Honeywell

MAXPRO® VMS R300 Viewer Edition

Operator's Guide

Issue 1

Revisions

Issue	Date	Description
1.0	February 24, 2012	New document

Table of Contents

About MAXPRO® VMS R300 Viewer Edition

Introducing MAXPRO® VMS R300 Viewer Edition

MAXPRO® VMS R300 Viewer Edition is a scaled-down version of MAXPRO® VMS R300 Enterprise Edition software.

- One-stop solution - The software is tailored for monitoring multiple Honeywell's DVRs from a single client.
- DVR Support - The following four Honeywell DVRs are supported.
    - MAXPRO NVR
    - RapidEye
    - Fusion
    - HRXD
- **User Interface** - The user interface is based on the Honeywell's flagship MAXPRO VMS R300 Enterprise software..
- **Open Architecture** - The software is built using industry standard protocols and technologies.
- **Scalable** - The software can be upgraded to the MAXPRO VMS R300 Enterprise Edition by purchasing the appropriate license.
- **Easy-to-use Configuration pages** - The software provides flexible and easy to-use configuration pages that simplifies the discovery of cameras connected to Honeywell recorders.

Scope

This guide covers the basic video surveillance tasks that can be performed by an operator of MAXPRO VMS.

Intended Audience

This guide is intended for the operators of MAXPRO VMS.

MAXPRO VMS ARCHITECTURE

MAXPRO Viewer edition server and client can be installed on the same machine providing it meets the minimum hardware requirements. Additional clients can be connected to the server to a maximum of 5.

MAXPRO VMS CLIENT WORKSTATION

The user interface installed on a workstation acts as the client and enables you to monitor sites and configure the video devices such as cameras. Up to four digital monitors can be connected to each client workstation. .

MAXPRO VMS SERVER

The server consists of the trinity framework and database of all the connected recorders, users and system data. Typically the client is also installed on the server to allow local management if desired.

The trinity framework for MAXPRO VMS is designed to provide a central platform for video products such as Rapid Eye, Fusion, and Enterprise recorders. A central platform gives you the capability to manage diverse video products through the same user interface. This brings in the advantage of a similar look and feel across video products. Trinity is a service oriented framework, which means that each video product can use certain services and components from MAXPRO VMS. The long term objective of developing the service oriented trinity framework is to support more technologies and other video products in the future.

TYPOGRAPHICAL CONVENTIONS

This guide uses the conventions listed in the following table.

Font	What it represents	Example
Swiss721 BT	Words or characters that you must type. The word "enter" is used if you must type text and then press the Enter or Return key.	Enter the **password**.
	Menu titles and other items you select	Double-click **Open** from the **File** menu.
	Buttons you click to perform actions	Click **Exit** to close the program.
Trebuchet MS	Heading	**Installation**
	Cross-reference to external source	Refer to the ***System Administrator Guide***.
	Cross-reference within document	See *Installation*.

SYSTEM REQUIREMENTS AND LICENSING

1

SYSTEM REQUIREMENTS

The following tables list the system requirements for MAXPRO VMS server and client computers. MAXPRO VMS server and client can be installed on the same computer provided it meets the minimum hardware requirements. Additional clients can be connected to the server to a maximum of 5.

MAXPRO VMS Viewer Minimum System Requirements	
Processor	Intel Core® 2 Duo 3.00 GHz / Dual Core 3.00 GHz/1333 MHz/4 MB L2
Operating System	Microsoft® Windows XP Professional SP2 (32-bit only) or Microsoft® Windows 7 Professional (32-bit and 64-bit) Microsoft® Windows Server 2003 (32 bit) or Microsoft® Windows Server 2008 R2
RAM	4 GB
Secondary Storage	DVD-RW drive
Hard Disk	Minimum 100 GB Partition drive
Graphics Adapter	Display adapter - Direct X 9 compatible 256 MB per monitor or greater
Network connection	1Gbit/sec or greater
Video Resolution	1280x1024 pixels; 65K colors non-interlaced
Database	Microsoft SQL Express 2008 is automatically installed while installing MAXPRO VMS Server
Keyboard / Mouse	12 function-key keyboard and mouse

Note: The server computer must have a PCI Express (PCI-E) expansion card to connect the serial port card.

MAXPRO VMS Viewer Recommended System Requirements	
Processor	Intel Core® 2 Extreme 3.00 GHz / Quad Core 3.00 GHz/1333 MHz/12 MB
Operating System	Microsoft® Windows XP Professional SP2 (32-bit only) or Microsoft® Windows 7 Professional (32-bit and 64-bit) Microsoft® Windows Server 2003 (32 bit) or Microsoft® Windows Server 2008 R2
RAM	4 GB
Secondary Storage	DVD-RW drive
Hard Disk	Minimum 100 GB Partition drive
Graphics Adapter	Display adapter - Direct X 9 compatible 256 MB per monitor or greater
Network connection	1Gbit/sec or greater
Video Resolution	1280x1024 pixels; 65K colors non-interlaced
Database	Microsoft SQL Express 2008 is automatically installed while installing MAXPRO VMS Server
Keyboard / Mouse	12 function-key keyboard and mouse

VIEWING THE VERSION AND LICENSE INFORMATION OF MAXPRO VMS

You can view the version and license information of MAXPRO VMS from the user menu.

1. Click the **User menu**. The user menu options appear.

2. Click **About**. The version and license information of MAXPRO VMS displays.

3. Click **License**. The **License Management Console** dialog box appears.
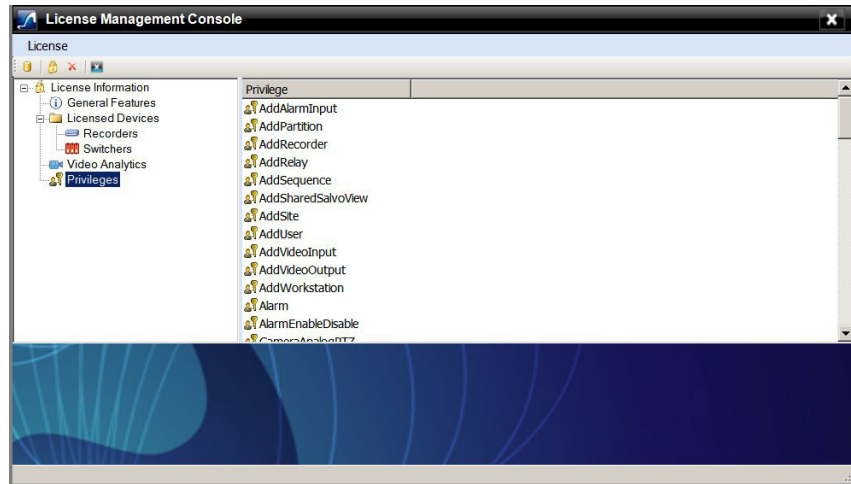
Figure 1-1   License Management Console

Note: Selecting the **Privileges** option on the left pane displays the list of default privileges that are included in the MAXPRO VMS R300 Viewer Edition software. To upgrade to a full functional MAXPRO VMS having all the privileges, you must purchase a license for MAXPRO VMS R300 Enterprise Edition.

GENERATING THE LICENSE FOR MAXPRO VMS

The MAXPRO VMS R300 Viewer Edition setup comes with a limited set of features (as it is a scaled down version of MAXPRO VMS R300 Enterprise Edition) and helps you to add up to 160 cameras across all Digital Video Recorders (DVR) and 5 clients. MAXPRO VMS R300 Viewer Edition currently supports four DVRs. To utilize all the features of MAXPRO VMS R300 Enterprise Edition, you need to purchase the appropriate license. You can purchase license for any number of cameras, and clients.

BEFORE YOU BEGIN

Procure the voucher number from the MAXPRO VMS sales support team. To contact the MAXPRO VMS sales support team, USA customers go to the URL: http://www.honeywellvideo.com/contact/sales/index.html and European customers send an email to HISHelp.Europe@honeywell.com.

To purchase and install MAXPRO VMS license

1. Click the **About** option in the user menu. The **About MAXPRO Video Management System** dialog box appears.

2. Click **License**. The **License Management Console** dialog box appears.

Figure 1-2   License Management Console

3. In the **License** drop-down list, select **Generate Host ID** File. The **Browse For Folder** dialog box appears.

4. Select the path where you want to generate Host ID file, and then click **OK**.

Note: Host ID is a unique ID generated for the computer.

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5. Send the Host ID file with the voucher number as the subject videolicenserequests@honeywell.com through email. For example, if the

voucher number is 4356-6754-0000-78556-985436 type, VOUCHID: 4356-6754-0000-78556-985436 in the subject.

6. Honeywell reverts with a unique license certificate to your email. Copy the file and paste it in a folder.

7. Perform *step 1* and *step 2* and then select **Install License** in the **License** drop-down list. The **New License Configuration Wizard** dialog box appears.

8. Click **Next**. The **Locate Your License File** dialog box appears.

9. Click the **Browse** button to locate your license certificate, and then click **Next**. The **License Comparison** dialog box appears.

10. The **License Comparison** dialog box displays the details of the existing license and the newly procured license. Compare the columns Existing License and Selected License corresponding to General Features and Devices, and then click **Next**. The **Device Configuration Changes** dialog box appears.

> **Note:** Any discrepancy in the license must be notified to Honeywell Sales Support. For example, the maximum supported cameras row under Selected License column displays the number of cameras for which the license is purchased. If the number of cameras is less or more than number of cameras for which the license was purchased, contact the Honeywell Sales Support immediately.

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11. Check for the accuracy of details, and then click **Next**. The **Confirm New License** dialog box appears.

12. Click **Finish**. The **New License Configuration** Wizard dialog box appears.

13. Click **Yes**.

TERMINATING THE LICENSE

You can terminate the license when you do not want to use MAXPRO VMS or when you want to use the existing license on a different computer.

To terminate license

1. Click the **About** option in the user menu. The **About MAXPRO Video Management System** dialog box appears.

2. Click **License**. The **License Management Console** dialog box appears.

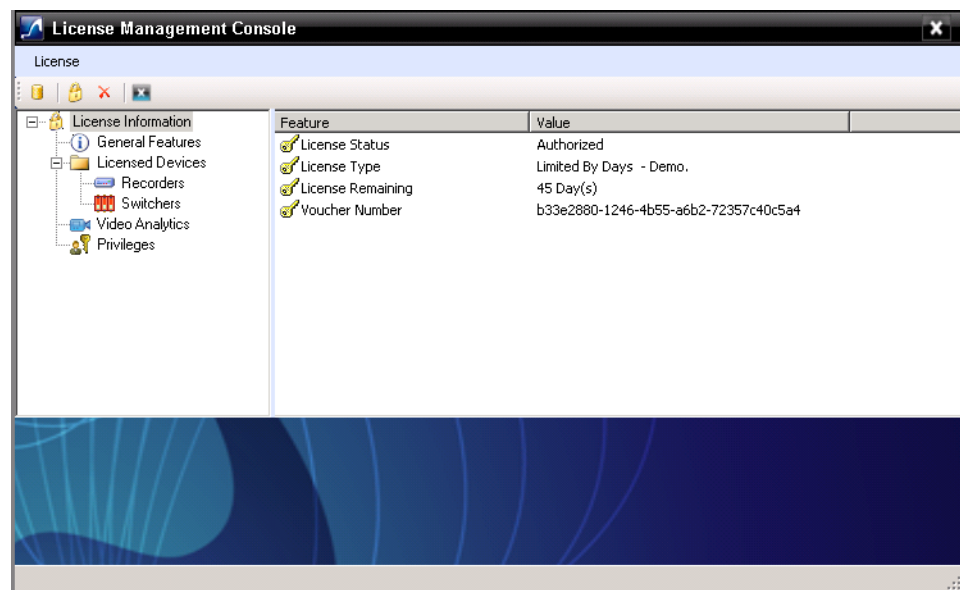3. In the **License** drop-down list, select **Terminate License**. A message asking for confirmation appears.

4. Click **Yes**. The **Browse for Folder** dialog box appears.

5. Select the path to save license terminate certificate file.

To use the existing license in a new computer

1. Generate the Host ID file for the new computer.

2. Send the Host ID file, license terminate certificate file, and the voucher number to videolicenserequests@honeywell.com.

3. Honeywell reverts back with a unique license certificate. Copy the file and paste it in a folder.

4. Perform *step 9* through *step 13* of the **To purchase and install MAXPRO VMS license** procedure.

Note: You can upgrade the number of clients and cameras by purchasing the upgrade license. Upgrade license helps you to add more clients and cameras along with the existing clients and cameras. You can also purchase supersede license if you do not want to continue with the existing clients but add new clients to the MAXPRO VMS unit.

To use the existing license in a new computer

1. Generate the Host ID file for the new computer.
2. Send the Host ID file, license terminate certificate file, and the voucher number to videolicenserequests@honeywell.com.
3. Honeywell reverts back with a unique license certificate. Copy the file and paste it in a folder.
4. Perform *step 9* through *step 13* of the **To purchase and install MAXPRO VMS license** procedure.

Note: You can upgrade the number of clients and cameras by purchasing the upgrade license. Upgrade license helps you to add more clients and cameras along with the existing clients and cameras. You can also purchase supersede license if you do not want to continue with the existing clients but add new clients to the MAXPRO VMS .

LOG IN AND FAMILIARIZATION

LOGGING ON USING PROFILES

The MAXPRO VMS server addresses are saved in profiles. You need to select the profile before logging on. You can set a profile as the default profile. When a profile is set as default, you do not need to select the profile each time you log on to MAXPRO VMS. You can also modify and delete profiles.

LOGGING ON TO MAXPRO VMS

1. Double-click [icon] in the desktop. The **Log On** dialog box appears.

   or

   Click **Start -> Programs -> Honeywell -> MAXPRO VMS**. The **Log On** dialog box appears.
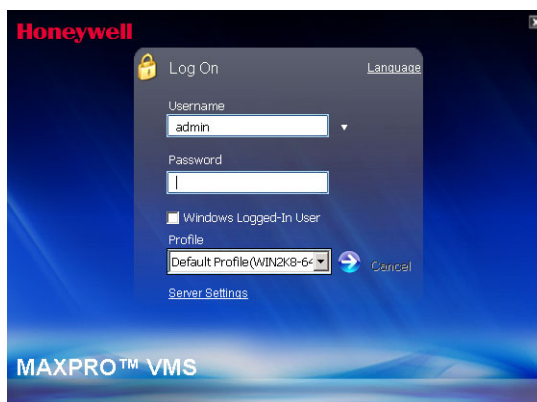
Figure 2-1   MAXPRO VMS Log on

2. Click the **Language** option, and then select the required language.

3. In the **User Name** box, type the user name. The default user name is "Admin".

4. In the **Password** box, type the password. The default password is "trinity".

> **Note:** Select the **Windows Logged-In** User check box for logging on using the Windows user name and password. If the Windows Logged-In User check box is cleared, the MAXPRO VMS user name and password is used for authentication.

5. In the **Profiles** box, select the profile corresponding to the MAXPRO VMS server you want to connect to and press **ENTER** or click the ⬛ icon.

SAVING A SERVER ADDRESS IN A PROFILE

1. In the client workstation, double-click the ⬛ icon in the desktop to display the **Log On** dialog box.
2. Click **Server Settings**. The **Server Settings** dialog box appears.

Figure 2-2   Server Settings

3. Click **Add.**
4. In the **Profile Name** box, type a name to identify the profile.
5. In the **Server IP/Name** box, type the numerical IP address or the network name of the MAXPRO VMS server.
6. Click **Save**.
7. Click **OK**. The server address is saved in the profile.

> **Note:** You can click **Set Default** to set the profile as default profile.

SETTING THE DEFAULT PROFILE
To set the default profile

1. Select the profile you want to set as default before logging on to MAXPRO VMS.
2. In the user menu, click **Profiles** and select **Set Default Profile**. The profile is set as the default profile. The default profile appears selected in the **Profile** box in the **Log On** dialog box.

MODIFYING A PROFILE

You can modify the profile name and the server address saved in the profile.

To modify a profile

1. In the client workstation, double-click the ![icon] icon in the desktop to display the **Log On** dialog box.

2. Click **Server Settings**. The **Server Settings** dialog box appears.

3. In the **Choose Profile** box, select the profile you want to modify. The profile details appear under **Configuration** in the **Server Settings** dialog box.

4. In the **Profile Name** box, you can change the profile name.

5. In the **Server IP**/**Name** box, you can change the server address.

6. Click **Save**.

7. Click **OK**.

DELETING A PROFILE

To delete a profile

1. In the client workstation, double-click the ![icon] icon in the desktop to display the **Log On** dialog box.

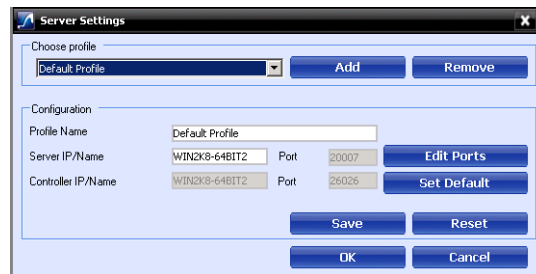2. Click **Server Settings**. The **Server Settings** dialog box appears.

3. In the **Choose Profile** box, select the profile you want to delete.

4. Click **Remove**.

5. Click **OK**. The profile is deleted.

LOGGING OFF

You can log off from MAXPRO VMS from the user menu. The name of the currently logged in user is displayed as the user menu on the top right of each screen.

To log off from MAXPRO VMS

1. Click the **User menu**. The user menu options appear.

2. Click **Log Off**. The log on dialog box is displayed after logging off from MAXPRO VMS.

CLOSING THE MAXPRO VMS USER INTERFACE

You can close the MAXPRO VMS user interface from the user menu. The name of the currently logged in user is displayed as the user menu on the top right of each screen.

To close the MAXPRO VMS user interface

1. Click the **User menu**. The user menu options appear.

2. Click **Exit**. A dialog box appears prompting you to confirm the action.

3. Click **Yes**.

FAMILIARIZING WITH THE MAXPRO VMS USER INTERFACE

The user interface of MAXPRO VMS is easy-to-use because of its intuitive icons and user friendly features. You can monitor the sites and configure the devices in the video surveillance network through the MAXPRO VMS user interface. The user interface consists of tabs, tree-structures, status bar, floating windows, and icons. On opening the user interface, you see five tabs, namely the **Viewer**, **Configurator**, **Search**, **Report** and **Help**. Based on the tab you select, windows, tree structures, and other settings relevant to the tab appear on the screen.

A status bar is displayed in the lower part of the user interface. The status bar indicates the connection status with the MAXPRO VMS server and controller, the MAXPRO VMS server name, status of clip creation, role of the user, number of unacknowledged alarms, number of messages sent to you, the CPU usage, and time. In addition, you can turn on the Virtual Keyboard feature to select salvo layouts, panels, cameras, and monitors.

VIEWER TAB

The following figure illustrates the **Viewer** tab.
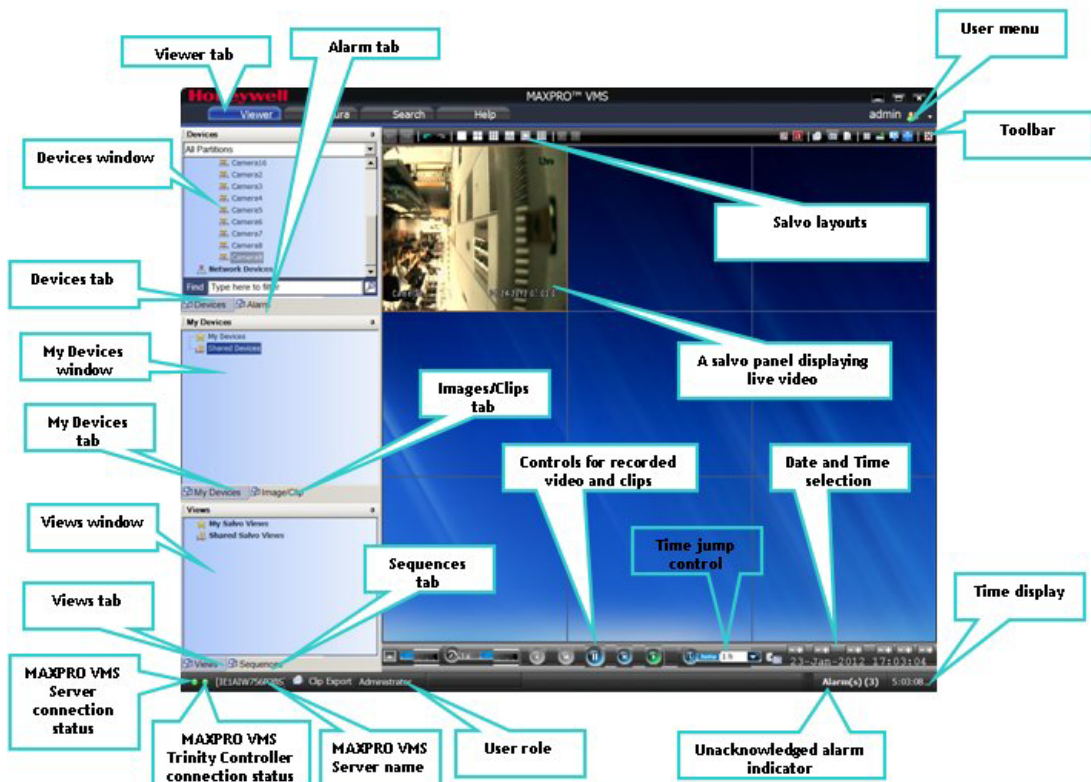
Figure 2-3   Viewer tab

The following components are displayed on the screen.

Component	Description
Devices window	A floating window that displays recorders, switchers, and cameras in a tree structure. You can select one or more devices from the **Devices** window to view video in the Salvo Layout. A drop-down list on the top of the **Devices** window lists the partitions. You can select a partition in the drop-down list to view the devices from the particular partition. Selecting the All Partitions option in the drop down box displays the devices from all the partitions in the tree view. The status of the devices also appear in the window. See . You can right-click on the devices to display context menu. **Intellisense search** The Intellisense search option makes the search of cameras simpler and easier. When a part of the camera name is types in the text box, the Intellisense search displays the list of cameras that are connected to various recorders in the **Devices** window. For example, if you are searching for Camera 2 connected to particular recorder, then type **Ca** in the text box, the list of camera names that contain 'ca' are displayed. Intellisense search also supports wild characters while searching. For example, • ca* — camera names that begins with the 'ca' are displayed. • *ca — camera names that ends with the 'ca' are displayed. • *ca* — camera names that contain the 'ca' are displayed. • ! ca — cameras that does not have 'ca' in their name are displayed. Select the required filter string and click on the filter button.You can toggle between the **Filter On** and **Off** mode using the option 🔍 or right-click 🔍 , and select between Filter ON and Filter OFF. The hot key to activate intellisense search is **F4**.

Component	Description
Devices window continued...	The context menu options in the **Devices** window include: • **Show Live** - to view live video. • **Show Device ID** - to display the device ID. The ID is specified while adding the device and is useful to perform operations using virtual keyboard. • **Hide Device ID** - to hide the display of device ID. • **Remove** - to remove the device from the list. • **Refresh** - to refresh the camera status. • **Refresh from Device** - to refresh the camera status from device. • **Reload Device** - to reload device. • **Group By -** to group the cameras based on the site or device. • **Sort By** - to sort the list of devices by name or callup number. By default, names and callup numbers are sorted in ascending order. • **Add to MyDevices** - to add devices to MyDevices. • **Collapse All** - to collapse the device tree. • **Expand All** - to expand the device tree.
Alarm Window	Click to display a floating window that lists the alarms. You can acknowledge and clear the alarms from this window.
Image/Clip Window	Click to display a floating window that lists the images and clips in a tree structure. You can select the images and clips to view. You can right-click on the images folder or the images to display context menu. The context menu options include: • **Refresh** - to refresh the images/clips in the respective folder. • **Image View** - to view the images. • **Show In Folder** - to view the folder in which the images are stored. • **Delete** - to delete an image.

Component	Description
My Devices Window	A floating window that lists in a tree structure, the devices such as cameras, monitors, and sequences. You can drag and drop devices from the Devices, Sequences and Monitors window to MyDevices window You can group these devices according to your preferences in separate folders. **To create a folder** 1. Right-click on **MyDevices** or **SharedDevices** in the **My Devices** window and select **Add New Folder**. A new folder appears with a default name. 2. Type a name for the folder and press **ENTER**. This feature is useful to group video sources which are frequently selected. The video sources can be selected easily when needed instead of looking in the **Device** window which generally consists of many video sources. The status of the devices also appear in the window. The devices are displayed only when the user who included the devices in **My Devices** window logs on. You can copy a device from **MyDevices** to **Shared Devices** and from **Shared Devices** to **MyDevices** using the drag and drop option. Devices grouped under shared devices are displayed on all client workstations irrespective of the logged in user. To group devices under **SharedDevices**, drag and drop the devices from **MyDevices**. Similarly you can drag and drop to copy devices from **SharedDevices** to **MyDevices**. This ensures that you retain the device even if an operator deletes the device in **SharedDevices**.

