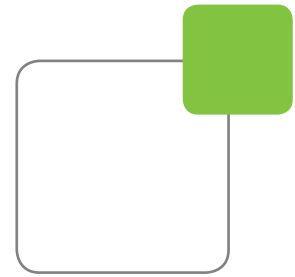


User Manual

Version 1.00 - February 2012



XNet.WebMonitor



EVS SNMP Monitoring



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Improvement Requests

Your comments will help us improve the quality of the user documentation. Do not hesitate to send improvement requests, or report any error or inaccuracy on this user manual by e-mail to doc@evs.tv.

Regional Contacts

The address and phone number of the EVS headquarters are usually mentioned in the Help > About menu in the user interface.

You will find the full list of addresses and phone numbers of local offices either at the end of this user manual (for manuals on hardware products) or at the following page on the EVS website: <http://www.evs.tv/contacts>.

User Manuals on EVS Website

The latest version of the user manual, if any, and other user manuals on EVS products can be found on the EVS download center, on the following webpage: <http://www.evs.tv/downloadcenter>.

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1. Introduction

1.1. Product Overview

XNet Web Monitor is a tool aimed at monitoring EVS products. It displays real time information and status about the EVS video servers and other EVS products, as well as past alert and warning messages.

XNet Web Monitor uses the SNMP (Simple Network Management Protocol) protocol to request and receive monitoring data from the EVS servers. This internal status data is defined in the MIB (Management Information Base) on each EVS server.

One XNet Web Monitor application can monitor several EVS servers while one EVS server may also be monitored by several XNet Web Monitor polling services applications.

XNet Web Monitor is mainly a monitoring application that cannot act on the monitored servers. Some remote actions are however possible: Multicam version upgrade, keyword file maintenance, as well as remote access to an EVS server desktop, or to an LSM Remote Panel.

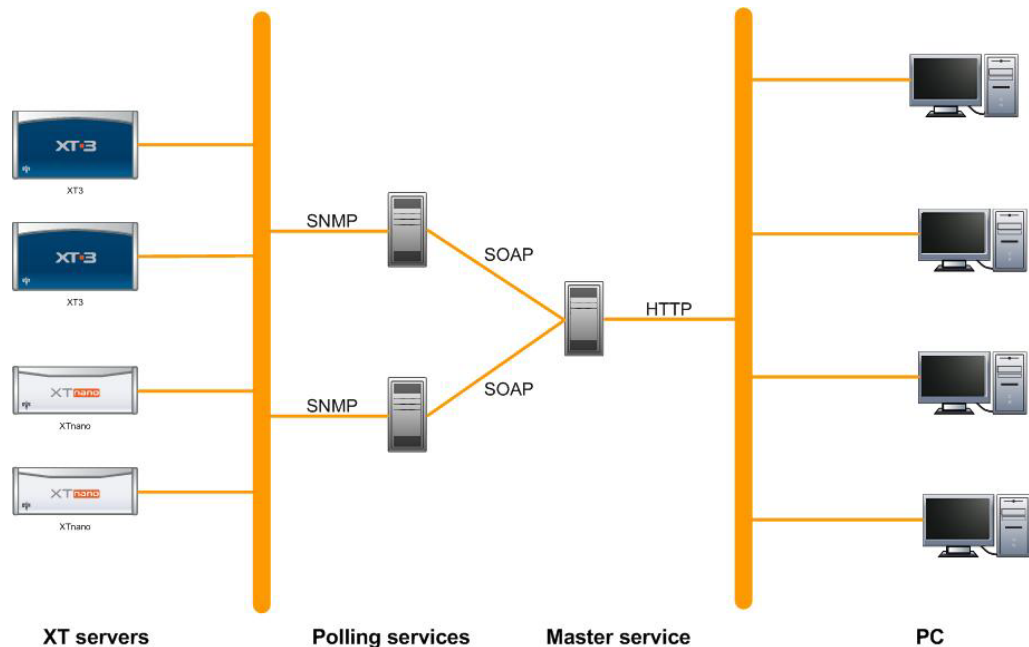
1.2. Architecture Overview

The web interface of XNet Web Monitor allows users to connect, from their PC, to the web server using the HTTP protocol, and to access the information defined in the MIB (Management Information Base) of the web server.

The web server communicates with the hosts (EVS video servers or other EVS hardware), and calls for or receives information from them in the following ways:

- The web server discovers automatically the EVS servers that can be monitored using the Bonjour protocol.
- Polling services hosted on the web server or on dedicated hardware query continuously the hosts for data to transmit. When new data is available, the host transmits the data to the polling service using the SNMP protocol.
- The polling service sends information to the web server using the SOAP protocol.
- Trap messages are sent by the host to the polling service(s) that is/are associated to the given host.

The schema below shows an overview of the underlying architecture that allows the communication flow between the hosts (or monitored devices), the polling services, the web server, and finally the the XNet Web Monitor interface.



Note

If one polling service is sufficient, the polling service can be installed on the web server that hosts the master service.

1.3. Accessing XNet Web Monitor

Supported Browsers

XNet Web Monitor being a web-based interface, you access it using a web browser.

The following browsers are supported:

- Internet Explorer 8
- Firefox
- Safari

How to Open an Instance of XNet Web Monitor

To open an instance of the XNet Web Monitor interface, simply type the URL of the XNet Web webserver in the browser.

The URL is made up as follows:

`http://<server name> or <server IP address>/XNetWebMonitor`

1.4. Standard User versus Administrator

Introduction


When you access the XNet Web Monitor interface, you are logged on by default as a standard user: The Configuration, Install and Keyword files menus are dimmed.

Logging in as an administrator allows you to perform the following actions:

- Configuring how and which monitoring and alert information will be displayed in the main window.
- Installing and/or removing Multicam versions on EVS servers.
- Uploading keyword files on EVS servers.
- Using the XT tools, symbolized by icons on the right of the menu bar.

How to Log on as an Administrator

To log on as an administrator, proceed as follows:

1. Click the login icon  in the top right corner of the Monitoring window.
2. In the Login dialog box, enter the administrator user name and password provided by EVS.
3. Click the **Login** button.

How to Log Out

Once you have finished working in administrator mode, you can log out by clicking the **Logout** icon in the top right corner of the Monitoring window.

1.5. User Interface Overview

When you access the XNet Web Monitor interface, the Monitoring window (main window) is displayed. The schema below highlights the various areas on the Monitoring window. The table below describes briefly each highlighted section:

The screenshot shows the XNet Web Monitor interface. The top menu bar (1) includes Monitoring, History, Configuration, Install, Extract log, Keyword files, and Help. The main area is divided into several sections. On the left, the Monitoring List (3) displays a table of devices and their status. On the right, the General and Audio-Video settings (4) are shown, including fields for Type, Facility Name, Serial Number, Version, State, PSU, Genlock, LTC, Local Clips, Rem. Capacity, Clip Capacity, Loop Rec., Up Time, System Date, Sync PC to TC, Sync Period, and PC free disk space. Below the Monitoring List, the Alerts section (5) shows a table of alerts with columns for Name, IP Address, Date, Description, and Ack. At the bottom, the Channels section (6) displays a table of channels with columns for Channel, Status, Config, Rem. Capacity, LTC, User TC, and Tag. The bottom right corner shows a status bar with a warning icon and the text 'Polling service BEWJARI: not responding'.

#	Window area	Description
1.	Menu bar	Gives access to the various windows and associated functionality. See "Menu Bar" on page 5.
2.	Login and Display menus	Menus and commands that allow accessing the GUI interface in administrator mode and/or changing the display mode. See "Overview on the Display Settings Window" on page 1 and See "Standard User versus Administrator" on page 3.
3.	Monitoring List area	Display of hosts organized in groups, as defined in the Configuration menu, Monitoring Configuration tab. See "Description of the Monitoring List" on page 40.

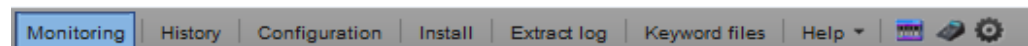
#	Window area	Description
4.	Server Details area	Detailed information on the EVS server or on the EVS hardware selected in the Monitoring List. See "Overview on the Server Details Area" on page 44
5.	Alert Information area	Area that allows users to display and acknowledge the alerts. See "Description of Alerts Area" on page 54
6.	Status bar	Status information about the polling service activity, and last refresh time. See "Status Bar" on page 6.

1.6. Menu Bar

General Description

The menu bar gives access to the various windows and associated functionality. You will find below a short description of the menu items.

Some menu items are only available when the user is logged on as an administrator. This is the case for the Configuration, Install and Keyword files menus, as well as for the icons on the right hand side.



Area Description

The following table presents the items on the menu bar:

Menu item	Description
Monitoring window	Main window, that allows you to monitor the EVS server information, warnings and alerts. See "Overview on the Monitoring Window" on page 38.
History window	Allows you to view archived information, warnings and alerts stored in the XNet Web Monitor database. See "Event History" on page 58.
Configuration window	Allows you to configure the display of monitoring and alert information, and the polling services. Only available for users logged as administrator. See "Configuration" on page 8.
Install window	Allows you to install or remove Multicam versions on EVS servers. Only available for users logged as administrator. See "Multicam Upgrades" on page 60

Menu item	Description
Extract logs window	Allows the extraction of server logs. See "Description of the Extract Log Window" on page 69.
Keyword files	Allows the distribution of keyword files to EVS servers. Only available for users logged as administrator. See "Description of the Keyword Files Window" on page 68.
Icons	Allows accessing tools for remote control. See "Remote Access to an EVS Server" on page 65.

1.7. Status Bar


General Description

The status bar provides status information about the polling service activity, and specifies the last refresh time:



Area Description

The following table describes the items on the status bar, from left to right:

Item	Description
Last Refresh on ...	Last refresh date and time of the SNMP information.
Refresh button 	Button to force a refresh of the SNMP information in the application.
SNMP protocol activity	Information on the activity of the SNMP process, for example: <code>Idle</code> or <code>XNet.mvo/GetHostsGrid</code>

Item	Description
Polling status	<p>Status of the SNMP polling. The following error messages can be displayed:</p> <ul style="list-style-type: none">• At least one polling service must be managed: In this case, you should define a polling service as managed in the Configuration menu > Monitoring Configuration tab > Polling Services pane.• Polling service <NAME> not responding: This message is displayed when the SNMP polling service is not responding.• Polling service <NAME> not started: In this case, you should start the polling service in the Configuration menu > Monitoring Configuration tab > Polling Services pane.• Polling service <NAME> port 162 busy: In this case, there is a problem with the port 162. Check that no other service on the hardware hosting the polling service is using this port.• Polling service <NAME> trap config not OK: In this case, there is a problem with the trap registration in the Configuration menu > Trap Configuration tab. Make sure the IP of the polling service is properly registered on all hosts. See "Managing Trap Targets" on page 26.

2. Configuration

2.1. Display Profiles and Settings

2.1.1. General Display Settings

Introduction

You can modify some general display settings in the Settings window, Display tab, that you can open clicking the **Settings** icon in the upper right corner of the Monitoring window.

List of Settings

The editable settings are the following:

Name	Description
Refresh period	Time interval (in seconds) for refreshing the information from the web server.
Temperature unit	Unit of temperature used in the application. The possible values are 'Celsius' or 'Fahrenheit'.

2.1.2. Using Display Profiles

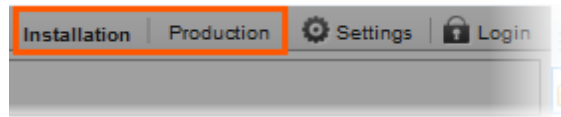
Introduction

Depending on the context of use, users will request different monitoring information to be displayed in the Monitoring list of the Monitoring window. For this reason, two display profiles are available based on whether the EVS servers are monitored in a context of installation or operation. The display profiles are therefore named 'Installation' and 'Operation' by default.

You can modify the definition of both display profiles, in other words the way the columns are displayed in the Monitoring list when the profile is enabled. See "Customizing Display Profiles" on page 9.

How to Enable a Display Profile

To enable a display profile, simply click the **Installation** or **Operation** link in the upper right of the Monitoring window:



When a display profile is selected, the columns displayed in the Monitoring list of the Monitoring window, and the way they are ordered, are adapted accordingly.

2.1.3. Customizing Display Profiles

How to Access the Display Profile Definition







You can customize the display profiles, which define how the columns are organized in the Monitoring List area of the Monitoring window.

To access the display profile definition, proceed as follows:

1. Click the **Settings** icon on the upper right corner of the Monitoring window. The **Display Settings** window opens.
2. Select the Profile 1 (Installation profile) or Profile 2 (Production profile) tab depending on the profile you want to modify.

Editing Actions on Display Profile Definition

All actions described below need to be validated by clicking the **Apply** button:

In order to ...	Proceed as follows ...
Adding a column to the profile	<ol style="list-style-type: none"> 1. Select the requested column in the list of available columns (left). 2. Click the  icon. The column is added to the list of selected columns (right).
Removing a column from the profile	<ol style="list-style-type: none"> 1. Select the requested column in the list of selected columns (right). 2. Click the  icon. The column is removed from the list of selected columns (right) and is added to the list of available columns (left).
Changing the position of columns in the profile	<ol style="list-style-type: none"> 1. Select the requested column in the list of selected columns (right) 2. Do one of the following: <ol style="list-style-type: none"> a. Click the  or  icon to move the column respectively one position up or down in the list. b. Click  or  icon to move the column respectively to the beginning or end of the list. The column is at the desired position in the list.

In order to ...	Proceed as follows ...
Reset the column list and order for the profile	Click the Reset columns button at the top of the tab. The list of selected columns is reset to the default list, with the default column order.
Change the name of the display profile	<ol style="list-style-type: none"> 1. Click in the Profile name field at the top of the tab. 2. Type the requested name for the profile.

2.2. Monitoring Configuration

2.2.1. Overview of the Monitoring Configuration Tab

Introduction

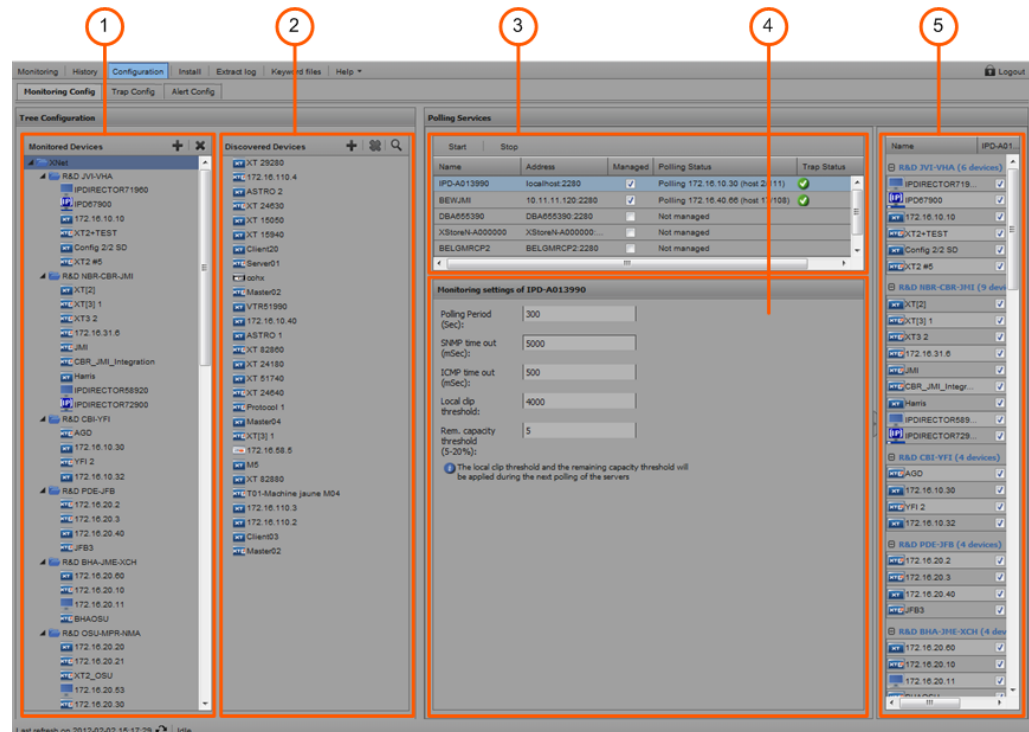
You can access the Monitoring Configuration window by clicking the Configuration menu, then the Monitoring Configuration tab.

The Monitoring Configuration window is organized in two main panes:

- **Tree Configuration** on the left hand side.
It allows administrators to configure the tree structure of monitored devices that will be displayed in the Monitoring window, and used in other windows.
- **Polling Services** on the right hand side.
It allows administrators to configure and manage the polling services. The polling services query continuously the individual monitored devices via SNMP and get information from the devices.

