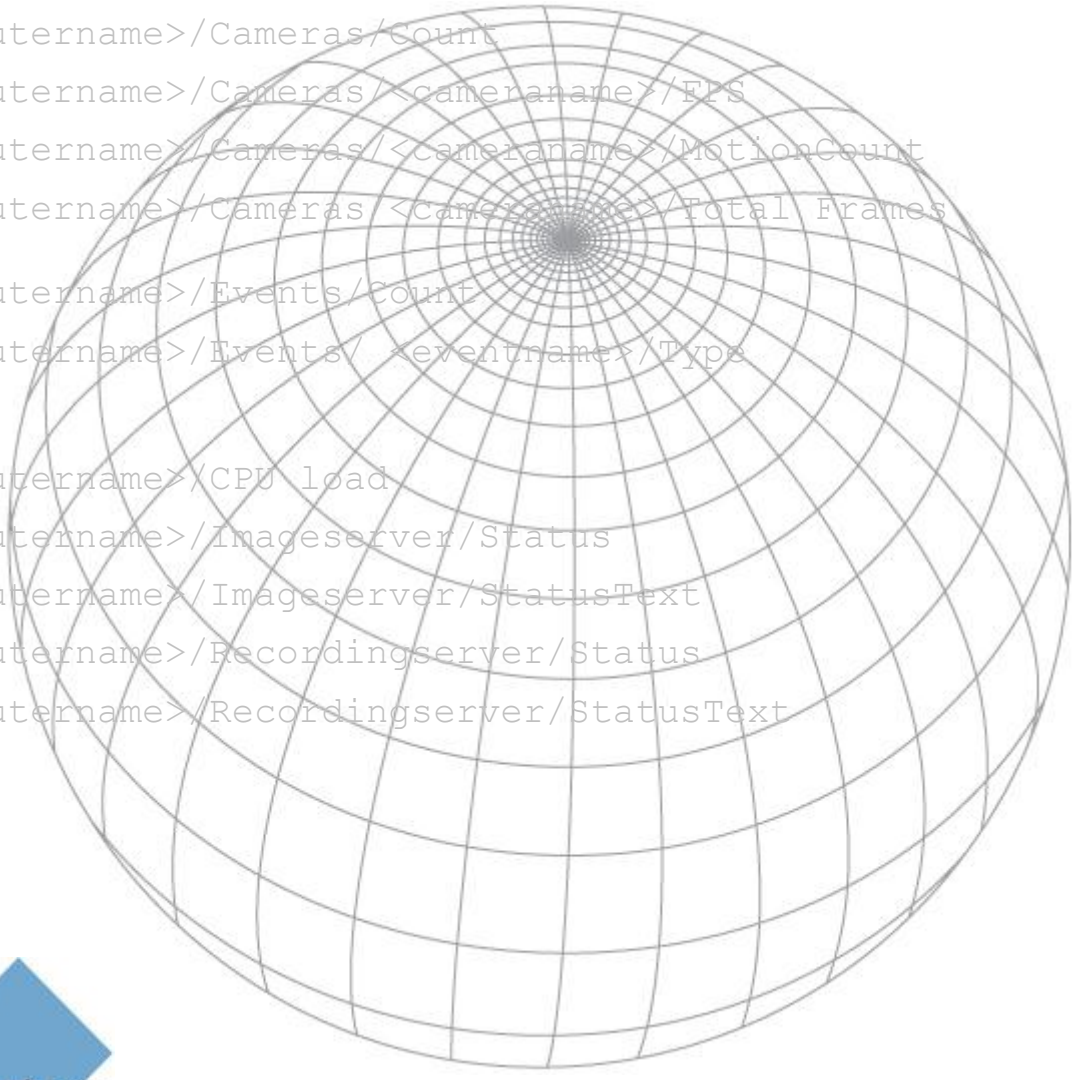


milestone XProtect

OPC Interface Manual

Includes Information about Using
Milestone XProtect OPC Client



```
<computername>/Cameras/Count  
<computername>/Cameras/<cameraname>/FPS  
<computername>/Cameras/<cameraname>/MotionCount  
<computername>/Cameras/<cameraname>/Total Frames  
<computername>/Events/Count  
<computername>/Events/<eventname>/Type  
  
<computername>/CPU load  
<computername>/Imageserver/Status  
<computername>/Imageserver/StatusText  
<computername>/Recordingserver/Status  
<computername>/Recordingserver/StatusText
```