Component	Description
My Devices window continued...	You can right-click on the devices to display a context menu. The context menu options include: • **Show Live** - to view live video. • **Snapshot View** - to view the snapshots from the recorded video. You can view the snapshots from 1 second, 5 seconds, 15 seconds, 1 minute, 5 minutes, 15 minutes, 30 minutes, 45 minutes, 1 hour, 3 hours, 6 hours, 12 hours, and 1 day. • **Show Device ID** - to display the device ID. The ID is specified while adding the device and is useful while performing PTZ or using virtual keyboard. • **Hide Device ID** - to hide the display of device ID. • **Remove** - to remove the device from the list. • **Refresh** - to refresh the camera status. • **Refresh Tree** - to refresh the tree list. • **Refresh from Device** - to refresh the camera status from device. • **Sort By Name** - to sort the list of devices by name. By default, names are sorted in ascending order.
Sequences window	Click to display a floating window that lists the sequences. You can play the sequence using the play sequence action. You can right-click on the devices to display a context menu. The context menu options include: • **Play Sequence** - to play any sequence. • **Show Sequences ID** - to display the device ID. The ID is specified while adding the device and is useful to perform operations using virtual keyboard. • **Add to My Devices** - to add sequences to **My Devices** list. • **Sort By Name** - to sort the list of sequences by name. By default, names are sorted in ascending order.

Component	Description
Views window	A floating window that lists the salvo views. View window consists of **My Salvo Views** and **Shared Salvo Views**. Salvo views corresponding to the logged on user are listed under **My Salvo Views** in **Views** window. You can copy a salvo view from **My Salvo Views** to **Shared Salvo Views** using the drag and drop option or right-click and select **Add to Shared Salvo Views**. Similarly, you can copy a salvo view from **Shared Salvo Views** to **My Salvo Views** using the drag and drop option. Devices grouped under **Shared Salvo Views** are displayed on all client workstations irrespective of the logged in user.
	To add a salvo view to **Shared Salvo Views**, right-click on a salvo view, and then click **Add to Shared Salvo Views**. You can copy a salvo view from **Shared Salvo Views** to **My Salvo Views** by dragging and dropping a salvo view.
	You can right-click on the devices to display a context menu. The context menu options include: **Show** - to view the salvo view. **Rename** - to rename a salvo view. **Remove** - to remove a salvo view. **Save** - to save a salvo view. **Add to Shared Salvo Views** - to add a salvo view to the Shared Salvo views. **Show Device ID** - to display the device ID. The ID is specified while adding the device and is useful to perform operations using virtual keyboard. **Hide View ID** - to hide the display of device ID. **Refresh** - to refresh the salvo views in the list. **Sort By Name** - to sort the list of salvo views by name. By default, names are sorted in ascending order.
Salvo Layout	An arrangement of panels in which video is displayed.
Timeline window	A window that enables you to view recorded video from a specific date and time. It also consists of other features such as loop playback of video using mark in and mark out. You can also create clips from video recordings. You can select between the scrub mode or full timeline mode using the ☒ icon.

CONFIGURATOR TAB

The following figure illustrates the **Configurator** tab.
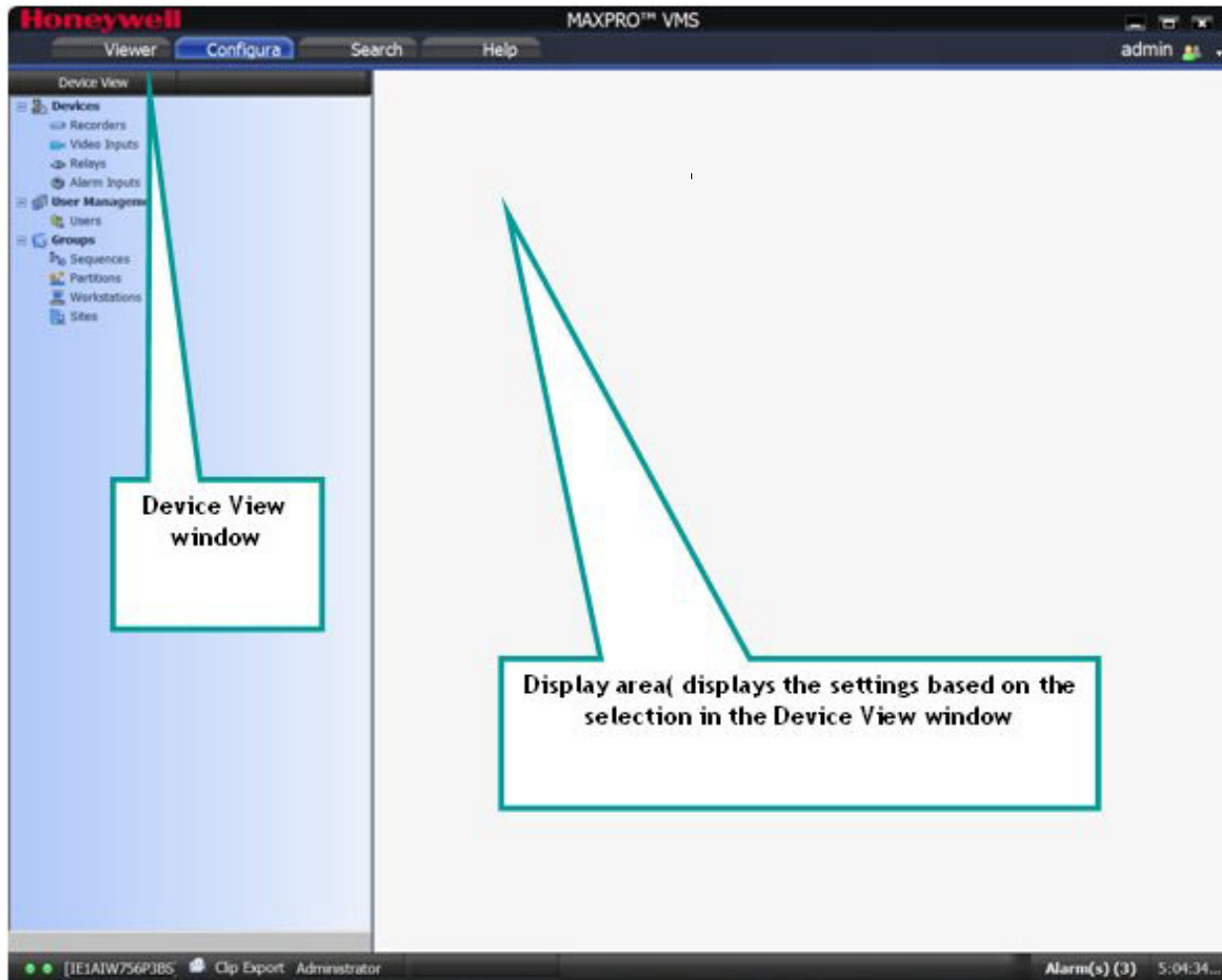
Figure 2-4   Configurator tab

The settings in the **Configurator** tab enable you to add and configure the video devices and setup the MAXPRO VMS system.

Components	Description
Device View Window (Navigation Area)	Displays branches in a tree structure namely, **Devices**, **User Management**, and **Groups**. Each branch can be expanded to display more items. For example, the **Devices** branch when expanded displays items such as Recorders and Cameras. Selecting an item displays the relevant settings in the display area. For example selecting the Recorders displays the settings to add, update, and delete recorders.
Display Area	Displays the settings based on your selection in the **Device View** window.

SEARCH TAB

The following figure illustrates the **Search** tab.
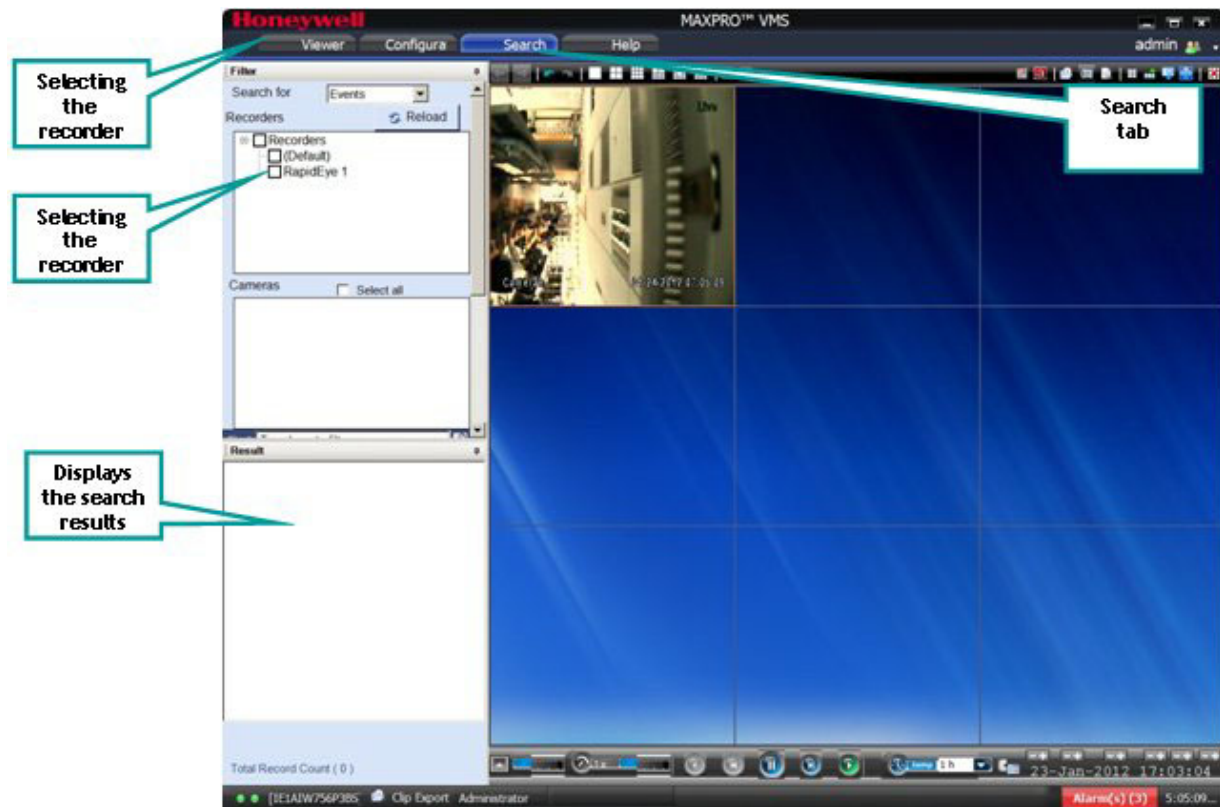
Figure 2-5   Search tab

You can search for recorded video and events from various recorders from the **Search** tab.

HELP TAB

Select the Help tab to display the online help for working with MAXPRO VMS

SETTING PREFERENCES

The Preferences option in the user menu enables you to configure the general settings and the On Screen Display (OSD) settings. In general settings, you can configure the frame rate for panels that are not selected in the salvo layout, the video rendering settings, the video to be displayed for alarms, and the alarm threshold settings. The OSD settings can be configured to change the font properties like type, color, and size for the text that appears over the video displayed in a panel.

You can also select the default values for the general and OSD settings using the **Preferences** option.

SETTINGS FOR VIDEO RENDERING

There are two types of rendering modes namely, **Default** and **No Video Display**. The Default rendering is the recommended mode which enables the user to view live video from multiple cameras at optimum quality. Selecting No Video Display will not display any video. You can also set the frame rate for panels that are not selected in the salvo layout. The frame rate for the panels that are not selected can be set to improve the video signal transmission over lower bandwidth networks.

To select the video rendering option

1. Click the **Preferences** option in the user menu. The **Preferences** dialog box is displayed. By default, the **General Settings** tab is selected.
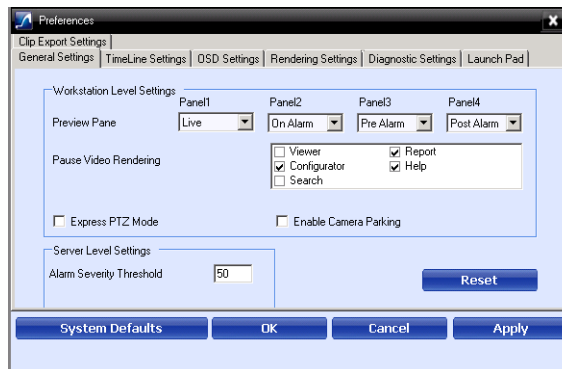
Figure 2-6   Preferences

2. Click the **Rendering Settings** tab.
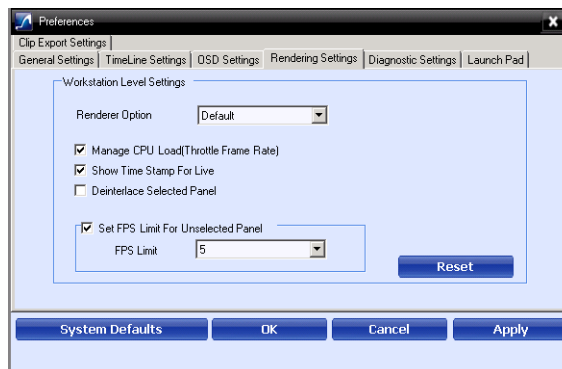
Figure 2-7   Rendering Settings

3. In the **Renderer Option** drop-down list, select one of the options for video rendering.

4. Select the **Mange CPU Load** (Throttle Frame Rate) check box if you want to throttle the frame rate if the CPU usage reaches 90 per cent.

5. Select the **Show Time Stamp For Live** check box if you want the camera name and time to be displayed on the live video.

6. Select the **Deinterlace Selected Panel** check box if you want to deinterlace the selected panel.

7. Select the check box beside **Set FPS Limit For Unselected Panel**.

8. In the **FPS Limit** box, select a frame rate. The default frame rate is 5 fps and is the recommended setting for unselected panels.

9. Click **Apply**.

10. Click **OK** to close the dialog box.

PAUSING THE VIDEO RENDERING

You can pause the video rendering to momentarily stop the rendering of video when a tab that does not display video is selected. For example, when the **Report** tab is selected, the video rendering can be paused to improve the application performance. The rendering of video starts again when you select a different tab in the user interface.

To select the tab which pauses video rendering

1. Click the **Preferences** option in the user menu. The **Preferences** dialog box is displayed. By default, the **General Settings** tab is selected.

2. In the **Pause Video Rendering** box, select the check box next to the tab names that you want to select.
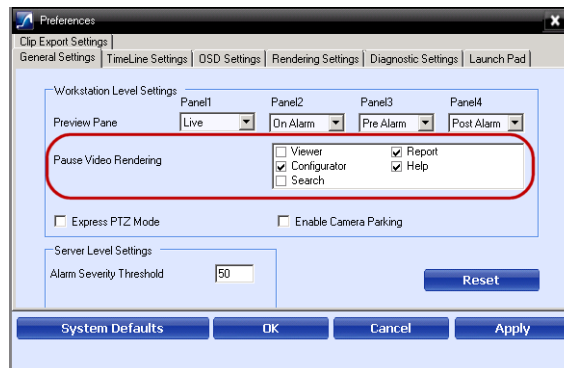
Figure 2-8   Pausing the Video Rendering

3. Click **Apply**.

4. Click **OK** to close the dialog box.

To enable the display of controller text on digital monitor

5. Click the OSD Settings tab.
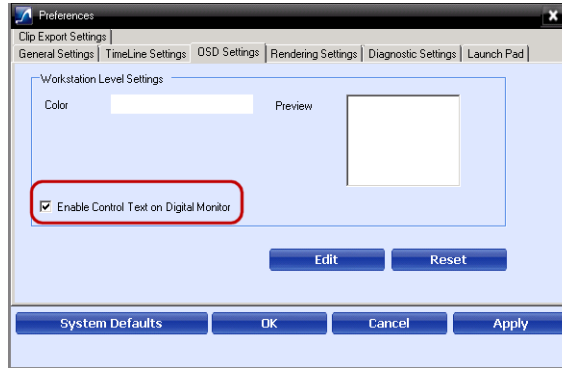
Figure 2-9   Enabling Control text on Digital Monitors

6. Select the **Enable Control Text on Digital Monitor** check box to display controller text on digital monitor.

EXPRESS PTZ MODE

This feature helps you to perform pan, tilt and zoom operations by marking an area of interest on the live video using the rubber band technique. You can perform only analog PTZ operations using this technique.

To enable the express PTZ mode

1. Click the **Preferences** option in the user menu. The **Preferences** dialog box appears. By default, the **General Settings** tab is selected.
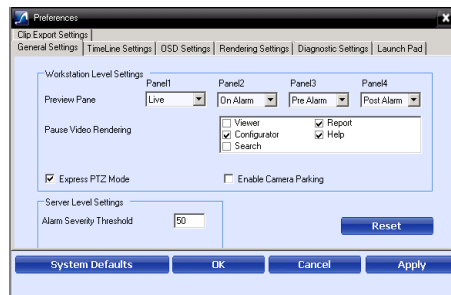

Figure 2-10   Enabling the Express PTZ Mode

2. Select the **Express PTZ** Mode check box to enable the Express PTZ Mode feature

SETTINGS FOR ALARM PREVIEW PANE

When the video related to an alarm is played from the **Alarm** window, the salvo layout changes to a four panel layout. You can define the video display for each

panel namely, Pre Alarm, Post Alarm, Live, and On Alarm. The following table defines these options.

Option	Description
Pre Alarm	The video before the occurrence of the event that triggered the alarm is played.
Post Alarm	The video after the occurrence of the event that triggered the alarm is played.
Live	Live video is played.
On Alarm	The video is played from the occurrence of the event that triggered the alarm.

To define the video display for each preview panel

1. Click the **Preferences** option in the user menu. The **Preferences** dialog box is displayed. By default, the **General Settings** tab is selected.
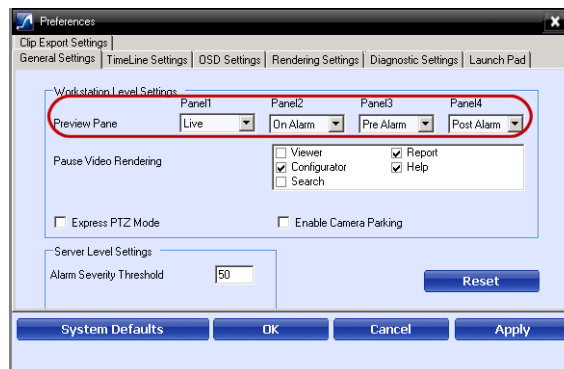
Figure 2-11   Settings for the Alarm Preview Pane

2. In the **Preview Pane** box, select the video option for each panel. When you select Pre Alarm and Post Alarm, a dialog box appears. Select the time in seconds for which you want to view video related to pre alarm and post alarm in the dialog box and click OK.

3. Click **Apply**.

4. Click **OK** to close the dialog box.

SETTING THE ALARM THRESHOLD VALUE

When configuring the event settings for a recorder, camera, and switcher, you can specify a value known as the Severity Level for each event. When the event occurs, the Severity Level value is compared with the value in the Alarm Severity Threshold box in the preferences dialog box. The alarm is triggered only when the Severity Level value is greater than the Alarm Severity Threshold value.

For example, the alarm is triggered if the Severity Level for an event is 50 and the Alarm Severity Threshold value is 40. Use this feature to limit what alarms go to which client.

To set the alarm severity threshold value

1. Click the **Preferences** option in the user menu. The **Preferences** dialog box is displayed. By default, the **General Settings** tab is selected.

2. In the **Alarm Severity Threshold** box, type a value.

3. Click **Apply**.

4. Click **OK** to close the dialog box.

## CONFIGURING THE OSD SETTINGS

You can configure the OSD settings to change the properties such as type, color, and size of the text that appears over the video displayed in a panel.

To set the font properties

1. Click the **Preferences** option in the user menu. The **Preferences** dialog box is displayed.

2. Click the **OSD Settings** tab.
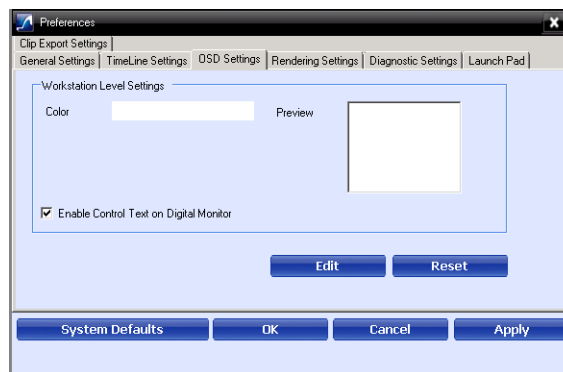
Figure 2-12   OSD Settings

3. Click **Edit** and select the font and color properties in the dialog box.

4. Click **OK** to close the font properties dialog box.

5. Click **Apply** in the preferences dialog box.

6. Click **OK** to close the preferences dialog box.

CONFIGURING THE TIMELINE SETTINGS

To configure the timeline settings

1. Click the **Preferences** option in the user menu. The **Preferences** dialog box is displayed.

2. Click the **Timeline Settings** tab.
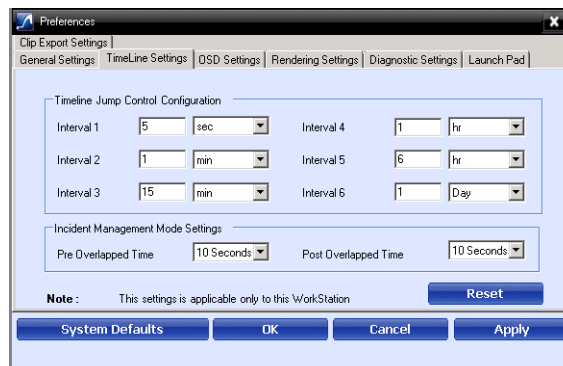
Figure 2-13   Timeline Settings

3. Under **Timeline Jump Control Configuration**, set the time for the intervals.

4. Under **Incident Management Mode Settings**, choose the following times for clip creation.

   • From the **PreOverlapped Time** drop down list, select a time that appends to the start time of clip creation for a camera.

   • From the **Post Overlapped Time** drop down list, select a time that appends to the end time of the clip creation for a camera.

Note: This time allows camera recorded time to automatically have an overlap when marking in and marking out.

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5. Click **Apply** in the **Preferences** dialog box.

6. Click **OK** to close the **Preferences** dialog box.

CONFIGURING DIAGNOSTIC SETTINGS

To configure the diagnostic settings

1. Click the **Preferences** option in the user menu. The **Preferences** dialog box is displayed.

2. Click the **Diagnostic Settings** tab.
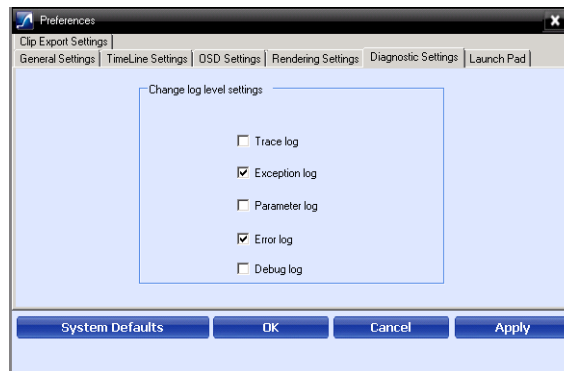
Figure 2-14   Diagnostic Settings

3. Under **Change log level** settings, select the required log.

4. Click **Apply** in the **Preferences** dialog box.

5. Click **OK** to close the **Preferences** dialog box.

CONFIGURING THE CLIP EXPORT SETTINGS

You can configure the Clip Export Settings to change the default naming convention for the clips that are created from the recorded video.

To configure the clip export settings

1. Click the **Preferences** option in the user menu The name of the currently logged in user is displayed as the user menu on the top right of each screen.. The **Preferences** dialog box appears.

2. Click the **Clip Export Settings** tab.
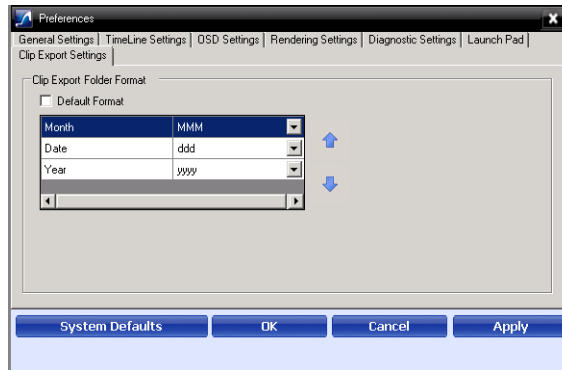
Figure 2-15   Clip Export Settings

3. Select the **Default Format** check box to apply the default naming convention for the clips.

4. To change the default naming convention:
   • Select the desired formats for **Month**, **Date**, and **Year**.
   • Use the ⬆ to arrange the **Month**, **Date**, and **Year** in the order of your choice. ⬇

5. Click **Apply** and then **OK** to save the data

DEFAULT SETTINGS

1. Click **Reset** to apply default settings while setting preferences.

2. Click **System Defaults** to apply the system default settings while setting preferences.

SETTING PROFILES

After logging in to the MAXPRO VMS user interface, you can adjust the floating windows to your desired position in the MAXPRO VMS user interface using the "Custom Profile" option. The profile settings that you have made persist when you switch between the different tabs in the user interface and while logging on and logging off the MAXPRO VMS user interface.