Illustration

Within the above-mentioned two main panes, the Monitoring Configuration window contains five areas highlighted on the screenshot below:



Area Description

The table below describes the various areas of the Monitoring Configuration window highlighted on the illustration above, and briefly explains what they are used for:

Part	Name	Description
	Tree Configuration	See "Description of the Tree Configuration Pane" on page 12.
1.	Monitored Devices area	It allows administrators to structure the list of monitored devices (hosts) in a tree view organized in server groups. The Monitoring List on the Monitoring window reflects this tree view structure. See "Organizing Monitored Devices" on page 17
2.	Discovered Devices area	It lists the hosts the system has discovered on the network. The hosts are not directly available in the application: you need to launch a global discovery process, or specify an IP address or a range of IP addresses that will be checked for identifying hosts. See "Discovering New Devices" on page 15
	Polling Services	See "Description of the Polling Services Pane" on page 18

Part	Name	Description
3.	Polling Services List area	It lists the existing polling services, and allows administrators to enable a polling service, as well as to start or stop it. See "Configuring and Managing a Polling Service" on page 22
4.	Monitoring Settings area	It allows administrators to define the monitoring settings relevant for polling services, and for alerts using thresholds. See "Description of the Polling Services Pane" on page 18.
5.	Polling Service Configuration area	It allows administrators to specify which monitored devices each enabled polling service will manage. See "Configuring and Managing a Polling Service" on page 22.

2.2.2. Setting up Monitored Devices

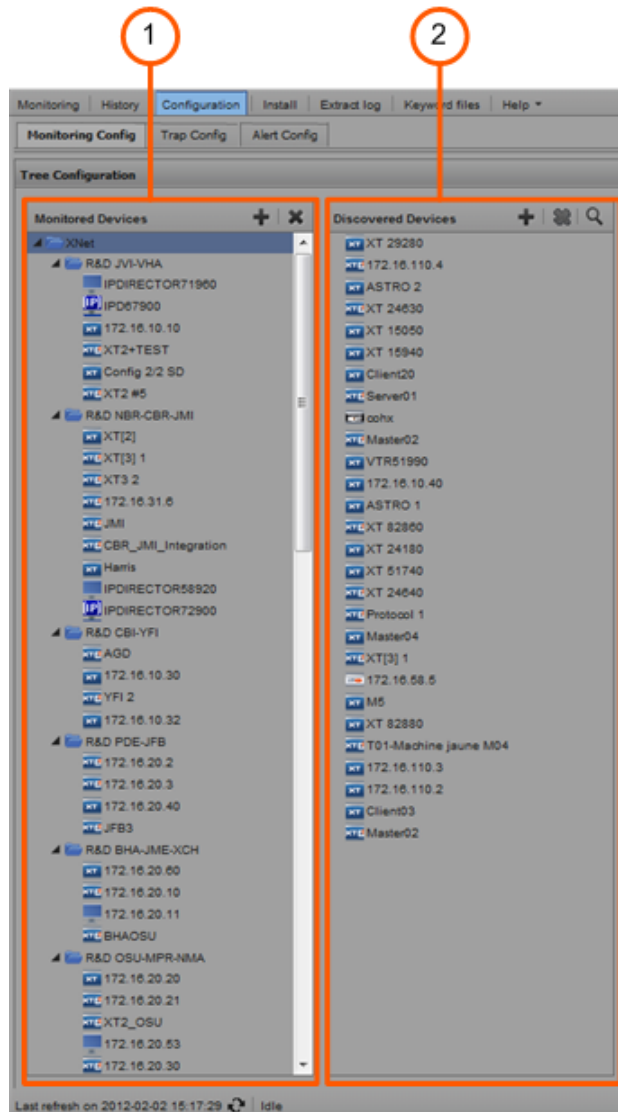
Description of the Tree Configuration Pane

Overview

The Tree Configuration pane, in the Monitoring Config tab of the Configuration menu, consists of two areas:

- Monitored Devices (1) where you organize the hosts you want to monitor.
- Discovered Devices (2) where you identify, and manage the list of hosts discovered on the network.

The following illustration shows the Tree Configuration pane, with the two main areas, and the section below describes each area:

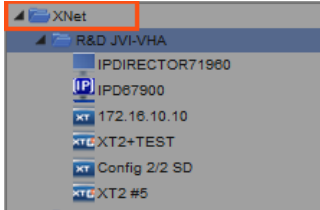
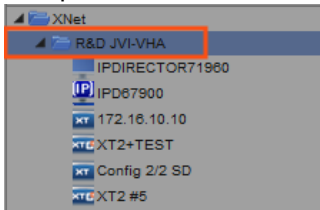
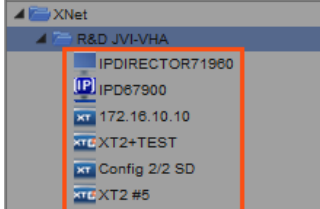




Area Description

Monitored Devices

The table below presents the elements of the Monitored Devices area.




For more information on organizing the tree view, see section "Organizing Monitored Devices" on page 17.

GUI Element	Description
XNet tree root 	<p>This is always the root of the tree structure. You do not have to create it.</p>
Group node 	<p>Groups that include one or more hosts. You cannot add a host directly below the XNet root. You first need to define a group.</p>
Monitored devices 	<p>Hosts that have been added to a group. To add a host to a group, select a host from the list of discovered devices, and drag it to the requested group in the Monitored Devices area.</p>
Add button 	<p>Button used to add a group to the tree structure</p>
Remove button 	<p>Button used to remove a selected group from the tree structure</p>

Discovered Devices

The table below presents the elements of the Discovered Devices area.

For more information on discovering new devices, see section "Discovering New Devices" on page 15.

GUI Element	Description
Discovered device	Each element of the list in the Discovered Devices area is a host (EVS server or PC) that has been discovered and is not monitored. It is highly recommended to remove discovered devices that are not monitored to prevent a reduction of the polling performances.
Add button 	Button used to open a dialog box that allows you to discover new hosts using an individual IP address or a range of IP addresses.
Remove button 	Button used to remove a selected host from the list of discovered devices.
Magnifier button 	Button used to launch the discovery process.

Discovering New Devices

Introduction

The first task you should fulfill when you start working with XNet Web Monitor consists of identifying the hosts (EVS servers and other EVS hardware) you want to monitor. This is the first stage for defining the hosts you will monitor.

You will discover new hosts in the Configuration menu > Monitoring Config tab > Tree Configuration pane > Discovered Devices area.

Once the hosts are discovered, you can add them to the tree of monitored devices, and organize the tree structure. For more information on this step, see section "Organizing Monitored Devices" on page 17.

Host Discovery Methods

Three methods can be used to discover new hosts:

- [Discovering a individual host using its IP address](#)
- [Discovering the hosts that belong to a range of IP Addresses](#)
- [Discovering automatically all hosts available on the network](#)




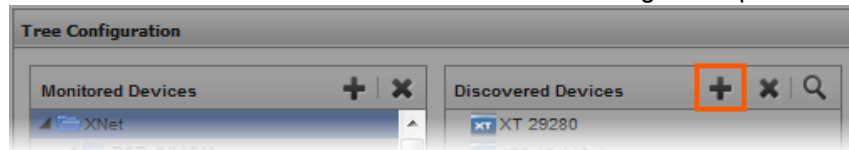
Warning

It is highly recommended to remove discovered devices that are not monitored to prevent a reduction of the polling service performances.

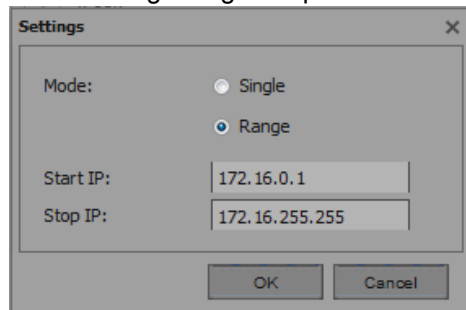
How to Discover New Hosts Using IP Addresses

To discover new hosts using their IP address or a range of IP addresses, proceed as follows:

1. In the Monitoring Configuration window, right-click the  sign on the upper right corner of the Discovered Devices area in the Tree Configuration pane:




The following dialog box opens:



2. You can discover new devices in one of the following ways:
 - Discover a single host by selecting the **Single** mode and typing the IP address of the host you want to identify in the **Start IP** field.
 - Discover the hosts in a range of IP addresses, by selecting the **Range** mode and typing the first IP address and the last IP address of the range XNet Web Monitor has to search for.
3. Click **OK**.

The hosts that are discovered are added to the list of discovered devices in the Discovered Devices area.


How to Automatically Discover Hosts

To launch an automatic discovery of all EVS servers present on the network, click the **magnifier** button  on the top right corner of the Discovered Devices area.

The automatic discovery feature can be used to discover EVS servers, not other EVS hardware.

How to Remove Discovered Hosts

To remove one or more discovered devices, proceed as follows:

1. Select the host(s) you want to remove from the list of discovered devices using one of the following method:
 - Click on a host for a single selection
 - CTRL + click for a multiple non-contiguous selection
 - CAPS LOCK + SHIFT + click for a multiple contiguous selection
2. Click the **Remove** button  on the top right of the Discovered Devices area.

Organizing Monitored Devices

Process Overview




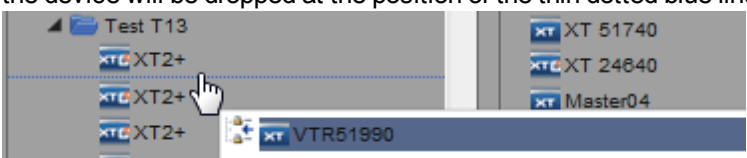
Before you can organize monitored devices in the tree view, you need to have discovered the hosts you want to monitor. See "Discovering New Devices" on page 15.

Organizing monitored devices consists of the following main steps:

1. Creating empty groups below the XNet root in the Monitored Devices area.
2. Adding discovered devices to the created groups by dragging and dropping the requested devices from the Discovered Devices area to the requested group in the Monitored Devices area.

Possible Actions

The table below presents the possible actions in the Monitored Devices area:

In order to ...	Proceed as follows ...
Create a new group	Click the  button in the upper right corner of the Monitored Devices area and type the name for the new group.
Rename an existing group	Click the group label in the tree and type a new name for the group.
Move an existing group	<p>Select the group icon of a group node, and drag it to the requested position in the tree.</p> <p>During the drag operation, the requested position is symbolized by a thin dotted blue line.</p> <p>You cannot insert a group into another group: If you drop a group into another group, the moved group will be positioned at the end of the server group where it was dropped.</p>
Remove a group	<p>Select the group label and click the  button in the upper right corner of the Monitored Devices area.</p> <p>If the group is not empty, you will be prompted to confirm the deletion.</p>
Add a discovered device to a group	<p>Drag and drop the selected discovered device into the requested group defined in the Monitored Devices area.</p> <p>If you drag the device into the group name as illustrated below, the device will be dropped at the end of the group:</p>  <p>If you drag the device between group elements as illustrated below, the device will be dropped at the position of the thin dotted blue line.</p> 

2.2.3. Managing Polling Services

Description of the Polling Services Pane

Overview

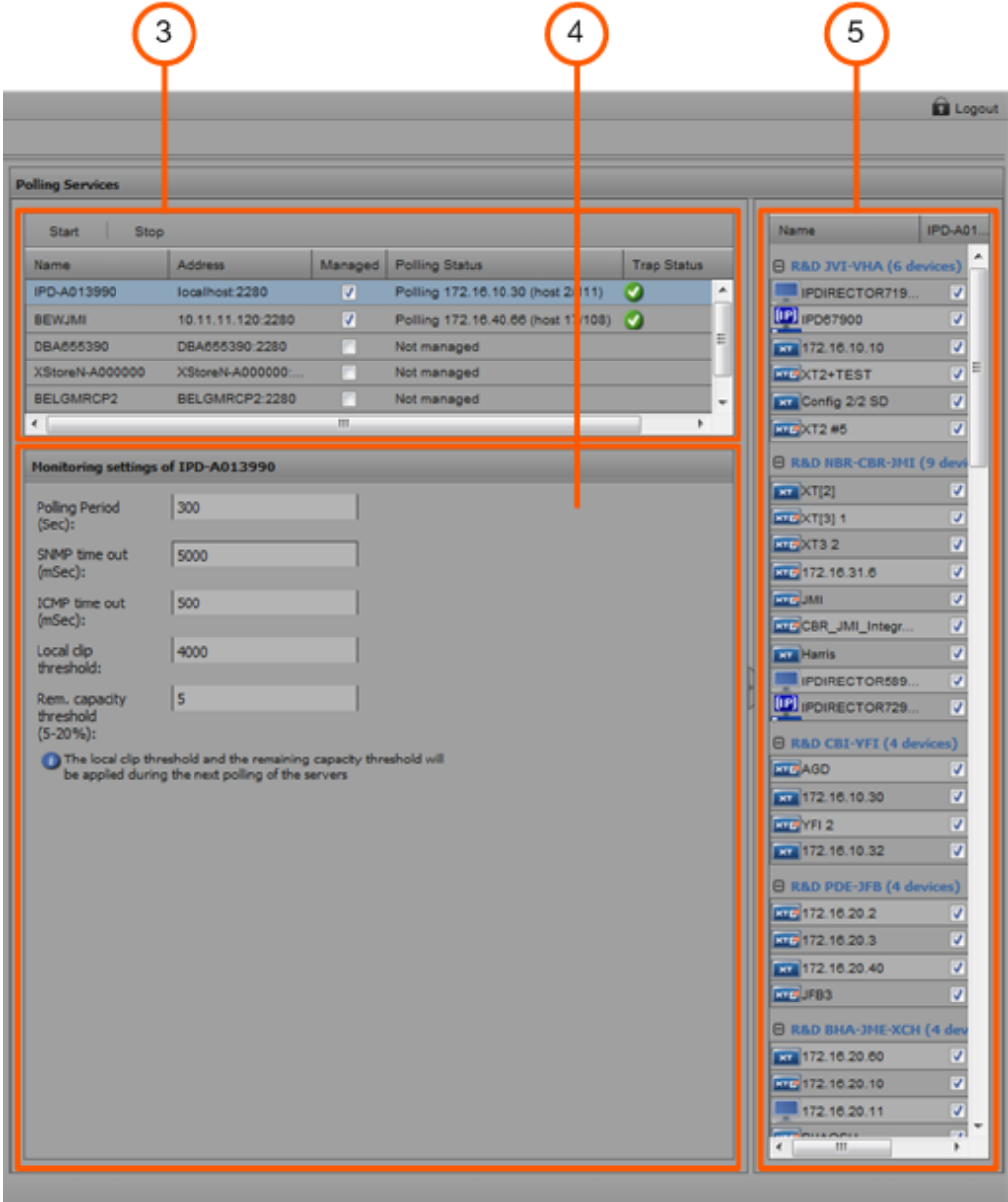
The polling services allow the transfer of information from the EVS servers and other EVS hardware to the web server.

They continuously query the individual devices using the SNMP protocol, and get updated information from the devices when available.

The Polling Services pane, in the Monitoring Config tab of the Configuration menu, consists of three areas:

- Polling Services List (3) which lists the available polling services, and allows administrators to enable the polling services, start or stop them.
- Monitoring Settings (4) which allow administrators to define settings for polling services.
- Polling Service Configuration (5) which allows administrators to define which devices the managed polling services will monitor.

The following illustration shows the Polling Services pane, with the three main areas:





Area Description

Polling Services List

Start		Stop		
Name	Address	Managed	Polling Status	Trap Status
IPD-A013990	localhost:2280	<input checked="" type="checkbox"/>	Polling 172.16.20.53 (host 73/104)	<input checked="" type="checkbox"/>
BEWJMI	10.11.11.120:2280	<input checked="" type="checkbox"/>	Polling 172.16.20.20 (host 95/101)	<input checked="" type="checkbox"/>
DBA655390	172.16.56.22:2280	<input type="checkbox"/>	Not managed	
XStoreN-A000000	172.16.56.90:2280	<input type="checkbox"/>	Not managed	
DELL_LP	DELL_LP:2280	<input type="checkbox"/>	Not managed	

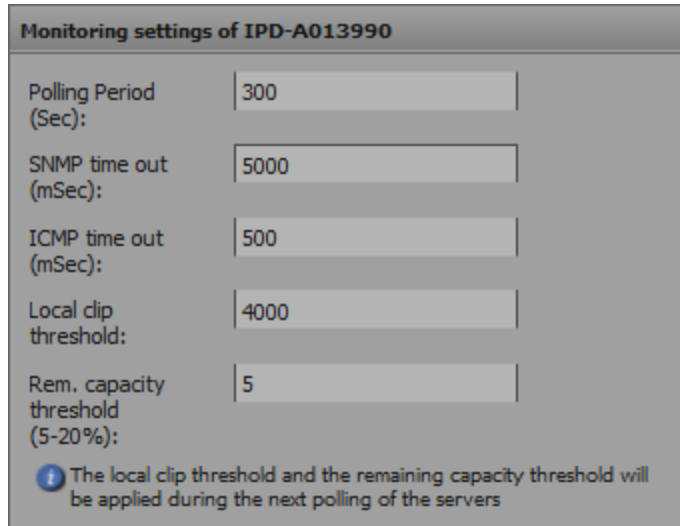
The table below presents the elements of the Polling Services List.