Target Audience for this Document

This document is intended for system integrators wishing to install Milestone XProtect OPC Interface for integration of security systems, such as alarm management or access control systems, with Milestone XProtect surveillance solutions.

This document is of no relevance to end-users of Milestone XProtect surveillance solutions.

OPCi-m-2-241011

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Using the Milestone XProtect OPC Client to Test the OPC Interface 18



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Introduction

OPC Data Access is an open connectivity method for communication between entities in order to exchange commands and data.

A standard setup consists of an OPC client and an OPC server. The client logs in to the server, and sends commands to the server, which returns the requested data.

When used with Milestone XProtect surveillance system, OPC can be very useful for integration with alarm/security management and access control tools. Such tools will act as OPC clients, and log in to the OPC server, which is in turn connected to the Milestone XProtect surveillance system.

This way, a generated alarm could, for example, initiate instant display of live or playback video from relevant cameras in access clients or on wall-mounted monitors.

Note: Milestone XProtect Enterprise slaves on a Milestone XProtect Corporate server is not supported by the OPC Interface.

Installation

The installation package consists of two files:

- *Milestone XProtect OPC Interface Manual.pdf*; this document
- *MilestoneXProtectOPCInterface.exe*; the installer

Note: Milestone XProtect Enterprise 6.5c, Milestone XProtect Corporate 4.0a or later must be installed prior to installing the OPC Interface.

Installation of Milestone XProtect OPC Interface involves the following steps:

Run Installer

Run the installer *MilestoneXProtectOPCInterface.exe*.

Note: Ensure that the user account used while installing has Administrator privileges, alternatively right-click the installer and select *Run as administrator*.

The Milestone XProtect OPC Interface installer should guide you through all steps required to set up the OPC Interface, but this section will briefly introduce what is necessary.

The Milestone XProtect OPC Interface installer will ask you for required information, such as installation directory. When running against XProtect Corporate it is possible to install the XProtect OPC interface on a separate machine, the IP address or host name of the Management Server pc must be specified on the *System info port* page of the installer. Towards the end of the installation process, the installer will offer you four options:

- The **first option** relates to the configuration of Windows® Firewall. In order to be able to contact the Milestone XProtect OPC Interface from another computer, Windows Firewall must be configured to allow communication with the Milestone XProtect OPC Interface service, and to use the appropriate port (135). Provided you keep the firewall option selected, this will be done automatically for you.
- The **second and third options** relate to the DCOM Configuration Tool and the DCOM Configuration Guide. The Milestone XProtect OPC Interface is a DCOM service; therefore the computer must be configured for DCOM. This is done using the DCOM Configuration Tool; the DCOM Configuration Guide describes the required steps.
- The **fourth option** restarting Image Server (Enterprise only) is required when using advanced Matrix functionality with the Smart Client. A restart will update the configuration used by the Smart Client.

Note: If installing for Milestone XProtect Enterprise and it is not installed in its default directory, change paths as required.



Enable XProtect Central Connection

Note: This is only relevant when using the XProtect OPC Interface with XProtect Enterprise.

1. Open the Milestone XProtect Enterprise Server's *Management Application*.
2. In the *Management Application*, expand the *Advanced Configuration* node and select the *Central* node.
3. In the *Central* panel, verify that the *Enable Central* check box is checked.

