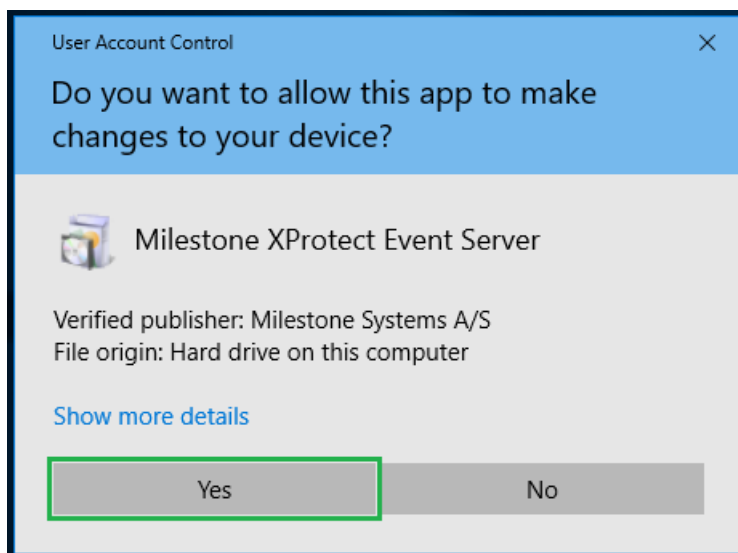


6. Click **Finish**.

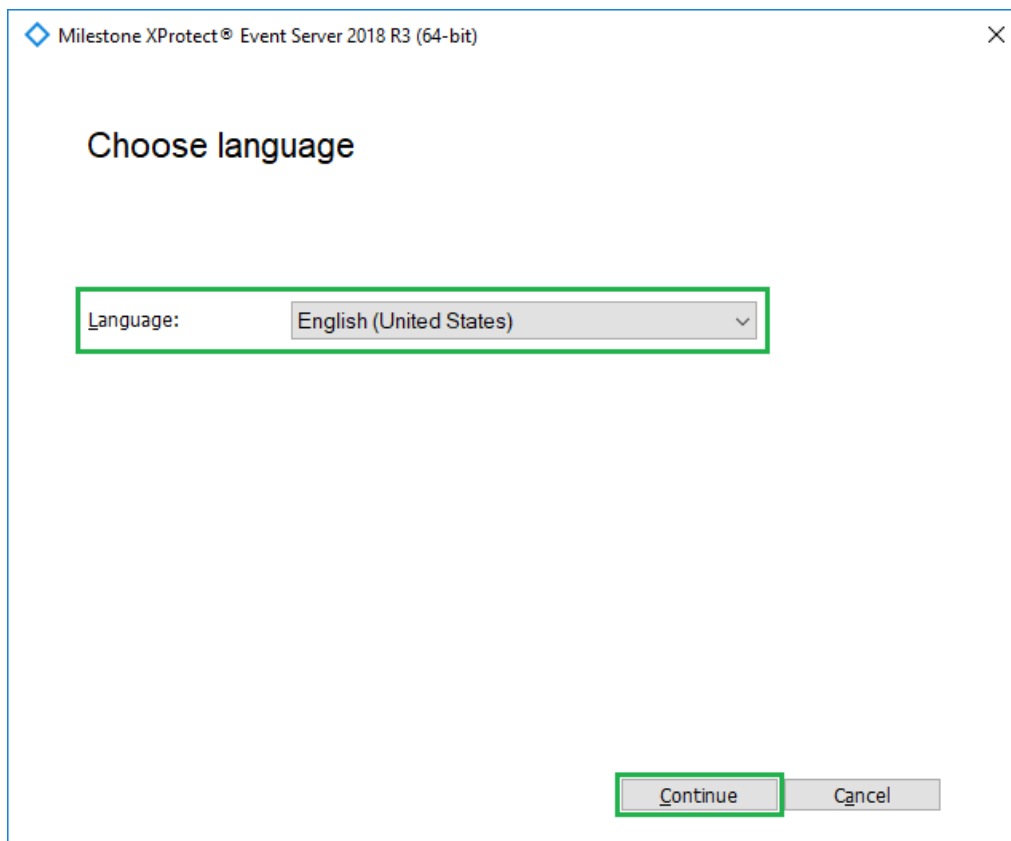


MilestoneEventServerInstaller_x64 (v12.3.13877.1)

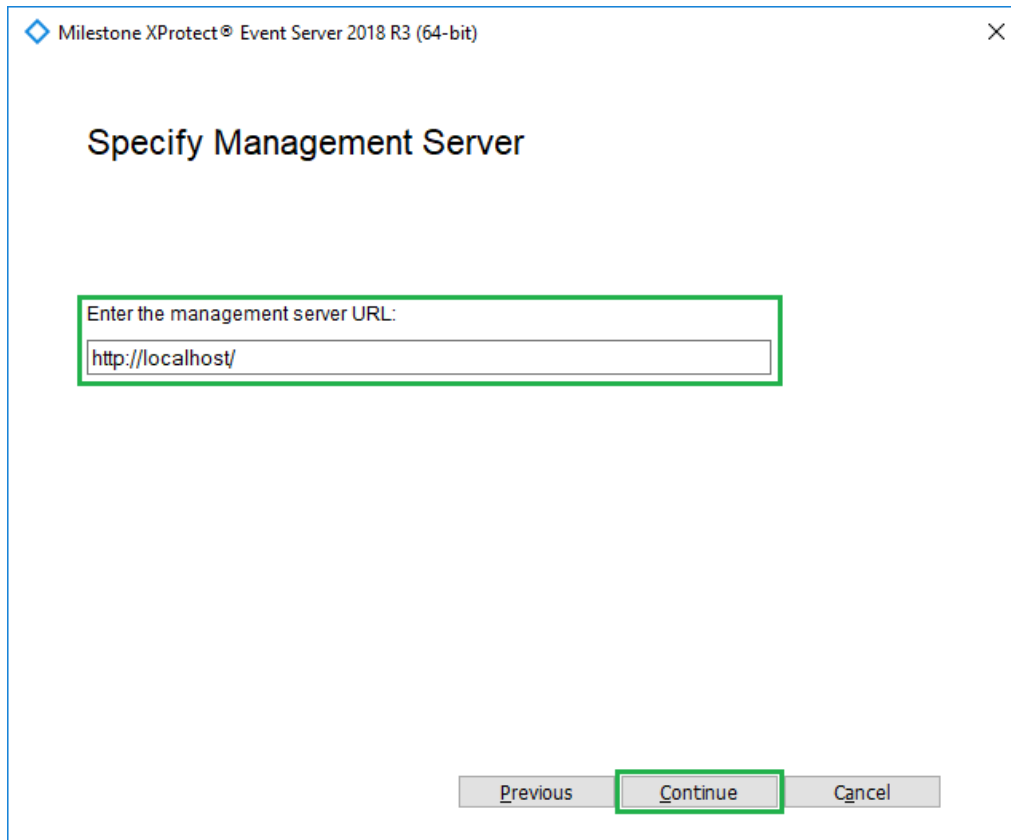
1. Start the installation by executing *MilestoneEventServerInstaller_x64.exe*.
2. Click **Yes**, in case the following message appears on the screen:



- 3. By default the installer will choose Language > **English (United States)**. Choose any other language according to your preferences. Click **Continue**.



- The installer will choose for **server URL** the host where the XProtect Management Server is currently installed. In this case it is **http://localhost**.

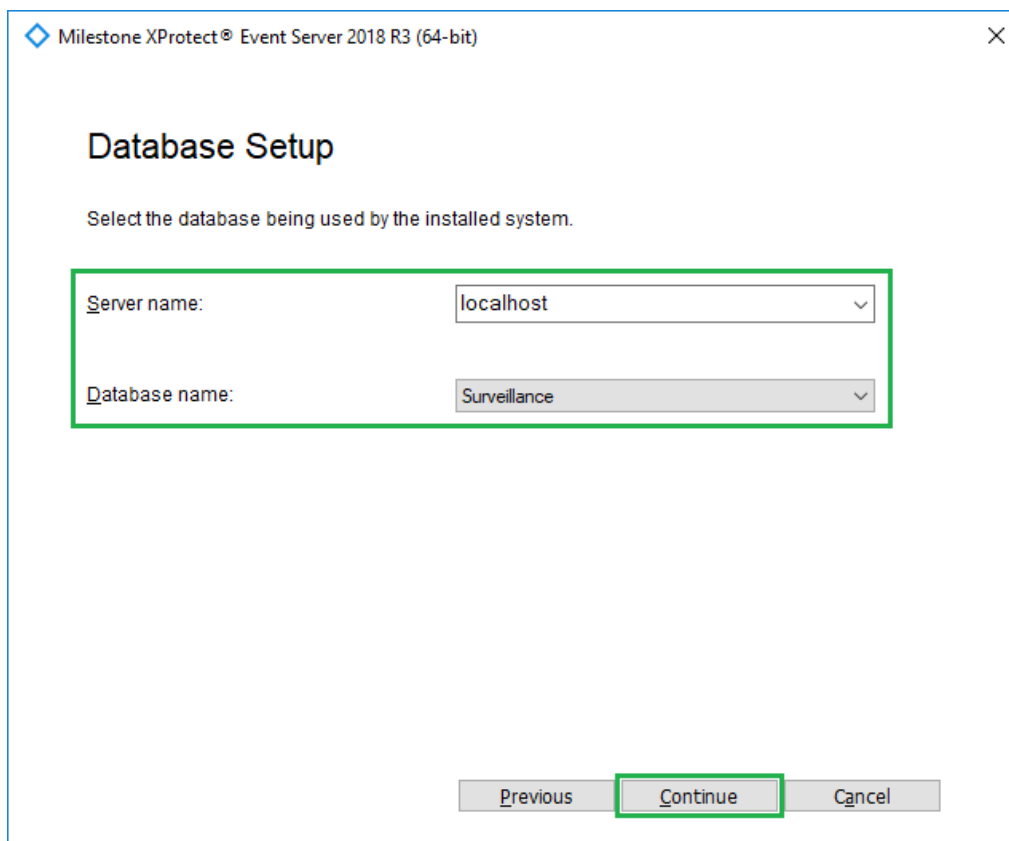


- 5. The installer will choose the **Server name** and **Database** name based on the configuration of the current installation. In this case it is:

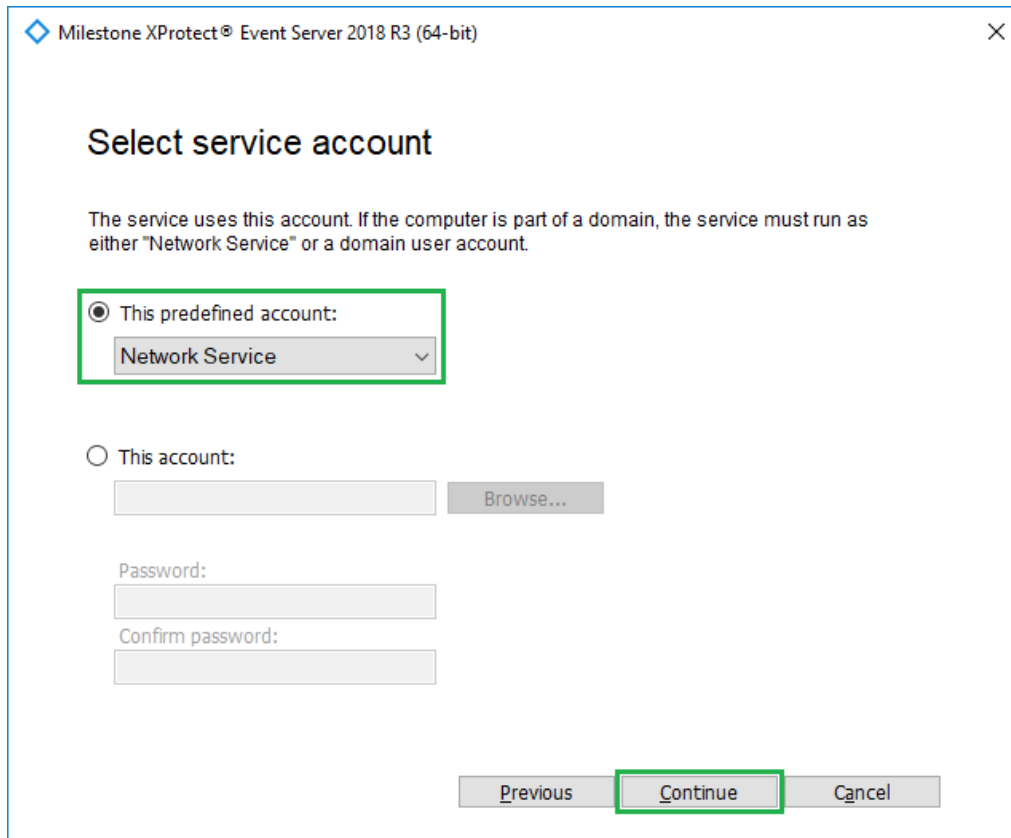
Server name: localhost

Database name: Surveillance

Click **Continue**.