To set a custom profile

1. Choose the **Profile**>**Custom Profile** option in the user menu
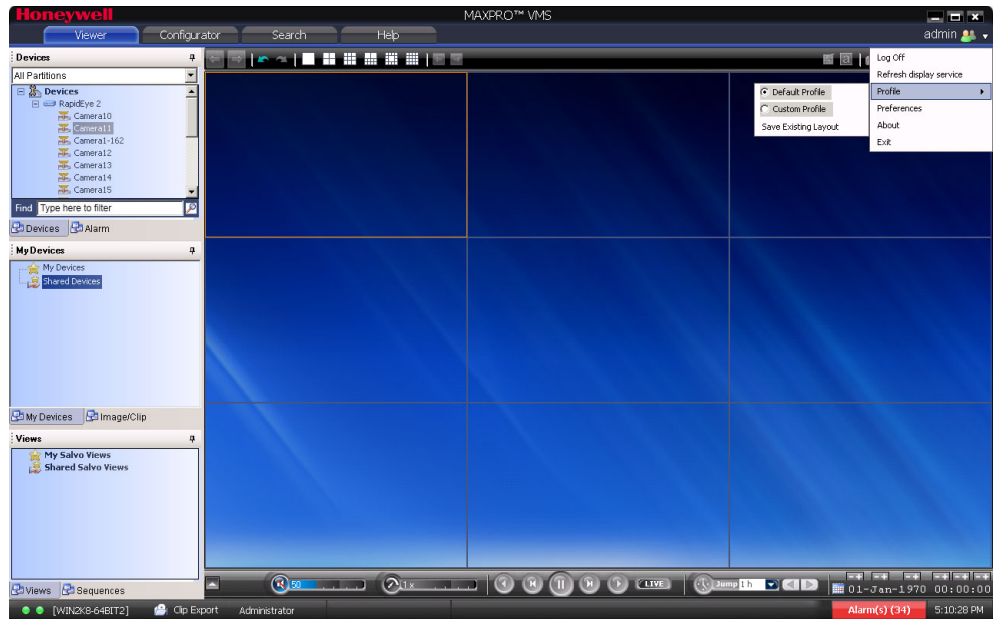
Figure 2-16   Custom Profile

2. Adjust the floating windows to your desired position in the user interface.

3. Choose **Profile**>**Save Existing Layout** to save the changes.

Note: At any point of time, you can reset the floating window to its default position by choosing the **Profile**>**Default Profile** option.

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3

CONFIGURING DEVICES AND SETTING UP A SITE

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Caution: Configuring the devices and setting up a site is performed **ONLY** by the adminstrator user after the MAXPRO VMS R300 Viewer Edition software installation. The contents in this chapter just serve as a reference for the operators.

SETTING UP A SITE USING CONFIGURATOR

A site enables you to monitor the activities in an area. Setting up a site involves adding and configuring the hardware devices, defining the users, partitions, and event groups.

Setting up a site involves the following:

ADDING SITES

A default site is added when you install MAXPRO VMS. You can use the default site and associate the hardware devices to it. You can also create new sites. See *Site* for more information.

ADDING WORKSTATIONS

Workstations are client computers in which the MAXPRO VMS user interface is installed. The users can perform actions such as monitoring a site, generating reports, searching for video recording, and configuring (add, update, and delete) devices from these workstations. See *Workstations* for more information.

ADDING PARTITIONS

A partition is a logical grouping of recorders, cameras, switchers, and monitors in a site. A default partition is added when you install MAXPRO VMS. You can associate the default partition to the site or create new partitions. See *Partitions* for more information.

Note: Partitions are used to limit user access to devices and cameras.

ADDING USERS

A default administrator user with the administrator privileges is created when you install MAXPRO VMS. The privileges for a user are defined in roles. You can define roles according to your requirements and assign them to users. The users are associated to a site. Only the users with access to the site can perform actions such as viewing video, acknowledging alarms, and others based on the user privileges. See *Users* and *Roles* for more information.

ADDING RECORDERS

You can add Rapid Eye, MAXPRO NVR, HRXD and Fusion recorders. After adding recorders, you can associate them with partitions, and define the events. Only users of the partition that is associated with the recorder can configure the recorder settings. Only the events defined for the recorder can be configured to trigger event based alarms. For example, if you associate Recorder Disconnected event to a recorder, you can configure an alarm to be triggered when this event occurs. See *Recorders* for more information.

ADDING VIDEO INPUTS

You can add video inputs and associate them to recorders. See *Video Inputs* for more information.

ADDING VIDEO OUTPUTS

You can add video outputs like standard device, trunk, VCR, analog and digital monitors. See *Video Outputs* for more information.

ADDING RELAYS

You can add relays that can be connected to devices like recorders. Relays send signals that perform various actions. For example, you can set a relay to open the door automatically when a motion is detected in a particular region. See *Relays* for more information.

ADDING ALARM INPUTS

You can add alarm input to raise alarms through an external device in MAXPRO VMS. These alarm inputs can be associated to devices like recorder. See *Alarm Inputs* for more information.

ADDING SEQUENCES

You can define sequences to view live video streamed one after the other from cameras for a specified time interval. See *Sequences* for more information.

RECORDERS

Recorders are devices used for streaming video and recording video from surveillance cameras (analog cameras and IP based digital cameras).

RECORDERS AND PARTITIONS

A partition is a logical grouping of video devices. Partitions are associated to recorders. You can restrict a non-associated user of the partition from viewing or changing the settings of the recorder.

RECORDERS AND EVENTS

Events are predefined actions. Recorders have predefined events by default. An alarm is triggered whenever an event is generated. For example, when a camera is added to a recorder, an event 'CameraAdded' is generated. You can also associate event attributes to events.

ADDING A RECORDER

Before you begin

- Add Site. See *Adding a Site* for more information.
- Add Partition. See *Adding a Partition* for more information.

By default, a site, partition and event groups are available. You can associate the recorder to them or create new.

To add a recorder

1. Click the **Configurator** tab.

2. Expand **Devices** in the navigation area, and then click **Recorders**. The **Recorders** screen appears in the display area.

3. Click **Add**. The General Settings screen for the recorder appears.
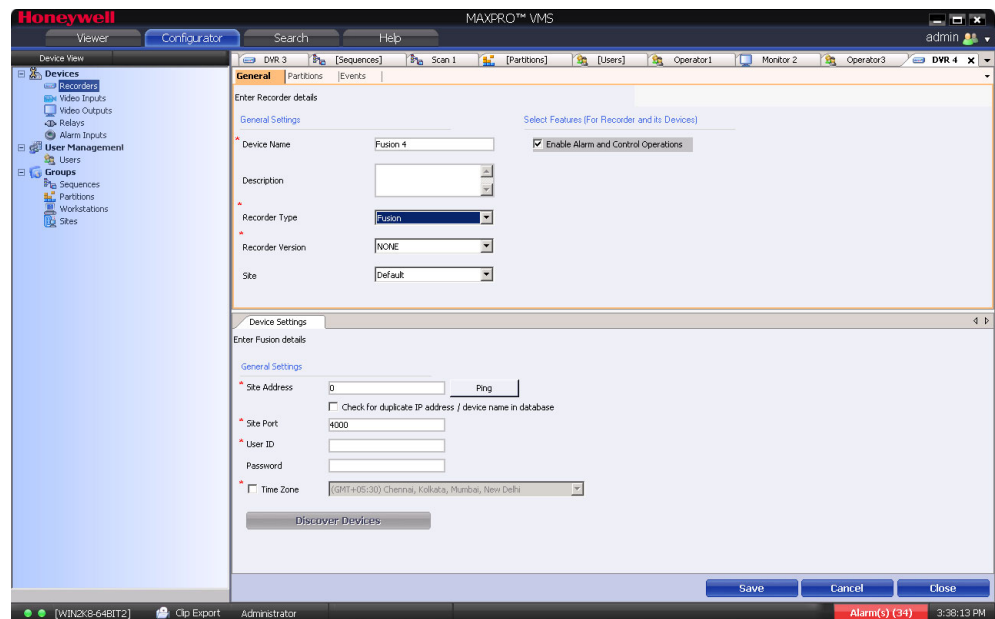
Figure 3-1   Recorder General Settings

4. In the **Device Name** box, type a name for the recorder.
5. In the **Description** box, type a description for the recorder.
6. In the **Recorder Type** drop-down list, select the recorder. Device settings for the selected recorder appear. The following table explains how to configure the device settings for the recorders.

Recorder Type	To configure the device settings
RapidEye	• In the **Unit Address** box, type the numeric IP address or the host name of RapidEye recorder. Click **Ping** to verify the connection. The field appears in green if the IP address or the host name is valid. • Select the **Check for duplicate IP address/ device name in the database** check box to check the availability of the host name. • In the **Site Port** box, the port number appears by default. • In the **System Password** box, type the system password assigned to the recorder. • In the **Video Format** drop-down list, select the required video format.
Fusion	• In the **Site Address** box, type the numeric IP address or the host name of the Fusion recorder. Click **Ping** to verify the connection. The field appears in green if the IP address or the host name is valid. • Select the **Check for duplicate IP address/ device name in the database** check box to check the availability of the host name. • In the **Site Port** box, the port number appears by default. • In the **User ID** box, type the user name to access the recorder. • In the **Password** box, type the assigned password for the user. • Select the **Time Zone** check box to enable the global time zone box and select the required time zone.
HRXD	• In the **Site Address** box, type the numeric IP address or the host name of the HRXD recorder. • Select the **Check for duplicate IP address/ device name in the database** check box to check the availability of the host name. • In the **Watch Port** box, type the port number. • In the **Search Port** box, type the port number. • In the **User ID** box, type the user name to access the recorder. • In the **Password** box, type the password to access the recorder. • Select the **Time Zone** check box to enable the global time zone box, and then select the time zone from the drop-down list.

Recorder Type	To configure the device settings
MAXPRO NVR	• In the **Unit Address** box, type the numeric IP address or the host name of the MAXPRO NVR recorder. Click **Ping** to verify the connection. The field appears in green if the IP address or the host name is valid. • Select the **Check for duplicate IP address/ device name in the database** check box o check the availability of the host name. • In the Search Pot box, the port number appears by default. • In the **Controller Port** box, the port number appears by default. • In the **StorageEngine Port** box, the port number appears by default. • In the **User Name** box, the user name appears by default. • In the **Password** box, the password appears by default.

7. In the **Recorder Version** drop-down list, select the recorder version.

8. In the **Site** drop-down list, select the site to which the recorder is to be associated.

9. Associate **Partition**. See *Discovering Devices* for more information.

10. Associate **Events and Event Attributes**. See *Associating Events and Event Attributes to a Recorder* for more information.

11. Click **Save**.

12. Click **Discover Devices** to discover various devices that are connected to MAXPRO VMS. See *Discovering Devices* for more information.

DISCOVERING DEVICES

To discover video input devices

1. Click the **Configurator** tab.

2. Expand **Devices** in the navigation area, and then click **Recorders**. The **Recorders** screen appears in the display area.

3. Double-click the check box corresponding to the recorder from which you want to discover devices. The recorder screen and the settings appear.

4. Click **Discover** Devices. The **Discovery Wizard** dialog box appears.
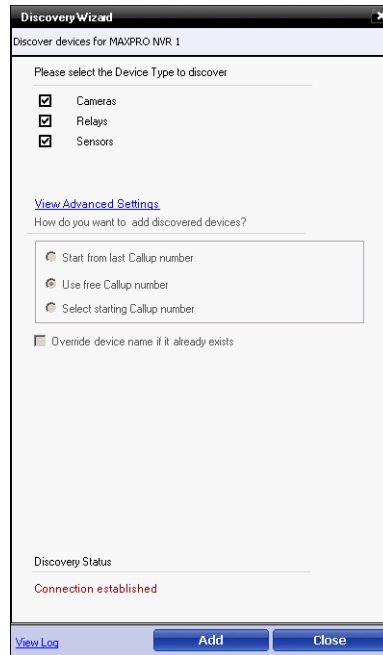
Figure 3-2   Discovery Wizard

5. Select the device or devices that you want to discover.

6. Click **View Advanced Settings** to configure advanced settings and to specify the order of discovered devices.

Settings	Instruction
Start from last Callup number	Select this option if you want to add the device from the last callup number of the device type that has been selected.
Use free Callup number	Select this option to use the available callup number in the device type that has been selected.
Select starting Callup number	Type the starting callup number, and then choose an option from **If Callup number already exists, what do you want to do?** section. See *step 7*.
Override device name if it already exists	Select the option to override the device name that already exits.

7. In **If Callup number already exists, what do you want to do?** selection, select the required option. The available options are:

- **Add to End** - appends to the end of existing call up number.
- **Override** - overrides the callup number.
- **Don't Add** - does not add the callup number

8. In **Camera Type Selection** section, select **Add Camera as Digital Camera** or **Add Camera as Hybrid Camera**.

9. Click **View Discover** Log to view any log.

10. Click **Close** once connection established status appears in **Discovery Status** section.

ASSOCIATING PARTITIONS TO THE RECORDER

You can associate partitions to recorder. Associating a partition to a recorder restricts a non- associated user of the partition from viewing the recorder or changing the settings of the recorder.

Before you begin

- Add a Partition. See *Adding a Partition* for more information.

To associate partition to a recorder

1. Click the **Configurator** tab.

2. Expand **Devices** in the navigation area.

3. Click the **Recorders** branch. The **Recorders** screen appears in the display area.

4. Double-click the recorder you want to associate. The **General Settings** screen appears.

5. Click the **Partitions** tab. The screen displays the associated partitions, if any.
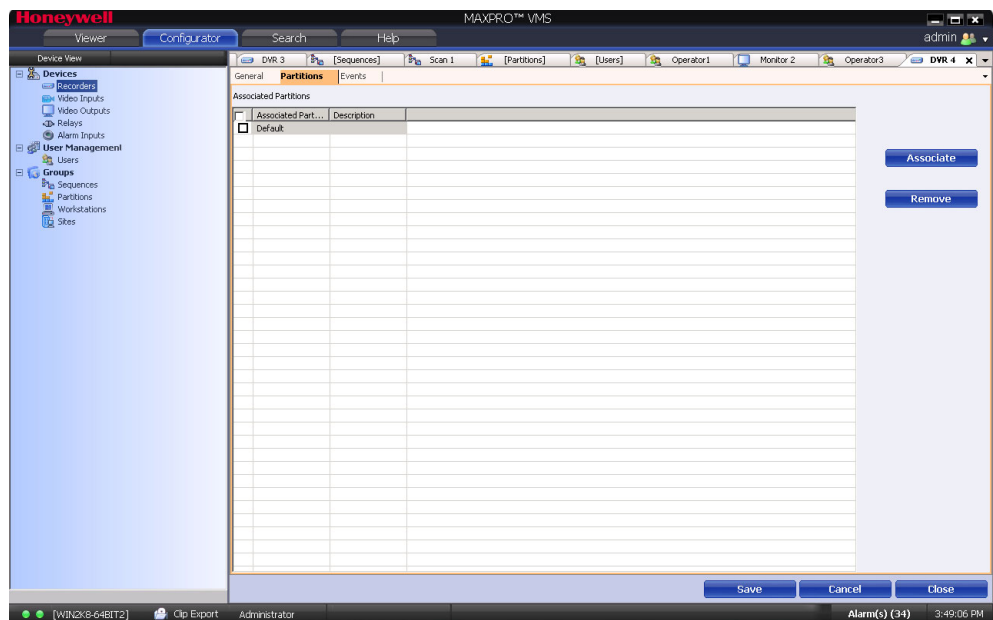
Figure 3-3   Recorder Partitions

6. Click **Associate**. The **Select Partitions** dialog box appears.
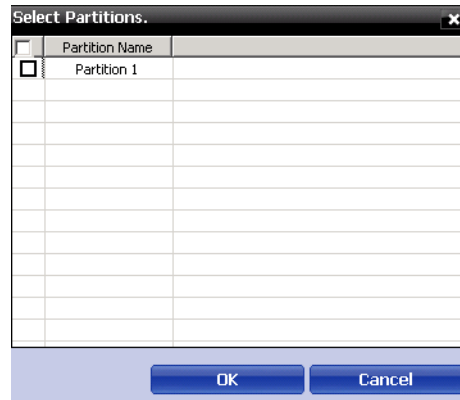
Figure 3-4   Select Partitions

7. Select the check box corresponding to the partition name you want to associate.

8. Click **OK**. The recorder is associated with the partition.

To disassociate partition from a recorder

•   Select the check box corresponding to the partition name, and then click **Remove**.

Note: Partitions associated to a recorder cannot be removed unless they are removed from the devices that are connected to the same recorder.

ASSOCIATING EVENTS AND EVENT ATTRIBUTES TO A RECORDER

You can associate one or more events to a recorder. An alarm is triggered whenever any of the associated event occurs for the recorder. For certain events, you can also associate event attributes. For example, for an Encoder Disabled event, you can associate attributes such as Encoder Name, Encoder ID and so on. For every attribute that you associate, you can set a value based on which the event is triggered. In the above example, you can associate the attribute Encoder Name to the event and set its value as Encoder A. When this event is associated to the recorder, an alarm is raised when the event "Encoder Disabled" occurs for the Encoder Name "Encoder A".

Attributes are available only for certain events. These events can be associated to a recorder multiple times. The event attributes are listed in the details of the alarm in Alarm window. To view the event attributes of an alarm, right-click the alarm, and then click Show Details.

To associate events to a recorder

1. Click the **Events** tab. The screen displays the associated events if any.
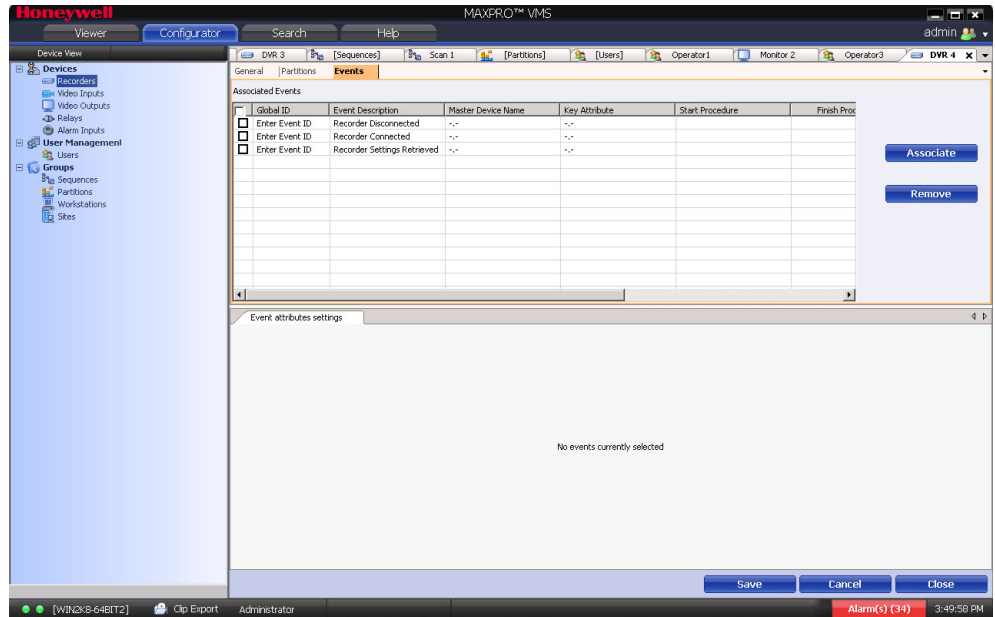
Figure 3-5   Recorder Events

2. Click **Associate**. The **Select from List** dialog box appears.
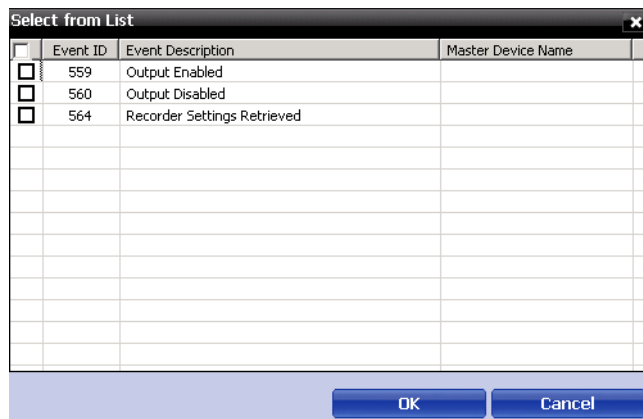
Figure 3-6   Select from List

3. Select the check box corresponding to the event you want to associate.

4. Click **OK**.

To disassociate events from a recorder

• Select the check box corresponding to the event, and then click Remove.

To disable an event

1. Select the check box corresponding to the event you want to disable.

2. Click the text under the **Disabled** column. A drop-down list is enabled.

3. Select **True**.

To assign severity level

1. Select the check box corresponding to the event you want assign severity level.

2. Click the value under the **Severity Level** column and edit the severity level.

> **Note:** Severity level is set to trigger alarms when the threshold is met. For example, if the threshold is set 50 in the preferences tab, an alarm is triggered when threshold becomes 51.

To enter remarks

1. Select the check box corresponding to the event you want to enter remarks.

2. Click the text under the **Remarks** column and type the remarks.

To assign macros

1. Select the check box corresponding to the event you want to assign macros.

2. Click the box under the **Start Procedure** column, and then type the required macro.

3. Click the box under the **End Procedure** column, and then type the required macro.

ASSOCIATING EVENT ATTRIBUTES

Before you begin

- Associate events.

To associate event attributes

1. Select the check box corresponding to the event for which you want to associate event attributes. The **Event attributes** Settings appear in the lower pane.

2. Click **Associate**. The Select **Available Event Attributes** dialog box appears.

3. Select the check box corresponding to the event attributes that you want to associate.

4. Click **OK**.

To disassociate event attributes from a recorder

- Select the check box corresponding to the event attribute, and then click **Remove**.

The following table describes the event name, event attributes, and their description.

Recorder	Event Name	Event Attributes	Attribute Description
Fusion	Input Enabled	CameraNumber	Numeric values from 1 to maximum channels supported in the recorder.
MAXPRO NVR	Recording Server Connected		
	Recording Server Disconnected		
	MAXPRO NVR Controller Connected		
	MAXPRO NVR Controller Disconnected		
HRDP	Recorder Connected		
	Recorder Disconnected		
	Output Enabled		
	Output Disabled		
RapidEye	Recorder Connected		
	Recorder Disconnected		

UPDATING A RECORDER

You can update a recorder to change the settings like the recorder name, site, site address, user ID, and password.

To update a recorder

1. Click the **Configurator** tab.
2. Expand **Devices** in the navigation area, and then click **Recorders**. The **Recorders** screen appears in the display area.
3. Select the check box corresponding to the recorder you want to update.
4. Click **Update**. The settings for the recorder appear. You can modify the settings.

DELETING A RECORDER

Before you begin

Remove the associations with the video inputs or delete all the video inputs that are associated with the recorder.

To delete a recorder

1. Click the **Configurator** tab.

2. Expand **Devices** in the navigation area, and then click **Recorders**. The **Recorders** screen appears in the display area.

3. Select the check box corresponding to the recorder you want to delete.

4. Click **Delete**. A message asking for confirmation appears on the top of the display area.

5. Click **Yes**.

VIDEO INPUTS

Video inputs are devices through which video is supplied into MAXPRO VMS. Video input devices can be logically grouped in MAXPRO VMS so that selecting and updating them is easier.

The following types of video input devices are supported.

• Camera -fixed or PTZ.

VIDEO INPUTS AND PARTITIONS

A partition is a logical grouping of video devices. Partitions are associated to cameras. You can restrict a non-associated user of the partition from viewing or changing the settings of the camera.

VIDEO INPUTS AND EVENTS

Events are predefined actions. Video inputs have events set by default. For example, when a camera connection is lost, an event 'CameraDisconnected' is generated. You can also associate event attributes to events. An alarm is triggered whenever an event is generated.

ADDING VIDEO INPUTS

Before you begin

• Add Site. See *Adding a Site*.

• Add Partition. See *Adding a Partition*.

• Add Recorders. See *Adding a Recorder*.

By default, a site and partition are available. You can associate the camera to them or create new.

You can add a camera to view live video and record video. You can associate cameras to partitions and events.

To add a video input

1. Click the **Configurator** tab.

2. Expand **Devices** in the navigation area, and then click **Video Inputs**. The **Video Inputs** screen appears in the display area, and displays the list of video inputs.

Figure 3-7   Video Inputs

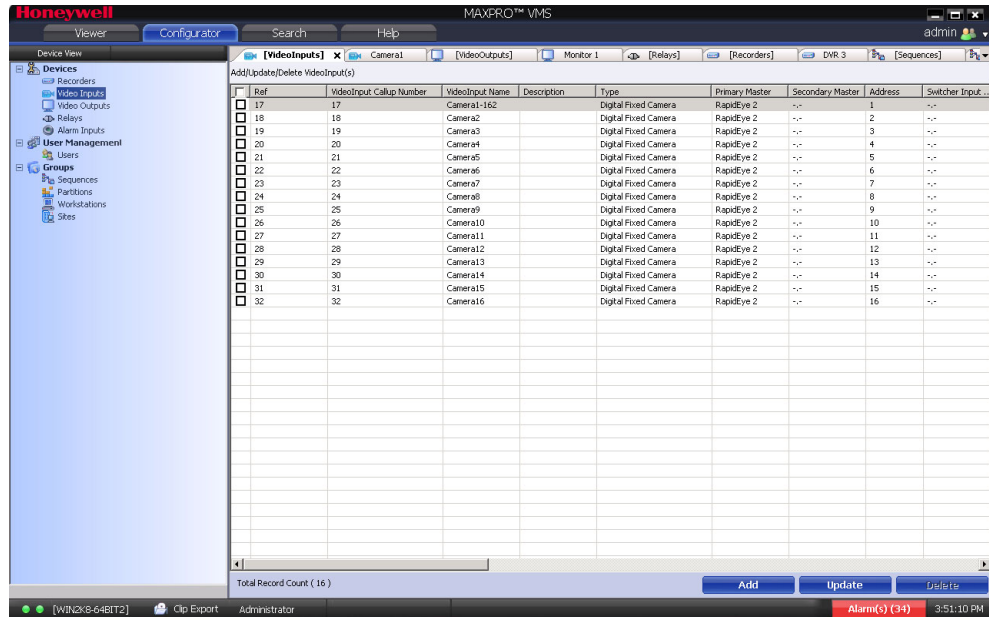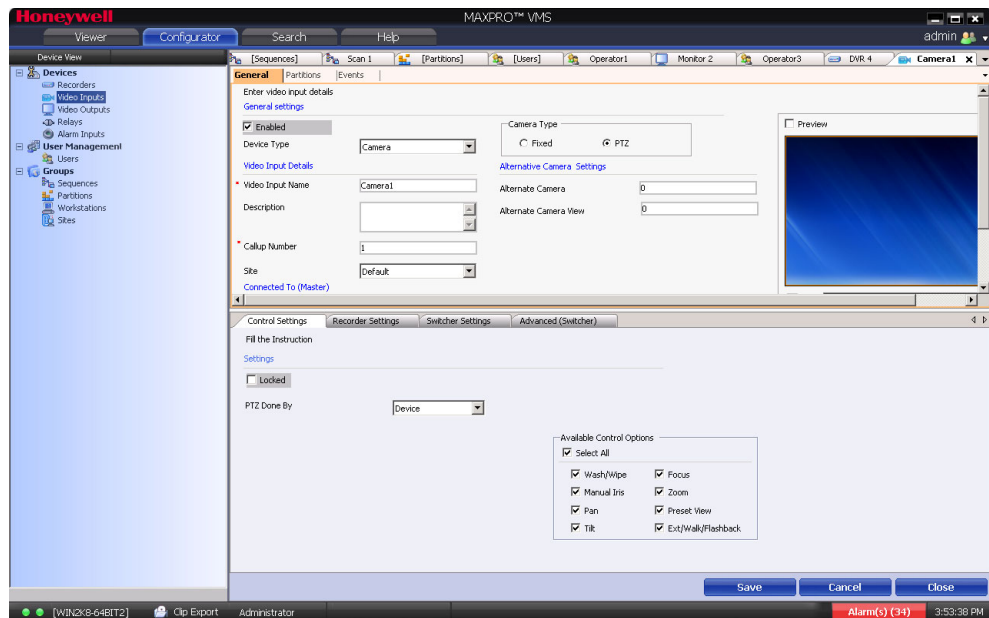**3.** Click **Add**. The **Camera** screen appears by default.