Registry Settings

The following registry settings are added when installing the OPC Interface:

- HKLM\SOFTWARE\Milestone\Milestone Surveillance\inipath
where *Inipath* is the path to the directory containing .ini files for Milestone XProtect Enterprise.
- HKLM\SOFTWARE\Milestone\XProtect.OPC\UpdateFrequency
where *UpdateFrequency* is the interval in seconds between updating OPC items.
- HKLM\SOFTWARE\Milestone\XProtect.OPC\SysInfoPort
where *SysInfoPort* is the port number of the Image/Management Server pc.
- HKLM\SOFTWARE\Milestone\XProtect.OPC\SysInfoIpAdr
where *SysInfoIpAdr* is the IP address or host name of the Management Server pc.

Note: When installed on 64-bit version of Windows, the Milestone registry settings are located under the HKLM\SOFTWARE\Wow6432Node.

Configuration

The OPC Interface has a configuration file which is used for storing settings. This file also provides the possibility of doing additional configuration of the OPC Interface service. The file is called *OPC.ini* and is typically located in the following folder:

C:\Users\Public\Milestone\OPC

Using the OPC Interface service with a surveillance system, which have thousands cameras could affect the performance. Additional properties can be added to the configuration file to control the OPC Interface service.

Note: The configuration contained by the *OPC.ini* file is only loaded during start of the OPC Interface service. After applying additional configuration, make sure that the service is restarted. The service will automatically stop if no clients are connected and start upon new client requests.

Camera Sequences

To decrease the start-up time of the service, the *InitCameraSequences* property can be added. Setting this to '0' will prevent retrieving all camera sequences upon start of the OPC Interface service. The sequences for a camera will be updated when a new sequence is generated.

Recording Servers

The OPC Interface service can be configured to get status from a limited number of recording servers in a system. This makes it possible to distribute the load onto multiple OPC Interface services running on different machines. Configuration is done by adding the *[RecordingServers]* group with a number of *Recorder#* properties, each containing the ID (Guid) of a recording server. If no recording server has been defined all recording servers of a system will by default be included. The following shows an example of a configuration file where the OPC Interface has been limited to three recording servers and the *InitCameraSequence* has been disabled:

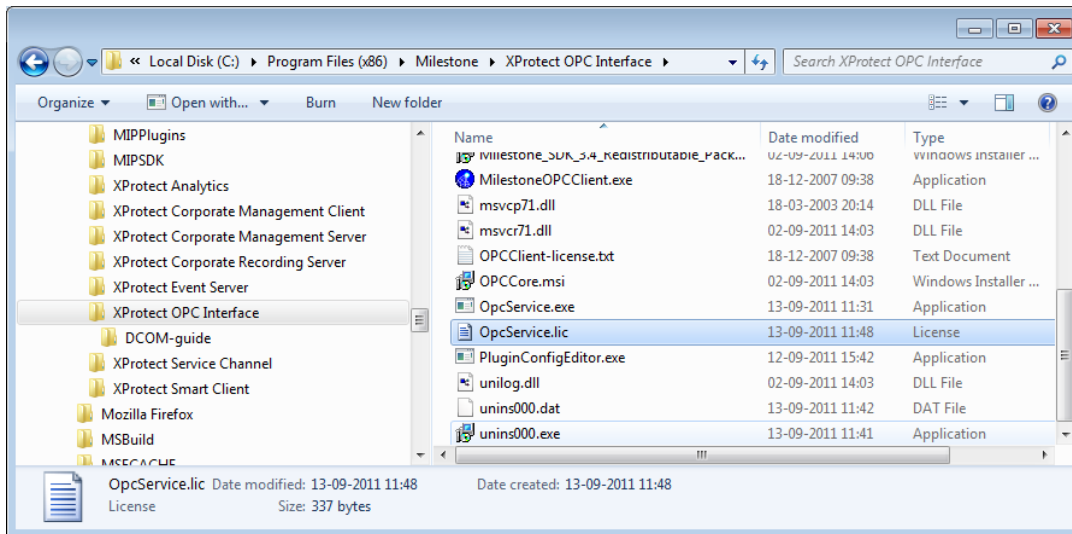
```
[OPC]
UserType=1
Password=290BA3C3B3CBB6B88968E0F0C00E0AA80776825458ADDB0C4FE18D3EE77C4C98
UserName=milestone\test
AgeAlerts=48
MaxAlerts=100
AgeSequences=6
MaxSequences=100
SignalTime=5
InitCameraSequences=0

[RecordingServers]
Recorder1=DE17132D-1275-4D60-B200-CD595FABC684
Recorder2=FBDD1B49-C618-4048-85B9-AE6A60F377D3
Recorder3=0D0E375D-5485-4680-98DC-59BED4B28C27
```