For more information on managing and starting polling services, see section "Configuring and Managing a Polling Service" on page 22.

GUI Element	Description
Start button	Button used to restart all managed polling services that have been stopped.
Stop button	Button used to stop all polling services enabled (set as 'managed') in the list of polling services.
Name	Windows name of the hardware on which the polling service is installed.
Address	<p>Name or IP address of the computer on which polling service is installed, and communication port (2280):</p> <ul style="list-style-type: none"> • localhost: 2280: Value specified when the polling service is installed on the web server. • <xxx.xxx.xxx.xxx> : 2280: The IP address is specified when the polling service is distant, and is or has already been managed. • <Name> : 2280: The Windows name of the hardware is specified when the polling service is distant, and is not and has never been managed.
Managed	<p>Check box to enable the polling service.</p> <p>When the polling service is enabled (Managed check box selected), it automatically starts querying the devices assigned to it in the Polling Service Configuration area, and managing the SNMP information.</p>
Polling Status	<p>Operational status of the polling service. The following statuses can be displayed:</p> <ul style="list-style-type: none"> • Not Managed The Polling service is not active as the Managed check box for this polling service is not selected. • Polling xxx.xxx.xxx.xxx (host YY/ZZ) IP address of the host that is being polled. The information between brackets specifies the position of the host in the total number of devices monitored by the polling service. • Waiting <XXX>/<YYY> sec It a counter (in seconds) before the next polling period starts for this polling service.
Trap Status	<p>Status that indicates whether the trap messages are correctly received. The following statuses can be displayed:</p> <ul style="list-style-type: none"> •  : The trap messages are correctly received. •  : The trap messages are not correctly transmitted. • <Nothing>: The status of the trap message transmission is not known.

Monitoring Settings

The monitoring settings of the polling service selected in the Polling Services list are displayed below the list.



Monitoring settings of IPD-A013990

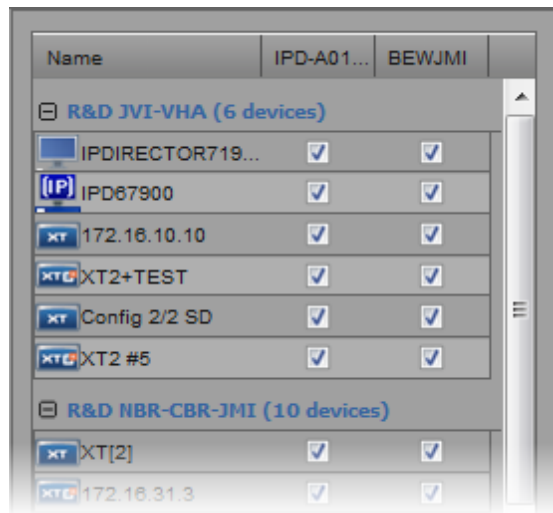
Polling Period (Sec):	300
SNMP time out (mSec):	5000
ICMP time out (mSec):	500
Local clip threshold:	4000
Rem. capacity threshold (5-20%):	5

The local clip threshold and the remaining capacity threshold will be applied during the next polling of the servers

The table below presents the elements of the Monitoring Settings.

GUI Element	Description
Polling Period	Time period in seconds during which the polling service will wait between two series of queries to all hosts. The default value is 300 seconds.
SNMP time out	Time period in milliseconds after which the application will generate an error message if the SNMP communication between the EVS servers and the polling services cannot be established. The default value is 5000 milliseconds.
ICMP time out	Time period in milliseconds after which the application will generate an error message if the internet communication between the master service and the clients cannot be established. The default value is 500 milliseconds.
Local clip threshold	Number of clips stored on the EVS server above which the application will generate an error message. The default value is 4000 clips.
Rem. capacity threshold	Remaining disk capacity on an EVS server (defined in percents) below which the application will generate an error message. The default value is 5%.

Polling Services Configuration



In the Polling Services Configuration area, you will find:

- The host tree, with all the groups and monitored devices that are defined in the Monitored Devices area.
- A column is displayed for each polling service set as 'managed' in the Polling Services list.

If you want a host to be managed by a polling services, tick the check box of the host in the column of the requested polling service.

For more information on defining which polling service will manage a device, see section "Configuring and Managing a Polling Service" on page 22.

Configuring and Managing a Polling Service

Introduction

This topic explains the steps to be performed from the XNet Web Monitor interface to make sure that a polling service is properly configured and operational.

All steps are performed in the Configuration menu > Monitoring Config tab> Polling Services pane. See "Discovering New Devices" on page 15 for more information on the various areas of this pane mentioned below.

Prerequisite(s)

To be able to configure and run a polling service, you first need to define the tree of monitored devices in the Configuration menu > Monitoring Config. tab > Tree Configuration pane > Monitored Devices area.

Procedure


To configure and run a polling service, proceed as follows:

1. In the Polling Services List, select the row corresponding to the polling service you want to configure.
The Monitoring Settings for the selected polling service are displayed in the Monitoring Settings area below the Polling Services List.
2. In the Monitoring Settings area, modify the monitoring settings for the selected polling service, if requested.

Warning

If you modify the threshold values and the following message appears in the



Polling Services List area  **Invalid threshold configuration**, it means that two or more polling services manage an EVS server with different threshold parameters. As this situation leads to inconsistent alerts, it is highly recommended to set the same threshold values for all polling services that manage the same server.

3. In the Polling Services List, tick the **Managed** check box of the polling service you want to configure and run.

Start Stop			
Name	Address	Managed	Polling Status
IPD-A013990	localhost:2280	<input type="checkbox"/>	Not managed
BEWJMI	10.11.11.120:2280	<input checked="" type="checkbox"/>	Polling 10.11.12.255 (host 98/10)
XStoreN-A000000	172.16.56.90:2280	<input type="checkbox"/>	Not managed
DELL_LP	DELL_LP:2280	<input type="checkbox"/>	Not managed
DBA655390	DBA655390:2280	<input type="checkbox"/>	Not managed

4. In the Polling Services Configuration area, associate the devices to be monitored to the polling service.
To do this, tick the check boxes in the intersection between the row of the devices to be monitored and the polling service that should manage this device. Repeat this operation for all devices to be monitored by the given polling service.

Name	IPD-A01...	BEWJMI
R&D JVI-VHA (7 devices)		
IPDIRECTOR719...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
IPD67900	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
172.16.10.10	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
XT2+TEST	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Config 2/2 SD	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
XT2 #5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
172.16.10.40	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
R&D NBR-CBR-JMI (10 devices)		
XT[2]	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
172.16.10.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

- In the Polling Services List, check that the polling status regularly displays 'Polling ...', which means the polling service is started. Otherwise, click the **Start** button above the Polling Services List.

2.3. Trap Configuration

2.3.1. Description of the Trap Configuration Tab

Overview

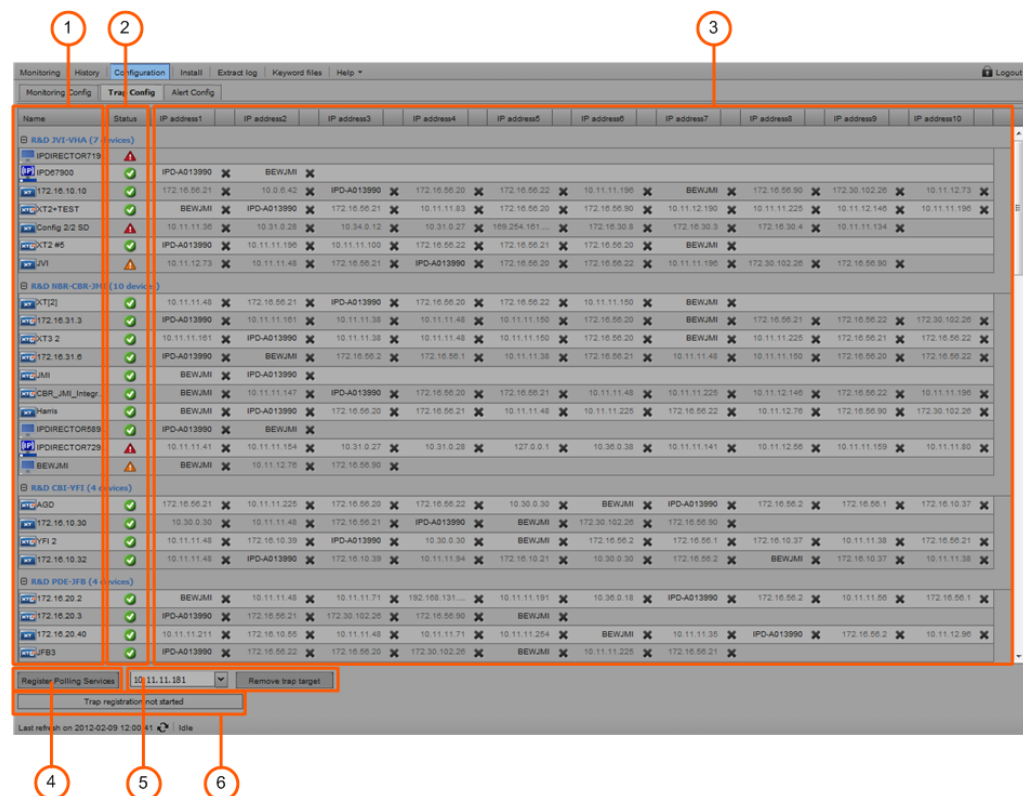
You can access the Trap Configuration window by clicking the Configuration menu, and the Trap Configuration tab.

The Trap Configuration window displays the host tree, and for each host, the list of IP addresses of the computers registered to the host to receive its trap messages. Such a computer is called a trap target.

The trap targets can be computers that host the XNet Monitor application or a polling service of XNet Web Monitor.





Illustration

The Trap Configuration window contains six areas or buttons highlighted on the screenshot below:



Area Description

The table below describes the various parts of the Trap Configuration window:

Part	Name	Description
1.	Host tree	List of the monitored devices to which polling services (of XNet Web Monitor) or XNet Monitor applications can be registered.
2.	Trap Status icon	<p>Global trap status of the polling services registered for the corresponding host:</p> <p> when all polling services managing the host (see section "Polling Services Configuration" on page 22) are registered as trap targets to the host.</p> <p> when one (or more) polling services managing the host is/are not registered as trap target(s) to the host.</p> <p> when none of the polling services managing the host are registered as trap targets to the host.</p> <p>This status icon does not take into account trap targets for the XNet Monitor application.</p>
3.	IP Addresses	<p>List of all IP addresses of computers (max. 10 per host) registered as trap targets to the corresponding host.</p> <ul style="list-style-type: none"> If the trap target is a registered polling service, its name will be displayed in black. If the trap target is a computer hosting XNet Monitor, the registered IP Address will be displayed in gray. <p>The  button on the right of the trap target allows removing this trap target for the given device.</p>
4.	Register Polling Services button	Button that allows administrators to register polling services as trap targets to all the hosts the active polling services manage.
5.	Remove Trap Target button	Button that allows administrators to remove, in one go, a trap target from all hosts it is registered to. This button is used in combination with the drop-down list on the left hand side, which allows the selection of the trap target to be removed.
6.	Trap Registration status bar	Status bar showing the progress of the trap registration or unregistration, when the Register Polling Services button or Remove Trap Targets button is used.

2.3.2. Managing Trap Targets

Concept of Trap Target

A trap target is the IP address of a computer registered to a host to receive SNMP trap messages. This can be a machine hosting XNet Monitor or a polling service of XNet Web Monitor.

- The trap target for a machine hosting a polling service is defined by the name of the polling service (itself associated to an IP address).
- The trap target for a computer hosting XNet Monitor is identified by an IP address.

The trap targets are managed in the Configuration menu > Trap Config tab.

Registering Polling Services as Trap Targets

Introduction

From XNet Web Monitor, you can only register polling services as trap targets. You cannot register computers hosting the XNet Monitor application.

You will typically register the polling services as trap targets directly after you have configured the polling services in the Monitoring Configuration tab. See "Configuring and Managing a Polling Service" on page 22.

Procedure

To register the managed polling service as trap targets, simply press the **Register Polling Services** button in the Trap Configuration tab. The Trap Registration status bar shows the progress of the registration process.

The polling service is automatically registered to all hosts it manages where at least one IP address is available.

Note



If all IP addresses are used for a given host, the trap status icon for this host will remain orange or red, indicating that at least a polling service managing the host is not registered. In this case, remove a trap target, and repeat the automatic registration process.


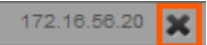
Removing a Trap Target

Introduction

You can remove a trap target in two ways:

- Removing a trap target associated to a given host
- Removing a trap target from all hosts it is associated to

Removing the Trap Target for a Given Host

To remove a trap target for a given device, click the  button next to the trap target name or IP address  in the row of the requested host.

Removing the Trap Target for all Associated Hosts

To remove a trap target from all hosts it is associated to, proceed as follows:

1. At the bottom of the Trap Configuration tab, select the trap target to remove in the Trap Target drop-down list.
2. Click the **Remove Trap Target** button on the right of the drop-down list.

The selected trap target is removed from all hosts to which was registered in the list.

2.4. Alert Configuration

2.4.1. Description of the Alert Configuration Tab

Overview

You can access the Alert Configuration window by clicking the Configuration menu, and the Alert Configuration tab.

The Alert Configuration tab displays the host tree. Next to each host, check boxes for each alert allow disabling the display of the alert in the Monitoring tab by ticking the corresponding check box.



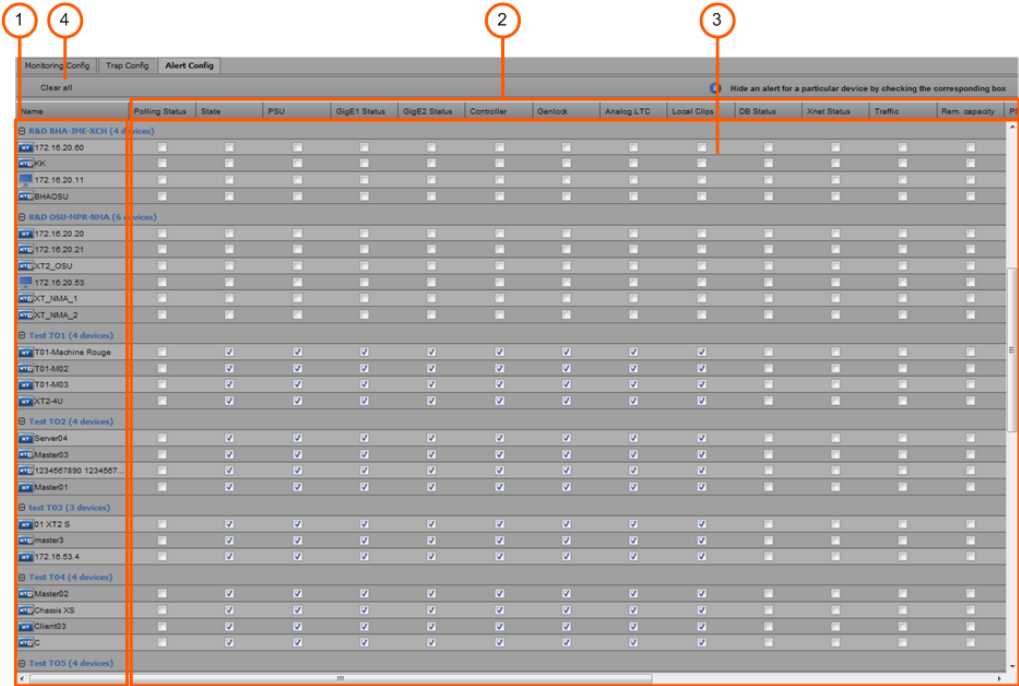
Warning

Beware that **unselected** check boxes mean the corresponding alerts are **enabled**.

Disabling an alert can be useful, for example, for alert messages on the GigE2 status when the GigE2 connector is not used, hence not cabled. Disabling the alert on the GigE2 Status in this case would prevent the EVS server status to be red for an alert message that is not relevant.