Figure 3-8   Camera Screen

4. From the **Device Type** drop-down list, select the required video input type. The currently supported video input device types are listed in the following table.

Video Input Device	Description
Camera	For details on configuring a camera, see *Adding a Camera*.

5. Associate Partition. See *Associating Partitions to Video Inputs* for more information.

6. Associate Events and Event Attributes. See *Associating Events and Event Attributes to a Video Input* for more information.

7. Associate Analytics. See *Select the check box corresponding to the partition name, and then click Remove.* for more information.

Note: You can associate analytics only for cameras.

---

8. Click **Save**.

ADDING A CAMERA

Adding a camera involves defining the camera's set up and operation across switchers and recorders. You can update or configure the general settings of a camera to configure PTZ settings and connect a camera to a recorder or switcher.

To configure a camera

1. In the **Camera Type** area, click **PTZ Camera** if the configured camera is PTZ or click **Fixed Camera** if the camera type is fixed.

2. In the **Video Input Details** area, specify the following camera details.

Field	Description
Video Input Name	Type a camera name. The camera name appears in the devices window making it easy to select.
Description	Type a description for the camera.
Callup Number	A unique number that identifies the camera. By default, the next available number is allocated. The operators can use the number to quickly view the live video from the camera using the virtual keyboard.
Site	Location of the camera.

3. In the **Alternative Camera Settings** area, specify the following details.

Settings	Description
Alternate Camera	Type the number of the camera that has to be selected alternate camera option is selected from the context menu while playing or viewing live video. The range of valid camera numbers is 1 – 999999999. Zero (0) is the default value and indicates no alternate camera is defined.
Alternate Camera View	Type the camera view number or preset number to select the preset view for the alternate camera. The valid camera views range is 1 – 99, 0 is the default value which indicates no camera view is to be selected.

4. In the **Connected To** area, select **Recorder**, if you want to connect the camera to a recorder (see *Associating Recorder to a Video Input Device* for more information).

5. Select the **Net Source** box when you want to view a video from a camera connected to the MAXPRO VMS within a network configuration. Specify the following details.

Settings	Description
Net Source	Specify the network node and the camera number from which you want the video input. When the current video input is actually connected to another MAXPRO VMS within a network configuration, the Net Source field is used to specify the exact location and reference for the video input device.
Link	Select if you want to broadcast the status changes and actions performed on the current video input device on the network.
Advance Settings, and PTZ control Settings.	• Configure the PTZ Control Settings. See *Control Settings* for more information.

To preview video when camera is associated to a recorder

• Select the **Preview** check box to view live video from the camera.

• Click the [icon] icon to save the current image in the clip video directory.

• Click the [icon] icon to open any saved image in the preview screen and position the camera accordingly.

• Click the [icon] icon to delete the image in the preview screen.

Note: Using the preview option, a user can take snapshots of the area to be monitored by the surveillance camera and save them. These snapshots can be used to identify the proper location where the camera needs to be installed so that the desired field of view is obtained. This can also be used to reposition the camera and identify changes in camera field of view.

ASSOCIATING RECORDER TO A VIDEO INPUT DEVICE

Video input devices like cameras and digital input trunk can be associated with different recorders. Video clips are recorded and stored in recorders.

To associate a camera to a recorder

1. In the **Connected To** section, click **Recorder**. The **Recorder** drop-down list is enabled.

2. Select the recorder. The device settings for the recorder appear. Perform the instructions listed in the following table.

Recorder Type	Instructions
RapidEye	**Control Settings** • Configure the Control Settings. See *Control Settings* for more information. **Note:** The **Control Settings** tab appears only when PTZ is selected as the **Camera Type**.
Fusion	**Recorder Settings** • In the **PTZ Sensitivity** drop-down list, select a number for PTZ sensitivity. **Note:** The **PTZ Sensitivity** drop-down list is enabled only when you select the PTZ option in the General Settings (See *Adding a Camera* for more information) of the camera. The numbers represent the speed of the PTZ. The higher the number, the more the PTZ speed. **Control Settings** • Configure the Control Settings. See *Control Settings* for more information. **Note:** The **Control Settings** tab appears only when PTZ is selected as **Camera Type**.
HRXD	• In the **Control Settings** tab, configure the Control Settings. See *Control Settings* for more information. **Note:** The **Control Settings** tab appears only when PTZ is selected as **Camera Type**.
MAXPRO NVR	**Recorder Settings** • In the **PTZ Sensitivity** drop-down list, select a number for PTZ sensitivity.

Note: For more details on the camera specifications for other recorders, refer to the manuals that are provided along with the cameras.

ASSOCIATING EVENTS AND EVENT ATTRIBUTES TO A VIDEO INPUT

You can associate one or more events to a video input. An alarm is triggered whenever any of the associated event occurs for the video input. For certain events, you can also associate event attributes. For example, for an Encoder Disabled event, you can associate attributes such as Encoder Name, Encoder ID and so on. For every attribute that you associate, you can set a value based on which the event is triggered. In the above example, you can associate the attribute Encoder Name to the event and set its value as Encoder A. When this event is associated to the video

input, an alarm is raised when the event "Encoder Disabled" occurs for the Encoder Name "Encoder A".

Attributes are available only for certain events. These events can be associated to a video input multiple times. The event attributes are listed in the details of the alarm in **Alarm** window. To view the event attributes of an alarm, right-click the alarm, and then click **Show Details**.

Before you begin

• Add a Video Input

ASSOCIATING EVENTS

To associate events to video inputs

1. Click the **Events** tab. The screen displays the associated events, if any.
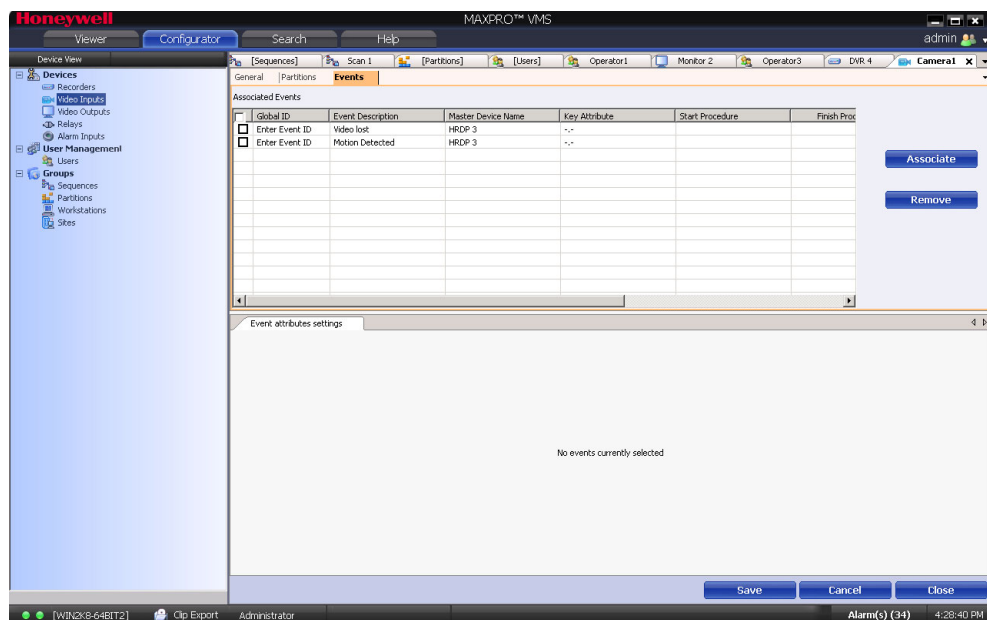

Figure 3-9 Camera Events

2. Click **Associate**. The **Select from List** dialog box appears.
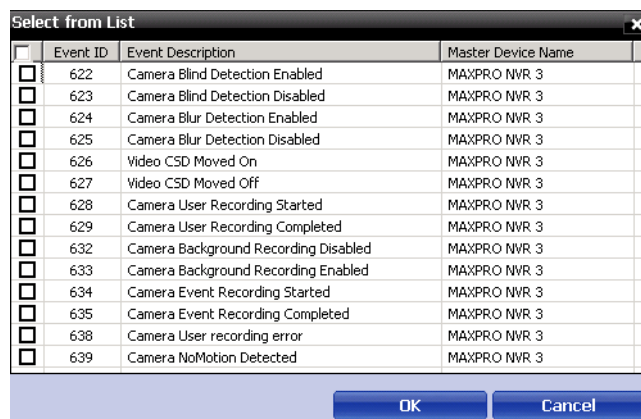

Figure 3-10 Select from List

3. Select the check box corresponding to the event you want to associate.

4. Click **OK**.

To disassociate events to video input

• Select the check box corresponding to the event, and then click Remove.

To disable an event

1. Select the check box corresponding to the event you want to disable.

2. Click the cell under the **Disabled** column. A drop-down list is enabled.

3. Select **True**.

To assign severity level

1. Select the check box corresponding to the event you want to assign the severity level.

2. Click the cell under the **Severity Level** column and edit the severity level.

Note: Severity level is set to trigger alarms when the threshold is met. For example, if the threshold is set 50 in the preferences tab, an alarm is triggered when threshold becomes 51.

To enter remarks

1. Select the check box corresponding to the event you want to enter remarks.

2. Click the cell under the **Remarks** column and type the remarks.

To assign macros

1. Select the check box corresponding to the event you want to assign macros.

2. Click the cell under the **Start Procedure** column, and then type the required macro.

3. Click the cell under the **End Procedure** column, and then type the required macro.

ASSOCIATING EVENT ATTRIBUTES

Before you begin

• Associate events.

To associate event attributes

1. Select the check box corresponding to the event for which you want to associate event attributes. The **Event attributes Settings** appear in the lower pane.

2. Click **Associate**. The **Select Available Event Attributes** dialog box appears.

3. Select the check box corresponding to the event attributes that you want to associate.

4. Click **OK**.

To disassociate event attributes from a video input

• Select the check box corresponding to the event attribute, and then click **Remove**.

ASSOCIATING PARTITIONS TO VIDEO INPUTS

You can associate partition to cameras. Associating a partition to a camera restricts a non- associated user of the partition from viewing the camera or changing the settings of the camera.

Before you begin

*   Add a Partition. See *Adding a Partition* for more information.

To associate partitions to video inputs

1. Click the **Partitions** tab. The screen displays the associated partitions, if any.
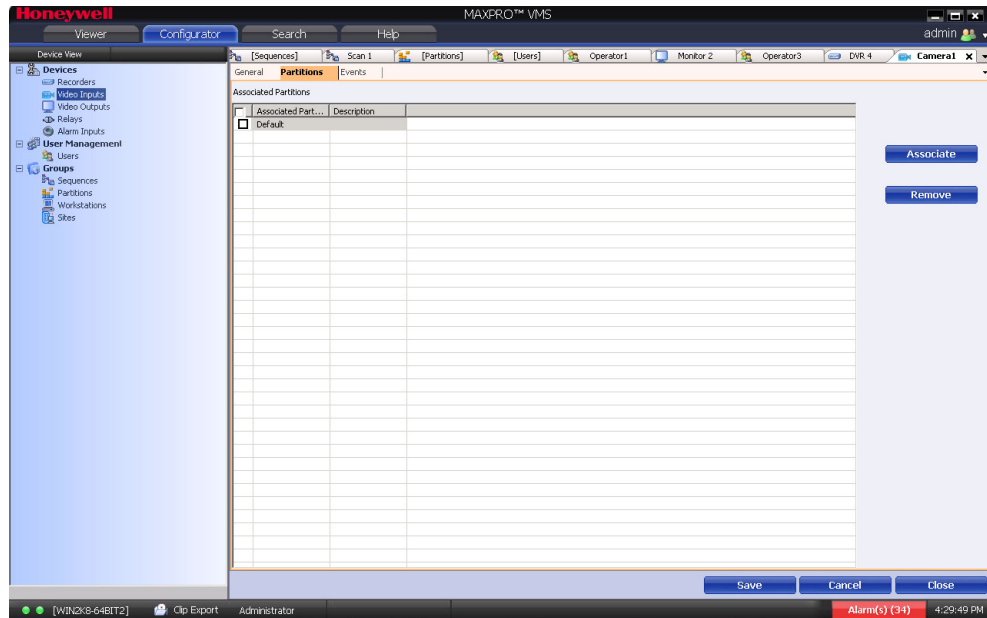
Figure 3-11   Camera Partitions

2. Click **Associate**. The **Select Partitions** dialog box appears.

3. Select the check box corresponding to the partition name you want to associate.

4. Click **OK**. The selected partition is displayed in the list of associated partitions.

To disassociate partitions to camera

*   Select the check box corresponding to the partition name, and then click **Remove**.

CONTROL SETTINGS

1. Select the **Locked** check box to prevent the user to control the device.

2. From the **PTZ Done By** drop-down list, select the required PTZ type.

The following table lists the PTZ types and steps to configure their settings.

Type	Settings
Device	This setting is used when the PTZ camera is controlled using the recorder. The PTZ settings are done using the local applications of the recorder.

Type	Settings
Serial Port	The followings settings are used when a PTZ camera is controlled by MAXPIT or MATPIT. a. In the **Select Serial Port** drop-down list, select the serial port. b. In the **Source Control ID** box, a default ID is displayed. c. In the **Source Control Slot** box, type the slot number within the control subrack where the controller for the current video input device resides. **Note:** Valid slot numbers are 1 – 32 for I/O and combination video/I/O subracks and 1 – 8 for HD Series subracks. Within subracks such as HMX1132 and HMX1600, the control slot is the physical slot where the controller card resides. Whereas within HD Series subracks (HMX32128) device control and I/O functions are mapped to pseudo slots as all of these functions exist on the subrack controller card (HMX128) located in slot 0. For VideoBloxsubrack, the control slot number should be greater than zero.Valid range: 1 to 4. d. In the **Offset** box, type the ID number of the PTZ site receiver connected to that camera. **Note:** The valid range for site IDs is 1 – 16. A 0 indicates that a hardwired relay output module is being used in the subrack slot for controlling that camera. Offset is the hardware address configured in the PTZ camera.

Type	Settings
Serial Port	The followings settings are used when a PTZ camera is controlled by MAXPIT or MATPIT. a. In the **Select Serial Port** drop-down list, select the serial port. b. In the **Source Control ID** box, a default ID is displayed. c. In the **Source Control Slot** box, type the slot number within the control subrack where the controller for the current video input device resides. **Note:** Valid slot numbers are 1 – 32 for I/O and combination video/I/O subracks and 1 – 8 for HD Series subracks. Within subracks such as HMX1132 and HMX1600, the control slot is the physical slot where the controller card resides. Whereas within HD Series subracks (HMX32128) device control and I/O functions are mapped to pseudo slots as all of these functions exist on the subrack controller card (HMX128) located in slot 0. For VideoBloxsubrack, the control slot number should be greater than zero.Valid range: 1 to 4. d. In the **Offset** box, type the ID number of the PTZ site receiver connected to that camera. **Note:** The valid range for site IDs is 1 – 16. A 0 indicates that a hardwired relay output module is being used in the subrack slot for controlling that camera. Offset is the hardware address configured in the PTZ camera.

Type	Settings
Switcher	The followings settings are used when a PTZ camera is controlled by a matrix switcher. a. In the **Select Switcher** drop-down list, select the switcher. b. In the **Source Control ID** box, a default ID is displayed. **Note:** The valid range for Control ID is 1 – 799, a value of 0 indicates no control capability for the device. c. In the **Source Control Slot** box, type the slot number within the control subrack where the controller for the current video input device resides. **Note:** Valid slot numbers are 1 – 32 for I/O and combination video/I/O subracks and 1 – 8 for HD Series subracks. Within subracks such as HMX1132 and HMX1600, the control slot is the physical slot where the controller card resides. Whereas within HD Series subracks (HMX32128) device control and I/O functions are mapped to pseudo slots as all of these functions exist on the subrack controller card (HMX128) located in slot 0.For VideoBlox subrack, the control slot number should be greater than zero. Valid range: 1 to 4. d. In the **Offset** box, type the ID number of the PTZ site receiver connected to that camera. **Note:** The valid range for site IDs is 1 – 16. A 0 indicates that a hardwired relay output module is being used in the subrack slot for controlling that camera. Offset is the hardware address configured in the PTZ camera.

3. In the **PTZ Viewer Sensitivity** drop-down list, select the required sensitiveness.

4. In the **Available Control Options** area, select the options to enable or disable the control functions. The available control functions vary between the different types of video input device as shown in the following figures.

The following tables lists the available control functions for different types of video input devices.

Camera	VCR or LoggingVCR or Standby VCR	Standard Device or Smart Device
Wash/Wipe	Record	Output1
Manual Iris	Play	Outpu2
Pan	Rewind	Output3
Tilt	Fast Forward	Output4
Focus	Slow	Output5
Zoom	Pause	Output6
Present View	Eject	Output7

Camera	VCR or LoggingVCR or Standby VCR	Standard Device or Smart Device
Ext/Walk/Flashback	Stop	Output8

UPDATING A VIDEO INPUT

You can update the camera to change the existing settings and configure new settings.

To update a video input

1. Click the **Configurator** tab.

2. Expand **Devices** in the navigation area, and then click **Video Inputs**. The **Video Inputs** screen appears in the display area.

3. Double-click the video input or select the check box corresponding to the video input, and then click Update.

4. The **Video Input** screen appears. Update the required settings.

5. Click **Save.**

DELETING A VIDEO INPUT

You can delete a video input when you do not want to record video from a site or do not want the display of a live video from a site. All the associations made to the video input are removed, when you delete it.

Before you begin

•   Disassociate Partitions. See *Associating Partitions to Video Inputs* for more information.

•   Disassociate Events. See *Associating Events* for more information.

To delete a video input

1. Click the **Configurator** tab.

2. Expand **Devices** in the navigation area, and then click **Video Inputs**. The **Video Inputs** screen appears in the display area.

3. Select the check box corresponding to the video input that you want to delete.

4. Click **Delete**. A message asking for confirmation appears on the top of the display area.

5. Click **Yes**.

VIDEO OUTPUTS

You can add various video output devices in MAXPRO VMS. You can add digital and analog monitors. The following types of video output devices are supported.

- Monitor — Analog and Digital.
- Standard Device — other devices, freeze frames and so on.
- Smart Device— devices such as multiplexers.
- Trunk - trunk video input (from a networked system).
- VCR — (video cassette recorder) - dedicated or Dub VCR.
- Standby VCR — Standby VCR as used in VCR Management.
- Digital Output Trunk — to view analog camera video.

Analog monitors are connected to the switchers and display video from analog cameras. The digital monitors are connected to the client workstations. Each client workstation can connect up to four digital monitors.

VIDEO OUTPUTS AND PARTITIONS

A partition is a logical grouping of video devices. Partitions are associated to monitors. Monitors associated to a partition can be viewed or managed only by the users who are associated with it.

VIDEO OUTPUTS AND EVENT GROUPS

An event group is a set of events that occur on video devices. Event Groups are associated to monitors. An alarm is generated, When any event related to the monitor in the event group occurs.

ADDING VIDEO OUTPUTS

You can add digital and analog video outputs like monitors, smart devices, standard device, trunk, VCR, Standby VCR to display video. Video output devices like digital monitors are connected to the client workstations. The video output devices analog monitors are connected to the video matrix switchers.

Before you begin

- Add Site.
- Add Switcher (to associate the analog monitor).
- Add Workstation (to associate the digital monitor).
- Add Partition.
- Update Joystick Controller.

By default, a site and partition are available. You can associate the video outputs to them or create new.

To add a video output

1. Click the **Configurator** tab.
2. Expand **Devices** in the navigation area, and then click **Video Outputs**. The **Video Output** screen appears in the display area.
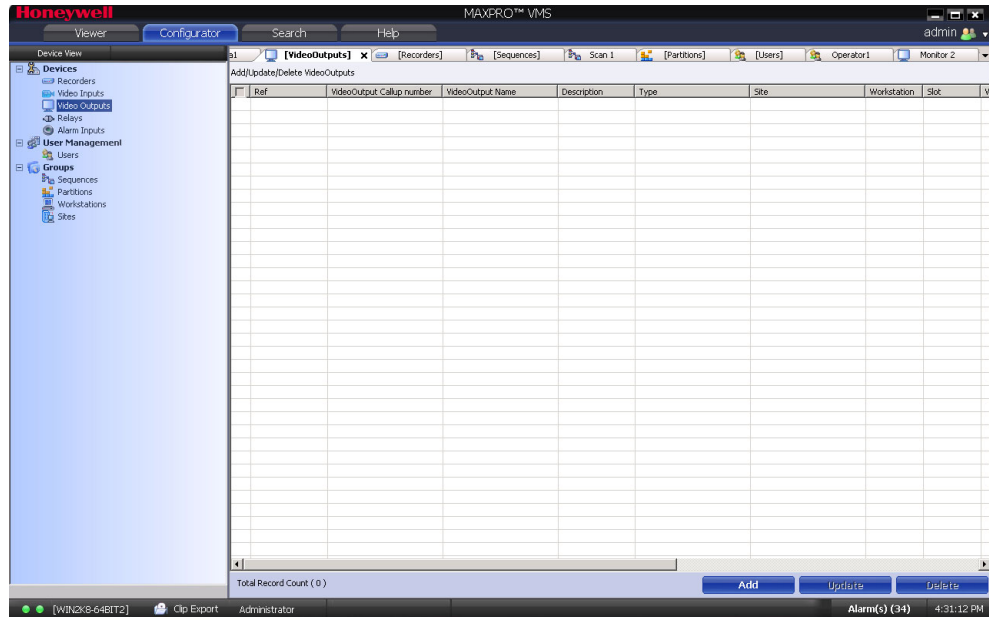
Figure 3-12   Video Outputs

3. Click **Add**. The **Monitor** screen appears by default.
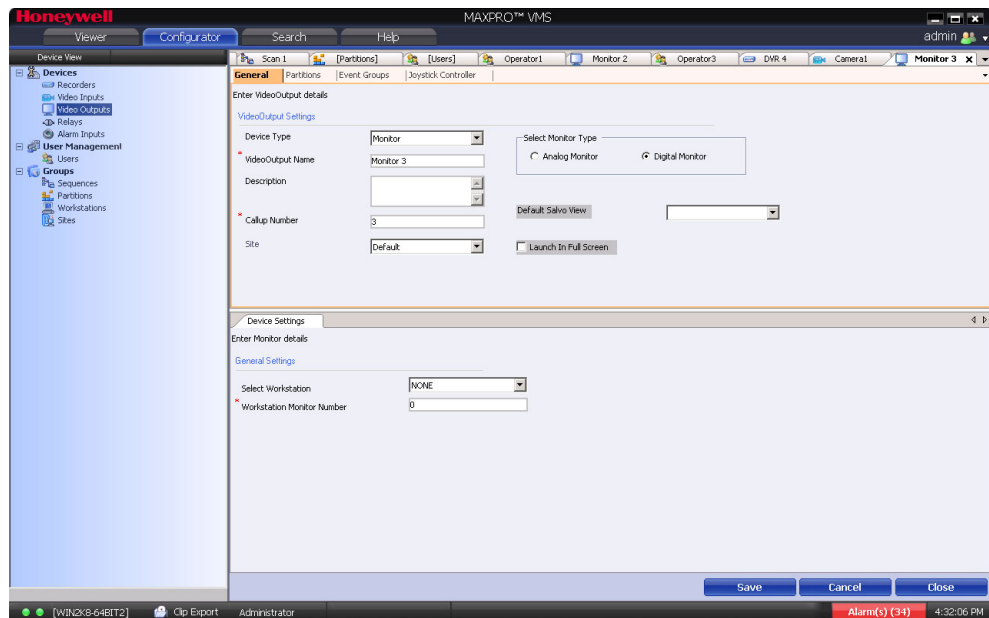

Figure 3-13   Monitors

4. From the **Device Type** drop-down list, select the required device type. The currently supported video output device types are listed in the following table.