Licensing

The OPC Interface has a built-in license check that is locked to the physical MAC address of the machine where the OPC server is installed. A license file called "OpcService.lic" is required in order to utilize the OPC Interface; the file must be valid and located in the installation folder of the OPC Interface. The license file is not included in the installation and must be copied manually. By default, the license file should be placed in:

C:\Program Files (x86)\Milestone\XProtect OPC Interface\



The license file is provided by the distributor. In order to generate the file, the distributor must know about the MAC address of the machine. Collect the MAC address and send it to the distributor along with the SLC of the Milestone XProtect system, preferably via email.

If the license check fails an error message is available from the Server Log Item of the OPC Interface, see section "OPC Item Structure" for details.



Changing the Image/Management Server Login

The user name and password for logging in to the surveillance system's Image/Management Server is set during the installation of the OPC server.

If at a later point you need to change the user name and/or password, use the following command:

```
<OPC Install directory>\OPCService.exe /I <UserType> <UserName> <Password>
```

Where the UserType is:

0. Basic User (Enterprise only)
1. Windows user – the user name must include the domain if applicable
2. Windows user, current (requires that a user is logged in for the OPC interface to work)

For the change to take effect, stop and start the OPC Interface.

If Reinstalling Milestone XProtect Enterprise

If Milestone XProtect Enterprise is reinstalled after you install the Milestone XProtect OPC Interface, the Matrix Monitor items *View live*, *Stop playback* and *Playback start time* (see also OPC Item Structure in the following) may stop working.

To fix this, either reinstall the Milestone XProtect OPC Interface or execute the following command:

```
<OPC installation folder>\PluginConfigEditor.exe "<XPE installation folder>\
plugin\system\pluginconfiguration.xml" 7EE8D465-62C6-4839-ABD8-42A67EB53489 -a
VideoOS.RemoteClient.Plugin.Matrix\MatrixViewItem -i scripting=1 -i
activateallowedalways=1
```

where you replace <XPE installation folder> with the folder containing your Milestone XProtect Enterprise installation. After running the command, restart Milestone XProtect Enterprise's Image Server in order for the changes to take effect.

Troubleshooting

If the "Log" node contains the following error message (as the first – there might be more):
"m_pSystemInfo.CreateInstance failed"

Please delete the following two keys from the registry (using regedit):

On 32 bit Windows versions:

```
HKEY_CLASSES_ROOT\CLSID\{F626509D-8BD5-4D9E-80B8-14DA2A5238F2}\InprocServer32\3.5.0.0
HKEY_CLASSES_ROOT\CLSID\{82EA3249-D48F-4F90-9B5D-B28E00DD1346}\InprocServer32\3.5.0.0
```

On 64 bit Windows versions:

```
HKEY_CLASSES_ROOT\Wow6432Node\CLSID\{F626509D-8BD5-4D9E-80B8-
14DA2A5238F2}\InprocServer32\3.5.0.0
HKEY_CLASSES_ROOT\Wow6432Node\CLSID\{82EA3249-D48F-4F90-9B5D-
B28E00DD1346}\InprocServer32\3.5.0.0
```

OPC Item Structure

The following list introduces each item in the OPC structure with a brief description. Many of the items are self-descriptive; selected items are described in more detail on page 14.