Illustration

The Alert Configuration tab contains the main areas highlighted on the screenshot below:



Area Description

The table below describes the various areas in the Alert Configuration tab:

Part	Name	Description
1.	Host tree	List of the monitored devices, for which alerts can be generated.
2.	List of possible alerts	List of fields (from the Server Details area) for which an alert can be generated.
3.	Check boxes	<p>Check boxes that allow enabling or disabling the generation of a given alert for a given host:</p> <p>If the check box is not selected (default), the alert is active. It means:</p> <ul style="list-style-type: none"> The alert will appear in the category 'Alert' (active alerts) in the Alert pane. The corresponding error message will be displayed in red or orange in the Monitoring List (if relevant) or Server Details areas. <p>If the check box is selected, the alert is NOT active. It means:</p> <ul style="list-style-type: none"> The alert will not appear in the category 'Alert' (active alerts) in the Alert pane. It will however appear when you select the 'Hidden' category in the Alert pane. The corresponding error message will be displayed in a thick gray font in the Monitoring List (if relevant) or Server Details areas.
4.	Clear All button	Button that allows deselecting all the check boxes at once, this way reactivating all alert messages on all hosts.

2.4.2. List of Possible Alerts

Introduction

The section describes the fields for which an alert can be generated and the associated default message(s) (normal status) and alert/error messages.

Working Principle

When an error is generated for a field, it is displayed in the Monitoring window:

- as an alert** in the Alert pane if the given field is not selected in the Alert Configuration window.
The alert must be acknowledged by an administrator user to be removed from the list of active alerts. It is then sent to the list of acknowledge alerts.
- as an error message** in the Server Details pane, and possibly in the Monitoring List pane (if the related field is displayed).
When the SNMP information is sent back and when the situation is back to normal or when the alert is acknowledged, the field status is updated accordingly, and the error is replaced by the normal status.

Polling Status

It specifies the status of the polling service.

It indicates:

- whether the polling service is running correctly
- when the polling service last sent a query to the server (time interval in hh:mm:ss from current time)

Possible Values

Message	Explanation	Status Type
OK (00:03:00)	The polling service is working correctly, and the SNMP data was last sent 3 minutes ago.	Info
ICMP timeout - 00:03:00	An ICMP (Internet Control Message Protocol) timeout was generated: the information was not sent in the requested time interval from the Master service to the Clients at the last attempt for information transfer, 3 minutes ago.	Error
SNMP timeout - 00:03:00	An SNMP timeout was generated: the information was not sent in the requested time interval from the EVS servers to the polling services at the last attempt for information transfer, 3 minutes ago.	Error
SNMP error - 00:03:00	An SNMP error was generated: there was an error at the last information transfer from the EVS servers to the polling services, 3 minutes ago.	Error
Not managed	No polling service is associated to the server.	Error

State

It indicates the functional status of the EVS server or other EVS hardware.

The possible statuses are 'Running', 'Initializing', 'In Maintenance' or 'Halted'.

Possible Values

Message	Explanation	Status Type
Running	The EVS server is running a given configuration.	Info
Initializing	The EVS server is initializing (in the boot sequence).	Error
Maintenance	The EVS server is in the Multicam Setup window, hence it is not running a given configuration yet.	Error
Halted	The EVS server is turned off.	Error

PSU

It specifies the status of the power supply units.

Possible Values

Message	Explanation	Status Type
OK (1)	Only one PSU is installed on the server and is working fine	Info
OK (2)	Two PSUs are installed and are working fine	Info
! PSU 1	The first PSU is down.	Error
! PSU 2	The second PSU is down.	Error

GigE1/2 Status

It specifies the operational status of the first (GigE 1) or second (GigE 2) Gigabit Ethernet interface connector.

Possible Values

Message	Explanation	Status Type
Up	The GigE interface is running well.	Info
Down	The GigE interface is not working.	Error
Not present	No GigE card is installed.	Error

Controller

It specifies the connection status of a given controller enabled on an EVS server.

Depending on the pane where the message is displayed, it is displayed in slightly different ways.

Possible Values

Message	Explanation	Status Type
OK	All defined controllers are connected, which means up and running.	Info (in Monitoring List)
Connected	The corresponding controller is up and running.	Info (in Server Details)
Defined	The corresponding controller is defined in the configuration but is not used	Info (in Server Details)
Disconnected	The corresponding defined controller is disconnected, or the external communication has been lost.	Error (in Server Details)
DD35 disconnected VDCP, AVSP disconnected	The given controller(s) is/are disconnected on the EVS server.	Error (in Monitoring List or Alerts)

Genlock

It indicates the presence or absence of Genlock synchronization signal, and its type.

Possible Values

Message	Explanation	Status Type
OK Blackburst	A valid Blackburst signal is present.	Info
OK Tri-level	A valid Tri-level signal is present.	Info
Bad Blackburst	Bad Blackburst signal, or no Blackburst signal	Error
Bad Tri-level	Bad Tri-level signal, or no Tri-level signal	Error

Analog LTC

It indicates the status of LTC (Longitudinal Time Code) analogue signal.

Possible Values

Message	Explanation	Status Type
OK	A valid LTC signal is present on the EVS server.	Info
Lost	No LTC signal is detected on the EVS server.	Error
Corrupted	A bad LTC or an LTC drift is detected on the EVS server.	Error

Local Clips

It specifies the number of clips stored on the server.

The alert generation depends on the threshold defined for the Local Clips field in the Monitoring settings defined in Configuration menu > Monitoring Configuration tab. The default threshold is 4000. See "Monitoring Settings" on page 21.

Possible Values

Message	Explanation	Status Type
3500	When the number of clips is displayed in black, it means the number of clips on the EVS server does not exceed the threshold defined for the maximum number of local clips.	Info
4200	When the number of clips is displayed in red and bold characters, it means the number of clips on the EVS server exceeds the threshold defined for the maximum number of local clips.	Error

DB Status

It indicates the status of the database.

Possible Values

Message	Explanation	Status Type
OK	The DB is OK.	Info
Corrupted	The DB is corrupted.	Error

XNet Status

It indicates the status of the SDTI network connection.

Possible Values

Message	Explanation	Status Type
Connected	The EVS server is connected to the network.	Info
Connecting	The EVS server's connection to the network is in progress.	Info
Stand alone	The system does not have the XNet license, or the required hardware, or the SDTI network is disabled.	Info
Not Connected	The EVS server is not connected to the network.	Error
Disconnected	The EVS server is in a disconnection phase.	Error
Connection fault	The EVS server cannot connect to the XNet network due to an incompatibility error.	Error

Traffic

It indicates the network traffic status.

Possible Values

Message	Explanation	Status Type
Normal	The traffic on the SDTI network is properly managed.	Info
Heavy	The SDTI network makes full use of the available capacity.	Warning (orange)
Corrupted	The SDTI network is overloaded, has lost at least one command from a controller, and is desynchronized.	Error

Rem. Capacity

It indicates the remaining recording capacity on the EVS server in hours, and percentage.

The alert generation depends on the threshold defined for the Remaining Capacity field in the Monitoring settings defined in Configuration menu > Monitoring Configuration tab. The default threshold is 5%. See "Monitoring Settings" on page 21.

Possible Values

Message	Explanation	Status Type
48:01:53 (97%)	The parameter is in a valid state (black font) when the Remaining Capacity threshold is not exceeded.	Info
01:03:32 (2%)	The parameter is in a warning state (orange font) when the Remaining Capacity threshold is exceeded.	Warning
00:00:00 (0%)	The parameter is in an error state (red font) when the Remaining Capacity is null.	Error

PSU HDX

It specifies the status of the power supply units of the external SAS disk array.

Possible Values

Message	Explanation	Status Type
OK (1)	Only one PSU is installed on the SAS-HDX disk array and is working fine	Info
OK (2)	Two PSUs are installed on the SAS-HDX disk array and working fine.	Info
/	No external storage system is installed.	Info
! PSU1	The first PSU of the SAS-HDX disk array is down.	Error
! PSU2	The second PSU of the SAS-HDX disk array is down.	Error

Fan HDX

It specifies the state of the fans on the external SAS disk array.

Possible Values

Message	Explanation	Status Type
OK	The fans is/are operating.	Info
/	No external fans are installed	Info
! Fan 1	The fan 1 is faulty.	Error
! Fan 1,2	The fans 1 and 2 are faulty.	Error

Disk Thermal

It specifies the temperature on the internal and external disks.

Possible Values

Message	Explanation	Status Type
OK	All temperatures measured on disks are OK.	Info
INT 1: Rising(orange)	The temperature of disk 1 on the internal disk array is rising (between 50 and 55°C).	Warning
EXT 2-3 : Rising (orange)	The temperature of disk 3 of the second external disk array is rising (between 50 and 55°C).	Warning
INT 1-2 : Overheating (red)	The temperature of disk 2 of the first internal disk storage board exceeds 55°C.	Error

RAID

It specifies the status of the raids.

Possible Values

Message	Explanation	Status Type
OK	The raid system is working fine.	Info
R1: Rebuilt X% (orange)	The system is rebuilding raid 1 of the raid matrix. The X represent the percentage processed of the rebuild operation. In the Server Details pane, Storage tab, the raid has an orange background in the RAID area.	Warning
R1: Degraded (red)	The raid 1 of the raid matrix has lost a disk and cannot afford any new disk failure without losing the full storage. In the Server Details pane, Storage tab, the raid has a red background in the RAID area.	Error

Raid R/W Retry

It specifies the number of renewed attempts of read and/or write operations on disks of the raids.

As soon as at least a read or write operation had to be retried, this generates a warning.

Possible Values

Message	Explanation	Status Type
0r / 0w	0 renewed read attempt, 0 renewed write attempt	Info
0r / 1w (orange)	0 renewed read attempt, 1 renewed write attempt	Warning

Raid R/W Error

It specifies the number of errors in read and/or write operations on disks of the raids.

As soon as at least a read or write operation failed, this generates an error.

Possible Values

Message	Explanation	Status Type
0r / 0w	0 read error, 0 write error	Info
0r / 1w (red)	0 read error, 1 write error	Error

Disk

It indicates the disk connection status, and the number of spare disks.

Possible Values

Message	Explanation	Status Type
OK (1 sp)	All disks are connected and accepted by the RAID matrix, and 1 spare disk is available.	Info (in Alerts and Monitoring List)
1 xx (6 sp)	All disks are connected and accepted by the RAID matrix, but one disk is faulty, and 6 spare disks are available.	Error (in Alerts and Monitoring List)
OK	The given disk is working fine.	Info (in Server Details)
Spare	The given disk is a spare disk.	Info (in Server Details)
Disconnected	The given disk is out of the RAID matrix.	Error (in Server Details)
Not Present	No disks are connected in the bay.	Error (in Server Details)

PC Free Disk Space

It indicates the available space on the MTPC disk in megabytes (MB) or gigabytes (GB).

Possible Values

Message	Explanation	Status Type
300 MB	When the space available is more than the value defined in the SNMP agent (100 MB), the label is in a normal state.	Info
75 MB (orange)	When the space available is less than the value defined in the SNMP agent (100 MB), the label is in a warning state. For PCs (no MTPC card), this value is not displayed as a warning.	Warning
10 MB (red)	When the space available is less than 20MB, the label is in an error state. For PCs (no MTPC card), this value is not displayed as a warning.	Error

3. Monitoring

3.1. Overview on the Monitoring Window

Introduction

The Monitoring window is the main window in XNet Web Monitor.

It gives access to the current SNMP information and alerts on all monitored EVS servers and EVS hardware.

Illustration

The Monitoring window contains three panes highlighted on the screenshot below and described in the table below:

The screenshot displays the XNet Web Monitor interface with three panes highlighted by orange boxes and numbered 1, 2, and 3.

Pane 1: Main Monitoring Table

Name	Net Number	SN	Product Type	Version	Video Std	Codec	Audio Chan.	Comp. Bit R.
Group RD 1 (9 devices)								
XT2+TES	29	92250	XT[2]+	11.01.08	625i PAL	SD IMX (D10)	8 tracks	30 Mbps
Harris	20	18750	XT[2] 6U	11.01.09	625i PAL	SD MJPEG	8 tracks	30 Mbps
172.16.10								
XT jmi	10	33510	XT[2]+	10.04.32	625i PAL	SD MJPEG	8 tracks	30 Mbps
Integra	1	21410	XT[3] 6U	11.00.09	625i PAL	SD MJPEG	8 tracks	30 Mbps
10.11.12.1								
BEWJMI		Unknown	XTGateway	1.4.3.0				
BEWJMI		Unknown	XTAccess	1.16.39.0				
IPD-A0135								
Group RD 2 (18 devices)								
172.16.11.1	1	83750	XT[2] 6U	11.00.07	1080i NTSC	Avid DNxHD	4 tracks	145 Mbps
ASTRO 2	2	24780	XT[2] 6U	11.00.08	1080i PAL	HD MJPEG	8 tracks	100 Mbps
172.16.90								
Server01	1	37600	XT[2] 6U	10.05.12	1080i PAL	HD MJPEG	4 tracks	100 Mbps
172.16.20.0		32480	XT[2] 6U	11.00.45				
172.16.70								
X35U	2	85210	X3 5U	11.00.08	1080i PAL	DVCPRO HD	4 tracks	100 Mbps
172.16.70								
GXA1839			GX	Unknown				
172.16.31.1		22640	XT[2]+	11.01.07	625i PAL	SD IMX (D10)	4 tracks	30 Mbps
172.16.10.1		18050	XT[2] 6U	11.01.08	625i NTSC	SD MJPEG	4 tracks	30 Mbps

Pane 2: General/Status/Storage/Hardware/Code tabs

General

Type: XT[2]+
 Facility Name:
 Serial Number: 92250
 Version: 11.01.08
 State: Running
 PSU: OK (1)
 Genlock: OK blackburst
 LTC: OK
 Local Clips: 0
 Rem. Capacity: 67:45:02 [100%]
 Clip Capacity: Global
 Loop Rec.: On
 Up Time: 2 days, 2:08:39.74
 System Date: 2012-01-19 12:07:45
 Sync PC to TC: No
 Sync Period: 00:15:00
 PC free disk space: 963 MB

Audio-Video

Base Config: Multicam_LM
 Video Channels: 8 tracks
 Audio Channels: 8 tracks
 Video Std: 625i PAL
 Codec: SD IMX (D10)
 Comp. Bit Rate: 30 Mbps

Network

SDTI: NoRelay/1485
 Net Name: XT2+TEST
 Net Number: 29
 Net Type (Cfg): Server (Server)
 ClipEdit by Net: Yes
 Nb of net Clip: 0
 DB Status: OK
 Vnet Status: Connected
 Traffic: Normal
 Def. Copy Move: Gyg
 GigOpenConn: 0/5

Channels

Channel	Status	Config	Rem. Capacity	LTC	User TC	Net
CAM A	Recording	Recorder (50%)	33:52:31	2012-01-19 12:00	2012-01-19 09:00	EVS
CAM B	Recording	Recorder (50%)	33:52:31	2012-01-19 12:00	2012-01-19 09:00	EVS
POM 1	Live	Player		2012-01-19 12:00	2012-01-19 09:00	EVS
POM 2	Live	Player		2012-01-19 12:00	2012-01-19 09:00	EVS
POM 3	Idle	Player		1970-01-01 00:00	1970-01-01 00:00	Lin
POM 4	Idle	Player		1970-01-01 00:00	1970-01-01 00:00	Lin

Pane 3: Alerts

Name	IP Address	Date	Description	Ack
IPD-A013950	10.11.11.153	1/20/2012 12:11:01 PM	Device not managed	
Server01	172.16.50.1	1/20/2012 10:32:16 AM	SDTI traffic is corrupted	
Master02	172.16.54.1	1/18/2012 6:04:45 PM	SDTI is disconnected	
Master05	172.16.55.1	1/18/2012 6:03:45 PM	SDTI status is not connected	
Master05	172.16.59.1	1/20/2012 11:56:52 AM	Full capacity reached (rem. capacity: 00:00:00 [0%])	
Protocol 1	172.16.110.1	1/18/2012 6:08:32 PM	SrvXT36U InMaintenance	
Protocol 1	172.16.110.1	1/20/2012 12:11:01 PM	Device not managed	

Last refresh on 2012-01-20 11:55:21 Idle

Polling service BEWJMI: not responding

Area Description

The table below describes the various areas of the Monitoring window.

Part	Name	Description
1.	Monitoring List	List of EVS Servers and other EVS hardware organized in groups, and related SNMP information. See "Description of the Monitoring List" on page 40
2.	Server Details	List of all SNMP information of the EVS server or EVS hardware selected in the Monitoring List or in the Alert List. The SNMP information on EVS servers is organized in four tabs: <ul style="list-style-type: none"> • Status tab • Storage tab • Hardware tab • Code tab The SNMP information on other EVS hardware only contains a Status tab. See "Server Details" on page 44.
3.	Alerts	List of alerts The displayed alert types are configured in the Alert Configuration tab. See "Alert Configuration" on page 27.