Click the corresponding links in the device column list to refer to the instructions while adding.

Video Input Device	Description
Monitor	For details on configuring the monitor, see *Adding Monitors*.

5. Associate Partition. See *Associating Partitions to Video Outputs* for more information.

6. Associate Joystick Controllers. See *Associating Video Outputs to Joystick Controllers*.

7. Associate Event Groups. See *Associating Video Outputs to Event Groups* for more information.

8. Click **Save**.

ADDING MONITORS

DIGITAL MONITOR

To add a digital monitor

1. Select the **Digital Monitor** under **Select Monitor Type**.

2. In the **VideoOutput Name** box, type the name for the monitor.

3. In the **Description** box, type a description for the monitor.

4. In the **Callup Number** box, an automatic number is allocated by default. The operator uses this number to select a monitor from the keyboard.

5. In the **Site** box, select the location in which the monitor is used.

6. In the **Select Monitor Type** section, click **Digital Monitor**.

7. In the **Default Salvo View** drop-down list, select the default salvo view for the monitor.

Note: This feature helps in configuring the wall mounted digital monitors in a site to display live video from the selected salvo views.

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8. Select the **Launch in Full Screen** check box to launch the selected default salvo view in full screen mode, whenever the monitor is turned on.

9. In the **Select Workstation** drop-down list in **Device Settings** area, select the workstation to which the monitor is connected.

10. In the **Workstation Monitor Number** box, type the number configured for the monitor during workstation setup.

11. Click **Save**.

ANALOG MONITOR

To add a analog monitor

1. Select the **Analog Monitor** under **Select Monitor Type**.

2. In the **VideoOutput Name** box, type the name for the monitor.

3. In the **Description** box, type a description for the monitor.

4. In the **Callup Number** box, an automatic number is allocated by default. The operator uses this number to select a monitor from the keyboard.

5. In the **Site** box, select the location in which the monitor is used.

6. In the **Select Monitor Type** section, click **Analog Monitor**.

7. Select the **Lock VideoOutput** check box to lock monitor from displaying video.

Note: A monitor can be locked or unlocked by selecting or clearing the **Lock VideoOutput** check box. When a monitor is locked, no operations on the monitor are allowed including the multi monitor function.

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8. In the **Default Video Source** box, type the camera callup number of the camera from which the live video is to be displayed.

9. In the **Default Scan Sequence** box, type the scan sequence number.

10. Select the **Run Default Scan Sequence** check box to automatically begin the default scan sequence.

11. In the **Slot** box, type the slot number to identify the slot location of the video output channel.

12. Click the **Net Device** option, and then type the exact location and reference for the video

13. Select the **LINK** check box, if you want to broadcast the status changes and actions performed on the current video output device on the network.

14. In the **Video Timeout** box, type the display time-out period. The display time-out period can be set from 1-999 seconds. Enter a value zero if this function is not required.

15. In the **Text Line Settings** area, select the check boxes according to your requirement to select text line settings. The following table lists the options.

Option	Description
Message Line	Defines the line where the Message Line text (Example, Warning message) is displayed.
Mode Line	Defines the line where the Mode text (Example, Scan mode) is displayed.
Source Description	Defines the line the Video Input device description is displayed.
Channel Description	Defines the line where the description for the video device is displayed.
Real Time Clock	Defines the line the Real Time Clock is displayed.

> **Note:** Selecting the **Select All** check box selects all the **Text Line Settings**.

16. In the **Text Display Settings** area, select the check boxes to select the text display settings. The following table lists the options.

Option	Description
Enhanced Card	To enhance the appearance of the text display.
Hidden Text	To hide the text display on the monitor.
Shadow	To apply shadow affect for the text display.
BackGround	To apply background affect for the text display.
Reverse Black/White	To reverse black/white affect for the text display.
Double Height	To increase the height of text display on monitor.
Flash	To display blinking text on the monitor.

> **Note:** Selecting the **Select All** check box enables all the Text Display Settings.

17. In the **X** and **Y** boxes, type a location for the text to appear on the monitor. Valid positions are 1 −13. X and Y coordinates represent the horizontal and vertical position respectively.

18. In the **Device Macro Flags** section, select the required fields to set the macro flag to True. This field allows for definition of the default cold boot state of the macro flags for the current video input device. Click **Select All** to set all the macro flags to True.

19. Click **Save**.

DELETING A VIDEO OUTPUT DEVICE

To delete a video output device

1. Click the **Configurator** tab.

2. Expand **Devices** in the navigation area, and then click **Video Outputs**. The **Video Outputs** screen appears in the display area.

3. Select the check box corresponding to the video output device that you want to delete.

4. Click **Delete**. A message asking for confirmation appears on the top of the display area.

5. Click **Yes**.

UPDATING A VIDEO OUTPUT DEVICE

You can update a video output device to change its association with a partition, joystick controller, and also to modify its settings.

To update a video output

1. Click the **Configurator** tab.

2. Expand **Devices** in the navigation area, and then click **Video Outputs**. The **Video Outputs** screen appears in the display area.

3. Select the check box corresponding to the video output you want to update.

4. Click **Update**. The settings for the video output appear. You can modify the settings.

5. Click **Save**.

LOCKING THE DISPLAY ON THE MONITOR

The analog monitor can be locked to display the video only from a particular camera and field of view. The operator cannot perform pan, tilt, or zoom using a monitor with locked display.

To lock the display on a monitor

1. Click the **Configurator** tab.

2. Expand **Devices** in the navigation area, and then click **Video Outputs**. The **Video Outputs** screen appears in the display area.

3. Select the check box corresponding to the monitor you want to lock.

4. Double-click or click **Update**. The **General Settings** for the monitor appears.

5. Select the **Lock VideoOuput** check box.

6. Click **Save**.

ASSOCIATING PARTITIONS TO VIDEO OUTPUTS

You can add partitions to video outputs. A video output associated with a partition can be viewed and managed by a user who is in turn associated with the partition.

Before you begin

• Add a Partition. See *Adding a Partition* for more information.

To associate partitions to video outputs

1. Click the **Partitions** tab. The screen displays the associated partitions, if any.

2. Click **Associate**. The **Select Partitions** dialog box appears.

3. Select the check box corresponding to the partition name you want to associate.

4. Click **OK**. The selected partition is displayed in the list of associated partitions.

To disassociate partition from the video outputs

• Select the check box corresponding to the partition name, and then click **Remove**.

ASSOCIATING VIDEO OUTPUTS TO EVENT GROUPS

You can associate event groups to video outputs. Associating video outputs to event groups allows display of alarms that are associated with the event group.

Before you begin

• Add Event Group.

To associate event groups to video outputs

1. Click the Event Groups tab. The screen displays the associated event groups, if any.

2. Click **Associate**. The **Select Event Groups** dialog box appears.

3. Select the check box corresponding to the Event Group name you want to associate.

4. Click **OK**.

To **disassociate event groups from video outputs**

• Select the check box corresponding to the Event Group name, and then click **Remove**.

ASSOCIATING VIDEO OUTPUTS TO JOYSTICK CONTROLLERS

You can associate Joystick Controllers to monitors. Monitors associated to a joystick controller can be controlled by a user who is also associated with the joystick controller.

Before you begin

• Update Joystick Controller.

To associate joystick controllers to video output

1. Click the **Joystick Controller** tab. The screen displays the associated joysticks if any.

2. Click **Associate**. The **Select Joystick Controller** dialog box appears.

3. Select the check box corresponding to the joystick name you want to associate.

4. Click **OK**.

Note: By default, all the joystick controllers are associated when a user is added. You can remove the joystick that you do not require.

To disassociate Joystick Controller from a video output

• Select the check box corresponding to the joystick name, and then click **Remove**.

RELAYS

Relay is an output contact that can be triggered from MAXPRO VMS. Relays can be connected to devices like switcher, recorder, cameras, keyboard, and high level device.Relays send signals that perform various actions. For example, you can set a relay to open the door automatically when a motion is detected in a particular region.

ADDING THE RELAY

Before you begin

- Add Site. See *Adding a Site* for more information.
- Add Recorder. *Adding a Recorder* for more information.
- Add Partition. See *Adding a Partition* for more information.

By default, a site and a partition are available. You can associate the relay to them or create new.

To add a relay

1. Click the **Configurator** tab.
2. Expand **Devices** in the navigation area, and then click **Relays**. The **Relays** screen appears in the display area.
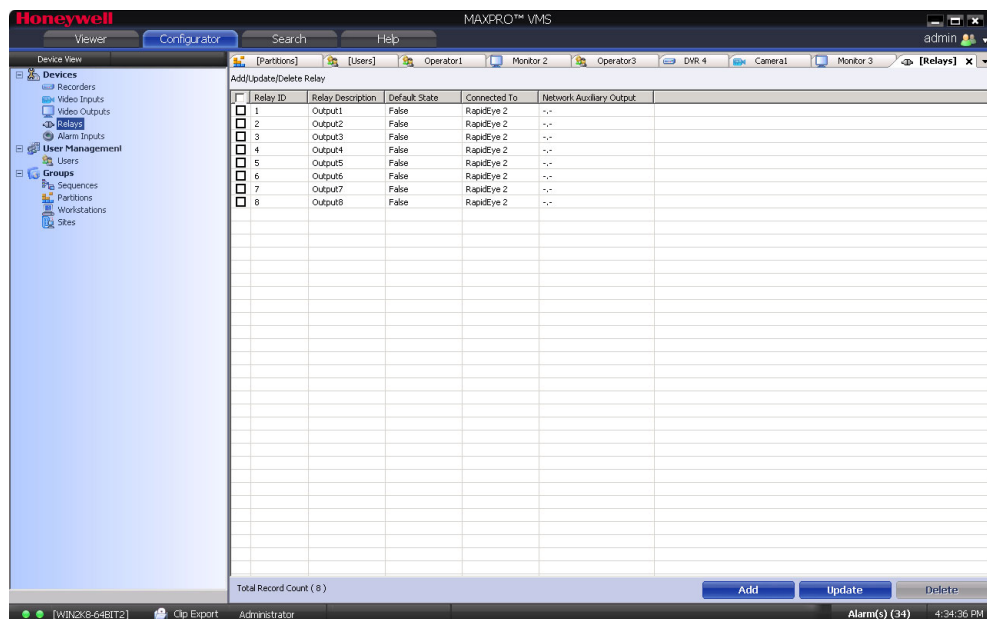

Figure 3-14   Relays

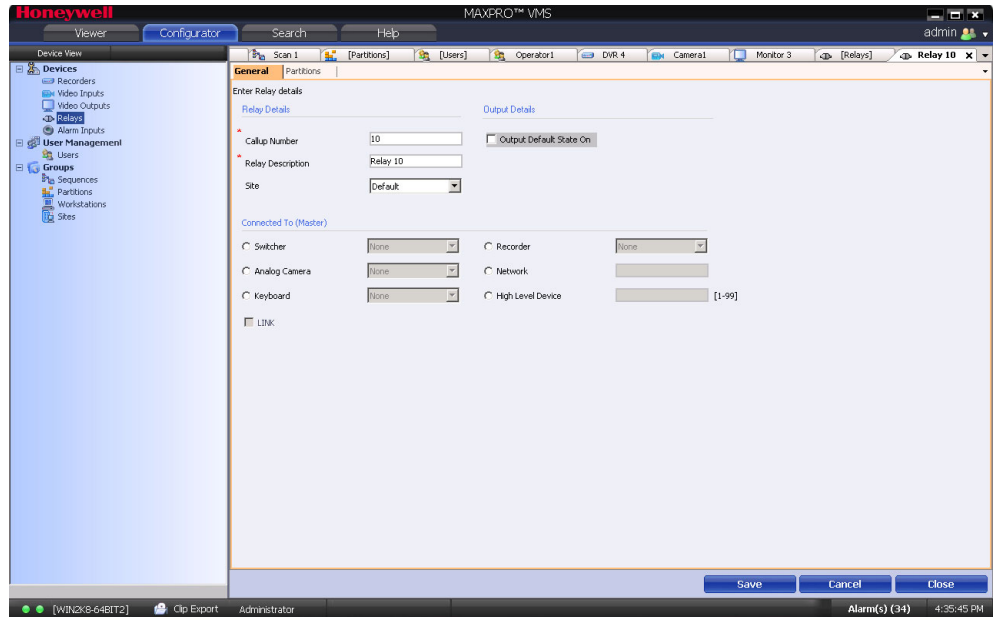3. Click **Add**. The **Relay** screen appears.

Figure 3-15   Relays General

4. In the **Callup Number** box, type the unique ID to identify the relay. By default MAXPRO VMS assigns the next available ID.

5. In the **Relay Description** box, type a description for the relay.

6. In the **Connected To** section, click one of the devices from which you want to add a relay. The following table lists the available devices to which a relay can be connected.

Device	Description
Recorder	For details on connecting to a recorder, see *Connecting the relay to the Recorder*.

7. Select the **LINK check box** if you want to broadcast the status changes and actions performed on the current relay on the network.

8. Select the **Output Default State On** check box if you want the relay to be set to On, when the MAXPRO VMS is started.

9. Associate Partitions.

10. Click **Save**. The **Trigger Relay** options appear.

11. Click **On** to trigger the relay.

12. Click **Off** to stop the relay.

CONNECTING THE RELAY TO THE RECORDER

Before you begin

• Add Recorders. See *Adding a Recorder* for more information.

To connect relay to a analog camera

1. From the **Recorder** drop-down list, select the required recorder. The Output Settings appear.

2. In the **Relay ID** box, type the relay ID number for the recorder.

3. In the **Site ID** box, type the site ID of the recorder.

4. In the **Station ID** box, type the station ID of the recorder.

5. In the **Digital IO Type**, type the digital IO type of the recorder.

6. In the **Output Bit section**, select the required output that needs to be controlled by the relay. Each relay can control one or more output bits. Click **Select All** if you want all the output bits to be controlled by a single relay.

7. Click **Save**.

> **Note:** Steps 3 through 9 are required only when you are connecting to Enterprise recorder.

ASSOCIATING PARTITIONS TO THE RELAY

You can associate partition to relay. Associating a partition to a relay restricts a non -associated user of the relay from changing the settings of the relay.

Before you begin

- Add a Partition. See *Adding a Partition* for more information.

To associate partitions to relay

1. Click the **Partitions** tab. The screen displays the associated partitions, if any.
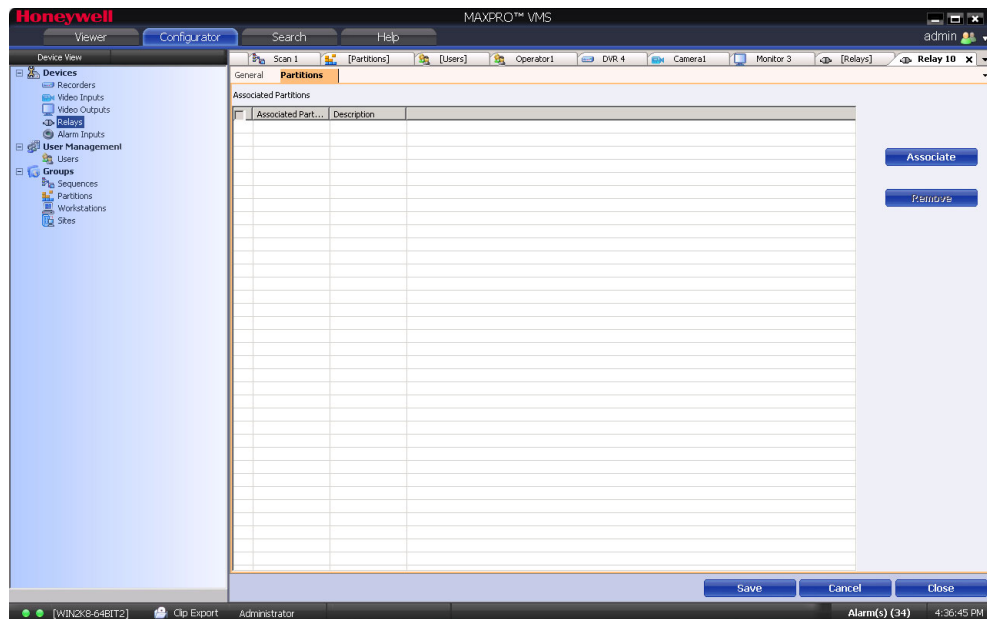

Figure 3-16   Relays Partitions

2. Click **Associate**. The **Select Partitions** dialog box appears.

3. Select the check box corresponding to the partition name you want to associate.

4. Click **OK**. The selected partition is displayed in the list of associated partitions.

To disassociate partitions to relay

- Select the check box corresponding to the partition name, and then click **Remove**.

DELETING THE RELAY

You can delete a relay when you no longer want to trigger a task that is based on a relay.

Before you begin

- Disassociate Partitions. *Associating Partitions to the Relay* for more information.

To delete a relay

1. Click the **Configurator** tab.
2. Expand **Devices** in the navigation area, and then click relays. The **Relays** screen appears in the display area.
3. Select the check box corresponding to the relay that you want to delete.
4. Click **Delete**. A confirmation message appears on top of the display area.
5. Click **Yes**.

UPDATING THE RELAY

You can update a relay device to change its association with a partition and also to modify its settings.

To update a relay

1. Click the **Configurator** tab.
2. Expand **Devices** in the navigation area, and then click relays. The **Relays** screen appears in the display area.
3. Select the check box corresponding to the relay you want to update.
4. Click **Update**. The settings for the relay appear. You can modify the settings.

ALARM INPUTS

Alarm inputs are used to raise alarms through an external device in MAXPRO VMS. These alarm inputs can be associated to devices like recorder.

ADDING AN ALARM INPUT

You can add an alarm input and associate it to the devices. These alarm inputs trigger alarm whenever an event occurs.

Before you begin

- Add Site. See *Adding a Site* for more information.
- Add Recorder. *Adding a Recorder* for more information.
- Add Partition. See *Adding a Partition* for more information.

By default, a site and a partition are available. You can associate the alarm input to them or create new.

To add an alarm input

1. Click the **Configurator** tab.

2. Expand the **Devices** branch in the navigation area, and then click **Alarm Inputs**. The **Alarm Input** screen appears in the display area.
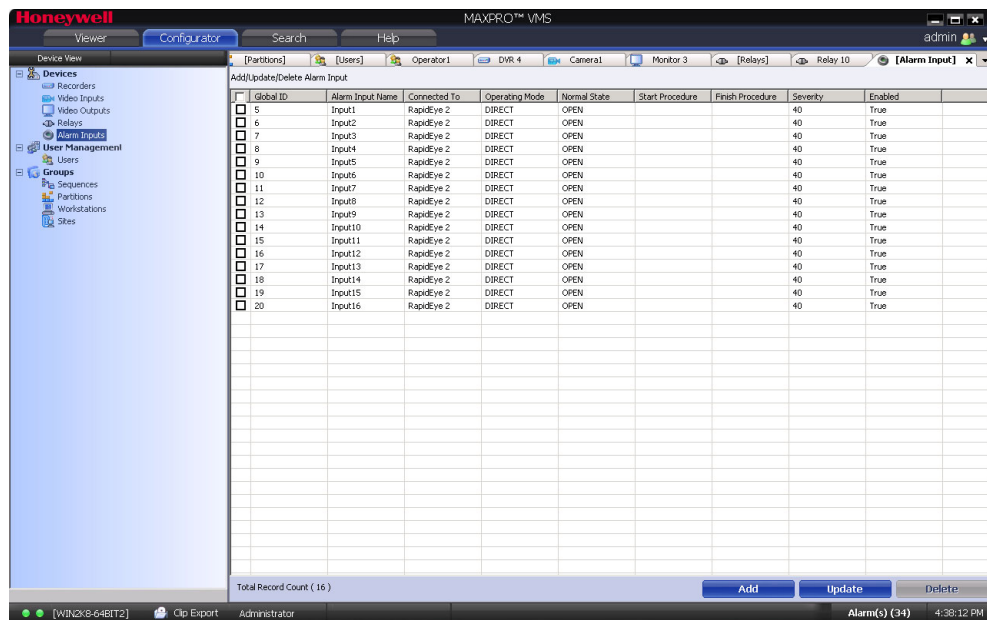

Figure 3-17   Alarm Input

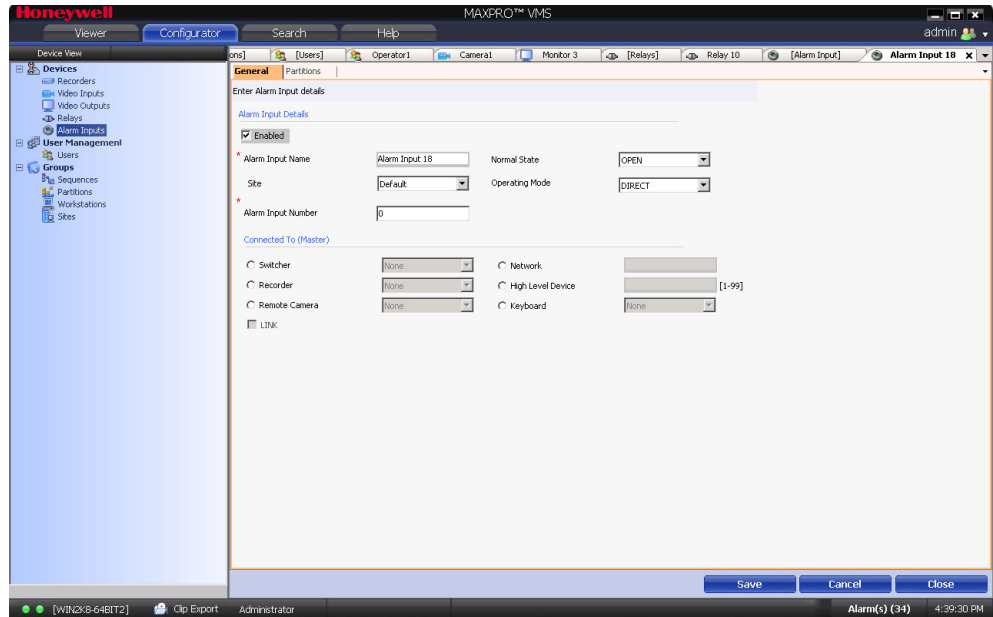3. Click **Add**. The **Alarm Input** screen appears.

Figure 3-18   Adding an Alarm Input

4. The **Enabled** check box is selected by default. Clear this check box to disable the alarm input.

5. In the **Alarm Input Name** box, type the alarm input name.

6. From the **Site** drop-down list, select the required site.

7. In the **Alarm Input Number** box, type the alarm input number

8. In the **Normal State** drop-down list, select **Open** or **Closed** as the normal state for the alarm input.

9. From the **Operating Mode** drop-down list, select the required mode. The available modes are listed in the following table.

Modes	Description
Direct	The alarm condition activates or de-activates when it physically changes state, or is set or cleared with macros.
Latched	Once the alarm is triggered, it remains active until it is reset manually using the alarm clear option.
Toggle	The first time the alarm is triggered it becomes active, the next time it is cleared.

10. In the **Connected To** section, click one of the devices for which you want to add the alarm input. The following table lists the available devices to which an Alarm Input can be connected.

Device	Description
Recorder	For details on connecting a recorder, see *Connecting Alarm Input to the Recorder*.

11. Select the **LINK** check box if you want to broadcast the status changes and actions performed on the current alarm input on the network.

12. Associate Partition.

13. Click **Save**.

> **Note:** You can switch on or switch off an alarm input using the **On** and **Off** buttons under **Trigger Alarm Input**.

CONNECTING ALARM INPUT TO THE RECORDER

To connect alarm input to a recorder

1. From the **Recorder** drop-down list, select the required recorder. The **recorder settings** appear.

2. In the **Alarm Input ID** text box under Input Settings tab, type the Alarm Input ID.

3. On the **Event Settings** tab, specify the following details.

Settings	Description
Event Description	Type a description for the event.
Start Macro	Type an alarm start macro. When an alarm condition is detected for an alarm input, the alarm start macro is executed.
Finish Macro	Type an alarm finish macro. When a detected alarm input returns to its normal state, the alarm finish macro is executed.
Global ID	Type a unique global ID. If the Global Event ID is not assigned, MAXPRO VMS assigns a unique global ID automatically when you save the event settings.
Severity	Type a severity level. **Note:** Severity level is set to trigger alarms when the threshold is met. For example, if the threshold is set 50 in the preferences tab, an alarm is triggered when threshold becomes 51.

4. On the **Event Groups** tab, select the check box corresponding to the event group that you want to associate to the alarm input, and then click **Associate**.

5. Click **Save**.

ASSOCIATING PARTITIONS TO THE ALARM INPUT

You can associate partition to alarm inputs. Associating a partition to an Alarm Input restricts a non - associated user from viewing or modifying the Alarm Input.

Before you begin

• Add a Partition. See *Adding a Partition* for more information.

To associate partitions to alarm input

1. Click the **Partitions** tab. The screen displays the associated partitions, if any.

2. Click **Associate**. The **Select Partitions** dialog box appears.

3. Select the check box corresponding to the partition name you want to associate.

4. Click **OK**. The selected partition is displayed in the list of associated partitions.

To disassociate partitions from alarm input

- Select the check box corresponding to the partition name, and then click **Remove**.

DELETING THE ALARM INPUT

You can delete an alarm input when you do not want external device to raise an alarm. All the associations made to the alarm inputs are removed, when you delete it.

Before you begin

- Disassociate Partitions. *Associating Partitions to the Alarm Input* for more information.

To delete alarm input

1. Click the **Configurator** tab.

2. Expand **Devices** in the navigation area, and then click **Alarm Inputs**. The **Alarm Input** screen appears in the display area.