Entries in the format <...>, for example <Server>, are named after the object they represent (e.g. servers, cameras or events).

The note ^W denotes a writable item.

The note ^{SC} denotes availability only with Matrix recipients using the Smart Client, not with Matrix recipients using Matrix Monitor.

The note ^E denotes availability only with XProtect Enterprise.

The note ^C denotes availability only with XProtect Corporate.

Item name	Type	Description
<Server>	Node	Name of the server
CPU load	Integer	CPU load of server (%) ^E
CPU peek	Integer	CPU peek of server (%) ^E
Disk free	Integer	Free disk space on recording drive (GB) ^E
Memory free	Integer	Free physical memory (MB) ^E
Memory used	Integer	Total physical memory in use (MB) ^E
Virtual memory free	Integer	Free virtual memory (MB) ^E
Virtual memory used	Integer	Total virtual memory in use (MB) ^E
Signal time	Integer ^W	Time (in seconds) alert signal is shown
Log	Array<String>	List of log messages
Recordingserver	Node	Recording server status information ^E
Statustext	String	Status of the recording server ^E
Status	Integer	Value indicating service status ^E
Imageserver	Node	Image Server status information ^E
Statustext	String	Status of the Image Server ^E
Status	Integer	Value indicating service status ^E
Cameras	Node	List of connected cameras
Count	Integer	Number of cameras
Max sequence age	Integer ^W	Age (in hours) of sequences to list
Max sequence count	Integer ^W	Maximum number of sequences to list
<Camera>	Node	Name of the camera
Guid	String	Camera GUID
RecorderGuid	String	Recorder GUID where the camera is connected
Total frames	Integer	Total frame count ^E
Motion count	Integer	Number of motion detections ^E
FPS	Double	Current number of frames per second
Latest alert	String	Timestamp of latest alert

Latest alert type	String	Type of latest alert
AlertSignal	Integer ^W	Alert indicator
Sequences	Array<String>	List of sequences
Presets	Node	List of presets for the camera
Count	Integer	Number of presets available
<Preset>	Node	Name of the preset
Goto	Integer ^W	Move the camera to the preset (by setting to 1)
PTZ-position	Node	Current position of PTZ camera
Pan	Double ^W	Pan coordinate (values -1 to 1)
Tilt	Double ^W	Tilt coordinate (values -1 to 1)
Zoom	Double ^W	Zoom coordinate (values 0 to 1)
Events	Node	List of configured events
Count	Integer	Number of events
Max alert age	Integer ^W	Age (in hours) of alerts to list ^E
Max alert count	Integer ^W	Maximum number of alerts to list ^E
<Event>	Node	Name of the event
Guid	String	Event GUID
Type	String	Type of the event
Trigger	Integer ^W	Trig the event (by setting to 1)
Latest alert	String	Time stamp of latest alert
AlertSignal	Integer ^W	Alert indicator
Alerts	Array<String>	List of timestamps of latest alerts ^E
Matrix Monitors	Node	List of configured Matrix recipients
Count	Integer	Number of Matrix recipients
<Matrix Monitor>	Node	Name of Matrix recipients
Guid	String	Matrix recipient GUID
Insert camera	String ^W	GUID of camera to show
View live	Integer ^W	Go to live view (by setting to 1) ^{SC E}
Stop playback	Integer ^W	Stop playback (by setting to 1) ^{SC E}
Playback start time	String ^W	Start playback at specified time ^{SC E}
Recorders	Node	List of connected recorders ^C
Count	Integer	Number of connected recorders ^C
<Recorder>	Node	Name of the recording server ^C
Guid	String	Recorder GUID ^C
Status	Integer	Value indicating online status ^C

Detailed Descriptions of Selected Items

Many of the items in the previous list are self-descriptive; some, however, require more detailed descriptions:

<Server>/Signal time

This item specifies the time in seconds the AlertSignal items of cameras and events (see below) will stay 1 before being reset back to 0. If Signal time is set to 0 the items will not be reset. Default is 5 seconds.