Note

The Server Details and Alerts panes can be displayed or hidden by clicking the split boxes on the pane borders.

Display of Monitoring Information

The information displayed on the Monitoring window will be displayed in different ways depending on the information type:

Color	Information Type
black	Information providing a normal status, or acknowledged alert.
orange	warning
bold red	alert
gray	hidden alert

3.2. Monitoring List

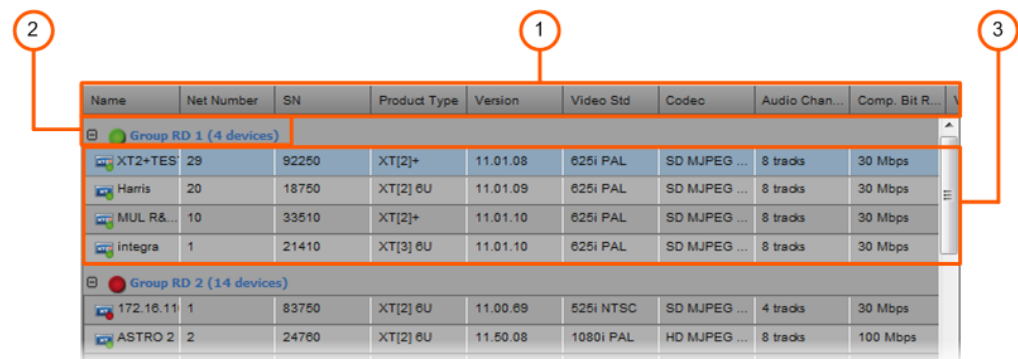
3.2.1. Description of the Monitoring List

Overview

The Monitoring List area shows the groups of EVS servers and other EVS hardware, their status, and a set of parameters on each hardware.

Illustration

The Monitoring List pane contains three main areas highlighted on the screenshot below and described in the table below:



Name	Net Number	SN	Product Type	Version	Video Std	Codec	Audio Chan...	Comp. Bit R...
Group RD 1 (4 devices)								
XT2+TES	29	92250	XT[2]+	11.01.08	625i PAL	SD MJPEG ...	8 tracks	30 Mbps
Harris	20	18750	XT[2] 6U	11.01.09	625i PAL	SD MJPEG ...	8 tracks	30 Mbps
MUL R&...	10	33510	XT[2]+	11.01.10	625i PAL	SD MJPEG ...	8 tracks	30 Mbps
integra	1	21410	XT[3] 6U	11.01.10	625i PAL	SD MJPEG ...	8 tracks	30 Mbps
Group RD 2 (14 devices)								
172.16.11	1	83750	XT[2] 6U	11.00.69	525i NTSC	SD MJPEG ...	4 tracks	30 Mbps
ASTRO 2	2	24760	XT[2] 6U	11.50.08	1080i PAL	HD MJPEG ...	8 tracks	100 Mbps

Area Description

The table below describes the various parts of Monitoring List area:

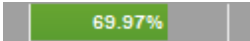
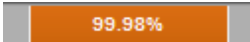
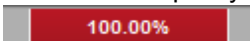
Part	Name	Description
1.	Column heading	Type of information available in the given column. The columns available in the Monitoring List are selected and ordered as defined the Display Profile definition. For more information, see section "Customizing Display Profiles" on page 9.
2.	Group node	Group of servers. It displays the following elements, from left to right: <ul style="list-style-type: none"> Group status (circle): The group inherits the status of the servers of its group, with priority to red, gray, and then green. Group name Number of EVS servers or hardware in the group The server list of a group can be collapsed or expanded with the expand button (+/-) in front of the group name. The definition of groups and the tree structure are configured in the Monitoring Configuration tab. For more information, see section "Setting up Monitored Devices" on page 12.
3.	Server List	Information on EVS servers and other EVS hardware belonging to a group. For more details on the fields available in this section, see section "Fields in the Monitoring List" on page 41. Clicking on a row corresponding to an EVS server or other hardware will display the detailed information on this host in the Server Details area.

3.2.2. Fields in the Monitoring List

The list of fields described in the table below is not exhaustive. It includes the fields available in the default display profile 2 (Production).

It provides a short definition of the field. See "List of Possible Alerts" on page 29 for more information on possible values for these fields.

Name	Description
Name	<p>It indicates the name of the EVS server.</p> <p>The name displayed is assigned in the following order of priority, based on whether a value is assigned or not: facility name, net name or IP address.</p> <p>A color circle in front of the EVS server indicates its status:</p> <ul style="list-style-type: none"> • green: no active alert present for the server • red: at least an active alert present for the given server • gray: XNet Web cannot retrieve information with the SNMP protocol.
Polling Status	<p>It specifies the status of the polling service.</p> <p>It indicates:</p> <ul style="list-style-type: none"> • whether the polling service is running correctly • when the polling service last sent a query to the server (time interval in hh:mm:ss from current time)
Product Type	<p>It indicates the type of EVS hardware.</p> <p>Examples: XT2 4U, XT3 6U, IPDirector</p>
State	<p>It indicates the functional status of the EVS server or other EVS hardware.</p> <p>The possible statuses are 'Running', 'Initializing', 'In Maintenance' or 'Halted'.</p>
Net Number	<p>It specifies the server identification number on the SDTI network.</p>
Net Type	<p>It indicates the server type on the SDTI network.</p> <p>The possible values are:</p> <ul style="list-style-type: none"> • Master • Server • Client • Not Applicable (SDTI not present or set to off).
Base Config	<p>It indicates the base configuration used to start the server.</p>
Video Std	<p>It specifies the video standard used on the server ports.</p>
Genlock	<p>It indicates the presence or absence of Genlock synchronization signal, and its type.</p>
Analog LTC	<p>It indicates the status of LTC (Longitudinal Time Code) analogue signal.</p>
GigE 1 IP Address	<p>It indicates the IP address of the GigE 1 interface port</p>
GigE open conn.	<p>It indicates the number of open connections to the GigE 1 port. Not more than 6 connections can be open to a GigE port.</p>
Disk	<p>It indicates the disk connection status, and the number of spare disks.</p>
PSU	<p>It specifies the status of the power supply units.</p>
Traffic	<p>It indicates the network traffic status.</p>
DB Status	<p>It indicates the status of the database.</p>

Name	Description
Loc Clips	It specifies the number of clips stored on the server.
Rem. Capacity	It indicates the remaining recording capacity on the EVS server in hours, and percentage.
% used Capacity	<p>It specifies the percentage of whole server capacity that has been used. The cell background is colored to provide a visual representation of the remaining capacity:</p> <ul style="list-style-type: none"> The % used capacity is below the defined threshold.  The % used capacity is above the defined threshold.  The % used capacity is 100%. 
Physical Memory	This field is only relevant for PCs, not for EVS servers. It specifies the used memory, the total memory, and the percentage used of the total memory.
CPU Usage	This field is only relevant for PCs, not for EVS servers. It specifies the CPU usage of each core, in percents.

3.3. Server Details

3.3.1. Overview on the Server Details Area

Introduction

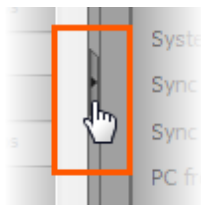
The Server Details pane is located on the right hand side of the Monitoring window. It provides detailed information on the EVS server selected in the Monitoring pane. This information is organized in four tabs, which are themselves organized in field groups:

Tab Name	Included field groups
Status	General information, data about A/V, network, controllers, GigE connections, and channels
Storage	Information on disk capacity, array definition, disk numbers, and disk models
Hardware	List of the boards fitted on the EVS server
Codes	List of Codes installed on the EVS server

When you select another EVS hardware in the Monitoring pane, the Details pane provides data on the hardware, drives and the communication interfaces.

Hiding and Displaying the Server Details Pane

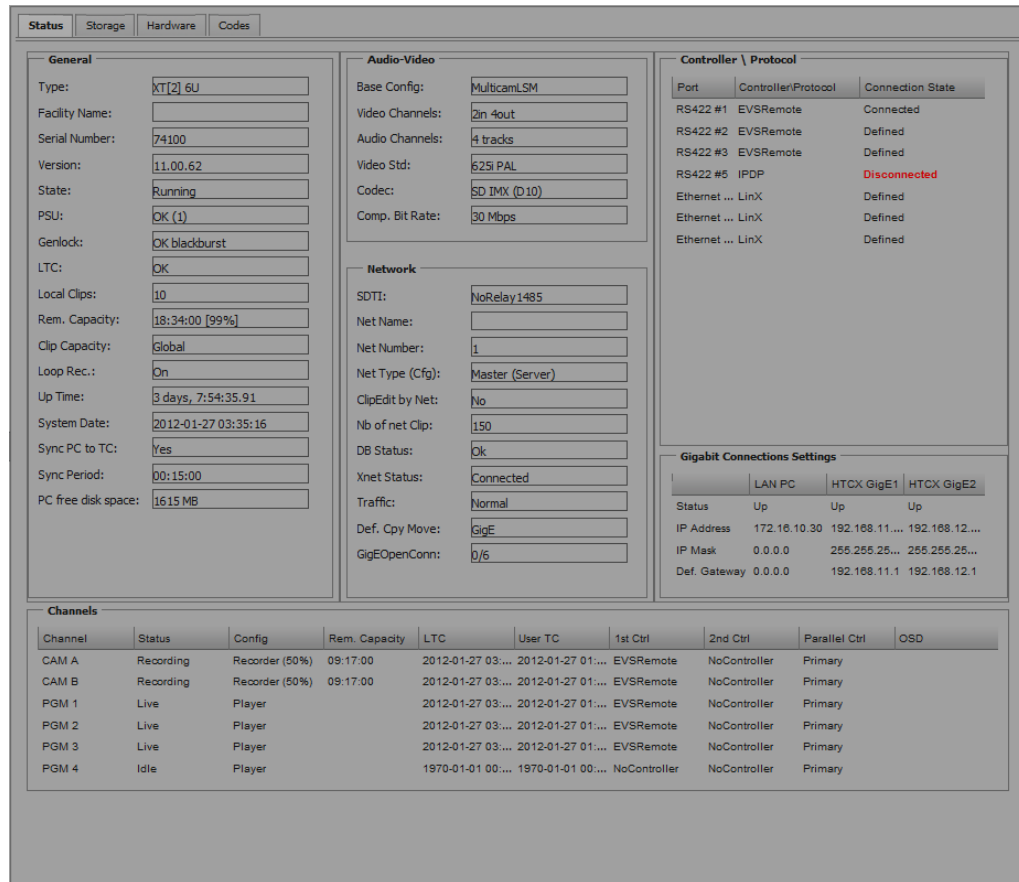
The Server Details pane can be hidden or displayed by clicking the split box on the split bar between the Monitoring pane, and the Server Details pane:



3.3.2. Status Tab

Overview

In the Status tab, the main parameters are organized in several group boxes as shown on the following figure.



The screenshot displays the XNet Web Monitor interface with the following sections:

- Tabs:** Status, Storage, Hardware, Codes.
- General:**
 - Type: XT[2] 6U
 - Facility Name:
 - Serial Number: 74100
 - Version: 11.00.62
 - State: Running
 - PSU: OK (1)
 - Genlock: OK blackburst
 - LTC: OK
 - Local Clips: 10
 - Rem. Capacity: 18:34:00 [99%]
 - Clip Capacity: Global
 - Loop Rec.: On
 - Up Time: 3 days, 7:54:35.91
 - System Date: 2012-01-27 03:35:16
 - Sync PC to TC: Yes
 - Sync Period: 00:15:00
 - PC free disk space: 1615 MB
- Audio-Video:**
 - Base Config: Multicam_LSM
 - Video Channels: 2in 4out
 - Audio Channels: 4 tracks
 - Video Std: 625i PAL
 - Codec: SD IMX (D10)
 - Comp. Bit Rate: 30 Mbps
- Network:**
 - SDTI: NoRelay1485
 - Net Name:
 - Net Number: 1
 - Net Type (Cfg): Master (Server)
 - ClipEdit by Net: No
 - Nb of net Clip: 150
 - DB Status: Ok
 - Xnet Status: Connected
 - Traffic: Normal
 - Def. Cpy Move: GigE
 - GigEOpenConn: 0/6
- Controller \ Protocol:**

Port	Controller/Protocol	Connection State
RS422 #1	EVSRemote	Connected
RS422 #2	EVSRemote	Defined
RS422 #3	EVSRemote	Defined
RS422 #5	IPDP	Disconnected
Ethernet ... LinX	LinX	Defined
Ethernet ... LinX	LinX	Defined
Ethernet ... LinX	LinX	Defined
- Gigabit Connections Settings:**

	LAN PC	HTCX GigE1	HTCX GigE2
Status	Up	Up	Up
IP Address	172.16.10.30	192.168.11.1...	192.168.12.1...
IP Mask	0.0.0.0	255.255.25.5...	255.255.25.5...
Def. Gateway	0.0.0.0	192.168.11.1	192.168.12.1
- Channels:**

Channel	Status	Config	Rem. Capacity	LTC	User TC	1st Ctrl	2nd Ctrl	Parallel Ctrl	OSD
CAM A	Recording	Recorder (50%)	09:17:00	2012-01-27 03:...	2012-01-27 01:...	EVSRemote	NoController	Primary	
CAM B	Recording	Recorder (50%)	09:17:00	2012-01-27 03:...	2012-01-27 01:...	EVSRemote	NoController	Primary	
PGM 1	Live	Player		2012-01-27 03:...	2012-01-27 01:...	EVSRemote	NoController	Primary	
PGM 2	Live	Player		2012-01-27 03:...	2012-01-27 01:...	EVSRemote	NoController	Primary	
PGM 3	Live	Player		2012-01-27 03:...	2012-01-27 01:...	EVSRemote	NoController	Primary	
PGM 4	Idle	Player		1970-01-01 00:...	1970-01-01 00:...	NoController	NoController	Primary	

The different group boxes and their parameters are detailed hereafter.



Note

If Multicam is not active and running on the selected server, most of the parameter fields will be left blank.

General Area

The table below describes the fields available in the General area:

Parameter	Description
Type	It indicates the server type: XT3, XT2, XS, ...
Facility Name	It specifies the name given to the product by the user.
Serial Number	It specifies the server's unique serial number
Version	It specifies the server software revision
State	It indicates the functional status of the EVS server or other EVS hardware. The possible statuses are 'Running', 'Initializing', 'In Maintenance' or 'Halted'.
PSU	It specifies the status of the power supply units.
Genlock	It indicates the presence or absence of Genlock synchronization signal, and its type.

Parameter	Description
LTC	It indicates the status of LTC (Longitudinal Time Code) analogue signal.
Local Clips	It specifies the number of clips stored on the server.
Rem. Capacity	It indicates the remaining recording capacity on the EVS server in hours, and percentage.
Clip Capacity	It specifies the clip capacity as defined on the server: Global or Per Channel.
Loop Rec.	It specifies the loop recording mode as defined on the server.
Up Time	It indicates the elapsed time since the last boot.
System Date	It indicates the MTPC date and time.
Sync PC to TC	It synchronizes the internal TC to the timecode read on the LTC input of the server and clears the TC discontinuities detected on the LTC input of the system.
Sync Period	It indicates the period at which the Sync PC to TC is applied.
PC Free Disk Space	It indicates the available space on the MTPC disk in megabytes (MB) or gigabytes (GB).

Audio-Video Area

The table below describes the fields available in the Audio-Video area:

Parameter	Description
Base Config	It indicates the base configuration used to start the server.
Video Channels	It specifies the video channels configuration (number of in and out channels)
Audio Channels	It specifies the number of audio channels
Video Standard	It specifies the video standard used on the server ports.
Codec	It specifies the codec used for video digitalization and storage
Comp. Bit Rate	It specifies the bit rate of compressed video data

Network Area

The table below describes the fields available in the Network area:

Parameter	Description
SDTI	It indicates the SDTI (Serial Data Transport Interface) network type.
Net Name	It indicates the server name on the SDTI network.
Net Number	It specifies the server identification number on the SDTI network.
Net Type (Cfg)	It indicates the server type on the SDTI network. The possible values are: <ul style="list-style-type: none"> • Master • Server • Client • Not Applicable (SDTI not present or set to off).
Clip Edit by Network	It specifies whether a clip can be edited through the network or not.
Nb of Network Clip	It indicates the total number of clips stored on the whole SDTI network.
DB Status	It indicates the status of the database.
XNet Status	It indicates the status of the SDTI network connection.
Traffic	It indicates the network traffic status.
Def. Cpy Move	It specifies the preferred network (SDTI or GigE) for copy/move actions on clips.
GigE Open Conn.	It indicates the number of open GigE connections on a given port.