3. Select the check box corresponding to the alarm inputs that you want to delete.

4. Click **Delete**. A confirmation message appears on the top of the display area.

5. Click **Yes**.

UPDATING THE ALARM INPUT

You can update alarm input to change its association with a partition and also to modify its settings.

To update alarm input

1. Click the **Configurator** tab.

2. Expand **Devices** in the navigation area, and then click **Alarm Inputs**. The **Alarm Input** screen appears in the display area.

3. Select the check box corresponding to the alarm input you want to update.

4. Click **Update**. The settings for the alarm input appear. You can modify the settings.

USERS

A user in MAXPRO VMS is responsible for performing various operations like viewing video, reporting alarms, and other video surveillance tasks. You can create two types of users in MAXPRO VMS —System Local User and Windows User. Any new user when added is automatically associated to all the event groups and joystick controller. You can remove the association of a user to event groups and joystick controller to limit the access.

SYSTEM LOCAL USER

A system local user can access only MAXPRO VMS. This user may not have the access to client workstation.

WINDOWS USER

A windows user can access client workstation and also MAXPRO VMS.

USERS AND ROLES

Roles are provided to a user. These roles comprise in them a set of privileges. When a user is associated to a role, the privileges that are available for the role are also assigned to the user.

THE "ADMIN" USER

The first time MAXPRO VMS is deployed at a site, a default user named "admin" is created. The "admin" user is assigned the role "administrator". Only this user can add new users, assign roles to the added users, add or modify the privileges to the users, and also assign the users to partitions.

USERS AND PARTITIONS

A partition is a logical grouping of video devices. Partitions are associated to users. Users are directly associated to the partition which is associated to the role. Users can view and manage the video devices that are grouped inside the associated partitions. A user can also be associated to other partitions which are not associated to the assigned role.

USERS AND WORKSTATIONS

A workstation is a computer in which the MAXPRO VMS user interface is installed. Workstations are associated to Users. Users associated to a workstation can log on to MAXPRO VMS user interface and perform various actions. Users are directly associated to the workstation which is associated to the role. A user can be associated to other workstations also which are not associated to a role.

ADDING A USER

You can add a user by providing a unique user name and a password.

Only the "admin" user can add a new user in MAXPRO VMS.

After you add a new user, you can assign a role to it. After the role is assigned to the user, the privileges that are defined as a part of the role are also added to the user. You can add or remove any privileges for the specific user-role combination using the "Customized Privileges" option.

By default, a partition and a workstation are available. You can associate a user to them or create new.

To add a user

1. Click the **Configurator** tab.

2. Expand **User Management** in the navigation area, and then click **Users**. The **Users** screen appears in the display area.
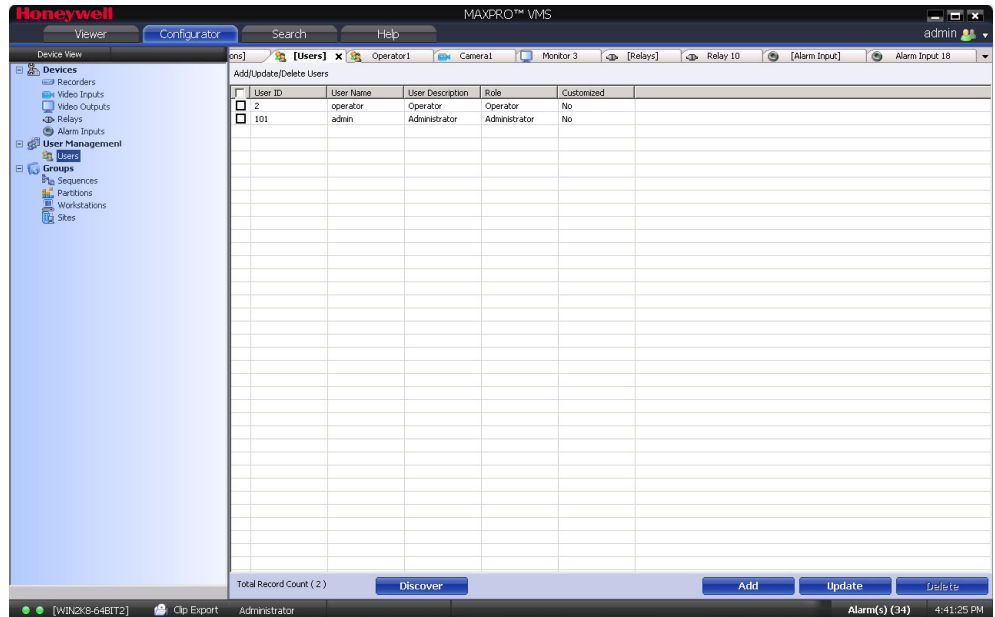

Figure 3-19   Users

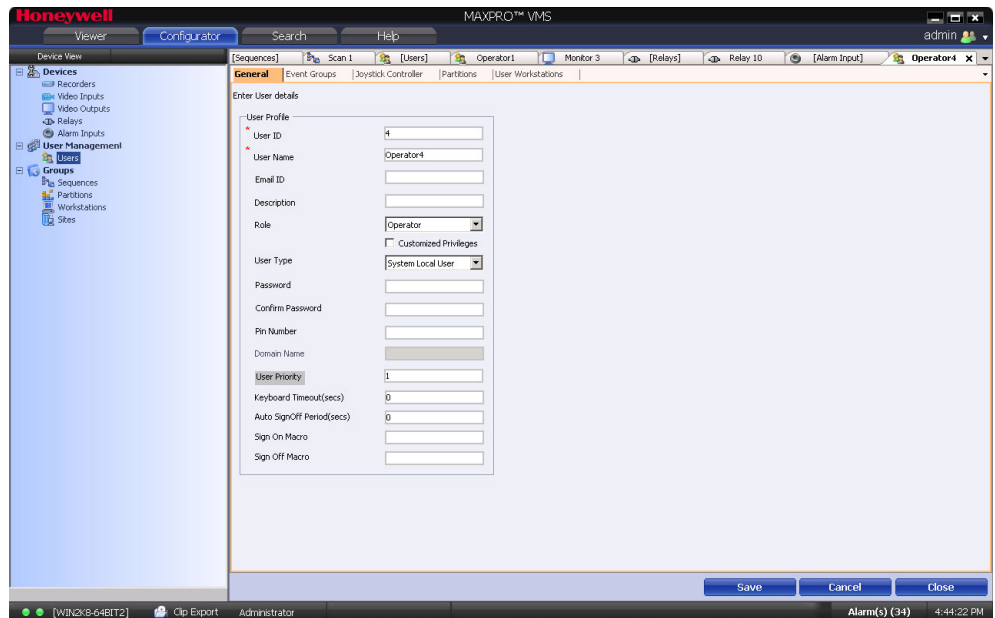3. Click **Add**. The **General Settings** tab appears.

Figure 3-20   Adding User

4. In the **User ID** box, type a name for the user.

5. In the **User Name** box, type the name of the user.

6. In the **Description** box, type the required description.

7. In the **Role** box, select the role you want to assign to the user.

8. Select the **Customized Privileges** check box to enable or disable privileges for a user. The following table lists the privileges you can enable for a user.

Privileges	Description
Viewer	
Viewer Access	To restrict access to viewer tab.
Site View	To view sites.
Alarm	To view alarms.
ImageClipTreeView	To view image clip tree.
MyDevices	To view MyDevices.
Reloading Device Connections	To reload the device connections.
Iris Access	To access iris of the camera.
Focus Access	To access focus access of the camera.
Monitors	To view monitors.
Sequences	To view sequences.
Salvo Views	To view salvo.
Add My Salvo View	To add my salvo view.
Modify My Salvo View	To modify my salvo view.
Delete My Salvo View	To delete my salvo view.
Add Shared Salvo View	To add shared salvo view.
Modify Shared Salvo View	To modify shared salvo view.
Delete Shared Salvo View	Delete Shared Salvo View
Enable/Disable Camera	To enable or disable the cameras.
Time Line	
TimeLine Access	To allow user to access TimeLine window.
Clip Delete	To delete video clips.
Image Delete	To delete images.
Create Loop	To allow user to create loop.
Update loop	To allow user to update loop.
Clip Creation	To allow user to create clips.
Configurator	

Privileges	Description
Configurator Access	To allow user to access configurator.
Add Relay	To add relay.
Update Relay	To update relay.
Delete Relay	To delete relay.
Add Alarm Input	To add an alarm input.
Update Alarm Input	To update an alarm input.
Delete Alarm Input	To delete an alarm input.
Cold/Warm Boot	To allow user to boot.
Add User	To add new users.
Delete User	To allow user to delete new users.
Modify User Privilege	To modify user privilege.
Add Recorder	To allow user to add recorder.
Update Recorder	To allow user to update recorder.
Delete Recorder	To allow user to delete recorder.
Add Video Input	To allow user to add Video Input.
Update Video Input	To allow user to update video input.
Delete Video Input	To allow user to delete video input.
Add Video Output	To allow user to add video output.
Update Video Output	To allow user to update video output.
Delete Video Output	To allow user to delete video output.
Add Sequence	To allow user to add sequence.
Update Sequence	To allow user to update sequence.
Delete Sequence	To allow user to delete sequence.
Add Partition	To allow user to add a partition.
Update Partition	To allow user to update a partition.
Delete Partition	To allow user to delete a partition.
Add Site	To allow user to add a site.
Update Site	To allow user to update a site.
Delete Site	To allow user to delete a site.
Add Workstation	To allow user to add a workstation.
Update Workstation	To allow user to update a workstation.
Delete Workstation	To allow user to delete a workstation.
Search	

Privileges	Description
Search Access	To allow user to access search features.
Controller Operator Privileges	
Display Name	To display the users name.
Multiple SignOn	To allow user to be signed on to more than one keyboard at a time.
Swap PTZ Up Down	To reverse the up/down control of a pan/tilt camera when it is being used by user.
Scan Set	To allow user to edit scan sequences.
Camera View Set	To allow user to set PTZ camera views.
UserMacro Set	To allow user to create user keyboard macros
Camera Analog PTZ	To allow user to set PTZ options for analog camera.
Standard Device	To allow user to control standard device functions.
Video Recorder	To allow user to control VCR functions.
Controller Menu Access	
Set Clock	To allow user to set the system time and date.
SignOff	To allow user to sign off from a key board.
Alarm Enable Disable	To allow system user to enable or disable system alarms.

Note: To enable all the privileges select the **Allow All** check box and to deny all the privileges, select the **Deny All check** box.

---

9. From the User Type drop-down list, select **System Local User** or **Windows User**.

10. In the **Password** box, type the user password.

11. In the **Confirm Password** box, retype the user password.

12. In the **Pin Number** box, type the Pin number. The Pin number is required only for Ultrakey keyboard and not required for MAXPRO VMS client login.

13. In the **User Priority** box, type the priority of the user.

14. In the **Keyboard Timeout (Sec)** box, type the time out value.

15. In the **Auto SignOff Period (Sec)** box, type the time out value.

16. In the **Sign On Macro** box, type the sign on macro.

17. In the **Sign Off Macro** box, type the sign off macro.

18. Associate Partitions. See *Associating Partitions to the User* for more information.

19. Associate Joystick Controllers. See *Associating joystick controller to users* for more information.

20. Associate Event Groups. See *Associating Event Groups to Users* for more information.

21. Associate Workstations. *Associating Workstations to the Users* for more information.

22. Click **Save**.

ASSOCIATING PARTITIONS TO THE USER

You can associate partitions to a user. Associating partitions to a user enables the user to perform video surveillance tasks for all the video devices that are grouped in the partition.

You can associate more than one partition to a user.

Before you begin

• Add a Partition. See *Adding a Partition* for more information.

To associate partitions to a user

1. Click the **Partitions** tab. The screen displays the associated partitions, if any.
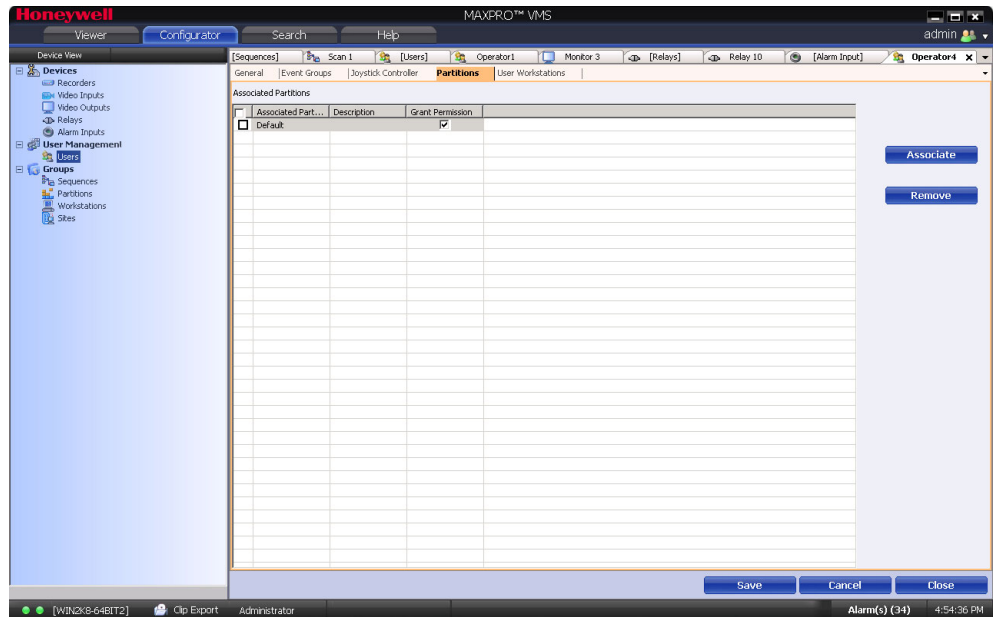
Figure 3-21   User Partitions

2. Click **Associate**. The **Select Partitions** dialog box appears.

3. Select the check box corresponding to the partition name you want to associate.

4. Click **OK**.

To disassociate partitions from a user

• Select the check box corresponding to the partition name, and then click **Remove**.

ASSOCIATING WORKSTATIONS TO THE USERS

You can associate workstations to users to log on to MAXPRO VMS user interface and perform various actions.

Before you begin

• Add a Workstation. *Adding a Workstation* for more information.

To associate a user to workstation

1. Click the **User Workstations** tab. The screen displays the associated workstations if any.
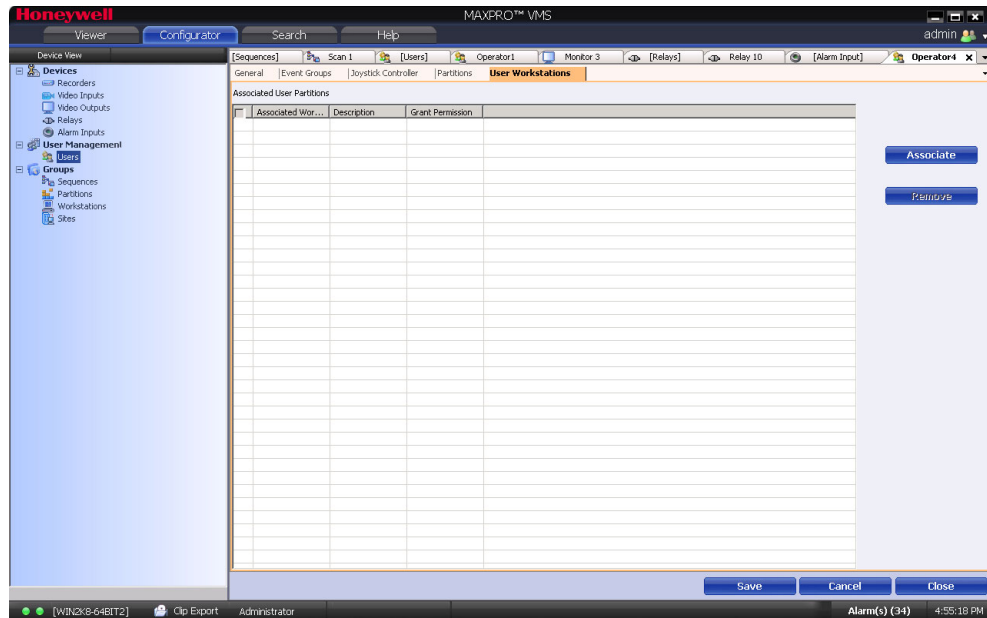
Figure 3-22   User Workstations

2. Click **Associate**. The **Select User Workstation** dialog box appears.

3. Select the check box corresponding to the workstation name you want to associate.

4. Click **OK**.

To disassociate workstation from a user

• Select the check box corresponding to the workstation name, and then click **Remove**.

ASSOCIATING JOYSTICK CONTROLLER TO USERS

You can associate users to joystick controllers to perform video surveillance tasks in MAXPRO VMS.

Before you begin

• Add a joystick controller.

To associate the joystick controller to a user

1. Click the **Joystick Controller** tab. The screen displays the associated joysticks if any.
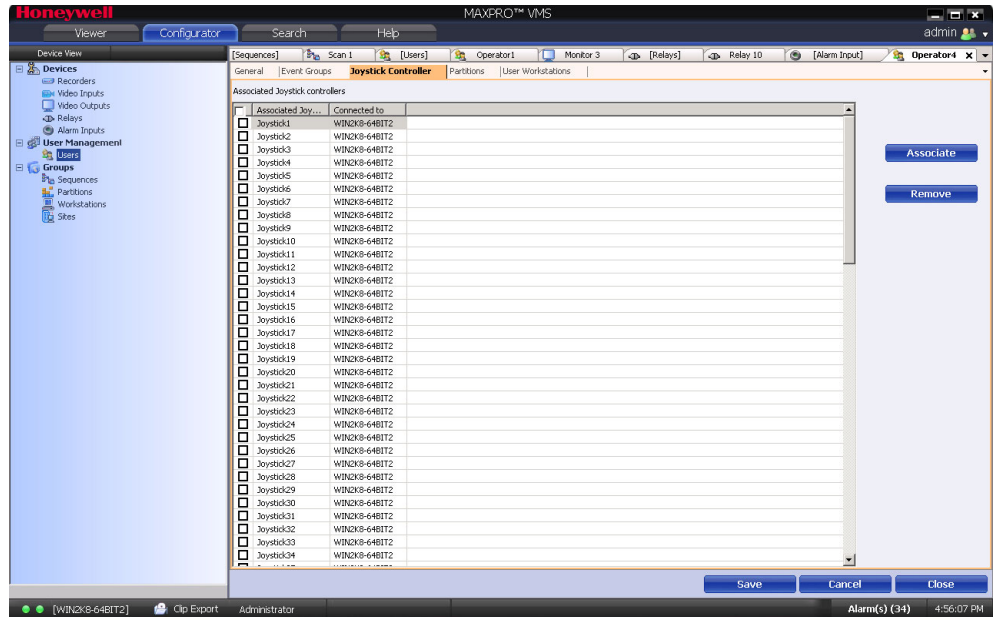
Figure 3-23   User Joystick Controller

2. Click **Associate**. The **Select Joystick Controller** dialog box appears.

3. Select the check box corresponding to the joystick name you want to associate.

4. Click **OK**.

By default, all the joystick controllers are associated when a user is added. You can remove the joystick controllers that you do not require.

To disassociate Joystick Controller from user

• Select the check box corresponding to the joystick name, and then click **Remove**.

ASSOCIATING EVENT GROUPS TO USERS

You can associate a user to a event group to acknowledge the event that occurs in it.

Before you begin

• Add Event Group.

To associate a event group to a user

1. Click the **Event Groups** tab. The screen displays the associated event groups if any.
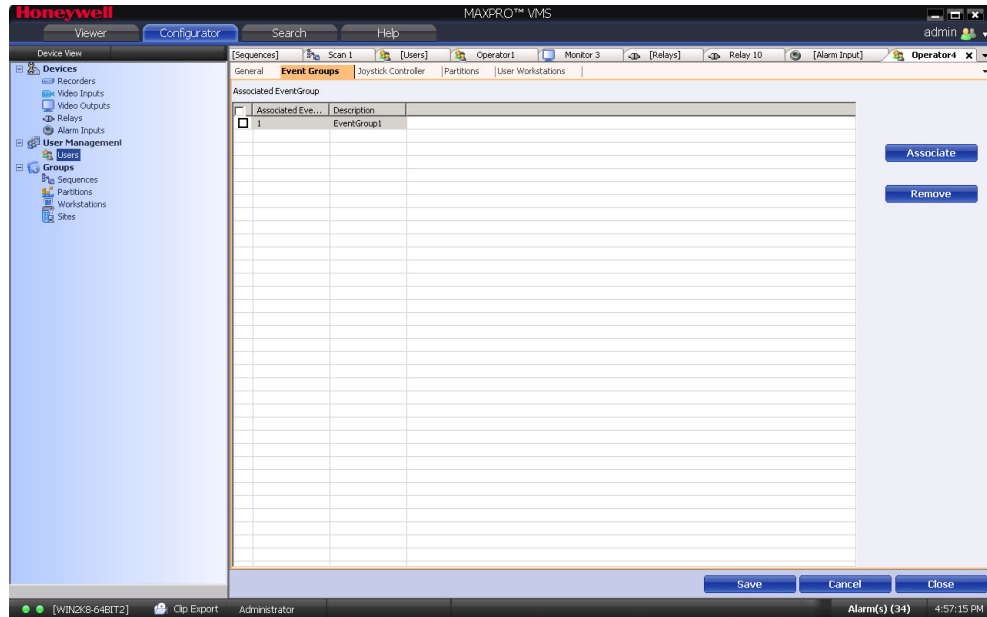
Figure 3-24   User Event Groups

2. Click **Associate**. The **Select Event Groups** dialog box appears.

3. Select the check box corresponding to the Event Group name you want to associate.

4. Click **OK**.

To disassociate event group from a user

•   Select the check box corresponding to the Event Group name, and then click **Remove**.

DISCOVERING AND IMPORTING USERS

You can discover users connected to a domain or workstation and add them to the MAXPRO VMS.

To discover and import users

1. Click the **Configurator** tab.

2. Expand **User Management** in the navigation area, and then click **Users**. The **Users** screen appears in the display area.

3. Click **Discover**. The **User Discovery Details** screen appears.

4. In the **Domain**/**Workgroup** drop-down list, select the domain or workgroup.

5. In the **Name Filter** box, type the name which you want to discover.

Note: If you want to search more than one name belonging to the same category, type the full name or partial name succeeded by a "*", and then click Query. For example, to search users who have their first name as John, type John* or Joh*, and then click Query.

---

6. Click **Query**. The results are displayed in the Results section. The users who are not added to MAXPRO VMS are listed in green color.

7. Select the check box corresponding to the required user.

8. In the **User Role** drop-down list, select a role for the user.

9. Click **Import**. The user is added and his name is listed in red color.

Note: You can skip step 5 if you do not want to use name filter option.

---

10. Click **Reset** to restore default settings or to discover new users.

UPDATING A USER

You can modify the settings of user to change the user ID, password and enable privileges. You can update user settings only if you have admin rights.

To update a user

1. Click the **Configurator** tab.

2. Expand **User Management** in the navigation area, and then click **Users**. The **Users** screen appears in the display area.

3. Select the check box corresponding to the user.

4. Click **Update**. The general settings for the user appear. You can modify the settings.

DELETING A USER

You can remove a user from MAXPRO VMS. When you delete a user, all the associations made to the user are also removed.

To delete a user

1. Click the **Configurator** tab.

2. Expand **User Management** in the navigation area, and then click **Users**. The **Users** screen appears in the display area.

3. Select the check box corresponding to the user you want to delete.

4. Click **Delete**. A message asking for confirmation appears on the top of the display area.

5. Click **Yes**.

ROLES

The users in MAXPRO VMS perform various video surveillance operations. The surveillance operations can be monitoring the live video, recording scenes of interest and so on. Some of these operations can be critical while some can be routine ones that are performed every day.

A user can be responsible for carrying out the routine tasks or critical tasks. This responsibility for performing various tasks is provided to the users by means of roles. With every role, there are a set of predefined privileges that are also assigned to the user. While a role can be just a label that is assigned to a user, like Operator or Administrator, it is the privileges that provide the right and responsibility for carrying out the operations.

Administrator and operator are the predefined roles in MAXPRO VMS and consists of a set of privileges. The role Administrator cannot be deleted or updated. Apart from the predefined roles, you can add a new role with a set of privileges. When you associate users to the role, the privileges that are defined as a part of the role is also added to the user. Any new partition and workstation added are automatically associated to the administrator role. If required, you can also add or remove privileges for a user-role combination. The modified set of privileges is applied only to the specific user-role combination and does not change the privilege set for the role.

ROLES AND PARTITIONS

A partition is a logical grouping of video devices. Partitions are associated to Roles. Roles are assigned to users, which enable them to view and manage the video devices that are grouped inside the associated partitions.

ROLES AND WORKSTATIONS

A workstation is a computer in which the MAXPRO VMS user interface is installed. Workstations are associated to Roles. Roles are assigned to users which enables them to log on to MAXPRO VMS user interface and perform various actions.

SEQUENCES

A sequence is a set of live video streamed one after the other from cameras for a specified time interval. You can select the cameras or presets to be included in a sequence and also specify the time interval for which the video from each camera or preset must be displayed.

Note: Presets must be defined for the cameras before including them in the sequence

---

CREATING A SEQUENCE

You can create a sequence to display video that is being captured from different cameras located across the sites.

To create a sequence

1. Click the **Configurator** tab.
2. Expand **Groups** in the navigation area, and then click **Sequences**. The **Sequences** screen appears in the display area.
3. Click **Add**. The **Scan** screen appears.
4. From the **Sequence** Type drop-down list, select the required sequence type. The available sequence types are listed in the table.