<Server>/Recordingserver/Status

Tells the status of the recording server by a value:

- 1 = Stopped
- 2 = Start Pending
- 3 = Stop Pending
- 4 = Running
- 5 = Continue Pending
- 6 = Pause Pending
- 7 = Paused

<Server>/Imageserver/Status

Tells the status of the Image Server by a value:

- 1 = Stopped
- 2 = Start Pending
- 3 = Stop Pending
- 4 = Running
- 5 = Continue Pending
- 6 = Pause Pending
- 7 = Paused

<Server>/Cameras/Max sequence age

A writable item that determines how old the sequences listed for each camera should be. The value specifies the number of hours, and the default is 6 hours.

<Server>/Cameras/Max sequence count

A writable item that determines how many sequences should be listed for each camera. The default is 100 sequences.



<Server>/Cameras/<Camera>/Guid

This item is a string containing the GUID of the required camera.

Note that if a camera is removed through the surveillance system's Administrator application, it will not be removed from OPC until the OPC service is restarted; however, the GUID of a removed camera will be set to an empty string until the OPC service is restarted.

<Server>/Cameras/<Camera>/AlertSignal

Whenever an event occurs on the camera this item will be set to 1. It can then be set back to 0 by the user or it will automatically go back to 0 after the time specified in the Signal time item (see above). If another event occurs while the item is still set to 1 the value will be set again (to 1) and thus updating the update time of the item.

<Server>/Cameras/<Camera>/FPS

This is the current number of frames per second. However when getting this information from an XProtect Corporate system using multi streaming it is the value of the first stream.

<Server>/Cameras/<Camera>/Sequences

This item is a list of strings that contains the given number (see above) of sequences for the given camera within the given age (see above).

Each item in the list consists of three time stamps separated by commas. The first time stamp indicates the start time of the sequence, the second indicates the trigger time, and the third indicates the stop time.

<Server>/Cameras/<Camera>/Presets/<Preset>/Goto

Only available on PTZ cameras. Setting this value to 1 will make the camera turn to the position corresponding to the preset. The value will not change (stay 0).

<Server>/Cameras/<Camera>/PTZ-position/Pan

Only available on PTZ cameras. This value sets the current pan coordinate of the camera. Setting it will move the camera to the given position. Acceptable values range from -1 to 1.

<Server>/Cameras/<Camera>/PTZ-position/Tilt

Only available on PTZ cameras. This value sets the current tilt coordinate of the camera. Setting it will move the camera to the given position. Acceptable values range from -1 to 1.

<Server>/Cameras/<Camera>/PTZ-position/Zoom

Only available on PTZ cameras. This value sets the current zoom coordinate of the camera. Setting it will move the camera to the given position. Acceptable values range from 0 to 1.



<Server>/Events/Max alert age

A writable item that determines how old the alerts listed for each event should be. The value specifies the number of hours, and the default is 48 hours.

<Server>/Events/Max alert count

A writable item that determines how many alerts should be listed for each event. The default is 100 alerts.

<Server>/Events/<Event>/Guid

This item is a string containing the GUID of the required event.

Note that if an event is removed through the surveillance system's Administrator application, it will not be removed from OPC until the OPC service is restarted; however, the GUID of a removed event will be set to an empty string until the OPC service is restarted.

<Server>/Events/<Event>/Trigger

Setting this value to 1 will trigger the event. The value will not change (stay 0).

<Server>/Events/<Event>/Alerts

This item is a list of strings each representing the time stamp of an alert. The number of alerts is limited by the age and count configured (see above).