- The installer will choose the **service account** based on the configuration of the current installation. In this case it is **Network Service**. Click **Continue**.



Milestone XProtect® Event Server 2018 R3 (64-bit)

Select service account

The service uses this account. If the computer is part of a domain, the service must run as either "Network Service" or a domain user account.

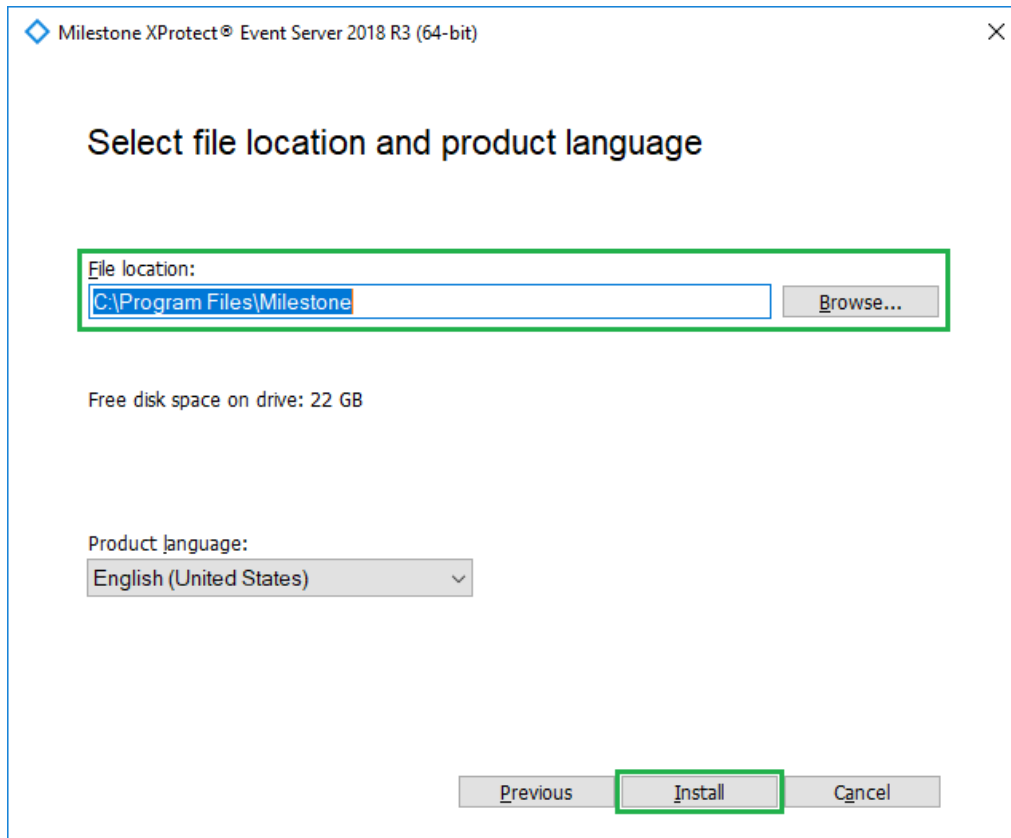
This predefined account:
Network Service

This account:
Browse...

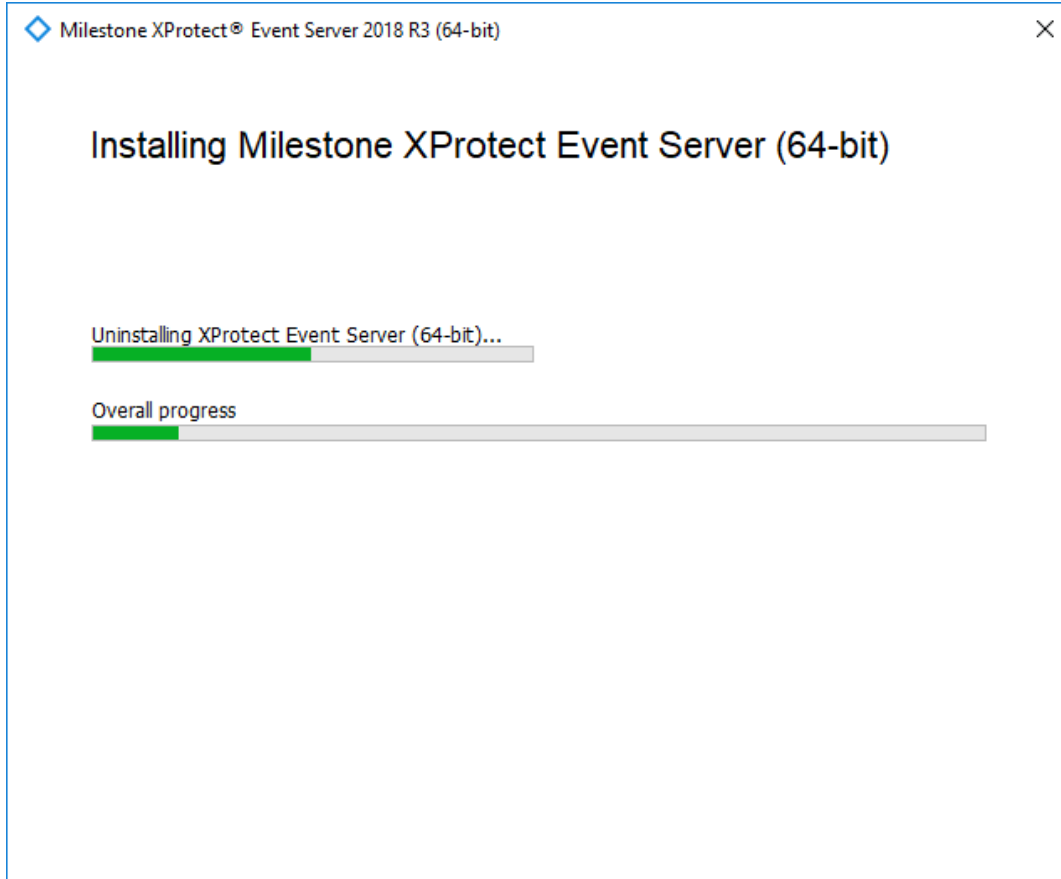
Password:
Confirm password:

Previous Continue Cancel

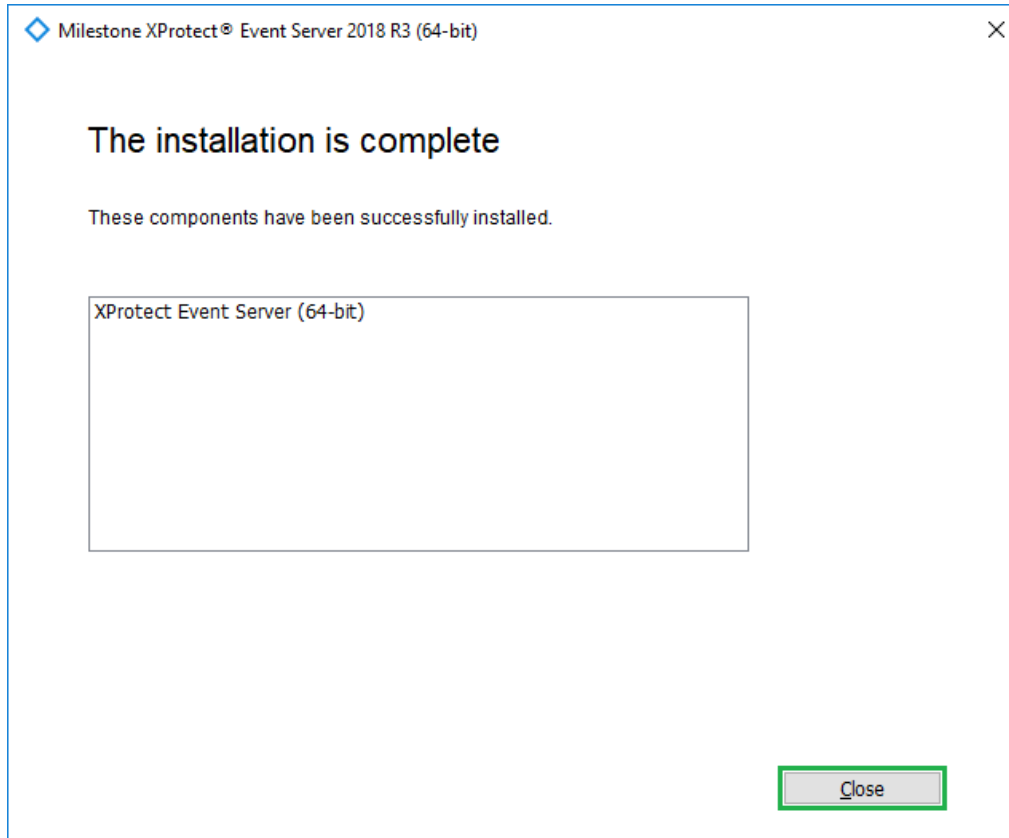
- The installer will choose the **File location** based on configuration of the current installation. In this case it is **C:\Program Files\Milestone**. Click **Install**.



- 8. The next steps are executed automatically.