Sequence Type	Description
Scan	During a Scan sequence operation, camera selection entries are wrapped around when the end of the scan sequence is reached. This mode of operation continues until the scan sequence is halted.
Tour	During a Tour sequence, the scan sequence is stepped through only once.
Index	When Index is selected for this field, it indicates that the table is used to hold information for complex macro programming.

5. In the **Description** box, type a name for the sequence.
6. Follow steps 7 through 11 if you select Scan or Tour as scan type.

If you select index type:

- In the **Sequence** Type drop-down list, select **Index**.
- Type the index value corresponding to the camera ID.
- Click **Save**.

7. In the **Dwell Time** box, type the dwell time, in seconds, for the camera to display video before advancing to next camera.

8. In the **Select Cameras** list, click [...] . The **Select from List** dialog box appears.

9. Select the check box corresponding to the cameras that must be included in the sequence.

10. Click **OK** to close the **Select from List** dialog box. The cameras included in the sequence appear in the Select Cameras list.

11. To include presets in the sequence, type the preset number in the **Preset** column next to a camera. The video from each camera in the list is displayed sequentially.

Note: If the value is zero in the preset column, the presets are not included in the sequence. By default, presets are zero for a fixed camera.

---

12. Click **Save**.

PLAYING A SEQUENCE

To play a sequence

1. Click the **Viewer** tab.

2. Click the **Sequences** window.

3. Double-click the sequence you want to play or select the sequence, and then click Play Sequence. You can drag and drop the sequence on a panel in the salvo layout.

You can also play a sequence using the joystick controller (Ultrakey keyboard). See About *Relays* for more information.

REARRANGING THE CAMERAS IN THE SEQUENCE

You can rearrange the cameras and presets in the sequence. When you rearrange them, the sequence of live video streaming from each of the cameras is altered based on the rearrangement.

To rearrange the cameras

1. Select the check box corresponding to the camera you want to rearrange inside the sequence.

2. Click ⬆ to move the camera one row up, or click ⬇ to move the camera one row down.

3. Click **Save**.

REMOVING CAMERAS FROM THE SEQUENCE

You can delete a camera from a sequence, when you do not want to view the live video from it as a part of the sequence. \

To remove cameras from a sequence

1. In the **Select Cameras** list, select the check box corresponding to the cameras you want to remove.

2. Click the 🗑 to remove the cameras from the sequence.

3. Click **Save**.

REMOVING PRESETS FROM THE SEQUENCE

You can remove a preset when you do not want it to be associated with a sequence.

To remove presets from a camera

1. In the **Preset** column, delete the preset number next to the camera.
2. Click **Save**.

LOCKING A SEQUENCE

You can lock an existing sequence to prevent the users from modifying it.

To lock a sequence

1. Select the **Locked** check box.
2. Click **Save**.

UPDATING A SEQUENCE

Updating a sequence allows you to change the sequence of video display from cameras.

To update a sequence

1. Click the **Configurator** tab.
2. Expand **Groups** in the navigation area, and then click **Sequences**. The **Sequences** screen appears in the display area.
3. Select the check box corresponding to the sequence you want to update.
4. Click **Update**. You can change the sequence of the cameras.

DELETING A SEQUENCE

To delete a sequence

1. Click the **Configurator** tab.
2. Expand **Groups** in the navigation area, and then click **Sequences**. The **Sequences** screen appears in the display area.
3. Select the check box corresponding to the sequence.
4. Click **Delete**. A message asking for confirmation appears on the top of the display area.
5. Click **Yes**.

PARTITIONS

A partition is a logical grouping of recorders, video inputs, switchers, and video outputs across various sites. Partitions are created for granting specific access rights to the users of MAXPRO VMS.

You can add a new partition by specifying a unique ID and a description. After adding a partition, you can add video devices to it.

You can also delete a partition when it is no longer needed. Before deleting a partition, disassociate the video devices from it and also unassign it from the user.

DEFAULT PARTITION

A default partition is automatically created in MAXPRO VMS and all the newly added video devices are associated to it. Since, all the new devices are a part of the default partition, all users logging on to MAXPRO VMS can view them.

PARTITIONS AND USERS

Partitions are associated to the users. They can view and manage the video devices that are grouped inside the associated partitions.

PARTITIONS AND ROLES

Partitions are associated to roles. Roles are assigned to users. A user can view and manage the video devices that are grouped inside the associated partitions.

PARTITIONS AND VIDEO DEVICES

Partitions are associated to devices like cameras and recorders, Users associated to a partition can view and manage all the devices grouped inside it.

ADDING A PARTITION

You can add a partition by specifying a unique identification number and a description.

Note: By default, a global partition is added in MAXPRO VMS and all video devices are associated to it.

To add a partition

1. Click the **Configurator** tab.
2. Expand **Groups** in the navigation area, and then click **Partitions**. The **Partitions** screen appears in the display area.
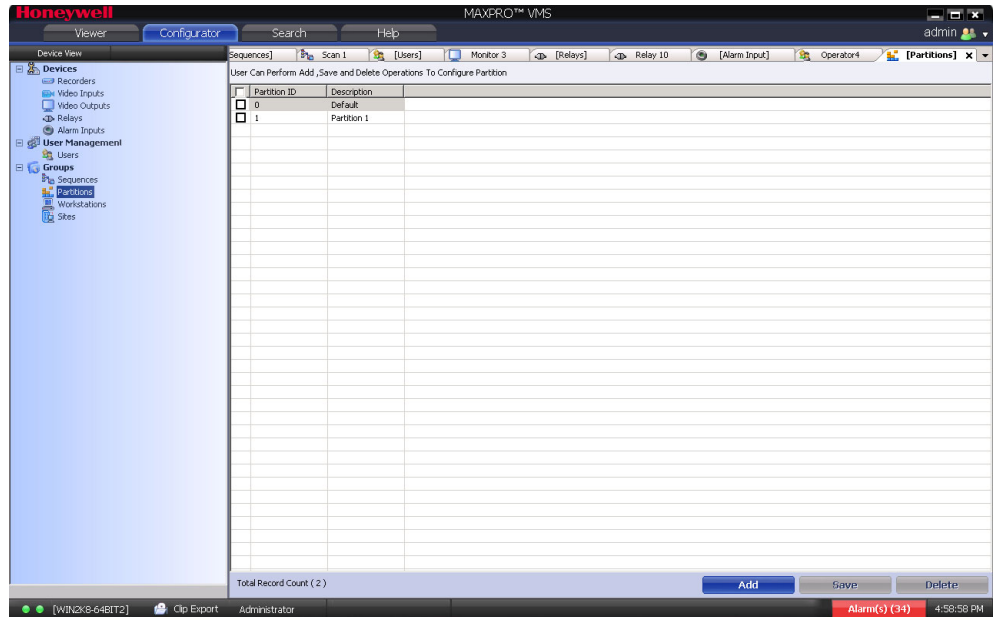
*Figure 3-25   Partitions*

3. Click **Add**. By default, the **Partition ID** and **Description** are displayed.

Note: You can change the default **Partition ID** and **Description**.

---

4. Click **Save**.

DELETING A PARTITION

You can delete a partition when you no longer need it. Before deleting a partition, ensure that you disassociate all video devices and unassign the user.

Before you begin

Disassociate all the devices, relays, users, and roles associated to the partition.

To delete a partition

1. Click the **Configurator** tab.

2. Expand **Groups** in the navigation area, and then click **Partitions**. The **Partitions** screen appears in the display area.

3. Select the check box corresponding to the partition you want to remove.

4. Click **Delete**. A message asking for confirmation appears on the top of the display area.

5. Click **Yes**.

WORKSTATIONS

A client workstation is a computer in which the MAXPRO VMS user interface is installed. A user can log on to MAXPRO VMS interface through workstations and perform various operations.

WORKSTATIONS AND USERS

Users are directly associated to the workstation which is associated to the role. A user can be associated to other workstations which are not associated to a role.

See *Associating Workstations to the Users* for more information.

ADDING A WORKSTATION

A user can log on to MAXPRO VMS user interface through client workstation. Workstation name is the computer name of the client computer.

To add a workstation

1. Click the **Configurator** tab.
2. Expand **Groups** in the navigation area, and then click **Workstations**. The **Workstations** screen appears in the display area.
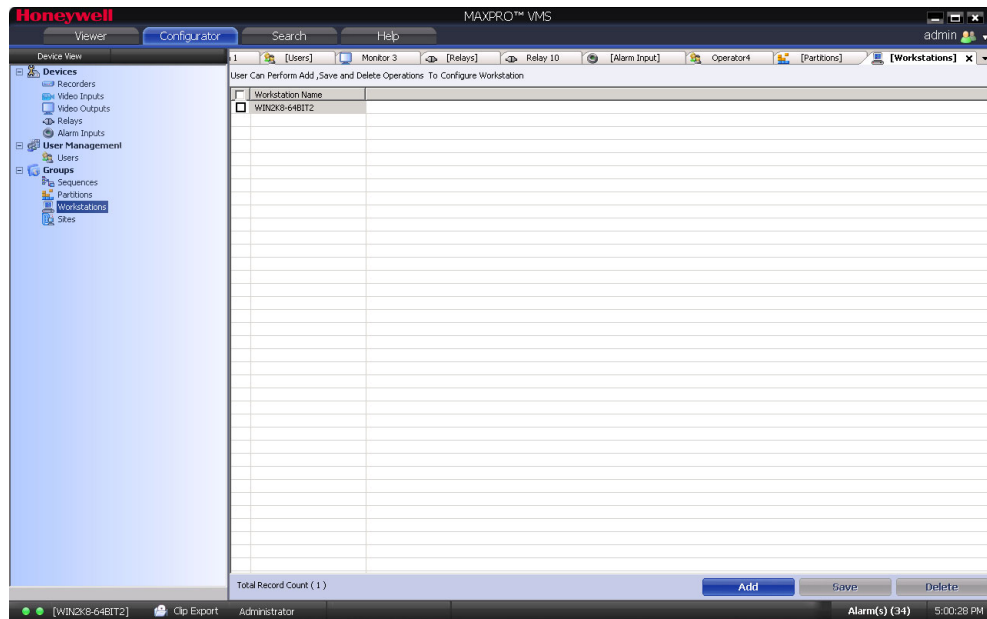

Figure 3-26   Workstations

3. Click **Add**. A new workstation gets added to the list.
4. Rename the workstation name if necessary.
5. Click **Save**.

DELETING A WORKSTATION

You can delete a workstation. When you delete a workstation, all the associations made to the workstation are also removed.

To delete a workstation

1. Click the **Configurator** tab.

2. Expand **Groups** in the navigation area, and then click **Workstations**. The **Workstations** screen appears in the display area.

3. Select the check box corresponding to the workstation you want to remove.

4. Click **Delete**. A message asking for confirmation appears on the top of the display area.

5. Click **Yes**.

SITE

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Site is a location where video input devices are situated. You can define more than one site in MAXPRO VMS. A default site is automatically created in MAXPRO VMS and all the video input devices can be associated to it.

ADDING A SITE

You can add a site to associate video inputs, recorders, switchers, video outputs, and workstations.

To add a site

1. Click the **Configurator** tab.
2. Expand **Groups** in the navigation area, and then click **Sites**. The **Sites** screen appears in the display area.
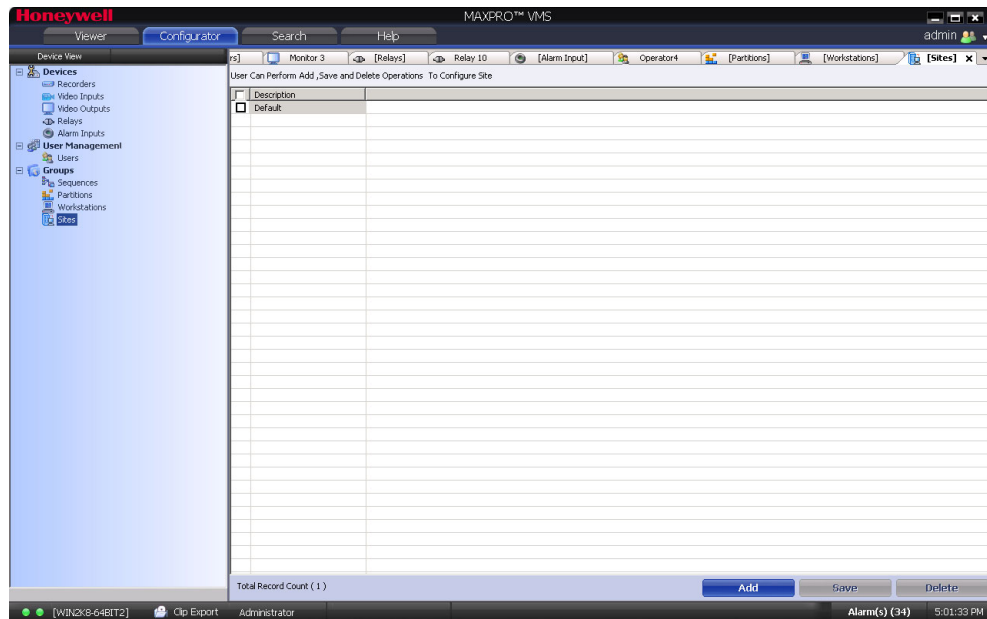
Figure 3-27   Sites

3. Click **Add**.
4. A new site gets added to the list. You can rename the site name if necessary.
5. Click **Save**.

DELETING A SITE

Before you begin

• Disassociate all the associations to the site.

To delete a site

1. Click the **Configurator** tab.
2. Expand **Groups** in the navigation area, and then click **Sites**. The **Sites** screen appears in the display area.
3. Select the check box corresponding to the site you want to delete.

4. Click **Delete**. A message asking for confirmation appears on the top of the display area.

5. Click **Yes**.

MONITORING A SITE

SALVO LAYOUTS AND PANELS

The salvo layout is an arrangement of panels that displays video. You can view the salvo layout when you select the Viewer tab. At a time, you can select one of the salvo layouts from the toolbar on the top of the screen. For example, if you want to view video from two cameras, select a salvo layout with two or more panels.

Following are the features of the salvo layout.

EASY VIDEO SOURCE SELECTION

You can drag and drop a video source such as a camera or scan sequence from the Site window on the Salvo layout. The video is displayed in the panel of the salvo layout. You can also double-click the video source name to select it.

MULTIPLE VIDEO SOURCE SELECTION

You can drag and drop multiple video sources from the Site window on the salvo layout. The salvo layout starts displaying video from the devices in different panels

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Note: Ensure that enough panels are available before you drag and drop multiple video sources on the salvo layout. This is necessary to avoid automatic closing of the present video display. For example, if a salvo layout consists of only one panel displaying video, select another salvo layout containing more panels before dragging and dropping multiple video sources.

MULTIPLE PANEL SELECTION

You can select multiple panels on the salvo layout. This enables you to perform actions on multiple video displays simultaneously. For example, you can select multiple video display and start recording of video, apply color correction, and perform other similar actions. See *Video Control Options in Panel Toolbars*.

CONTEXT MENU COMMANDS

When you right-click on a panel, a context-menu appears. The commands in the context-menu vary based on the type of video display such as live or recorded. See *Viewing Live Video*.

ENLARGED DISPLAY

You can double-click a panel to maximize its size and view an enlarged display of the video. Double-click the panel again to restore the panel to its original size.

SALVO VIEWS

Salvo views enable you to save a salvo layout. The cameras and scan sequences displaying video in a salvo layout is saved in a salvo view. When you want to view video from the same cameras and scan sequences again, you can select the corresponding salvo view.

IDENTIFYING THE TYPE OF VIDEO DISPLAY

The type of video displayed in a panel is indicated. For example, **Live** for live video and **Rec** for recorded video.

SWAPPING OF VIDEO DISPLAY BETWEEN PANELS

The video display in a panel can be dragged and dropped on another panel. This feature lets you swap the video display between panels.

ADDING DEVICES TO MY DEVICES WINDOW

The video display in a panel can be dragged and dropped on **My Devices** window. This adds the video source such as the camera or sequence to the tree structure in **My Devices** window.

PANEL TOOLBARS

Hovering the mouse over a panel displays a toolbar. The toolbar that appears on top of a panel enables you to view the name of the video source and close the video display. The toolbar that appears on the bottom of a panel consists of icons that enable you to zoom in and zoom out the video display, cancel the digital PTZ effects on the video display, and perform color correction on the video display. You can also move the camera to a preset position, save a preset position, and start recording of video. See Video Control Options in Panel Toolbars.

SALVO VIEW

CREATING A SALVO VIEW

1. Click the **Viewer** tab.

Note: Before you create a salvo view, select the salvo layout you want and the preferred cameras and scan sequences. The selected salvo layout, cameras, and scan sequences are saved in the salvo view.

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2. Right-click on the toolbar, and then click **Create Salvo view** or Click the ▦ on the toolbar on the top of the salvo layout. A drop down box appears.

3. To create a salvo view, in the **Enter salvo view** name box, type a name for the salvo view and click **OK**. Goto step **5**.

4. To create a shared salvo view, in the **Enter salvo view** name box, type a name for the salvo view, and then click **Shared Salvo** check box. Goto step **6**.

5. The salvo view is created and appears in the **My Salvo Views** under **Views** window.

6. The salvo view is created and appears in the **Shared Salvo Views** under **Views** window.

SELECTING A SALVO VIEW

To select a salvo view

• In the **Views** window, double-click the salvo view or drag and drop the salvo view on the salvo layout or right-click the salvo view in the **Views** window, and then click **Show**.

RENAMING THE SALVO VIEW

To rename the salvo view

1. Right-click the salvo view in the **Views** window, and then click **Rename**.

2. Type a new name for the salvo view in the Site window and press **ENTER**.

EDITING THE SALVO VIEW

To edit the salvo view

You can edit the salvo view when you want to,

• change the cameras in the existing salvo view
• change the salvo layout for the existing salvo view

CHANGING CAMERAS IN THE EXISTING SALVO VIEW

1. In the **Views** window, double-click the salvo view or drag and drop the salvo view on the salvo layout or right-click the salvo view in the **Views** window, and then click **Show**.

2. Realign the cameras or add new cameras in the same salvo view layout.

3. Click **Save Salvo View** in the salvo view pane.

CHANGING THE SALVO LAYOUT FOR THE EXISTING SALVO VIEW

Method one

1. Select a salvo layout and re-align cameras if you want.

2. In the **Views** window, right-click the salvo view for which you want to change the layout, and then click **Save**.

Method two

1. Select a salvo layout and re-align cameras if you want.

2. Click the on the toolbar on the top of the salvo layout. A drop-down list appears.

3. In the **Enter salvo view name** box, type the salvo view name for which you want to change the layout, and then click **OK**. A message asking for confirmation appears.

4. Click **Yes** to save.

> **Note:**   The above procedures for Selecting a Salvo, Renaming a Salvo, and Editing a Salvo remains the same for the Shared Salvo View.

CAPTURING SALVO IMAGE

You can capture the entire salvo view as an image and store. The image is stored in the images and clips directory.

To capture salvo image

- Click the on the toolbar on the top of the salvo layout. The salvo image is created.

DELETING A SALVO VIEW

To delete a salvo view

- Right-click the salvo view in the Site window to display a context menu. Click **Delete**. The salvo view is deleted

SALVO BAR

A salvo bar appears on top of a salvo view. The salvo bar indicates the name of the salvo view. You can save a salvo view after you realign the cameras using the Save option on the Salvo Bar. You can also use the Save As option to save an existing salvo view with a different name. The context menu options on the salvo bar include **Send Message**, **Create Salvo View**, and **FullScreen**.

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LIVE VIDEO

You can view live video and play any selected sequence using the options available in MAXPRO VMS.

VIEWING LIVE VIDEO

The panels in the salvo layout display video. You can select the video source such as cameras or sequences from the **Site** or **My Devices** window.

To view live video

1. Click the **Viewer** tab.

2. Double-click the video source in the **Site** window or **My Devices** window. You can also drag and drop the video source on a panel in the salvo layout. The live video is displayed in the panel and the label **Live** appears over the video display.
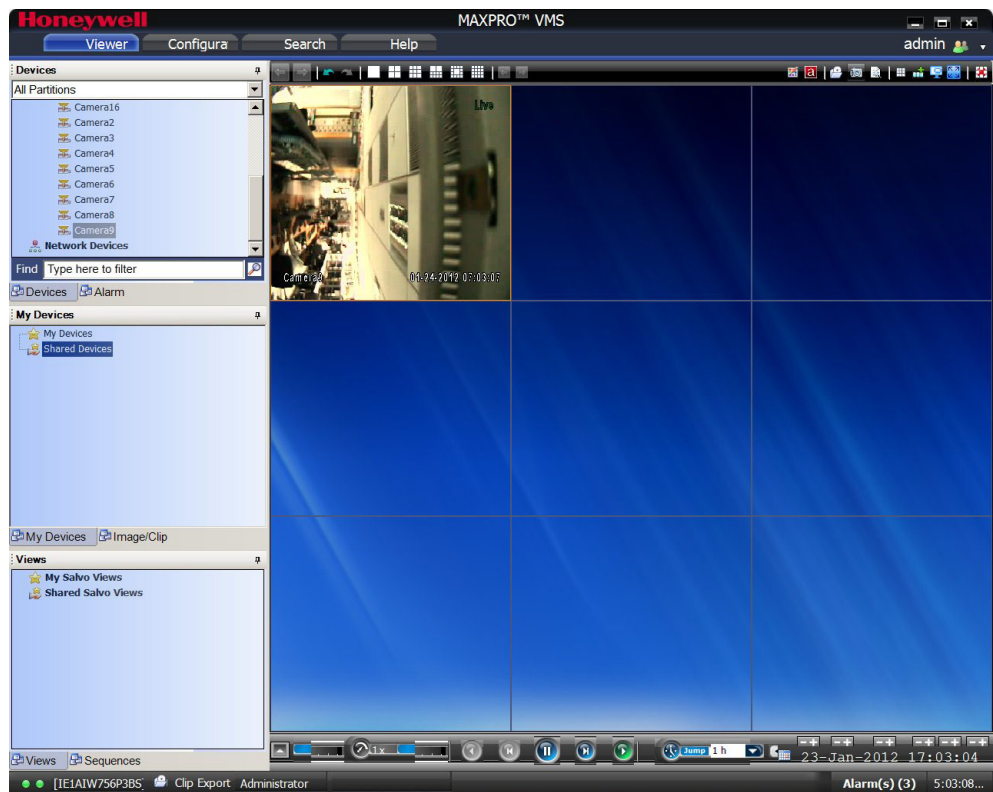
Figure 4-1   A panel displaying live video

> **Note:** The video source can also be selected using the virtual keyboard and joystick controller.

You can select multiple video sources and view live video in different panels of the salvo layout. When you hover the mouse over a video display, toolbars appear over the panel. The toolbars enable you to perform actions such as applying color correction, and so on. .

UNDO AND REDO

Use the Undo and Redo options to undo and redo the drag and drop operation of video sources to the salvo layouts.

To undo and redo the drag and drop of a video sources

1. To undo the drag and drop operation of video sources, click [   ] on the toolbar on the top of the salvo layout or press **CTRL** + **Z** keys.

2. To redo the drag and drop operation of video sources, click [   ] on the toolbar on the top of the salvo layout or press **CTRL** + **Y** keys.

Note: This undo and redo feature is applicable for changing the salvo layouts, switching between cameras and closing the camera operations only.

CONTEXT MENU OPTIONS

When you right-click on a panel displaying live video, a context menu appears. The following table lists the commands in the context menu.

Command	Click to...
Full Screen	maximize the salvo layout to full screen. Alternatively, you can click in the toolbar on the top of the salvo layout.
Remove Text Overlay	to remove text overlay displayed on the video. Alternatively, you can click in the toolbar on the top of the salvo layout.
Digital PTZ	enable digital PTZ. See Panning Tilting and Zooming for information on digital PTZ.
Mark In	add a mark in point in the timeline. You can also add a mark in point by pressing the **CTRL** + **I** keys. See *Video Recording and Viewing* for more information.
Mark Out	add a mark out point in the timeline. You can also add a mark out point by pressing the **CTRL** + **O** keys. See *Video Recording and Viewing* for more information.

Command	Click to…
Save Image	save the frame displayed in the panel as an image in the BMP format.
	Alternatively, you can click in the toolbar on the top of the salvo layout to save the image in BMP format. See Saving Images.
Save Image As	save the frame displayed in the panel in different image formats such as JPG, PNG, and GIF.
	See *Saving Images* for more information.

PLAYING A SEQUENCE

A sequence is a set of live video streamed one after the other from cameras for a specified time interval. See the chapter *"Sequences"* for information on how to create sequences.

To play a sequence

1. Click the **Viewer** tab.

2. Click the **Sequences** window.

3. Double-click the sequence you want to play or select the sequence, and then click **Play Sequence**. You can drag and drop the sequence on a panel in the salvo layout.

VIDEO RECORDING AND VIEWING

VIEWING RECORDED VIDEO

You can use the following to play recorded video:

Timeline

You can easily retrieve and view recorded video using the timeline and the date and time controls in the **Timeline** window. When you select a camera from the **Devices** window to view video, a timeline appears in the **Timeline** window. The name of the corresponding camera appears on the left of each timeline. You can add comments and mark points of interest in the timeline using the bookmark feature. The bookmarks are helpful for future review of recorded video.

You can also add mark in and mark out points in a timeline. Recorded video between a mark in and mark out point can be played repeatedly. This feature is referred to as loop playback of video.

You can view the frames from the recorded video as thumbnails in the timeline. You can also create clips from recorded video.

Player Controls

You can play recorded video at speeds ranging from 1/64X to 256X. You can also forward and reverse play the video. The frames from the recorded video can also be viewed one at a time in the panel.