Controller / Protocol Area

The table below describes the fields available in the Controller / Protocol area:

Parameter	Description
Port	It specifies the port used by the server controller.
Controller\Protocol	It specifies the controller or protocol used on that port.
Connection State	It specifies the connection status of the control port.

Gigabit Connection Settings Area

The table below describes the fields available in the Gigabit Connection Settings area:

Parameter	Description
Status	It indicates the status of the Gigabit connection.
IP Address	It specifies the IP address of the interface port.
IP Mask	It specifies the IP mask of the interface port.
Def. Gateway	It specifies the default gateway used by the interface port.

Channels Area

The table below describes the fields available in the Channels area:

Parameter	Description
Channel	It specifies the name of the record channel (CAM) or play (PGM) channel.
Status	It indicates the status of the channel: <ul style="list-style-type: none"> CAM: Recording, Rec Idle PGM: Ready, Playing, Live, Idle
Config	It specifies the configuration of the channel as Recorder or Player.
Rem. Capacity	It indicates the remaining capacity for each recorder channel.
LTC	It gives the LTC timecode of the channel.
User TC	It gives the User timecode of the channel.
1st Ctrl	It specifies the primary controller defined for the selected channel. Possible values are: EVS Remote, EVS XTNano Remote, AVSP, IPDP
2nd Ctrl	It specifies the secondary controller defined for the channel, if any.
Parallel Ctrl	It specifies the controller used in parallel mode.
OSD	It specifies which controller (main or secondary) will manage the OSD display characters in parallel mode.

3.3.3. Storage Tab

Overview

The Storage tab differs according to the type of disks used: SAS or SCSI.

SAS Disks

StatusStorageHardwareCodes

General

Rem. capacity:00:04:33 [0%]Storage type:SasNom. capacity:370:07:34Raid type:(4+1)

RAID

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15	R16

Arrays

	PSU	Fans	Thermal
EXT4	OK (2)	OK	OK
EXT3	OK (2)	OK	OK
EXT2	OK (2)	OK	OK
EXT1	OK (2)	OK	OK
INT	/	OK	OK

Disk OverviewDisk Details

Disk Status

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
EXT4	R1	R6	sp	sp	sp	sp	sp	sp	sp	sp	sp	sp	sp	sp	sp	sp	sp	sp	sp	sp	sp	sp	sp	sp
EXT3	R12	R12	R12	R13	R13	R13	R13	R13	R14	R14	R14	R14	R14	R15	R15	R15	xx	R15	R16	R16	R16	R16	R16	R1
EXT2	R7	R7	R8	R8	R8	R8	R8	R9	R9	R9	R9	R9	R10	R10	R10	R10	R5	R11	R11	R11	R11	R12	R12	
EXT1	R2	R3	R3	R3	R3	R4	R4	R4	R4	R4	R5	R5	R5	R5	R11	R6	R6	R6	xx	R2	R7	R7	xx	
INT	R1	R1	R1	R7	xx	R2	R15	R6	R2		R2	sp												

Disk temperature

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
EXT4	27	26	26	26	26	26	26	27	26	26	26	26	26	26	26	27	27	26	27	27	28	27	28	28
EXT3	29	29	28	28	27	27	27	28	27	26	27	26	28	27	27	29		28	29	28	28	29	29	29
EXT2	31	30	29	29	29	29	30	31	31	30	30	30	30	30	31	32	31	30	30	30	30	31	31	30
EXT1	32	31	30	30	30	30	30	33	32	32	31	31	31	31	31	32	30	30	31		31	31	33	
INT	33	35	39	37		36	39	38	34			38	38											

3. Monitoring

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SCSI Disks

The screenshot shows a web-based configuration interface for SCSI disks. It has a top navigation bar with tabs: Status, Storage (selected), Hardware, and Codes. The main content area is divided into several sections:

- General:** Contains fields for 'Rem. capacity:' (13:23:44 [94%]), 'Storage type:' (ParallelScsi), 'Nom. capacity:' (14:08:47), and 'Raid type:' (4+1).
- RAID:** A table with columns 1, 2, and 3. Row 1 shows 'R1' in column 1.
- Arrays:** A table with columns PSU, Fans, and Thermal. Row 1 shows 'INT1' in the PSU column, '/' in the Fans column, and 'OK' in the Thermal column.
- Disk Overview:** A sub-section with a 'Disk Status' table. The table has columns 0-A, 0-B, 0-C, 0-D, 0-E, 1-A, 1-B, 1-C, 1-D, 1-E, 2-A, 2-B, 2-C, 2-D, 2-E. Row 1 shows 'INT1' in column 0-A, and 'R1' in columns 0-B through 0-E.
- Disk temperature:** A table with the same column structure as Disk Status. Row 1 shows 'INT1' in column 0-A, and temperatures (43, 36, 35, 38, 33) in columns 0-B through 0-E.

General Area

The table below describes the fields available in the General area:

Parameter	Description
Rem. Capacity	It specifies the remaining capacity of the storage expressed as a video duration (hours, minutes and seconds) as well as a percentage.
Nom. Capacity	It specifies the total capacity of the storage expressed as a video duration (hours, minutes and seconds).
Storage Type	It specifies the type of disks: SCSI (ParallelSCSI) or SAS.
RAID Type	It specifies the type of RAID: <ul style="list-style-type: none"> 4+1: four disks and a parity disk, with a spare disk for SAS disks / without spare for SCSI disks 5+1: five disks and a parity disk, without a spare disk for SAS disks

Arrays Area

The table below describes the fields available in the Arrays area:

Parameter	Description
PSU	It specifies the status of the PSU on the given array. See "PSU HDX" on page 34 for examples of values for this field in case of SAS-HDX array. The values are the same for other arrays types.
Fans	It gives the state of the fans on the given array. See "Fan HDX" on page 35 for examples of values for this field in case of SAS-HDX array. The values are the same for other arrays types.
Thermal	It gives the temperature status on the given array. See "Disk Thermal" on page 35 for field values.

Raid Area

This area gives indication on the number of RAIDs defined in the server and their respective identification (R1,...)

Parameter	Description
Raid ID	It specifies the RAID storage system identification

Disk Overview Tab

Disk Status Area

This area gives indication on the localization of each RAID and on the spare disks in the arrays:

The **xx** sign (red) identifies faulty disks, that should directly be replaced, especially when you work without spare disks.

The **??** sign (red) identifies disks other than EVS disks.

The **sp** sign (green) identifies the spare disks.

Disk Status																								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
EXT4	R1	R6	sp	sp	sp	sp	sp	sp	sp	sp	sp	sp	sp	sp	sp	sp	sp	sp	sp	sp	sp	sp	sp	sp
EXT3	R12	R12	R12	R13	R13	R13	R13	R13	R14	R14	R14	R14	R14	R15	R15	R15	xx	R15	R16	R16	R16	R16	R16	R1
EXT2	R7	R7	R8	R8	R8	R8	R8	R9	R9	R9	R9	R9	R10	R10	R10	R10	R10	R5	R11	R11	R11	R11	R12	R12
EXT1	R2	R3	R3	R3	R3	R3	R4	R4	R4	R4	R4	R5	R5	R5	R5	R11	R6	R6	R6	xx	R2	R7	R7	xx
INT	R1	R1	R1	R7	xx	R2	R15	R6	R2		R2	sp												

Disk Temperature Area

This area provides the internal temperature of each disk.

Disk Details Tab

The Disk Details tab provides specific information on the disks:

Disk Overview	Disk Details					
ID	State	Cap(Gb)	Temperature	Model	Rev. Level	SN
INT-1	Ok	279	25	SEAGATE ST90000100	00043SE0PL60	3SE0PL60
INT-2	Disconnected	279	25	SEAGATE ST90000100	00043SE0MQQF	3SE0MQQF
INT-3	Ok	279	27	SEAGATE ST90000100	00043SE0MQ7G	3SE0MQ7G
INT-4	Ok	279	26	SEAGATE ST90000100	00043SE0PKR4	3SE0PKR4
INT-5	Ok	279	27	SEAGATE ST90000100	00043SE0PL4M	3SE0PL4M
INT-6	Ok	279	27	SEAGATE ST90000100	00043SE0NZG2	3SE0NZG2
INT-7	Spare	279	29	SEAGATE ST90000100	00043SE0N9Y4	3SE0N9Y4
INT-8	Spare	279	29	SEAGATE ST90000100	00043SE0PJGF	3SE0PJGF
INT-9	Spare	279	27	SEAGATE ST90000100	00043SE0PKP8	3SE0PKP8
INT-10	Spare	279	27	SEAGATE ST90000100	00043SE0PKKZ	3SE0PKKZ
INT-11	Spare	279	27	SEAGATE ST90000100	00043SE0KZWT	3SE0KZWT
INT-12	Spare	279	27	SEAGATE ST90000100	00043SE0PKM6	3SE0PKM6

The Disk Details tab provides specific information on the disks:

Disk Overview	Disk Details					
ID	State	Cap(Gb)	Temperature	Model	Rev. Level	SN
INT-1	Ok	279	25	SEAGATE ST90000100	00043SE0PL60	3SE0PL60
INT-2	Disconnected	279	25	SEAGATE ST90000100	00043SE0MQQF	3SE0MQQF
INT-3	Ok	279	27	SEAGATE ST90000100	00043SE0MQ7G	3SE0MQ7G
INT-4	Ok	279	26	SEAGATE ST90000100	00043SE0PKR4	3SE0PKR4
INT-5	Ok	279	27	SEAGATE ST90000100	00043SE0PL4M	3SE0PL4M
INT-6	Ok	279	27	SEAGATE ST90000100	00043SE0NZG2	3SE0NZG2
INT-7	Spare	279	29	SEAGATE ST90000100	00043SE0N9Y4	3SE0N9Y4
INT-8	Spare	279	29	SEAGATE ST90000100	00043SE0PJGF	3SE0PJGF
INT-9	Spare	279	27	SEAGATE ST90000100	00043SE0PKP8	3SE0PKP8
INT-10	Spare	279	27	SEAGATE ST90000100	00043SE0PKKZ	3SE0PKKZ
INT-11	Spare	279	27	SEAGATE ST90000100	00043SE0KZWT	3SE0KZWT
INT-12	Spare	279	27	SEAGATE ST90000100	00043SE0PKM6	3SE0PKM6

Parameter	Description
ID	Disk identification
State	Disk status: OK, not present, spare,...
Cap	Disk capacity in Gigabytes
Temp	Disk internal temperature in the unit defined in the general display settings
Model	Disk manufacturer and model
Rev. Level	Disk revision Level
SN	Disk serial number

3.3.4. Hardware Tab

Overview

The Hardware tab lists the available modules and boards installed in the server along with their respective version or revision number and their configuration when relevant.

Status	Storage	Hardware	Codes
Name		Version	
MTPC Board		Id=0xA4	
HCTX CPU Board		Id=0xA1, Revision=0x43, Jumpers=0x0F	
COHX Base Board #0		ID=0xC2, IDE=0xd0	
COHX Base Board #1		ID=0xC2, IDE=0xd0	
COHX Base Board #2		ID=0xC2, IDE=0xd0	
CH#0 (COHX)		HW:0x0a/0x02 Feat:0x00c3	
CH#1 (COHX)		HW:0x0a/0x02 Feat:0x00c3	
CH#2 (COHX)		HW:0x0a/0x02 Feat:0x00c3	
CH#3 (COHX)		HW:0x0a/0x02 Feat:0x00c3	
CH#4 (COHX)		HW:0x0a/0x02 Feat:0x00c3	
CH#5 (COHX)		HW:0x0a/0x02 Feat:0x00c3	
ACODEC		Id=0x65, Ide=0x0A, Ide2=0x0A	
HCTX GBE		Rev=HCTX_GBE A4 1	

Field Description

Parameter	Description
Name	Name of the board or module
Version	Revision of the board or module, and additional parameters

3.3.5. Codes Tab

The Codes tab lists the license codes activated on the server along with their description.

Status	Storage	Hardware	Codes
Number	Description		
2	AUTHORIZE_SD_CONFIGS		
3	AUTHORIZE_HD_CONFIGS		
4	AUTHORIZE_CONFIG_CHANGES		
5	CODEC_DNXHD		
6	CODEC_PRORES		
7	CODEC_LOW_RES		
8	CODEC_DVCPRO100		
9	CODEC_DVCPRO50		
10	CODEC_MJPEG		
11	CODEC_IMX		
12	CODEC_MPEG2INTRA		
13	CODEC_AVCINTRA		
20	LSM_HYPERMOTION		
21	1080P_DUAL_LINK		
23	3D_DUAL_STREAM		
24	3D_3G		
70	NEXT_BASE_OPEN_CONFIG		

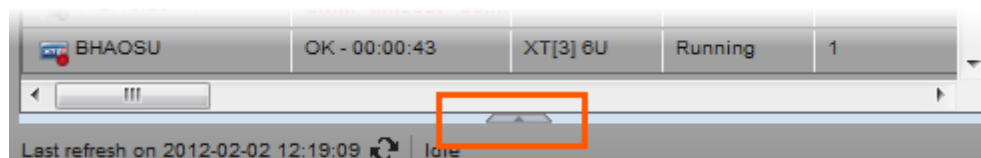
3.4. Alert Messages

3.4.1. Description of Alerts Area

Introduction

Displaying the Alerts Pane

The Alerts pane is displayed below the Monitoring List pane on the Monitoring window. By default, the Alerts pane is hidden. To display it, click the split box below the Monitoring List pane:



Overview

The Alerts pane shows the list of alerts generated for the hosts.

In the Alerts pane, you can:

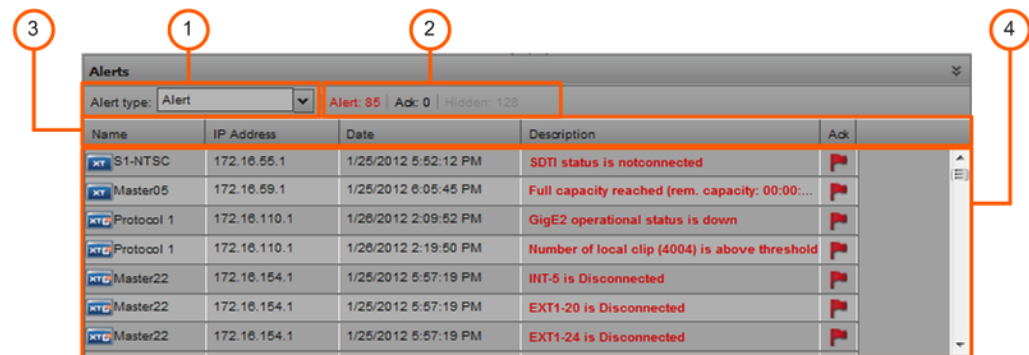
- select and display the alerts based on their types.
- sort the columns in the alert list.
- acknowledge an (active) alert if you are logged as an administrator.

Alert Types

The alerts are classified in three types:

Alert Type	Description
(Active) Alerts	Alerts that have been defined, in the Alerts Configuration tab, as alerts to be displayed in the Alerts pane. We will refer to them as 'active alerts' to prevent misunderstanding when appropriate.
Acknowledged	Active alerts that have been acknowledged. When an alert is acknowledged, is it moved from the list of active alerts to the list of Acknowledged alerts.
Hidden	Alerts that have been disabled in the Alerts Configuration tab.

Illustration



Area Description

The table below describes the various parts of Alerts pane:

Part	Name	Description
1.	Alert type	Drop-down field that allows you to select the type of alerts to be displayed in the grid.
2.	Alert summary	Total number of alerts generated for each alert type.
3.	Column heading	Type of information available in the given column. Clicking on the column heading allows the sorting of the elements in ascending or descending order. The columns displayed cannot be modified: <ul style="list-style-type: none">• Name: Name of the host• IP Address: IP address of the host• Date: Date and time when the alert was generated• Description: Error message (For full information on error messages, see section "List of Possible Alerts" on page 29).• Ack: Icon to acknowledge an alert. It is only available for a user logged as an administrator.
4.	Alert Information	Information on the alerts that belong to the selected Alert type. Clicking on an alert message will display the detailed information of the related host in the Server Details area.

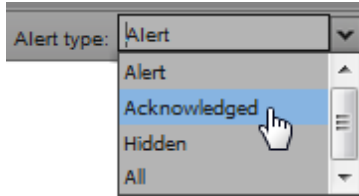
3.4.2. Managing Alerts

Introduction

This topic explains how you can display and manage alerts from the Alerts area in the Monitoring window. The possible actions are summarized in a table below.