9. Click **Close**.



10. Restart the computer in order the changes to be applied.

Plug-in installer

The Milestone Custom Development Actions plug-in consists of one installation file supporting Windows 64-bit only:

- ***MilestoneCustomDevelopmentActionsInstaller_x64_v1.2.XX.X.msi***

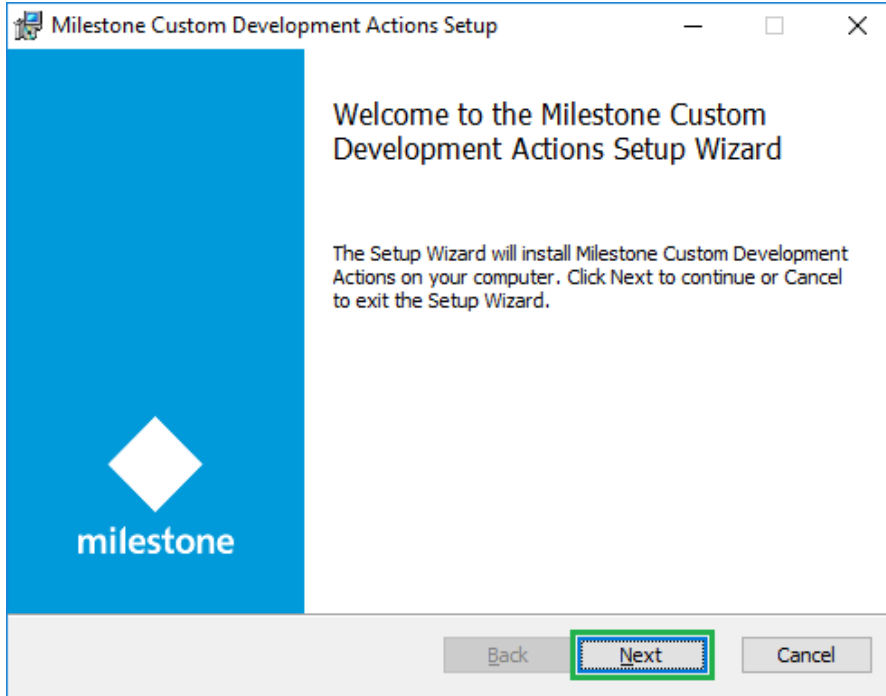
The Milestone Custom Development Actions plug-in must be installed on the following computers:

- On the computer where the XProtect Event Server is installed
- On the computer where the XProtect Management Client is installed

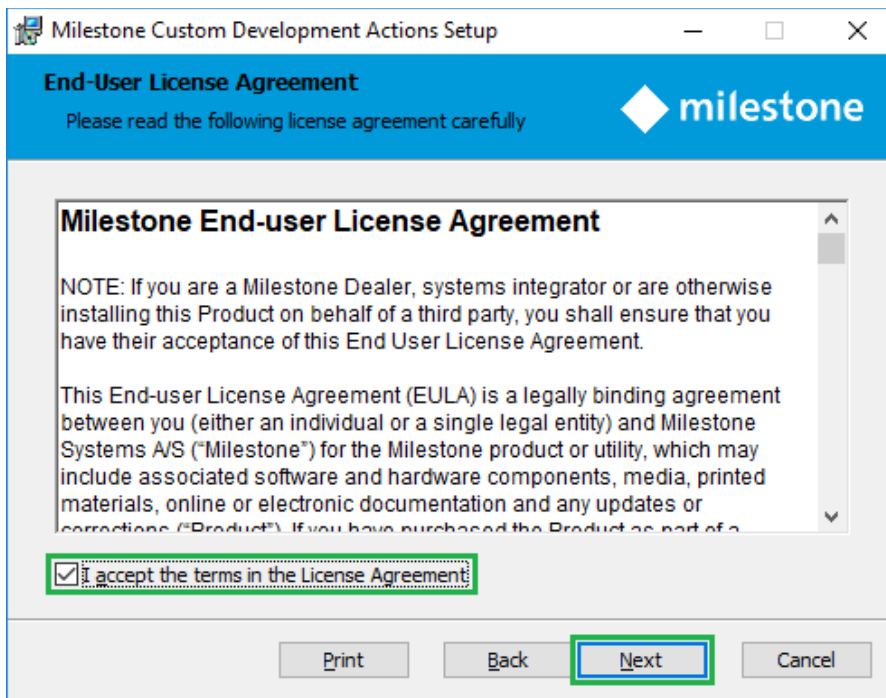
Plug-in installation steps

1. Start the installation by executing ***MilestoneCustomDevelopmentActionsInstaller_x64_v1.2.XX.X.msi***.

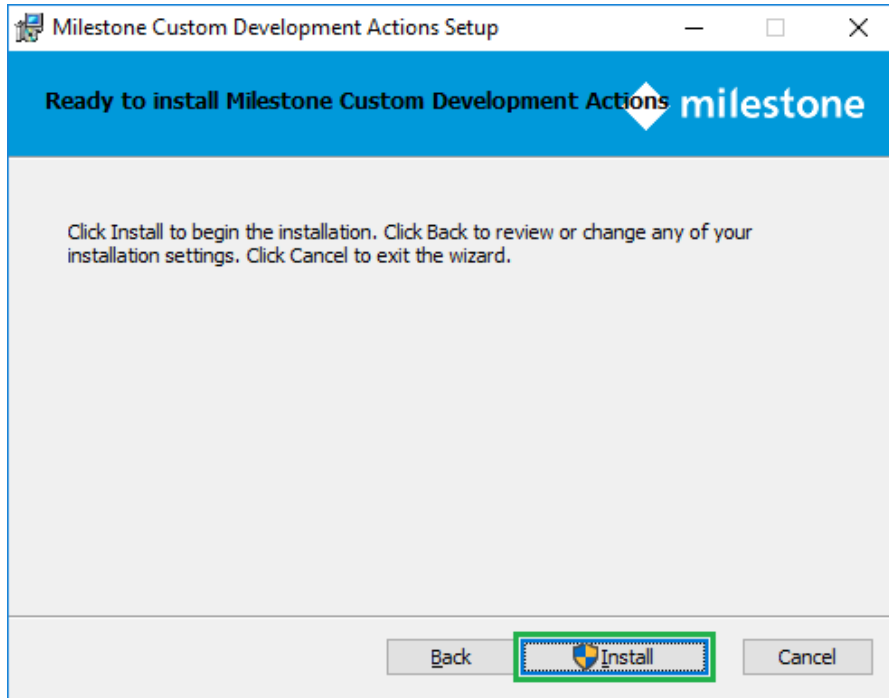
2. Click **Next**.



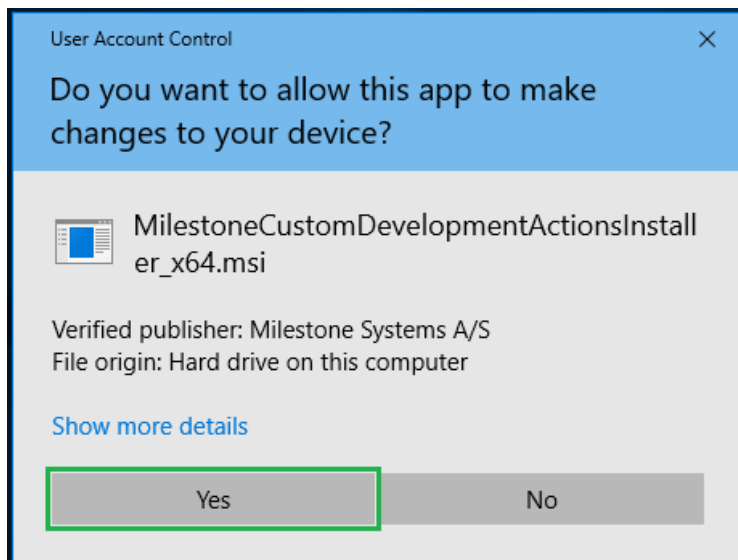
3. Read the license agreement carefully and select the **I accept the terms in the License Agreement** box. Click **Next**.



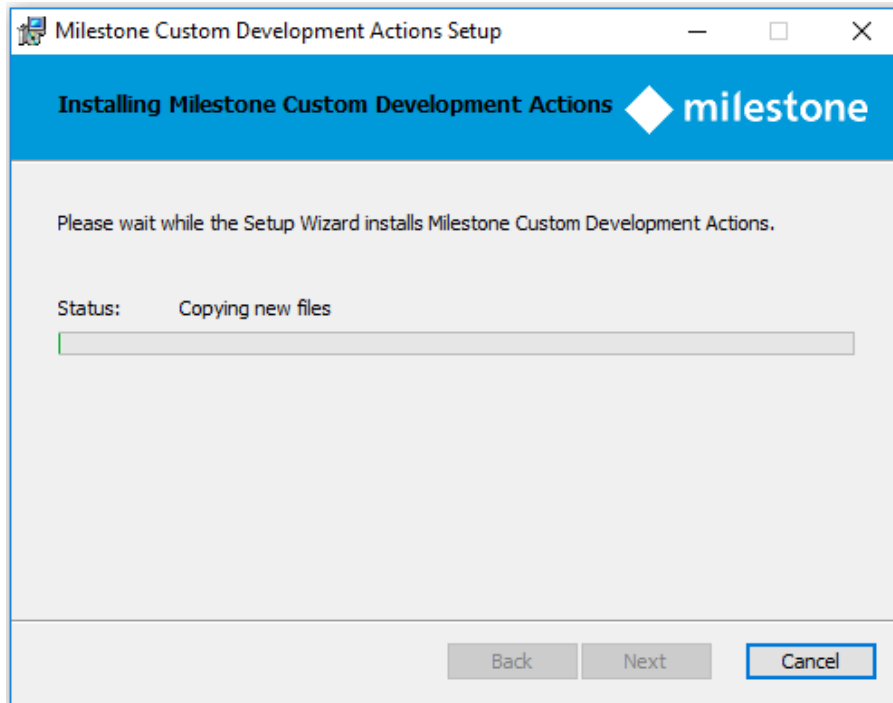
4. Click **Install**.



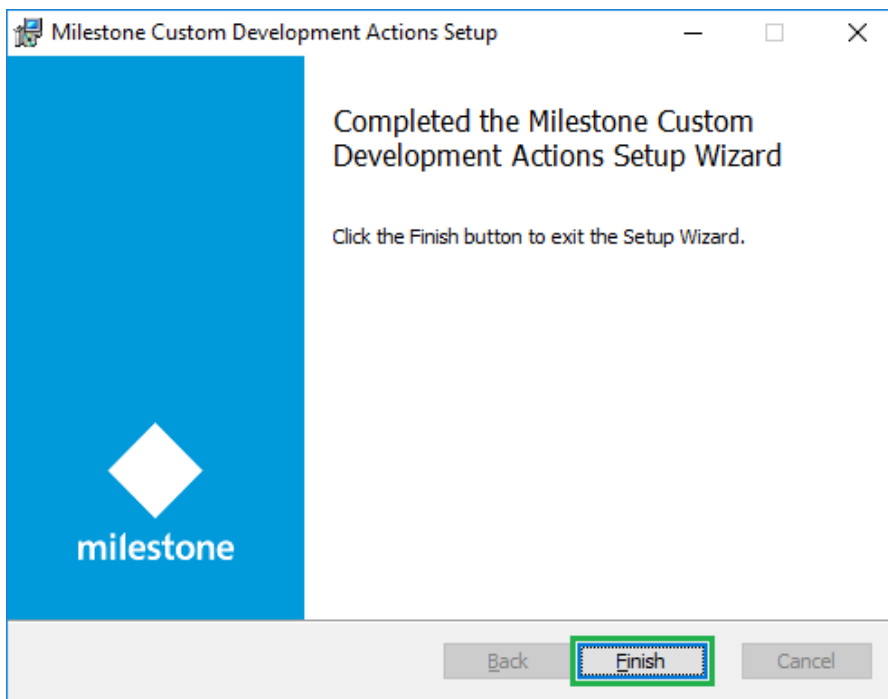
5. Click **Yes**, in case the following message appears on the screen:



- The next steps are executed automatically.