<Server>/Events/<Event>/AlertSignal

Whenever the event is triggered this item will be set to 1. It can then be set back to 0 by the user or it will automatically go back to 0 after the time specified in the Signal time item (see above). If the event is triggered again while the item is still set to 1 the value will be set again (to 1) and thus updating the update time of the item.

<Server>/Matrix Monitors/<Matrix Monitor>/Guid

This item is a string containing the GUID of the required Matrix recipient.

Note that if a Matrix recipient is removed through the surveillance system's Administrator application, it will not be removed from OPC until the OPC service is restarted; however, the GUID of a removed Matrix recipient will be set to an empty string until the OPC service is restarted.

<Server>/Matrix Monitors/<Matrix Monitor>/Insert camera

A writable item enabling the operator to display a camera on a Matrix recipient (i.e. a computer equipped with either a Smart Client or the dedicated Matrix Monitor software). The value to write is the GUID of the camera (as presented in the <Server>/Cameras/<Camera>/Guid item).



<Server>/Matrix Monitors/<Matrix Monitor>/View live

This item only works with Matrix recipients running the Smart Client; not with Matrix recipients running the Matrix Monitor software. Setting this value to 1 will make the Smart Client containing the given Matrix change to live mode. The value will not change (stay 0).

<Server>/Matrix Monitors/<Matrix Monitor>/Stop playback

This item only works with Matrix recipients running the Smart Client; not with Matrix recipients running the Matrix Monitor software. Setting this value to 1 will make the Smart Client containing the given Matrix stop playback in browse mode (if it is in live mode, nothing will happen). The value will not change (stay 0).

<Server>/Matrix Monitors/<Matrix Monitor>/Playback start time

This item only works with Matrix recipients running the Smart Client; not with Matrix recipients running the Matrix Monitor software. Writing a date-time string in this item will make the Smart Client containing the given Matrix go to browse mode, set the time as specified, and start playback. The value will not change (stay empty).

The format of the date-time string must be "yyyy-MM-dd hh:mm:ss" where yyyy is the year (four digits), MM the month (01-12), dd the day (01-31), hh the hour (00-23), mm the minutes (00-59), and ss the seconds (00-59).

<Server>/Recorders/<Recorder>/Status

Tells the connection status of the recording server by a value:

- 0 = Stopped or disconnected
- 1 = Running

Milestone XProtect OPC Client

The Milestone XProtect OPC Interface package includes the Milestone XProtect OPC Client.

Note: The Milestone XProtect OPC Client has a basic feature set, and must solely be used for testing the Milestone XProtect OPC Interface in your environment.

i Tip: OPC Core Components are required in order to run the Milestone XProtect OPC Client. The components are automatically installed as part of the Milestone XProtect OPC Interface installation. If using the Milestone XProtect OPC Client on a computer which does not have the Milestone XProtect OPC Interface itself installed, you should manually install the components: Copy the file *OPCCore.msi* from the folder in which you have installed the Milestone XProtect OPC Interface, then run it on the required computer.

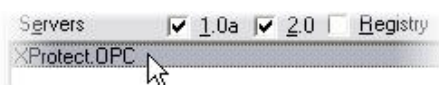
Using the Milestone XProtect OPC Client to Test the OPC Interface

To run the Milestone XProtect OPC Client, connect to the required server, and view required OPC items, do the following:

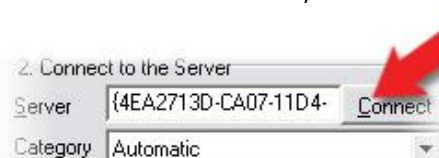
1. Go to the folder in which you have installed the Milestone XProtect OPC Interface, and run the Milestone XProtect OPC Client by double-clicking the file *MilestoneOPCClient.exe*.
2. In the Milestone XProtect OPC Client window's section 1, type or select the IP address or host name of the required server, then click the *Refresh* button.