Bear in mind that the alerts to be displayed and to be hidden have previously been defined in the Configuration menu, Alert Configuration tab.

Possible Actions on Alerts

In order to ...	Proceed as follows:
Change the type of alerts displayed	<p>Select the requested alert type in the Alert type drop-down field:</p> 
Sort the alert items based on the values of a column (ascending or descending order)	<p>Click the column heading on which the alert items should be sorted.</p> <p>An arrow is displayed next to the column heading to identify the column and order type (ascending or descending) used to sort the items.</p>
Display the error corresponding to the alert in the Server Details tab	<p>Double-click the alert in the Alerts pane</p>
Acknowledge an alert (in administrator mode only)	<p>Click the flag in the Ack. column for the alert to be acknowledged.</p> <p>The alert is removed from the Alert list, and added to the 'Acknowledged' list.</p>

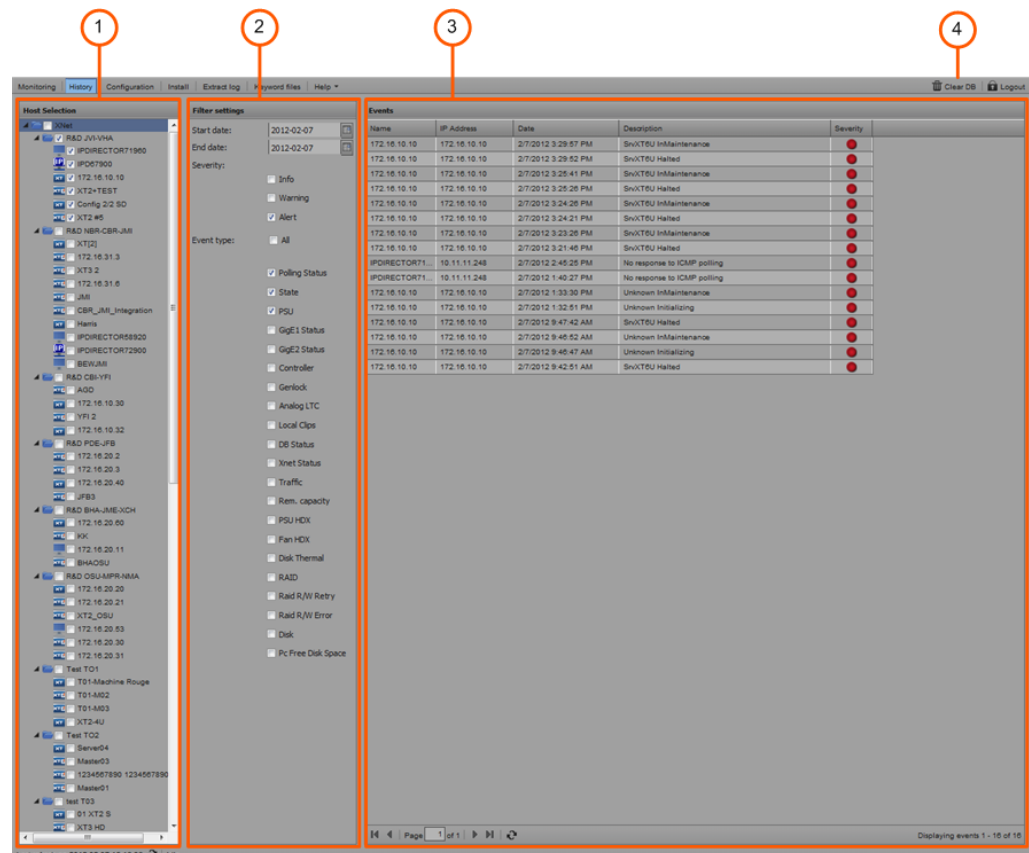
4. Event History

4.1. Description of the History Window

Overview

The History window, accessible via the History menu, makes it possible to view all SNMP messages that have been generated in the past, and filter them based on several criteria (host, date, severity and event type).

The History window mainly consists of two panes for the selection of criteria on the left hand side (1, 2), and one pane for the display of filtered events on the right hand side (3). The areas are described below:



Area Description

The table below describes the various parts of History window:

Part	Name	Description
1.	Host Selection	Tree of monitored devices that you can include or exclude from the search, using the check box in front of each group and host.
2.	Filter Settings	Parameters to refine the search, in addition to the host selection:
	• Start Date	Earliest event date to be taken into account in the search.
	• End Date	Latest event date to be taken into account in the search.
	• Severity	Level of importance of the event to be taken into account in the search.
	• Event Type	Type of event to take into account in the search.
3.	Events	Result of the search based on the criteria defined in the Host Selection and Filter Settings area. At the bottom of the Events pane, the page number is displayed, and the following buttons are displayed: <ul style="list-style-type: none"> • Refresh button to refresh the list of events • Right and Left Arrow buttons to move in the results when the search returns more than one page.
4.	Clear DB button	Button used to clean the alert database of the alerts. This can be useful in an OB van.

4.2. Filtering Events

To filter events in XNet Web Monitor, proceed as follows:

1. In the Menu bar, click the History menu. This opens the History tab.
2. In the Hosts pane, select the hosts for which you want to view the generated SNMP messages.
3. In the Filtering Settings pane, select the filtering criteria among the following ones:
 - Event start and/or end date
 - Event severity
 - Event type

The list in the Events pane is dynamically updated taking into account the changes in the filtering criteria in the Hosts and Filtering Settings panes. You can however click the **Refresh** button at the bottom of the Events pane.

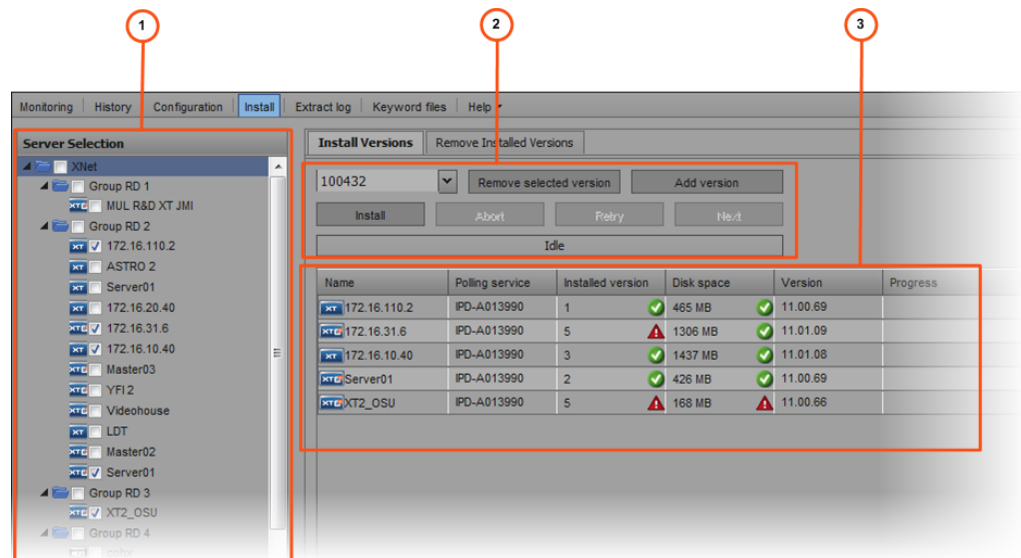
5. Server Maintenance Tasks

5.1. Multicam Upgrades

5.1.1. Description of the Install Versions Tab

Overview

The Install Versions tab available from the main Install window contains the areas highlighted on the following screenshot, and described in the table below:



Area Description

The table below describes the various parts of Install Versions tab:

Area	Name	Description
1.	Server Selection area	This area displays the list of monitored EVS servers on which Multicam versions can be installed.
2.	Version Installation buttons / fields	A series of buttons and fields is used in the installation process of a new Multicam version. For a full description, see the table below.
3.	Servers List	This area displays the list of EVS servers selected in the Server Selection area. It gives information on the number of installed Multicam versions, the available disk space, the version currently used, the installation status (Progress),...

The table below describes the buttons and fields available in the Version Installation tab:

Button / Field	Description
Select a Version field	Used to select a Multicam version present on the web server. '100432' on the above screenshot corresponds to the version 10.04.32.
Remove Selected Version button	Used to remove, from the web server, the Multicam version selected in the Select a Version field.
Add Version button	Used to select a Multicam version to be added to the web server.
Install button	Used to install the Multicam version selected in the field on the EVS server.
Abort button	Used to abort the installation of the Multicam version being installed.
Retry button	Used to restart an installation process which has not succeeded.
Next button	Used to skip the installation process on an EVS server and proceed to the next one.
Installation Process Status field	Gives information on the installation process. 'Idle' on the above screenshot.

5.1.2. Installing a Multicam Version

Introduction

To remotely upgrade a Multicam version on one or several EVS video servers, the Multicam version must be previously added to the web server. Consequently, you will proceed in the following sequence:

1. [Adding a Multicam Version on the Web Server](#)
2. [Installing a Multicam Version on an EVS Video Server](#)

Limitations for the Installation of a Multicam Version

Web Server













Six Multicam versions maximum can be installed on the web server.

EVS Video Server

The installation process will not be possible in the following cases:

- They are already five Multicam versions installed on the EVS server.
- The space available on disk is not sufficient for a new installation.
- The upload of the version from the polling service to the server is not complete.
- The server is faulty.

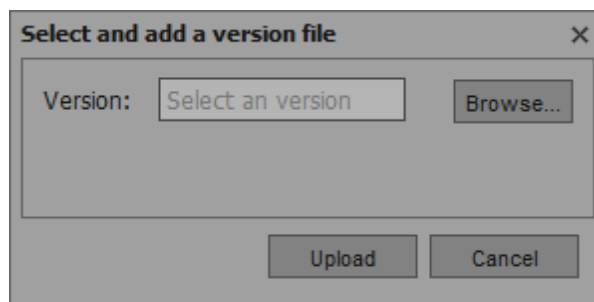
Warnings and alerts related to the number of installed versions and disk space is provided by means of icons in the grid:

Name	Polling service	Installed version	Disk space	Version
 172.16.110.2	IPD-A013990	1 	466 MB 	11.00.69
 XS5U	IPD-A013990	4 	141 MB 	11.00.68
 172.16.10.30	IPD-A013990	2 	1618 MB 	11.00.62
 XT 51740	IPD-A013990	5 	207 MB 	11.00.66

How to Add a Multicam Version on the Web Server


1. In the Install Versions tab, click the **Add Version** button.

The following window appears:

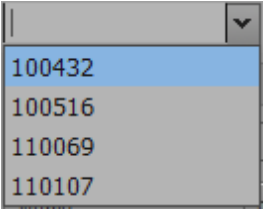


2. Click the **Browse** button to select the version file.
The selected file is displayed in the **Version** field.
3. Click the **Upload** button.
The version is added on the web server, provided that there are not yet 6 versions installed on the web server.

How to Install a Multicam Version on an EVS Video Server

1. In the Server Selection tree view, select the EVS video server(s) you want to install a Multicam version on.
2. In the Install Versions tab, click the arrow next to the  field.
The list of Multicam versions available on the web server is displayed.

3. Select a Multicam version from the drop-down list

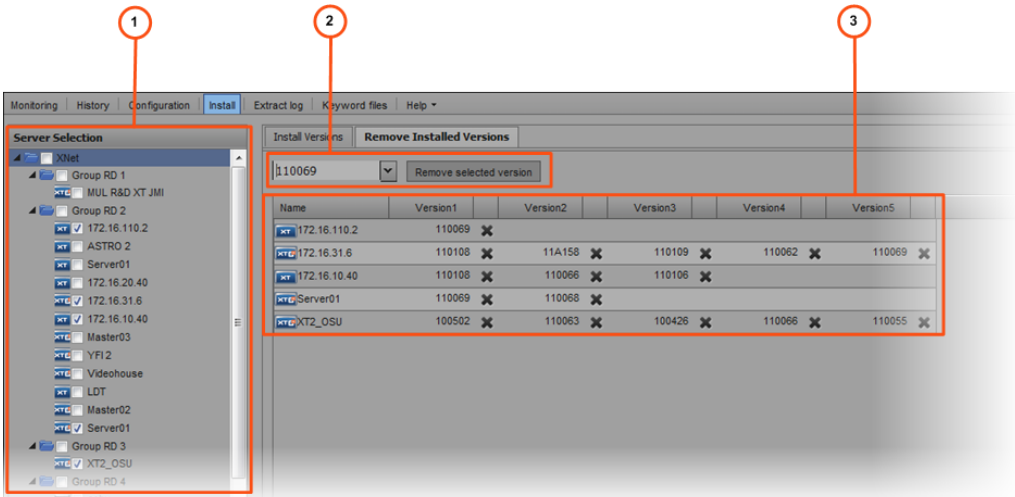


4. Click the **Install** button.
The Multicam version is installed on the selected servers, provided that none of the limitations has been met.
Otherwise, an alert is displayed and the **Retry** button is made available to start the installation again.

5.1.3. Description of the Remove Installed Versions Tab

Overview

The Remove Installed Versions tab available from the main Install window contains the areas highlighted on the following screenshot, and described in the table below:



Area Description

The table below describes the various parts of Remove Installed Versions tab:

Area	Name	Description
1.	Server Selection area	This area displays the list of monitored EVS servers from which Multicam versions can be removed.
2.	Version Removal buttons / fields	A series of buttons and fields is used in the removal process of Multicam version from a server. For a full description, see the table below.
3.	Servers List	This area displays the list of EVS servers selected in the Server Selection area. It lists all the Multicam versions installed on each server and allows the deletion of a version from an EVS server.

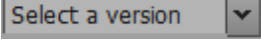
The table below describes the buttons and fields available in the Remove Installed Versions tab:

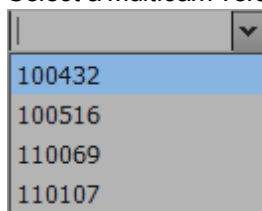
Button / Field	Description
Select a Version field	Used to select a Multicam version installed on an EVS server.
Remove Selected Version button	Used to remove, from all the selected EVS servers, the Multicam version selected in the field.

5.1.4. Removing an Installed Version

How to Remove a Multicam Version from the Web Server

To remove a Multicam version from the web server, proceed as follows:

- From the Install Versions tab, click the arrow next to the  field. The list of Multicam versions available on the web server is displayed.
- Select a Multicam version from the drop-down list




















- Click the **Remove Selected Version** button. The version is removed from the web server.

How to Remove a Multicam Version from an EVS Video Server

To remove a Multicam version on a single EVS video server, proceed as follows:

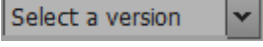
1. In the Server Selection tree view, select the EVS video server(s) you want to remove a Multicam version from.
2. Open the Remove Installed Versions tab.
The grid displays the versions installed on all the selected EVS servers.

Name	Version1	Version2	Version3	Version4	Version5
 172.16.110.2	110069 				
 XS5U	110065 	110064 	110067 	110068 	
 172.16.10.30	110053 	110062 			
 XT 51740	105011 	101202 	110066 	100207 	10Q207 

3. Click the **Remove** button  next to the Multicam version you want to remove on a specific server.

How to Remove a Multicam Version from all the EVS Video Servers

To remove a Multicam version on a single EVS video server, proceed as follows:

1. In the Server Selection tree view, select the EVS video server(s) you want to remove a Multicam version from.
2. From the Remove Installed Versions tab, click the arrow next to the  field.
The list of Multicam versions installed on EVS servers is displayed.
3. Select a Multicam version from the drop-down list.
4. Click the **Remove Selected Version** button.
The version is removed from all the EVS servers.