- Click **Finish**.



- Restart the XProtect Event Server.

License

This solution does have a build-in **MIP** license check that is locked to the software license code (SLC) of the XProtect installation of which it is a part.

It automatically comes with a 30 day grace period which starts from the date when the plug-in is installed. After the grace period expires, a permanent **MIP** license is needed.

The permanent **MIP** licenses are provided by the distributor. In order to generate a permanent **MIP** license, the distributor must know the SLC of the XProtect system where the solution has been installed. Collect the SLC and send it to the distributor, preferably via email.

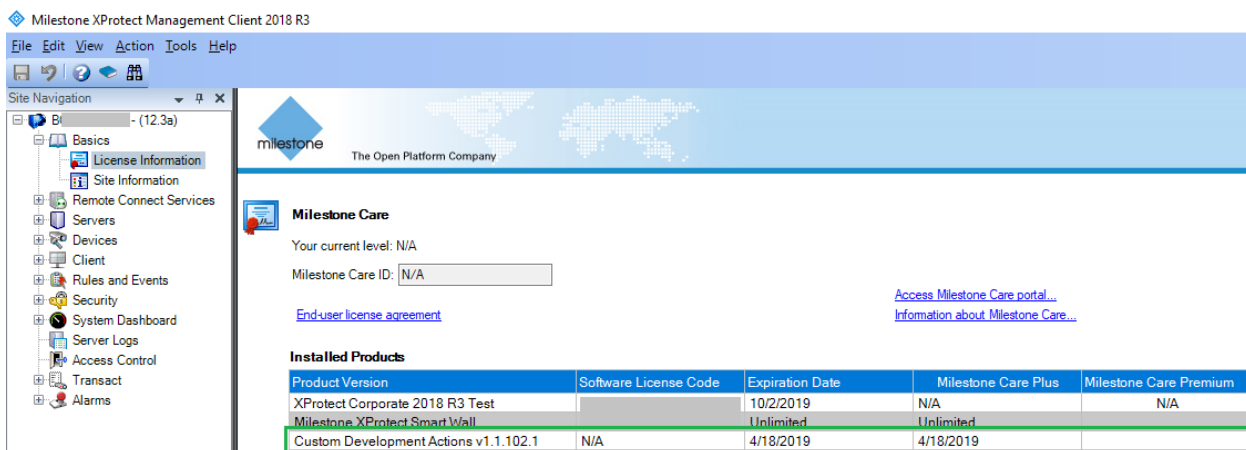
When the permanent **MIP** license is acquired, the XProtect system must be reactivated, either online or offline.

If **MIP** license check fails, the following error message will be displayed in the MIP logs and the solution will have a reduced functionality:

Example:

2021-10-11 12:54:12.873 UTC+03:00 Error CustomActionManager There is a problem with the license.(System.Collections.ObjectModel.Collection`1[VideoOS.Platform.License.LicenseInformation])

The license information can also be checked in the XProtect Management Client > **Site Navigation** > **Basics** > **License Information** > **Installed Products** > **Custom Development Actions v1.3.XX.1**.



Milestone XProtect Management Client 2018 R3

File Edit View Action Tools Help

Site Navigation - (12.3a)

Basics
 License Information
 Site Information
 Remote Connect Services
 Servers
 Devices
 Client
 Rules and Events
 Security
 System Dashboard
 Server Logs
 Access Control
 Transact
 Alarms

Milestone Care
 Your current level: N/A
 Milestone Care ID: N/A
[End-user license agreement](#)
[Access Milestone Care portal...](#)
[Information about Milestone Care...](#)

Installed Products

Product Version	Software License Code	Expiration Date	Milestone Care Plus	Milestone Care Premium
XProtect Corporate 2018 R3 Test		10/2/2019	N/A	N/A
Milestone XProtect SmartWall		Unlimited	Unlimited	
Custom Development Actions v1.1.102.1	N/A	4/18/2019	4/18/2019	

Configuration

Enable <device>

Description	
This is an action which changes the state of the selected device (Cameras, Inputs, Metadata, Microphones, Outputs and/or Speakers) in the available Recording Servers from Not Enabled (Disabled) to Enabled .	
Parameters	
<device>	You need to select one, many or All Cameras, All Inputs, All Metadata, All Microphones, All Outputs and/or All Speakers from list.

Disable <device>

Description	
This is an action which changes the state of the selected device (Cameras, Inputs, Metadata, Microphones, Outputs and/or Speakers) in the available Recording Servers from Enabled to Not Enabled (Disabled).	
Parameters	
<device>	You need to select one, many or All Cameras, All Inputs, All Metadata, All Microphones, All Outputs and/or All Speakers from list.

Enable <hardware>

Description	
This is an action which changes the state of the selected hardware in the available Recording Servers from Not Enabled (Disabled) to Enabled .	
Parameters	
<hardware>	You need to select one, many or All Hardware from the list.

Disable <hardware>

Description	
This is an action which changes the state of the selected hardware in the available Recording Servers from Enabled to Not Enabled (Disabled).	
Parameters	
<hardware>	You need to select one, many or All Hardware from the list.

Start recording on <cameras>

Description	
This is an action which starts the recording (via sending MIP message "Start recording") for the selected cameras.	
Parameters	
<cameras>	You need to select one, many or All Cameras from the list.

Stop recording on <cameras>

Note: This action can be used to stop the recording in case it is started by the action **Start recording on <cameras>**.

Description	
This is an action which stops the recording (via sending MIP message "Stop recording") for the selected cameras.	
Parameters	
<cameras>	You need to select one, many or All Cameras from the list.

Move <hardware> to <storage>

Description	
This is an action which moves hardware to a specific storage of another Recording Server which belongs to the same site. After a move, the hardware and its devices run on the new Recording Server and all new recordings are stored into this specified server storage.	
Parameters	
<hardware>	You need to select one, many or All Hardware from the list. Each hardware does have a name in format <Recording Server name> - <Hardware name> . After a move, the hardware is renamed with the new <Recording Server name> as a prefix, but only in terms of rule configuration for the new actions.
<storage>	You need to select a storage from the list. Note: Only one storage must be selected in the rule configuration.

Notes: After a move, the rule is no longer valid, because the hardware is renamed (only in terms of rule configuration for the new actions) and the prefix contains the new **<Recording Server name>**.

A hardware cannot be moved to the same or different storage on the Recording Server to whom it initially belongs.

Only hardware from one and the same Recording Server (does have the same **<Recording Server name>** as a prefix) must be selected in the rule configuration.

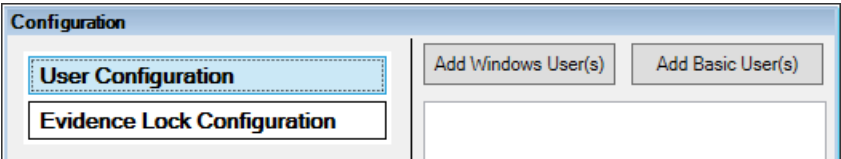
Add live permissions from <roles> on <hardware>

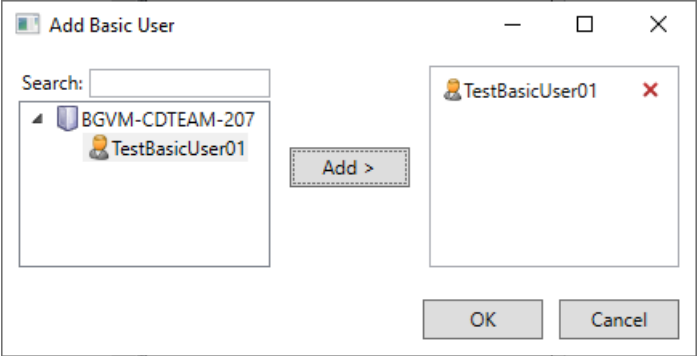
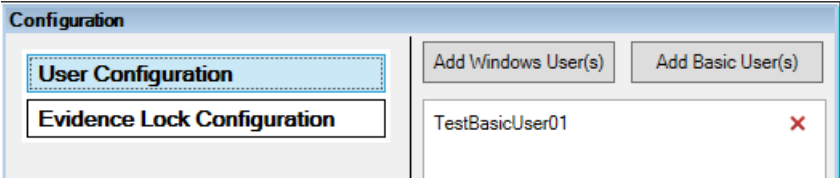
Description	
This is an action which adds Live permissions to selected roles for Cameras and Metadata and Listen permissions for Microphones, Speakers for the selected hardware.	
Parameters	
<roles>	You need to select one, many or All Roles from the list.
<hardware>	You need to select one, many or All Hardware from the list.

Remove live permissions from <roles> on <hardware>

Description	
This is an action which removes Live permissions from selected roles for Cameras and Metadata and Listen permissions for Microphones, Speakers for the selected hardware.	
Parameters	
<roles>	You need to select one, many or All Roles from the list.
<hardware>	You need to select one, many or All Hardware from the list.

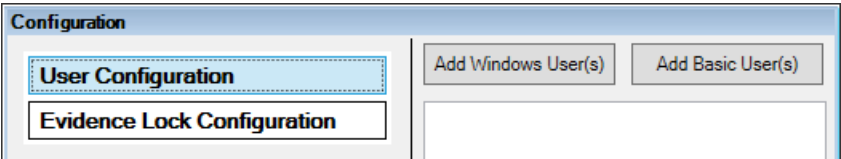
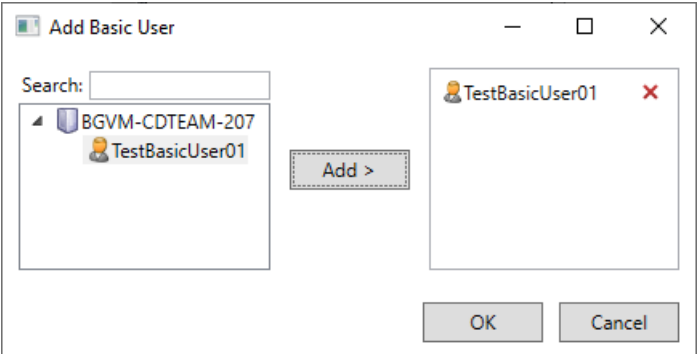
Add <user> to <role>

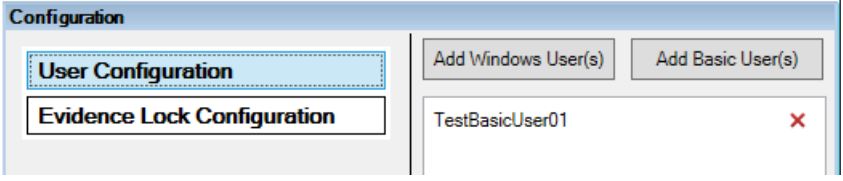
Description	
This is an action that adds a pre-defined user to a role.	
Preconditions	
Add Windows or basic user(s)	<p>Windows or basic users must be configured before creating a rule with that action:</p> <ol style="list-style-type: none"> Open XProtect Management Client > Site Navigation > MIP Plug-ins > Custom Development Actions > Custom Development Actions > User Configuration.  <ol style="list-style-type: none"> Add users based on your requirements.