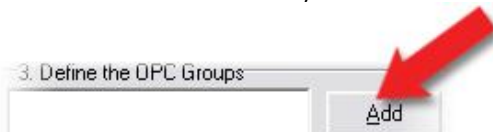
3. The server will be listed in the large *Servers* field. Now select the server in the list.



4. In the window's section 2, click the *Connect* button.



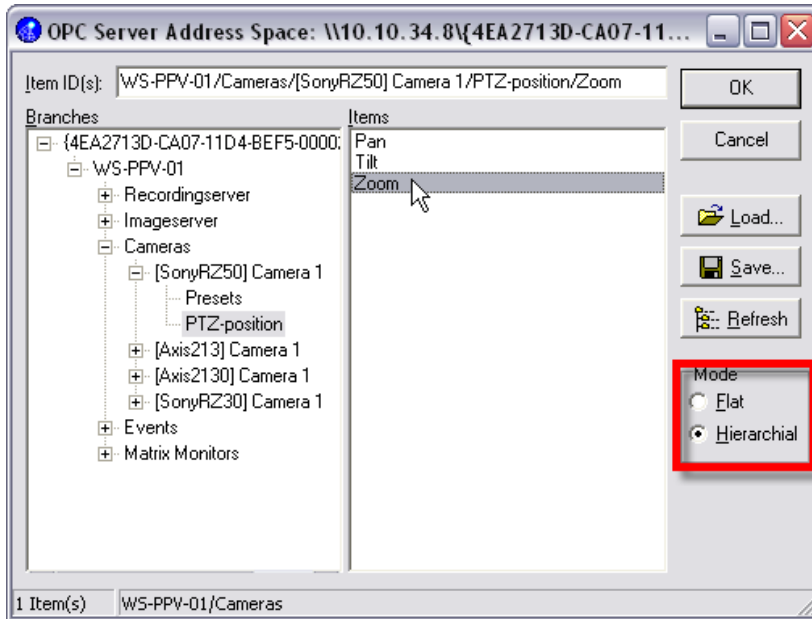
5. In the window's section 3, click the *Add* button to add an OPC group.



6. No changes are required in the window's section 4; instead, click the *Add Item(s)...* button in the window's section 5.

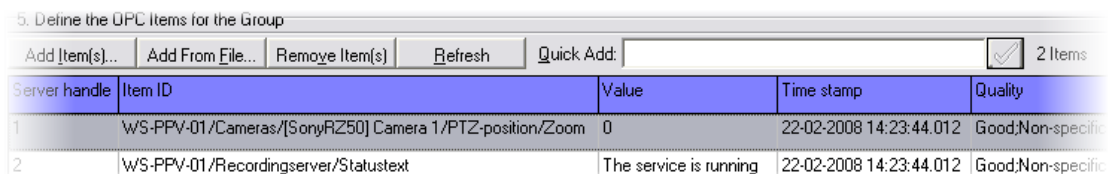


- You are now able to select required OPC items in two different modes (mode selection is highlighted in the example illustration); using *Hierarchical* mode is recommended.

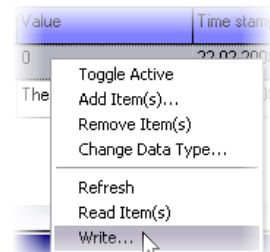


In the example, the *.../PTZ-Position/Zoom* item for a PTZ camera is selected. You can select several items in one go by pressing SHIFT or CTRL as required on your keyboard while selecting.

- When ready, click *OK*. Your selected items will be listed in the Milestone XProtect OPC Client window's section 5.



By right-clicking items in the list, you get access to a menu from which you can further control each item. For example, you can change the values of writable items by selecting *Write...*



i Tip: The Milestone XProtect OPC Client's logging feature can be useful for detailed status monitoring. To use it, select *Log* from the Milestone XProtect OPC Client window's *View* menu.

- If required, save your Milestone XProtect OPC Client configuration by selecting *Save* from the Milestone XProtect OPC Client window's *File* menu.



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