5.2. Remote Access to an EVS Server

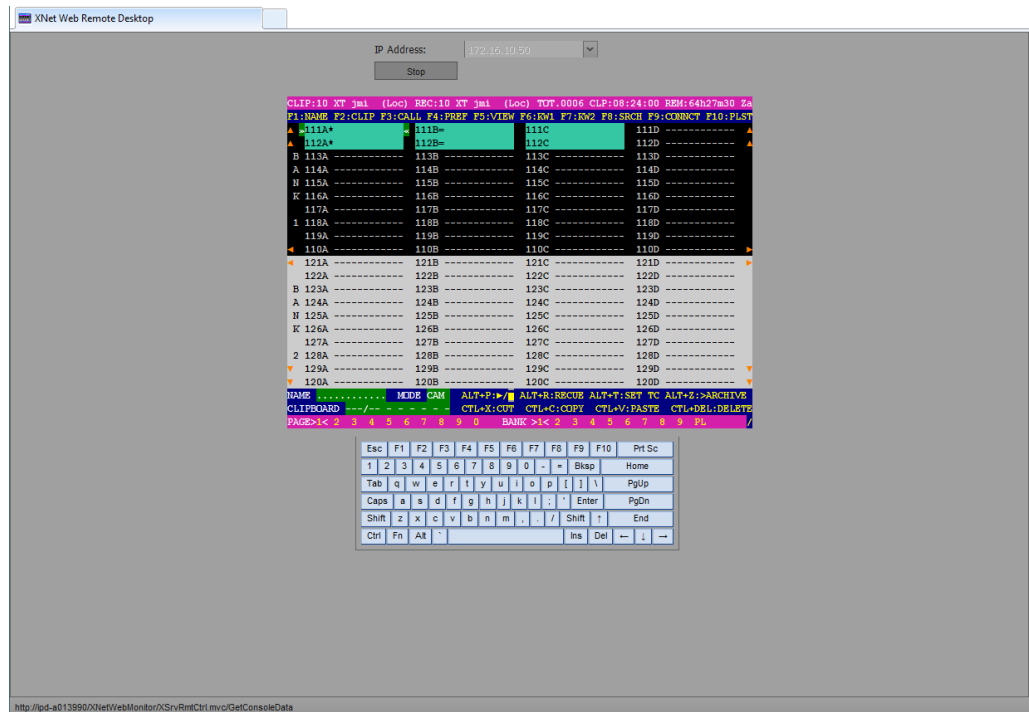
5.2.1. Accessing Remotely a Server Desktop

When you are logged on as an administrator, you can remotely access a server desktop.

To access remotely a server desktop, proceed as follows:

1. From the Monitoring window, select the server you want to access.

- Click the **XT server - Remote desktop** button . The Remote Desktop window opens:




From this window, you are able to navigate through Multicam exactly as if you accessed them from a keyboard.

5.2.2. Accessing the Multicam Web Setup

When you are logged on as an administrator, you can access the Multicam Web Setup page to change the server configuration.

To do so, proceed as follows:


- From the Monitoring window, select the server you want to access.
- Click the **XT server - Remote configuration** button . The Multicam Web Setup window opens. Refer to the Multicam Configuration manuals for more information.

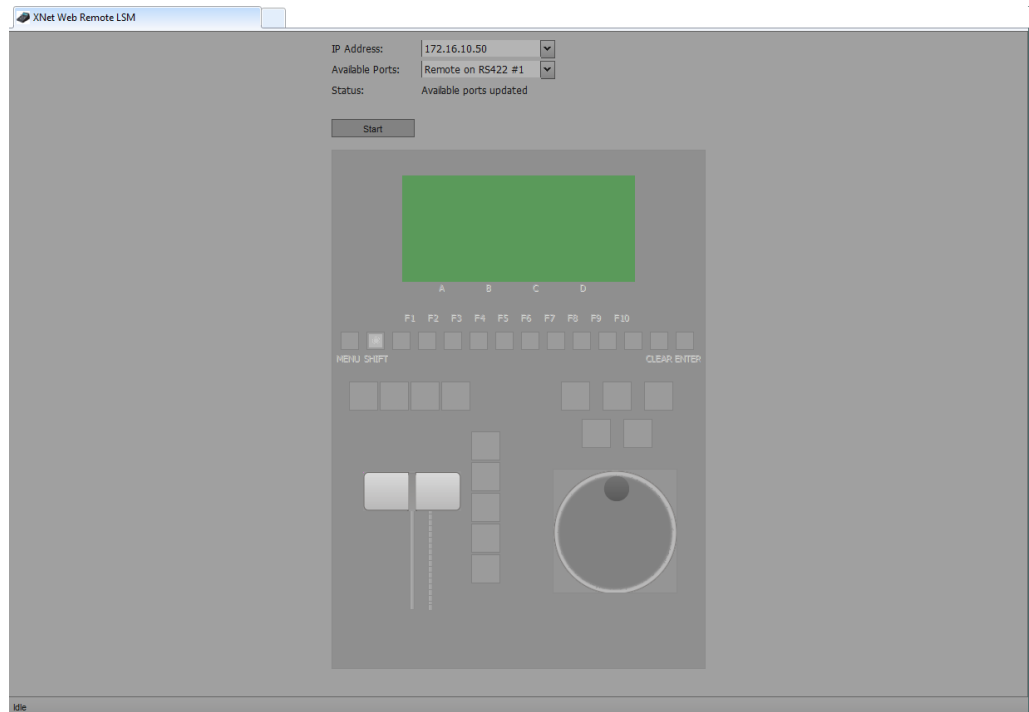
5.2.3. Accessing Remotely an LSM Remote Panel

When you are logged on as an administrator, you can take the control of an LSM Remote panel connected to a server. This command should however be used very carefully.

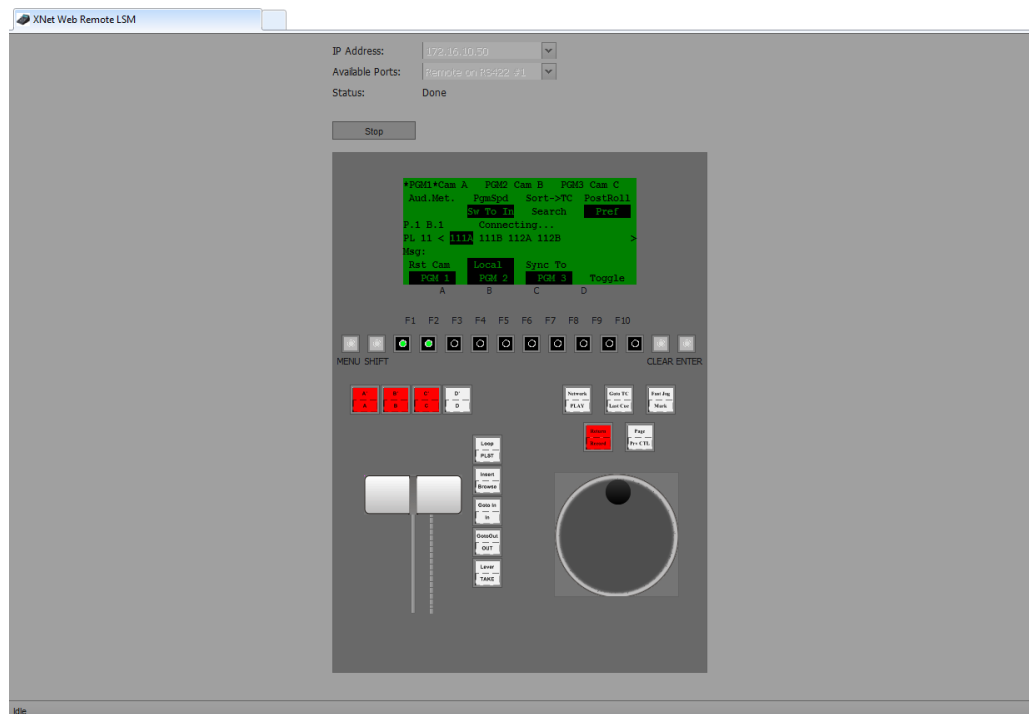
To access remotely an LSM Remote panel, proceed as follows:

- From the Monitoring window, select the server you want to access.

2. Click the **XT server - Remote control** button .
The Remote LSM window opens:



3. Once all the available ports have been updated, select the port corresponding to the remote LSM device from the **Available Ports** list.
4. Click the **Start** button to start the connection.
The window display represents the LSM Remote panel, from which you can use the different commands, in the same way as when you manipulate directly the LSM Remote panel.



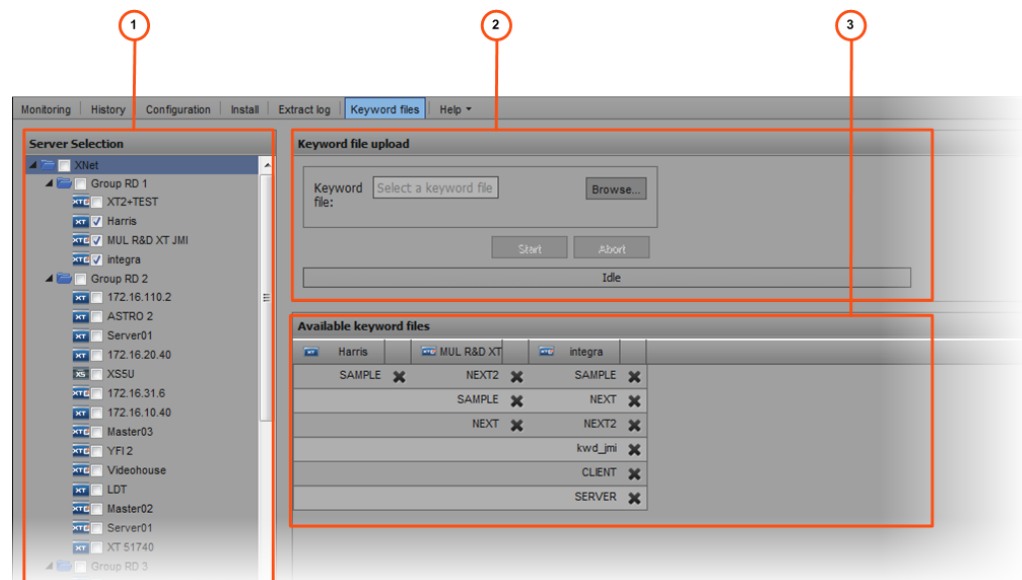
5.3. Keyword File Management

5.3.1. Description of the Keyword Files Window

Overview

The Keyword Files window makes it possible to manage the keyword files on EVS servers.

The Keyword Files window available from the menu bar contains the areas highlighted on the following screenshot below, and described in the table below:




Area Description

The table below describes the various parts of Keyword Files window:

Area	Name	Description
1.	Server Selection	This area displays the list of monitored EVS servers on which keyword files can be uploaded.
2.	Keyword File Upload	This area is used to select keyword files and to start the upload process. It also displays information on the progress of keyword files upload.
3.	Available Keyword Files	This area shows the keyword files already available on the EVS servers selected in the Server Selection area.

The table below describes the buttons and fields available in the Keyword file upload and Available Keyword Files panes:

Button / Field	Description
Keyword File field	Shows the keyword file name selected for upload.
Browse button	Used to select the keyword file to upload.
Start button	Used to start the keyword file upload on the selected EVS servers.
Abort button	Used to abort the keyword file upload process.
Upload Status field	Gives information on the upload process. 'Idle' on the above screenshot.
Remove button 	Used to delete the log file from the EVS server.

5.3.2. Uploading a Keyword File on an EVS Server

To upload a keyword file on an EVS server, proceed as follows:

1. In the Server Selection tree view, select the EVS video server(s) on which you want to upload keyword files.
The selected servers are displayed in the Available Keyword Files area, together with the keyword files already present on each server.
2. In the Keyword File Upload area, click the Browse button to select the keyword file.
The selected file is displayed in the **Keyword File** field.
3. Click the **Start** button.
The upload process of the keyword file begins on all the selected servers.
Once the upload is completed, the new keyword files are displayed in the Available Keyword Files area.

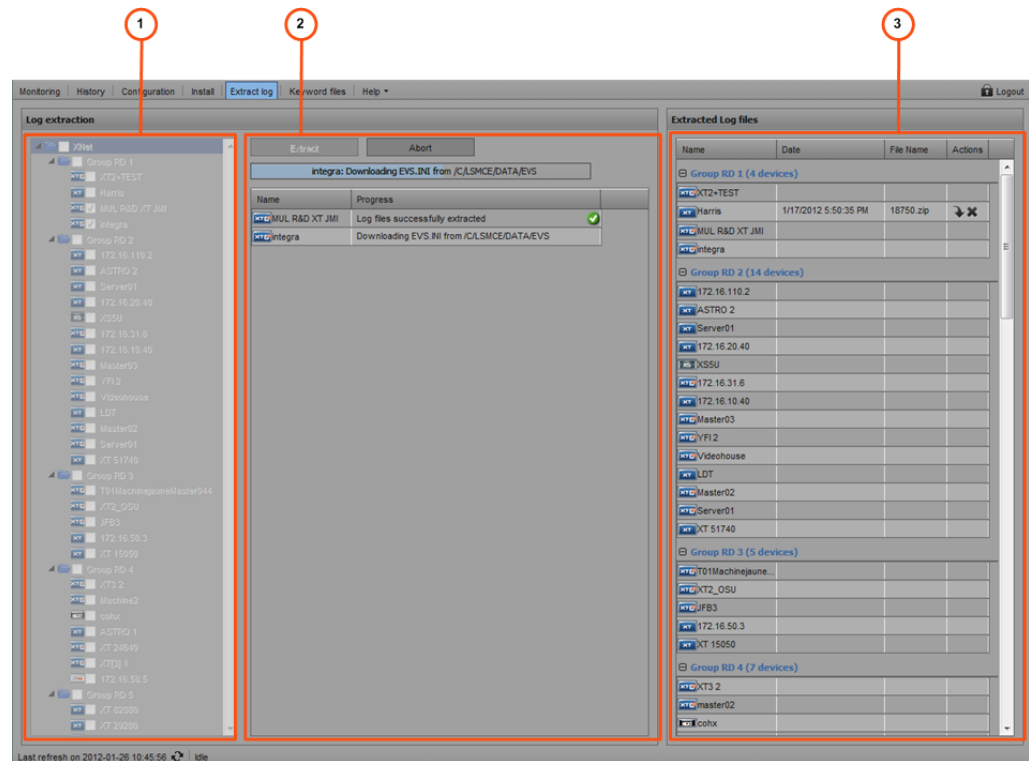
5.4. Server Log Extraction

5.4.1. Description of the Extract Log Window

Overview

The Extract Log window allows users to extract logs from the EVS servers and transfer them to the web server. The log files can then be downloaded from the web server for analysis.

The Extract Log window available from the menu bar contains the areas highlighted on the following screenshot, and described in the table below:





Area Description

The table below describes the various parts of Extract Logs window:

Area	Name	Description
1.	Server Selection area	This area displays the list of monitored EVS servers from which logs can be extracted.
2.	Log Extraction buttons / fields	This area is used to start the log extraction process and to display information on the progress of log extraction.
3.	Extracted Log Files grid	This area shows, for the EVS servers selected in the Server Selection area, the date of log extraction, the name of the extracted log file, and it provides buttons to download the file from the web server or to delete the log file.

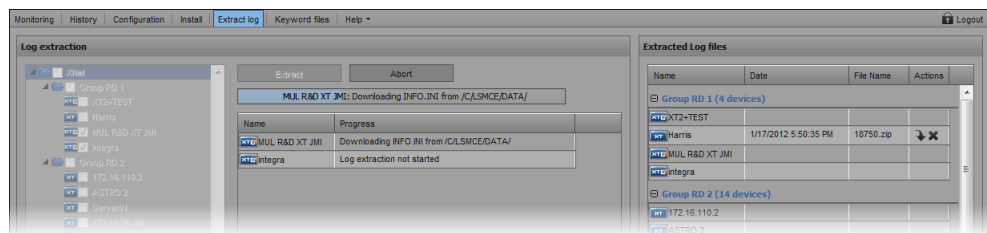
The table below describes the buttons and fields available in the Log Extraction and Extracted Log Files panes:

Button / Field	Description
Extract button	Used to start the log extraction from the selected EVS servers.
Abort button	Used to abort the log extraction process.
Extraction Status field	Gives information on the extraction process. 'Integra:Downloading EVS...' on the above screenshot.
Download button 	Used to download the log file from the web server.
Remove button 	Used to delete the log file from the web server.

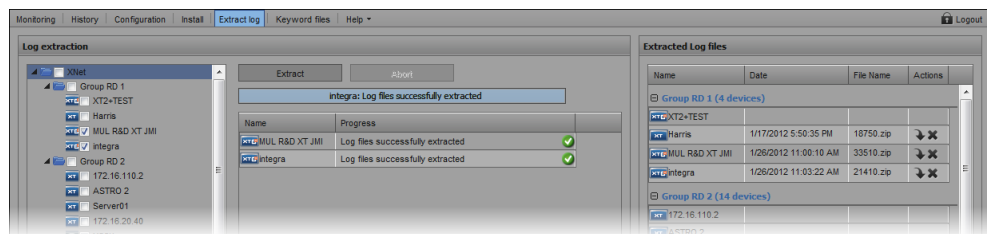
5.4.2. Extracting Logs from an EVS Server

To extract logs from an EVS Server, proceed as follows:

1. In the Server Selection tree view, select the EVS video server(s) you want to extract logs from.
2. Click the **Extract** button.
Logs are extracted for the selected servers one by one.



When the logs have been extracted for all selected EVS servers, the log extraction date and the name of the log file is displayed in the Extracted Log Files area.



Note

Only one log file per EVS server is available on the web server.

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