	<p>Add Windows User(s)</p> <ol style="list-style-type: none"> I. Click Add Windows User(s). In the Select Users dialog window insert one or many, Windows local and/or domain user(s). Click OK. II. The user(s) is added to the User Configuration. III. Click Save in the toolbar to save the configuration. <p>Add Basic User(s)</p> <ol style="list-style-type: none"> I. Click Add Basic User(s). In the Add Basic User dialog window select one or many basic user(s) and click Add >. The Search option can be used to filter the results. <p>Example:</p>  <p>Click OK.</p> <ol style="list-style-type: none"> II. The user(s) is added to the User Configuration. <p>Example:</p>  <ol style="list-style-type: none"> III. Click Save in the toolbar to save the configuration. <p>User(s) are now available for selection when using the action Add <user> to <role>.</p>
<p>Delete user</p>	<ol style="list-style-type: none"> 1. Click the red cross for the selected user. 2. Click Save in the toolbar to confirm the deletion.
<p>Parameters</p>	
<p><user></p>	<p>You need to select one user from the list.</p>

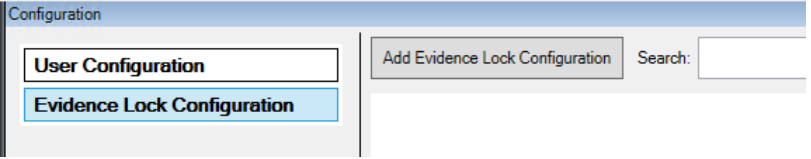
	<i>Note: Only one user must be selected.</i>
<role>	You need to select one, many or All Roles from the list.

Remove <user> from <role>

Description	
This is an action that removes a pre-defined user from a role.	
Preconditions	
<p>Add Windows or basic user(s)</p>	<p>Windows or basic users must be configured before creating a rule with that action:</p> <ol style="list-style-type: none"> Open XProtect Management Client > Site Navigation > MIP Plug-ins > Custom Development Actions > Custom Development Actions > User Configuration.  <ol style="list-style-type: none"> Add users based on your requirements. <p>Add Windows User(s)</p> <ol style="list-style-type: none"> Click Add Windows User(s). In the Select Users dialog window insert one or many, Windows local and/or domain user(s). Click OK. The user(s) is added to the User Configuration. Click Save in the toolbar to save the configuration. <p>Add Basic User(s)</p> <ol style="list-style-type: none"> Click Add Basic User(s). In the Add Basic User dialog window select one or many basic user(s) and click Add >. The Search option can be used to filter the results. <p>Example:</p> 

	<p>Click OK.</p> <p>V. The user(s) is added to the User Configuration.</p> <p>Example:</p>  <p>VI. Click Save in the toolbar to save the configuration.</p> <p>User(s) are now available for selection when using the action Add <user> to <role>.</p>
Delete user	<ol style="list-style-type: none"> 1. Click the red cross for the selected user. 2. Click Save in the toolbar to confirm the deletion.
Parameters	
<user>	<p>You need to select one user from the list.</p> <p><i>Note: Only one user must be selected.</i></p>
<role>	<p>You need to select one, many or All Roles from the list.</p>

Add <evidence lock> to recording on <cameras>

Description	
<p>This is an action that creates an evidence lock to a recording for specific camera(s).</p>	
Preconditions	
Add Evidence Lock Configuration	<p>An Evidence Lock Configuration must be created before creating a rule with that action:</p> <ol style="list-style-type: none"> 1. Open XProtect Management Client > Site Navigation > MIP Plug-ins > Custom Development Actions > Custom Development Actions > Evidence Lock Configuration. 

2. Click **Add Evidence Lock Configuration**. This will open a dialog window with several parameters to be filled in:

Name: Name of the evidence lock.

Description: Description of the evidence lock.

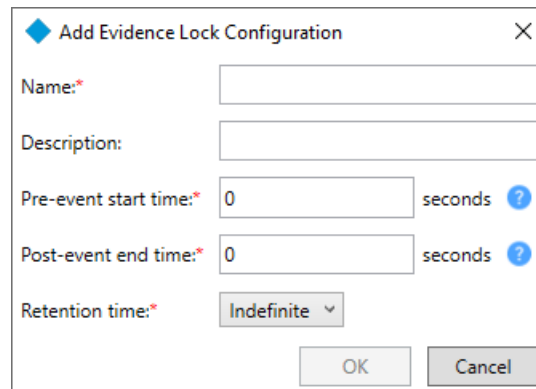
Pre-event start time (*in seconds, min 1 / max 600*): Select time before recording to include in the evidence lock.

Post-event end time (*in seconds, , min 1 / max 600*): Select time after recording to include in the evidence lock

Retention time: Specify how long should the evidence lock be saved for. Two options are available.

Indefinite: Select this option to save the evidence lock for indefinite period of time.

Days: Select this option and insert value for the number of days, so the evidence lock is saved for the specified number of days.



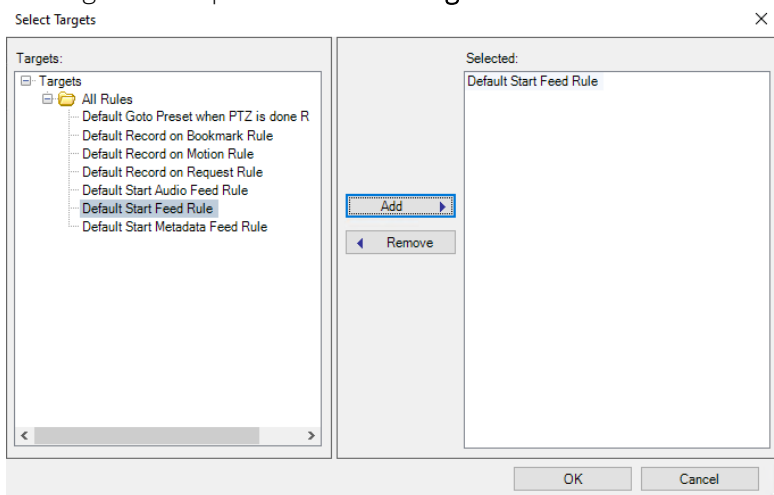
Click **OK**.

The evidence lock configuration is created.

Example:

	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <p>Name: TestELC01 ✕</p> <p>Description: TestELC01Description01</p> <p>Pre-event start time: 5 seconds</p> <p>Post-event end time: 5 seconds</p> <p>Retention time: Indefinite</p> </div> <p>3. Click Save in the toolbar to save the configuration.</p>
Delete Evidence Lock Configuration	<ol style="list-style-type: none"> 1. Click the red cross in the right upper corner of the selected configuration. 2. Click Save in the toolbar to confirm the deletion.
Search	Type a string in the Search bar to filter the results.
Parameters	
<evidence lock>	<p>Select Evidence Lock Configuration.</p> <p><i>Note: Only one Evidence Lock Configuration must be selected.</i></p>
<cameras>	You need to select one, many or All Cameras from the list.

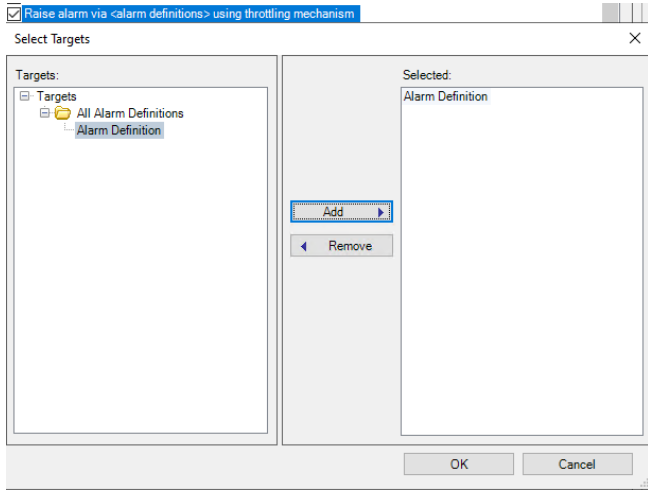
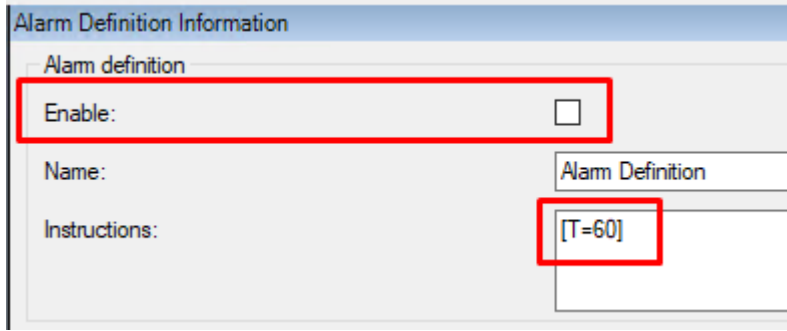
Activate <rules>

Description	
This is an action which activates another rule	
Parameters	
<rules>	<p>Clicking on rule opens a Selected Targets window.</p>  <p>Select the rule you wish to Activate > Add > OK (rules you wish to activate must be created before the Activate <rules> rule.</p>

Deactivate <rules>

Description	
This is an action which deactivates another rule	
Parameters	
<rules>	<div style="border: 1px solid #ccc; padding: 5px;"> <div style="border-bottom: 1px solid #ccc; padding-bottom: 5px;"> <p style="margin: 0;">Manage Rule - □ ×</p> <p>Name: <input type="text" value="New Rule 001"/></p> <p>Description: <input type="text"/></p> <p>Active: <input checked="" type="checkbox"/></p> </div> <div style="border-bottom: 1px solid #ccc; padding: 5px;"> <p style="text-align: center; margin: 0;">Step 3: Actions</p> <p>Select actions to perform</p> <ul style="list-style-type: none"> <input type="checkbox"/> Enable <device> <input type="checkbox"/> Disable <device> <input type="checkbox"/> Activate <rules> <input type="checkbox"/> Enable <hardware> <input type="checkbox"/> Disable <hardware> <input checked="" type="checkbox"/> Raise alarm via <alarm definitions> using throttling mechanism <input type="checkbox"/> Start recording on <cameras> <input type="checkbox"/> Stop recording on <cameras> <input type="checkbox"/> Add <user> to <role> <input type="checkbox"/> Add <evidence lock> to recording on <cameras> </div> <div style="padding: 5px;"> <p>Edit the rule description (click an underlined item)</p> <p>Perform an action on Analytics Event 1 (Analytics Events) from AXIS Q3517 Fixed Dome Network Camera (10.5.32.149) - Camera 1 Raise alarm via Alarm Definition using throttling mechanism</p> </div> <div style="text-align: center; margin-top: 5px;"> <input type="button" value="Help"/> <input type="button" value="Cancel"/> <input type="button" value=" < Back"/> <input type="button" value=" Next >"/> <input type="button" value="Finish"/> </div> </div>
	<p>Select the alarm which</p> <ol style="list-style-type: none"> 1. Trigger and event (triggering event for the rule) Depending on the [T=20] value the throttling will not create an alarm in this period after the last created alarm.

Raise alarm via <alarm definitions> using throttling mechanism

Description	
This is an action which allows the user to setup a rule that suppresses alarm	
Parameters	
<rules>	<p>Select an alarm definition which is configured with time throttling (in seconds)</p>  

Preconditions for alarm throttling

Before configuring the rule **Raise alarm via <alarm definitions> using throttling mechanism**, the operator must configure alarm definitions in the **XProtect Management Client > Alarm Definitions** section, with the desired throttling time. This is done by typing the throttle interval in the description field of the alarm definition.

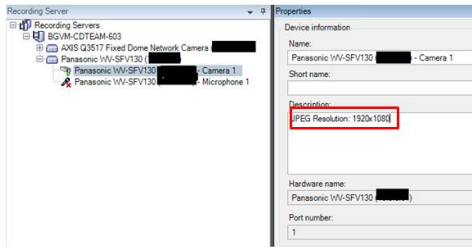
The format for the throttling interval is **[T=60]**. **This format must be used.**

- T - time

- 60 – value is in seconds. The value used is an example. The operator may type in any number as long as it is not a negative one.

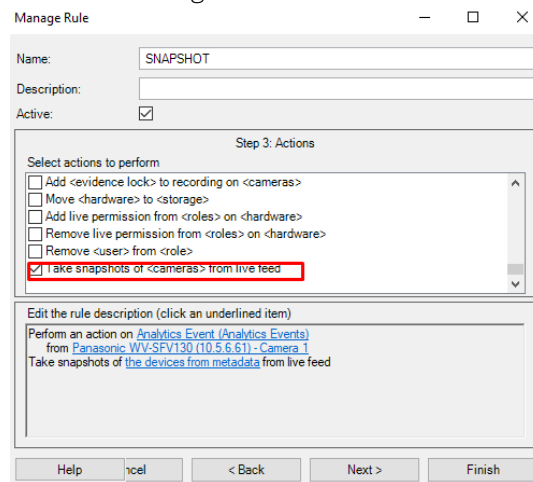
Note* It is very important the operator removes the checkmark next to **Enabled** in the alarm definition. This is required only for alarms that will use throttling.

Take snapshots of <cameras> from live feed

Description	
This is an action which allows the user to setup a rule that takes a snapshot of cameras live feed	
Parameters	
<rules>	<p>One or more cameras and at least 1 event shout be created before hand to ease the setup of the snapshot rule.</p> <p>Default resolution for a snapshot is 1920x1080. Take in mind that the system will upscale or downscale resolutions to keep the aspect ratio of the camera. If the user wishes to change this default resolution a string must be input in the Devices' Description field under Recording Server. It is important to note that the string is case sensitive and must be input in this exact order.</p>  <ul style="list-style-type: none"> - If privacy masking is enabled the taken screenshot will display it. - Changing the name of the camera device may not be reflected in the following screenshots if the event server is not restarted. - Placing special characters in the camera device's name will be replaced with underscore on screenshot creation. - Default JPEG format of generated screenshot <i>{cameraName}_{frameTime.ToString("yyyyMMdd'T'HHmmss")}.jpg</i> - Default location for generating screenshots is <i>C:\ProgramData\Milestone\Custom Development Actions\LiveSnapshots.</i> - If the user wishes to change the default location for generating screenshots a SYMLINK must be done between the default location and the new one.

Example for rule Take snapshots of <cameras> from live feed

Configuration using an analytics event as the trigger to take a snapshot from the listed camera. Take in mind that all cameras group can be selected here instead of a single camera.



Manage Rule

Name: SNAPSHOT

Description:

Active:

Step 3: Actions

Select actions to perform

- Add <evidence lock> to recording on <cameras>
- Move <hardware> to <storage>
- Add live permission from <roles> on <hardware>
- Remove live permission from <roles> on <hardware>
- Remove <user> from <roles>
- Take snapshots of <cameras> from live feed

Edit the rule description (click an underlined item)

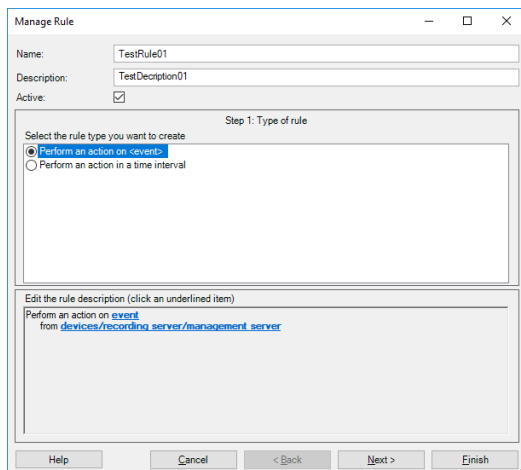
Perform an action on [Analytics Event \(Analytics Events\)](#) from [Panasonic WV-SFV130 \(10.5.6.61\) - Camera 1](#)
Take snapshots of [the devices from metadata](#) from live feed

Help Cancel < Back Next > Finish

NOTE* If you have a failover Recording Server setup the action will function.

Example for a rule which performs Disable <hardware> action

1. Open XProtect Management Client > **Site Navigation** > **Rules and Events** > **Rules**.
2. Right click on the **Rules** > **Add Rule**.
3. In the **Manage Rule** dialog box enter valid **Name** and **Description** (not a mandatory field). Leave the **Active** checkbox enabled if you want the current rule to be created as active.



Manage Rule

Name: TestRule01

Description: TestDescription01

Active:

Step 1: Type of rule

Select the rule type you want to create

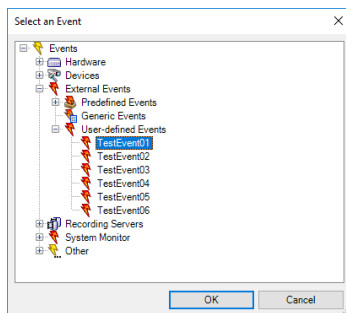
- Perform an action on [<event>](#)
- Perform an action in a time interval

Edit the rule description (click an underlined item)

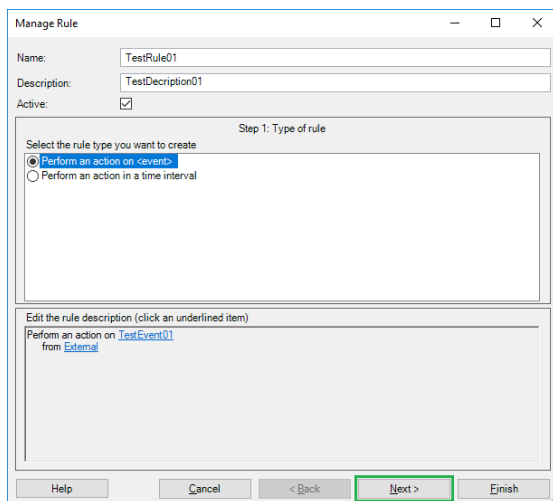
Perform an action on [event](#) from [devices/recording server/management server](#)

Help Cancel < Back Next > Finish

4. In the **Step 1: Type of rule section**, select **Perform an action on <event>**.
5. In the **Edit the rule description section (click an underlined item)**, click **event**.
6. In the **Select an Event** dialog box that appears, expand **External Events > User-defined Events** and select **TestEvent01**. Click **OK**.

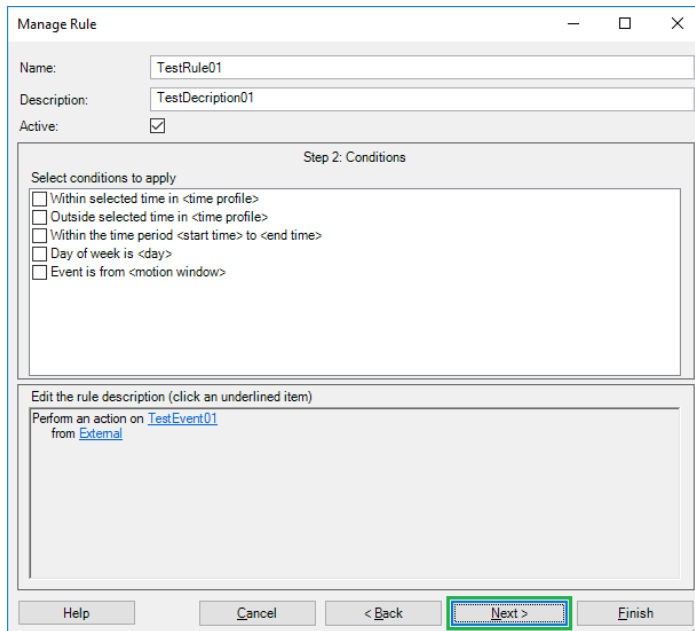


Click **Next**.



Note *TestEvent01* is already created event in *Site Navigation > Rules and Events > User- defined Events*.

- In the **Step 2: Conditions** sections, you can apply any conditions. In this scenario conditions will not be applied. Click **Next**.



Manage Rule

Name: TestRule01

Description: TestDescription01

Active:

Step 2: Conditions

Select conditions to apply

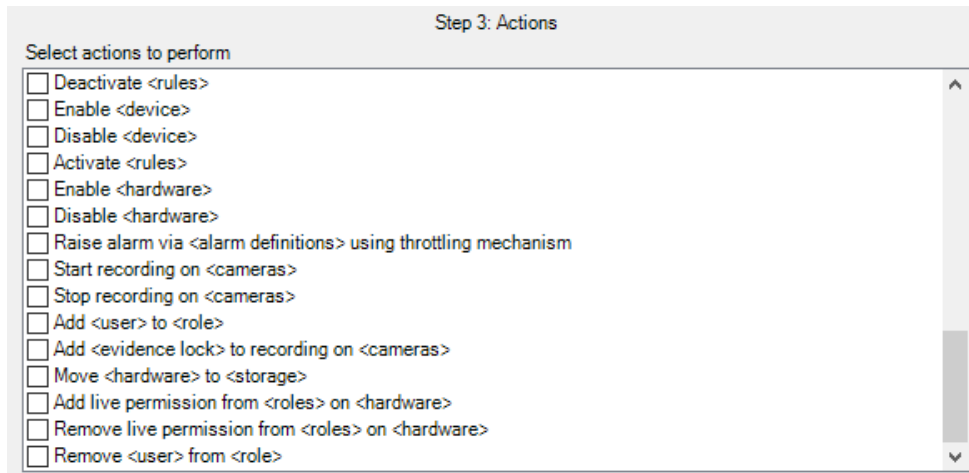
- Within selected time in <time profile>
- Outside selected time in <time profile>
- Within the time period <start time> to <end time>
- Day of week is <day>
- Event is from <motion window>

Edit the rule description (click an underlined item)

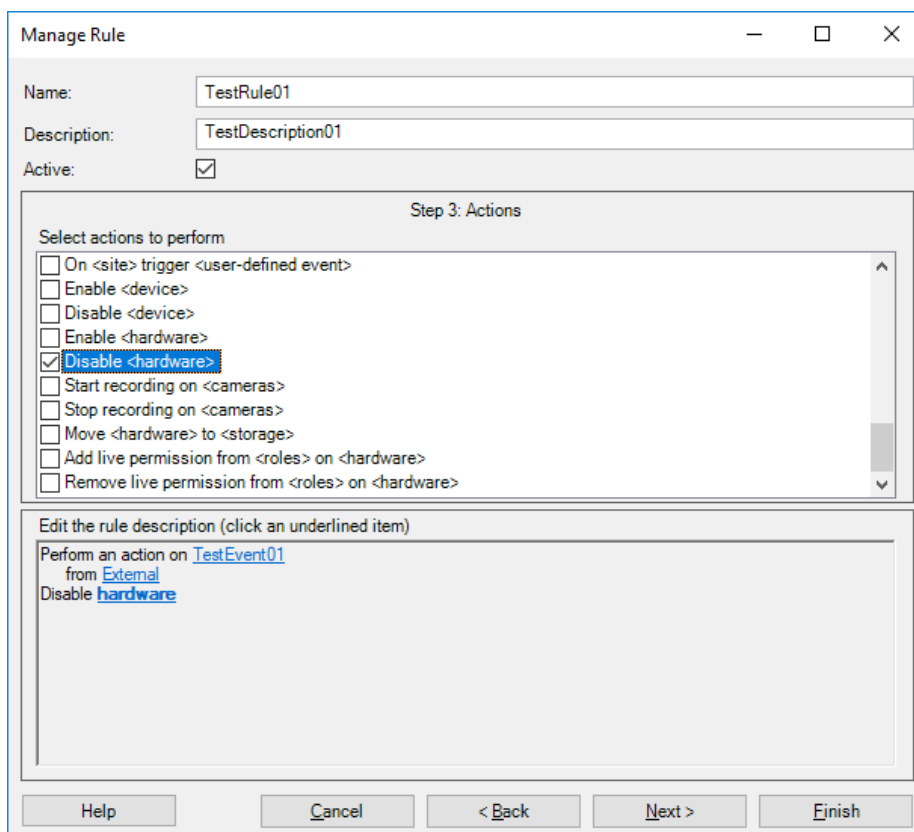
Perform an action on TestEvent01
from External

Help Cancel < Back **Next >** Finish

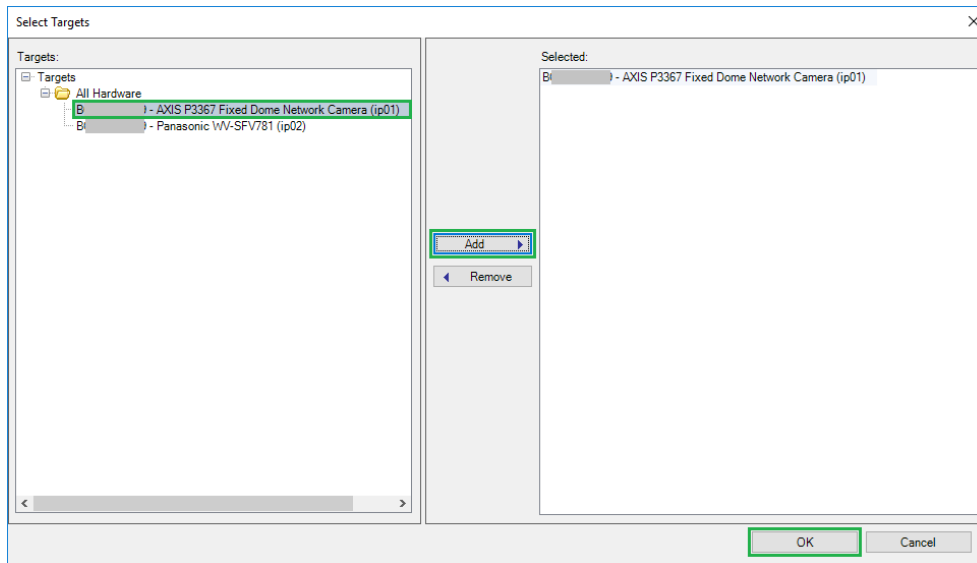
- In the **Step 3: Actions** section, you will see the list with available actions, including the new actions which can be selected:
 - Enable <device>
 - Disable <device>
 - Enable <hardware>
 - Disable <hardware>
 - Start recording on <cameras>
 - Stop recording on <cameras>
 - Move <hardware> to <storage>
 - Add live permissions from <roles> on <hardware>
 - Remove live permissions from <roles> on <hardware>
 - Add <user> to <role>
 - Remove <user> from <role>
 - Add <evidence lock> to recording on <cameras>
 - Activate <rules>
 - Deactivate <rules>
 - Raise alarm via <alarm definitions> using throttling mechanism
 - Take snapshots of <cameras> from live feed



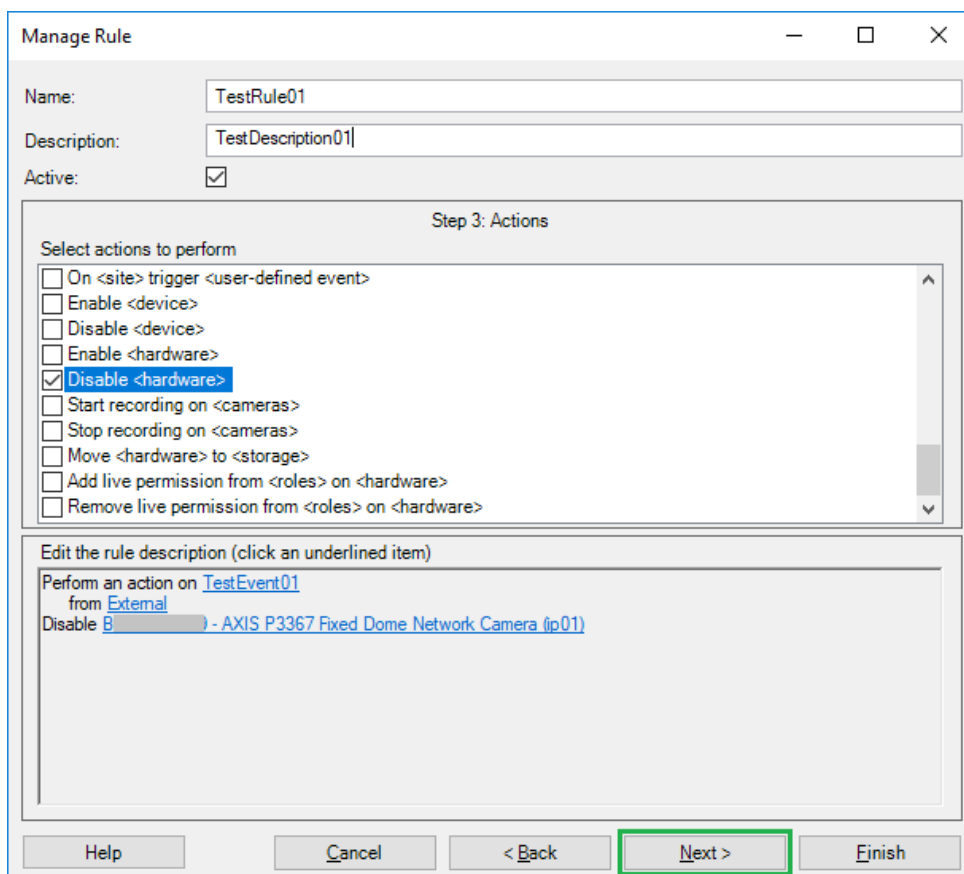
9. Select **Disable <hardware>**.



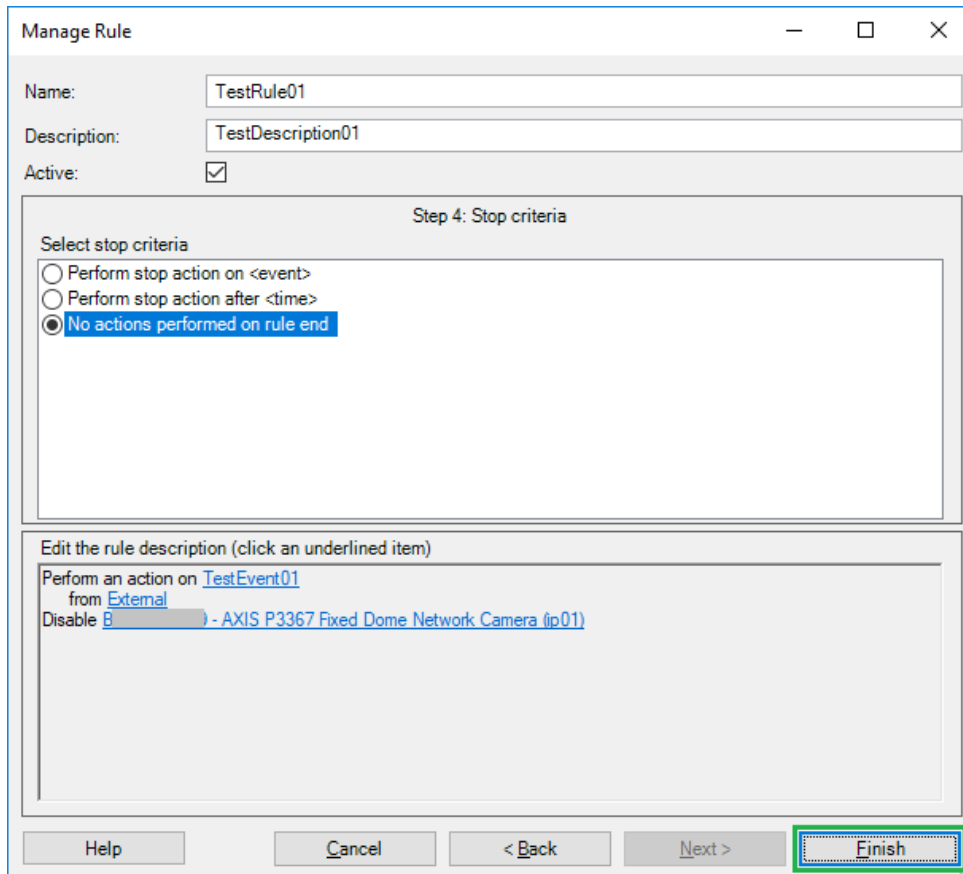
10. In the **Edit the rule description section (click an underlined item)**, click **hardware**.
11. In the **Select Targets** dialog box, select the hardware which need to be disabled. In this scenario **BXX1 - Axis P3367 Fixed Dome Network Camera (ip01)** will be disabled. Click **Add**. Click **OK**.



12. In the **Manage Rule** dialog box click **Next**.



13. In the **Step 4: Stop criteria** you can apply a criterion. It is selected **No actions performed on rule end** by default. Click **Finish**.



Manage Rule

Name:

Description:

Active:

Step 4: Stop criteria

Select stop criteria

Perform stop action on <event>

Perform stop action after <time>

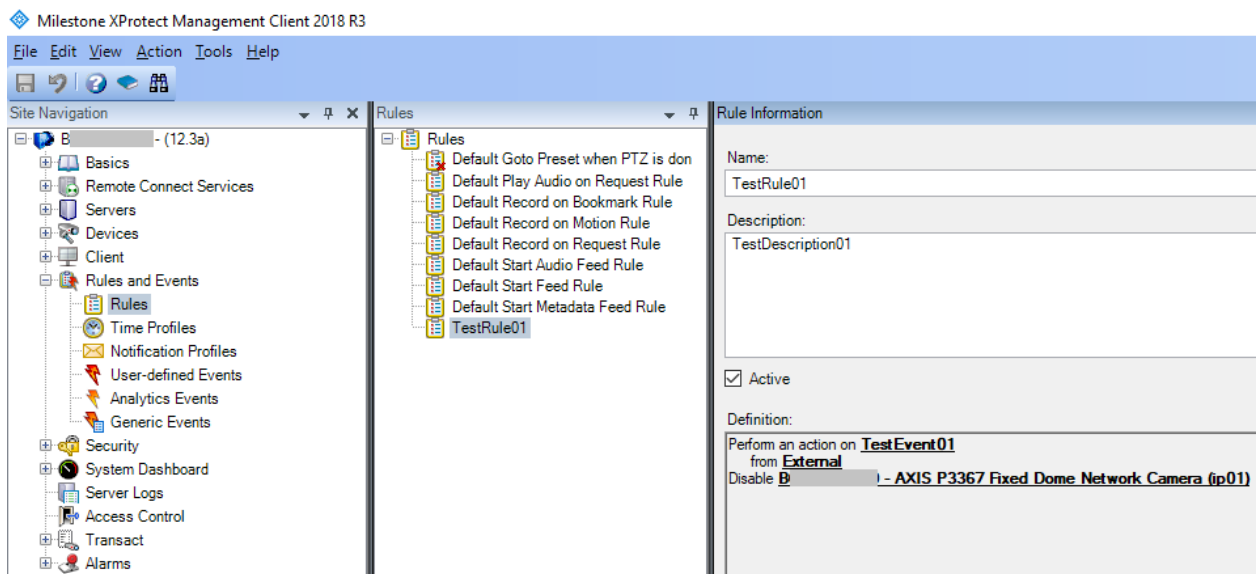
No actions performed on rule end

Edit the rule description (click an underlined item)

Perform an action on TestEvent01
from External
Disable B - AXIS P3367 Fixed Dome Network Camera (ip01)

Help Cancel < Back Next > **Finish**

14. Verify your new rule has the following syntax.



Milestone XProtect Management Client 2018 R3

File Edit View Action Tools Help

Site Navigation Rules Rule Information

Rules

- Default Goto Preset when PTZ is don
- Default Play Audio 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 Feed Rule
- Default Start Metadata Feed Rule
- TestRule01

Rule Information

Name: TestRule01

Description: TestDescription01

Active

Definition:

Perform an action on TestEvent01
from External
Disable B - AXIS P3367 Fixed Dome Network Camera (ip01)

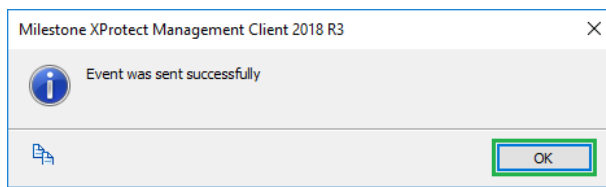
Operation

Verify the Disable <hardware> action rule is working

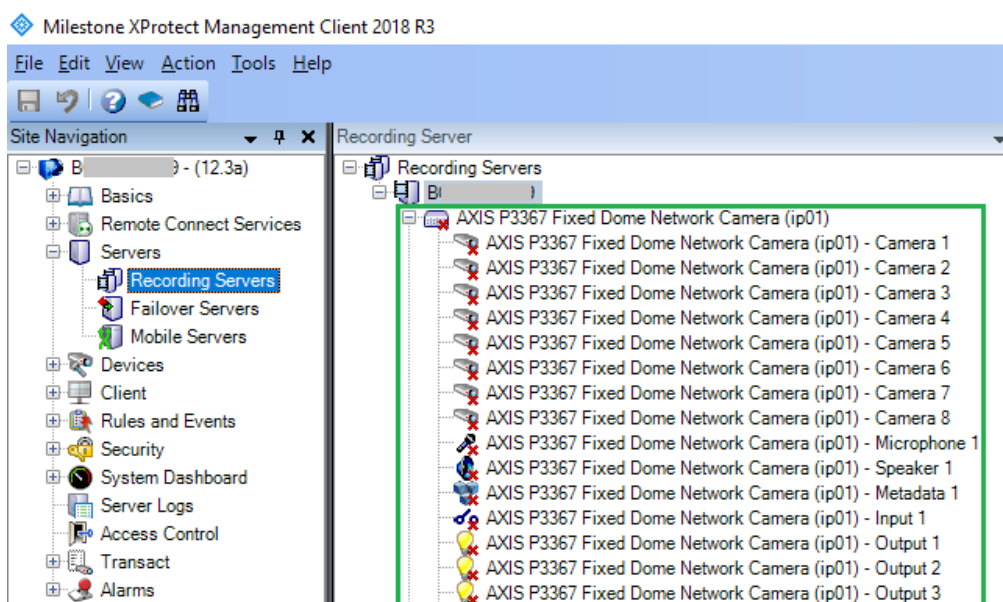
1. Open XProtect Management Client > **Site Navigation** > **Rules and Events** > **User-defined Events**.
2. Select **TestEvent01** from the list and click **Test Event**.



3. Following message will be displayed. Click **OK**.



4. Open XProtect Management Client > **Site Navigation** > **Servers** > **Recording Servers**. In the Recording Server pane expand the current recording server and its hardware.
5. Verify that the **BXX1 - AXIS P3367 Fixed Dome Network Camera (ip01)** hardware and all its devices are in disabled state.



Note: Refresh the Recording Servers if you do not see the changes.

Troubleshooting

This section provides information, which helps the administrator solve cases where the solution fails working. For detailed troubleshooting the [MIP logs](#) should be inspected.

Case: A rule with custom action is not triggered successfully.

Cause	Action
MIP License has expired or is not activated.	First, consider re-activation of the license either online or offline. Check the license details in XProtect Management Client.

MIP Logs

Examples:

Note: *BXX1* and *BXX2* are the names of the two Recording Servers used in the examples.

- Enable <device >**
 2019-03-18 14:06:22.506 UTC+02:00 Info SetCamerasEnabledState Enabled state for cameras BXX1 - AXIS P3367 Fixed Dome Network Camera (ip01) - Camera 1 is set to True.
- Disable <device>**
 2019-03-18 14:01:11.566 UTC+02:00 Info SetCamerasEnabledState Enabled state for cameras BXX1 - AXIS P3367 Fixed Dome Network Camera (ip01) - Camera 1 is set to False.
- Enable <hardware>**
 2019-03-18 14:51:12.175 UTC+02:00 Info SetHardwareEnabledState Enabled state for hardware BXX1 - AXIS P3367 Fixed Dome Network Camera (ip01) is set to True.
- Disable <hardware>**
 2019-03-18 14:45:41.652 UTC+02:00 Info SetHardwareEnabledState Enabled state for hardware BXX1 - AXIS P3367 Fixed Dome Network Camera (ip01) is set to False.
- Start recording on <cameras>**
 2019-03-20 19:26:55.489 UTC+02:00 Info StartRecording Recording of cameras(BXX1 - AXIS P3367 Fixed Dome Network Camera (ip01) - Camera 1) was started.
- Stop recording on <cameras>**
 2019-03-18 16:00:25.138 UTC+02:00 Info StopRecording Recording of cameras(BXX1 - AXIS P3367 Fixed Dome Network Camera (ip01) - Camera 1) was stopped.

- **Move <hardware> to <storage>**
2019-03-19 14:05:23.543 UTC+02:00 Info MoveHardware Hardware BXX1 - AXIS P3367 Fixed Dome Network Camera (ip01) was moved to BXX2 - Local Default.
- **Add live permissions from <roles> on <hardware>**
2019-03-18 18:09:36.023 UTC+02:00 Info SetHardwareLivePermission Live permission for Roles(TestRole01) is set to True for Hardware(BXX1 - AXIS P3367 Fixed Dome Network Camera (ip01))
- **Remove live permissions from <roles> on <hardware>**
2019-03-18 18:15:12.638 UTC+02:00 Info SetHardwareLivePermission Live permission for Roles(TestRole01) is set to False for Hardware(BXX1 - AXIS P3367 Fixed Dome Network Camera (ip01))
- **Add <user> to <role>**
2021-07-22 13:08:51.365 UTC+03:00 Info Add/RemoveUserFromRole User: TestUser01 was added to Role: TestRole01
- **Remove <user> from <role>**
2021-07-22 13:02:25.885 UTC+03:00 Info Add/RemoveUserFromRole User: TestUser01 was removed from Role: TestRole01
- **Add <evidence lock> to recording on <cameras>**
2021-08-16 09:12:27.866 UTC+02:00 Info EvidenceLockHelper Adding evidence lock TestELC01 resulted in Success
- **Activate <rules>**
2023-01-30 14:18:25.231 UTC+02:00 Info SetRuleEnabledState Enabled state for Default Start Feed Rule changed to True
- **Deactivate <rules>**
2023-01-30 14:24:15.138 UTC+02:00 Info SetRuleEnabledState Enabled state for Default Start Feed Rule changed to False
- **Take snapshots of <cameras> from live feed**
2024-04-26 11:54:35.587 UTC+03:00 Info CreateLiveSnapshot New job for creation of live snapshots for 1 received.
2024-04-26 11:54:35.714 UTC+03:00 Info CreateLiveSnapshot Successfully saved snapshot of camera Panasonic WV-SFV130 (10.5.6.61) - Camera 1 at C:\ProgramData\Milestone\Custom Development Actions\LiveSnapshots\Panasonic WV-SFV130 (10.5.6.61) - Camera

Limitations

Move <hardware> to <storage>

- Only one storage must be selected in the rule configuration.
- After a move, the rule is no longer valid, because the hardware is renamed (only in terms of rule configuration for the new actions) and the prefix contains the new <Recording Server name>.
- A hardware cannot be moved to the same or different storage on the Recording Server to whom it initially belongs.
- Only hardware from one and the same Recording Server (does have the same <Recording Server name> as a prefix) must be selected in the rule configuration.

Add <user> to <role>

- Only one user must be selected when creating/configuring the rule.

Remove <user> from <role>

- Only one user must be selected when creating/configuring the rule.

Add <evidence lock> to recording on <cameras>

- Only one Evidence Lock Configuration must be selected when creating/configuring the rule.

Activate <rules> / Deactivate <rules>

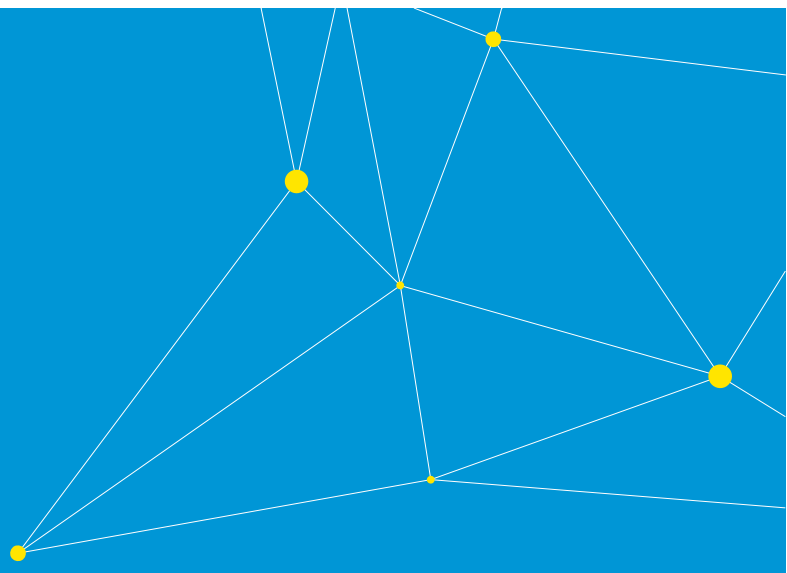
- will only be able to list and show Rules which are using built-in Actions and NOT Custom Development Actions.

Loading issue

- In rules selection list. When selecting a newly created rule, there might be a delay in displaying that new event. Refresh Management Client

Known issues

There are no known issues at the time of the release.



Milestone Systems is a leading provider of open platform video management software; technology that helps the world see how to ensure safety, protect assets and increase business efficiency. Milestone enables an open platform community that drives collaboration and innovation in the development and use of network video technology, with reliable and scalable solutions that are proven in more than 150,000 sites worldwide. Founded in 1998, Milestone is a stand-alone company in the Canon Group.