Using the time jump feature, you can skip time intervals while viewing recorded video. This feature is helpful when viewing recorded video that spans across a long time interval.

See *Playing Recorded Video Using the Timeline* for more information on timeline and player controls.

TIMELINE

PLAYING RECORDED VIDEO USING THE TIMELINE

Timeline enables you to play recorded video from a particular date and time. A timescale is displayed in the lower part of the **Timeline** window. You can refer to the divisions in the timescale to locate a video recording in the timeline. Using the Date and Time calendar box in the **Timeline** window, you can select a date and time from which you want to play recorded video.

You can also add mark in and mark out points in a timeline (See *Playing Recorded Video Using Mark In and Mark Out Points in Timeline* for more information) to play a selected part of video repeatedly.

To play recorded video using the timeline

1. Click the **Viewer** tab.

2. Select the camera. To select the camera, double-click the video source in the **Site** window or **My Devices** window. You can also drag and drop the camera on a panel in the salvo layout. The video is displayed in the panel. Alternatively, you can click on a panel displaying video to select the corresponding camera from which you want to view video. A timeline appears in the **Timeline** window with the name of the camera on the left in full timeline mode.

Note: To view recorded video from multiple cameras, you can select more than one camera at a time. The cameras can also be selected using the virtual keyboard and joystick controller.

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3. Play the recorded video from a date and time in one of the following ways.

• Click on the timeline from where you want to view video. You can refer to the divisions on the timescale that is displayed in the lower part of the timeline window to locate the date and time.

Note: You can set any timescale between seconds and days using the slider. Move the slider towards left or right as required. This helps you to locate the video recording in the timeline. Click ❮❮ to view the divisions on the left of the timescale. Click ❯❯ to view the divisions on the right of the timescale.

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or

• Select the date and time in the date and time calendar

box and then click **OK** or use the

 buttons corresponding to day, month, year,

hours, minutes, and seconds to select the date and time. The video recording is played from the selected date and time.

Note: In the **Calendar** box, select the **Adjust time for DST** check box to synchronize the time to the Daylight Savings time. Daylight Saving Time (or summer time as it is called in many countries) is a way of getting more light out of the day by advancing clocks by one hour during the summer.

VIEWING THUMBNAILS

To view the thumbnail frames

• Expand the camera name in the left of the timeline. The thumbnail frames appear.

PLAYER CONTROLS

You can do the following actions using the player controls.

• Play the video

    Click the [icon] icon to play video. The icon changes to the [icon] .
    You can click this icon to pause the playing of video.

• View frames in the recorded video

    Click the [icon] icon to view the forward frames or click the [icon] icon to view the reverse frames.

• Play video that is paused

    Click the [icon] icon or the [icon] icon to forward play video.

    To reverse play the video, click the [icon] icon.

• Change the playing speed

    Hover the mouse over the [icon] while video is playing and move the slider to change the playing speed.

Note: To move the slider you can use the mouse scroll wheel. Scrolling up increases the speed and scrolling down decreases the speed.

The speed appears in the icon when you move the slider. For example, 1x in the icon indicates the playing speed.

• Skip time intervals using the time jump control

    Skipping enables you to easily locate the portion you want to view in a video recording. This is particularly useful when the video recording spans across a long time intervals.
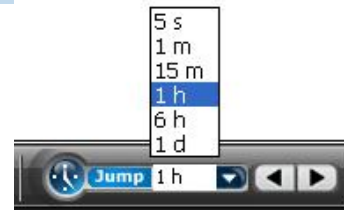
Click the drop-down arrow on the while video

is playing and select a time interval. Click the to jump backward or click

the to jump forward. The video jumps to the selected time interval.

Note: When you jump forward or jump forward, the video jumps to the selected time interval and is paused. You must explicitly click the icon to view the recorded video from the selected time interval.

- Volume control

    Hover the mouse over the while video is playing and move the slider to change the volume.

    Click the icon to mute the volume.

Note: To move the slider you can use the mouse scroll wheel. Scrolling up increases the volume and scrolling down decreases the volume.

CONTEXT MENU OPTIONS

A context menu appears when you right-click on a panel displaying live video. The following table lists the commands in the context menu.

Command	Click to...
Full Screen	maximize the salvo layout to full screen. Alternatively, you can click in the toolbar on the top of the salvo layout.
Remove Text Overlay	to remove text overlay displayed on the video. Alternatively, you can click in the toolbar on the top of the salvo layout.
Digital PTZ	enable digital PTZ. See *Panning, tilting, and zooming* for more information.

Command	Click to…
Mark In	add a mark in point in the timeline. You can also add a mark in point by pressing the **CTRL** + **I** keys. See *Video Recording and Viewing* for more information.
Mark Out	add a mark out point in the timeline. You can also add a mark out point by pressing the **CTRL** + **O** keys. See *Video Recording and Viewing* for more information.
Save Image	save the frame displayed in the panel as an image in the BMP format. Alternatively, you can click in the toolbar on the top of the salvo layout to save the image in BMP format. See *Saving Images* for more information.
Save Image As	save the frame displayed in the panel in different image formats such as JPG, PNG, and GIF. See *Saving Images* for more information.

PLAYING RECORDED VIDEO USING MARK IN AND MARK OUT POINTS IN TIMELINE

Mark in and mark out feature is useful when you want to play a portion of video repeatedly. You can add a mark in point to mark the start date and time in the timeline. To mark the end date and time, add a mark out point in the timeline. The portion of the timeline between a mark in and mark out point is referred to as loop.

You can add bookmarks between a loop to identify moments of interest in the video. The video in a loop can also be saved as a clip. See *Creating Clips* for more information.

CREATING A LOOP BY ADDING A MARK IN AND MARK OUT POINT IN THE TIMELINE

To create a loop

1. Click to select the timeline in the Timeline window in which you want to add mark in and mark out points.

or

Click a panel displaying video to select the corresponding timeline.

2. To set the start date and time of the loop, add a mark in.

   To add a mark in

   Click the point in the timeline where you want to add a mark in and click the icon. Alternatively, you can right-click the point in the timeline where you want to add a mark in and click **Add Mark In** in the context menu. The mark in can also be added from a panel displaying video. Right-click the panel and

click **Add Mark** In in the context menu. Alternatively, click ⌊ in the panel toolbar that displays recorded video. The mark in is added at the corresponding date and time in the timeline.

Note: To remove the added mark in, right-click the mark in and click **Remove Mark In** in the context menu.

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3. To set the end date and time of the loop, add a mark out.

To add a mark out

To add a mark out, click the point in the timeline where you want to add a mark out and click the ⌊ icon. Alternatively, you can right-click the point in the timeline where you want to add a mark out and click **Add Mark Out** in the context menu. The mark out can also be added from a panel displaying video. Right-click the panel and click **Add Mark Out** in the context menu. Alternatively, click ⌋ in the panel toolbar that displays recorded video. The mark out is added at the corresponding date and time in the timeline.

Note: You can add multiple mark in and mark out points in the same timeline. However, you cannot add two mark in points in succession. A mark out point needs to be added after each mark in point.

REMOVING A LOOP

To remove a loop

1. Right-click a loop in the timeline window. A context menu appears.
2. Click **Remove Loop**.

Note: Click **Remove All Loops** in the context menu to remove all the loops in the timeline.

PLAYING VIDEO FROM THE LOOP

To play video from the loop

1. To select the loop, click anywhere between the mark in and mark out points.

Note: A tool tip appears when you hover the mouse over a loop. The tool tip indicates the start time and end time of the loop.

---

2. Click the icon to play the loop. You can also right-click on a loop to display a context menu and click **Play Loop**.

TO STOP PLAYING OF VIDEO

To stop playing video

1. In the **Timeline** window, click to select the loop.

    or

    Click the panel displaying video pertaining to the loop. The corresponding timeline is selected.

2. Click the [icon] icon. Alternatively, you can right-click the loop to display a context menu and click **Stop Loop**.

VIDEO CONTROL

VIDEO CONTROL OPTIONS IN PANEL TOOLBARS

The panel toolbars appear when you hover the mouse over the video displayed in a panel. The toolbar that appears on top of a panel enables you to view the name of the video source and close the video display.
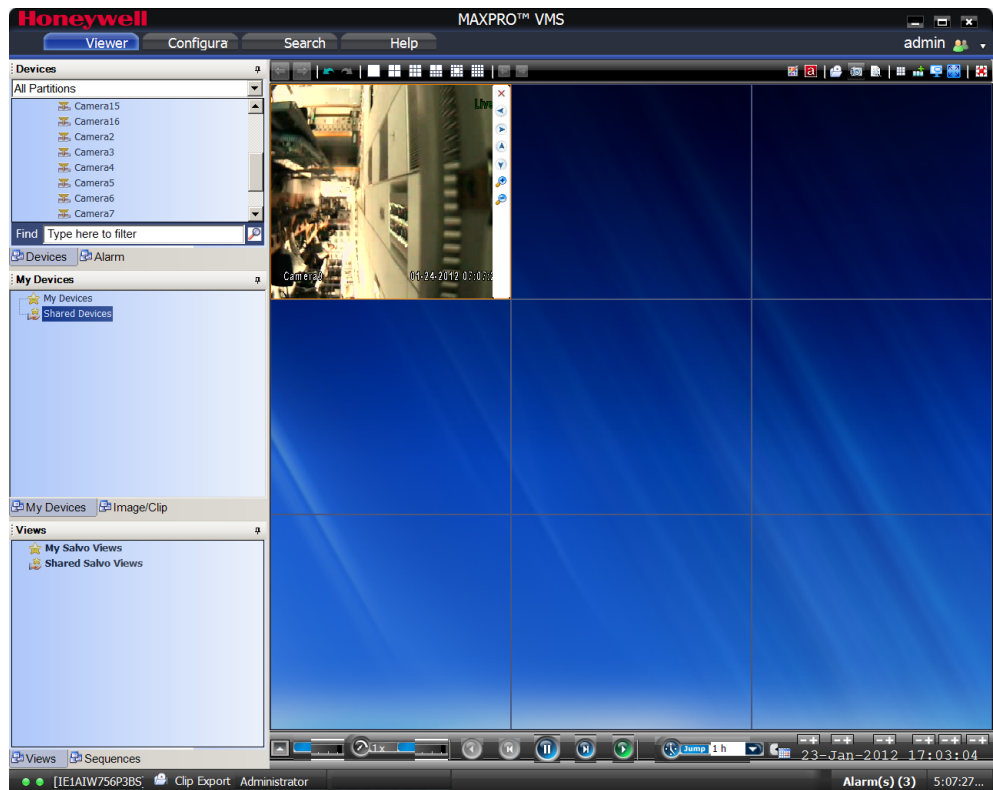

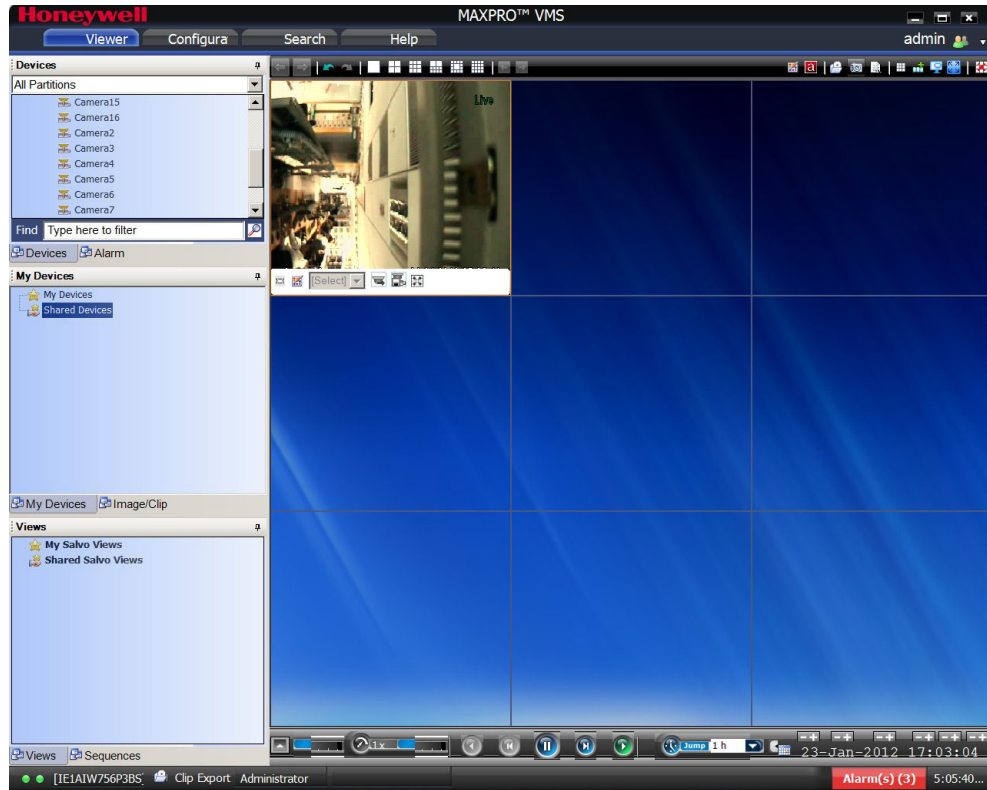*Figure 4-2   Toolbar on the right of the panel displaying live v ideo*
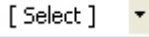
Figure 4-3   Toolbar on the bottom of the salvo panel displaying live video

The toolbar that appears on the bottom and on the right of a panel consists of icons that enable you to perform the following actions.

Icon	Click to…
	zoom in to the video.
	zoom out of the video.
	reset the digital PTZ effects on the video display

Icon	Click to...
	display the color correction window. Move the sliders to set the brightness, contrast, hue, and saturation. You can select the **Blur** checkbox to blur the video display and the **Sharpness** check box to increase the image sharpness or clarity. Alternatively, you can click this icon in the toolbar. **Note:** Select the **Apply color changes** check box to save the settings. Clicking the **Reset** button sets the color correction settings to default values.
[Select] ▼	displays a drop down box of presets. You can select a preset for the camera. **Note:** The drop down list is disabled when digital PTZ is enabled. You need to disable the digital PTZ feature to select a preset. See *Panning, tilting, and zooming* for information on enabling and disabling the digital PTZ feature.
	move a preset camera position. To move a preset, select a preset number from the drop down list and then click the icon. The camera position (pan, tilt, and zoom) is moved to the selected preset. **Note:** The icon is disabled when digital PTZ is enabled. You need to disable the digital PTZ feature to move a preset. See *Panning, tilting, and zooming* for information on enabling and disabling the digital PTZ feature.
	store a preset camera position. To store a preset, select a preset number from the drop down list and then click the icon. The camera position (pan, tilt, and zoom) is saved in the selected preset. **Note:** The icon is disabled when digital PTZ is enabled. You need to disable the digital PTZ feature to store a preset. See *Panning, tilting, and zooming* for information on enabling and disabling the digital PTZ feature.
	pan left.

Icon	Click to…
	pan right.
	tilt up.
	tilt down.

PANNING, TILTING, AND ZOOMING

You can pan, tilt, and zoom (PTZ) the video displayed in a panel. You can perform two types of PTZ namely, analog PTZ and Digital PTZ.

Analog PTZ is the panning, tilting, and zooming of PTZ cameras.

Using the digital PTZ feature in MAXPRO VMS, you can perform panning and tilting on live and recorded video and clips. The digital PTZ feature when enabled allows you to perform panning and tilting on the video display that is zoomed or enlarged.

ZOOMING THE VIDEO DISPLAY

Use the mouse scroll wheel to enlarge (zoom in) or reduce (zoom out) the video display in the panel. Alternatively, hover the mouse over the video display. A toolbar appears in the lower part of the panel. You can click to zoom in and to zoom out the video display.

PANNING AND TILTING

To perform analog PTZ

1. Click the **Viewer** tab.

2. Center-click anywhere on the video panel. A point is highlighted.

3. Move the mouse to the preferred location, and then click and hold left mouse button to perform pan and tilt. A arrow appears in the direction where the mouse is being moved.

4. Center-click again to stop panning and tilting.

Note: The digital PTZ must be disabled to use analog PTZ. To disable the digital PTZ feature, click and clear Digital PTZ in the context menu.

---

5. Click the video display and drag the mouse pointer in the direction to pan or tilt. An arrow appears on the video display indicating the pan or tilt direction.

To perform digital PTZ

1. Right-click on the video display in a panel. A context menu appears.

2. Select Digital PTZ. The digital PTZ feature is enabled for the video display in the panel.

3. Zoom the video display.

4. Center-click anywhere on the video panel. A point along with left, right, up, and down arrows appear.

5. Move the mouse in the required direction to pan and tilt.

6. Center-click again to stop panning and tilting.

You can also use the joystick controller (Ultrakey keyboard) to perform panning, tilting, and zooming.

IMAGES AND CLIPS

SAVING IMAGES

While viewing video in the panel, you can save a frame of the video as an image. The image can be saved in Bitmapped Graphics (BMP), Joint Photographic Experts Group (JPG) format, Portable Graphics format (PNG), and Graphics Interchange Format (GIF).

To save a frame displayed in a panel as an image

1. Click the **Viewer** tab.

2. Right-click the panel to display a context menu.

3. Select **Save** Image to save the image in .BMP format. Alternatively, you can click on the toolbar on top of the salvo layout. The images are saved in the **ImagesAndClips** folder at the location in the hard drive in which MAXPRO VMS files are installed. For example, **X:\Program Files\Honeywell\TrinityFramework\ImagesAndClips**. Here, X: is the hard drive.

or

Select **Save Image As** to save the image in other formats. The **Save As** dialog box appears when you select the Save Image As command. You can select the format in the **Save As Type** box and type the name for the image in **File Name** box. You can also select a folder to save the image.

To save the salvo layout as an image

• Click on the toolbar on top of the salvo layout.

The salvo layout is saved as an image (.BMP format) in the **ImagesAndClips** folder.

Note: The images saved in the **ImagesAndClips** folder appear in the **Image**/**Clip** window. See *Viewing Images and Clips* for information on how to view images.

CREATING CLIPS

You can create clips from recorded video. These clips can be saved with digital signatures. Digital signatures ensure authenticity of clips. Digital signatures are primarily used to authenticate videos that are produced in courts as evidence. A digital signature generates a unique string for the clip using algorithms recommended by the W3CThe World Wide Web Consortium (W3C) is an international consortium where member organizations, a full-time staff, and the public work together to develop Web standards. If the video in the clip is modified, a verification check for the unique string fails indicating that the content is tampered. When a clip is saved with the digital signature, a package file with the .PKG extension is created to save the clip.

To create a clip

1. Click the **Viewer** tab.

2. Specify the loop for which you want to create a clip.

3. Click ![icon] in the **Timeline** window. A dialog box appears with the name of the cameras from which video is displayed in the salvo layout.

or

Right-click a loop in the **Timeline** window and select **Export Clip** in the context menu. A dialog box appears.
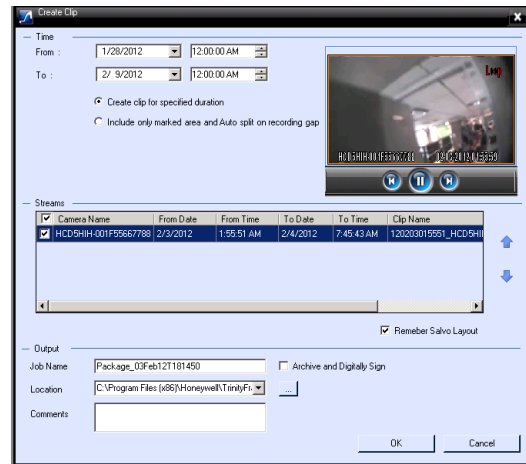
Figure 4-4   Creating a Clip

4. Select one of the following options in the dialog box.

Option	Select to...
Include only marked area and Auto split on recording gap	save one or more loop in the timelines as clips.
Create clip for entire duration	specify the time duration of video that you want to save in the clip. After selecting this option, the date and time (start and end) can be specified in the **From** and **To** boxes.

5. Under **Streams**, select the cameras. Only the video from the selected cameras are saved as clips.

6. In the **Forma**t drop-down list under **Streams**, select the required format. The formats supported by the recorders are listed in the following table.

Recorder	Format Supported
Rapid Eye, Fusion	WMV
MAXPRO NVR	WMV

7. In the **Job Name** box, type a name for the job or retain the default name assigned by MAXPRO VMS.

8. In the **Location** box, you can select the folder in which you want to save the clip.

   The default folder location is displayed in the **Location** box. You can click [...] to select another folder location

9. To archive the clip with the digital signature, select the **Archive and Digital Signature** check box.

10. In the **Comments** box, type the required comments for the job to be created.

11. Click **OK** to create the clip. The clip creation status is indicated in the status bar. The clip is saved with an automatically generated name.

Note: The Clip Preview pane is not visible for recorders that do not support previewing of clips in the Clip Preview window.

Note: The playback session is closed while creating a clip from the cameras connected to the recorder with playback limitation. You have to restore playback session manually after the clip creation is complete.

To cancel the clip creation

1. Click the clip creation status indicator in the status bar. The **Clip Export Status** dialog box appears.

2. Right-click the job name that you want to cancel, and then select **Cancel**. To cancel all the jobs, select **Cancel All**.

NAMING CONVENTION FOR CLIPS

The following table explains the automatic naming convention for a clip using an example

Example of a clip name-080109125809_CameraDoor_(1).MP4.

Clip Name	Description
080109	The first two digits indicate the year, the next two digits indicate the month, and the last two digits indicate the date of clip creation.
125809	The first two digits indicate the hour, the next two digit indicates the minutes, and the last two digits indicate the seconds.
CameraDoor	The name of the camera.
(1)	The file extension for the clip.
MP4	The file extension for the clip. **Note:** The file extension can be MP4 or WMV.

> **Note:** You change the default naming convention for clips. See *Setting Profiles* for more information.

VIEWING IMAGES AND CLIPS

From the **Images**/**Clip** window, you can view the images and clips saved in the **ImagesAndClips** folder at the location in the hard drive in which MAXPRO VMS files are installed.

To view the list of saved images and clips

1. Click the **Viewer** tab, and then click the **Images**/**Clip** tab.

2. In the **Images**/**Clip** window, expand the **Images and Clips** folder. Folders with names indicating the date in which the images and clips are created appears. The first two digits of the folder indicate the date, the next two digits indicate the month, and the last digits indicate the year.

3. Expand the folder corresponding to the date on which the image or clip you want to view is saved. Inside the folder, the clips are saved in the **Clips** sub-folder and images are saved in the **Images** sub-folder.

4. You can refresh the list of images and clips in the **Image**/**Clip** window to update the list. Refreshing the list displays the latest images and clip names. To refresh, right-click in the **Image**/**Clip** window to display a context menu and click **Refresh**.

IMAGES

To view the images

In the **Images**/**Clip** window, right-click the image to display a context menu and select **Image View**. The salvo layout changes and the image is displayed on the screen.

> **Note:** You can click on the toolbar to view the salvo layout again. To view the image again from the salvo layout, click .

VIEWING OPTIONS FOR IMAGES

Option	Description
Image Size	On the toolbar, you can select the image size in the box. The image sizes available are Small, Medium, and Large.

VIEWING VIDEO RELATED TO AN IMAGE

If video recording is available, you can view video from the date and time of saving the image.

- In the **Image**/**Clip** window, right-click the image to display a context menu and click **Show Video**. The video is played from the starting date and time of saving the image.

CLIPS

To view the clips
- In the **Images**/**Clip** window, right-click the clip to display a context menu and select **Show Video**. The video is displayed in the salvo layout.

or

- Double-click the clip.

or

- Drag the clip on a panel in the salvo layout.

To view the clips folder
- In the **Images**/**Clip** window, right-click the **Clips** folder or any clip to display a context menu and click **Show In Folder** to view the folder in which the clips are saved.

You can view the first frame of video in a clip as an image.

To view the first frame as an image
- In the **Images**/**Clip** window, right-click the clip to display a context menu and select **Image View**. The salvo layout changes and the first frame from the clip is displayed on the screen.

DELETING IMAGES AND CLIPS

In the **Image**/**Clip** window, you can delete the images and clips that you do not need.

To delete an image or clip
1. Click the **Viewer** tab.
2. Expand the folder in which the image or clips is saved in the **Images**/**Clip** window.
3. Right-click the image or clip which you want to delete. A context menu appears.
4. Click **Delete**.

VIEWING PACKAGES

To view packages
- In the **Images**/**Clip** window, drag and drop the package to a salvo layout. The video is displayed in the salvo layout.

ALARMS

Alarms notify the occurrence of events to the operators. You can configure alarms to be triggered when events such as adding a camera to a recorder, recorder disk space nearing full, motion detection, and others happen. The events that trigger an alarm can be selected while configuring the recorders, video inputs, and switchers.

Each alarm goes through the following states:

New or Unacknowledged

When an alarm is triggered it appears in the **Alarm** window. The state of the alarm after it is triggered is referred to as unacknowledged. You can view the list of all the unacknowledged alarms in a table in the **Alarm** window. For each unacknowledged alarm, the following details are listed.

Column	Indicates…
Description	name of the event that triggered the alarm. For example, camera motion detected.
Device Name	name of the device such as recorder, camera associated with the event. For example, the name of the camera that detected motion.
Event Details	name of the event attribute. Only the key event attribute is displayed in this column.
Date:Time	date and time when the alarm is triggered.
Severity	severity of the alarm.
Site	site name where the device is located.
Global ID	global unique identification number of the event.

The number of unacknowledged alarms is displayed in a blinking mode in the status bar red color. For example, **Alarms (10)** indicate that there are ten unacknowledged alarms.

Acknowledged

An acknowledged alarm indicates that the operator has taken the necessary action. After acknowledging the alarm, it is moved to the acknowledged alarms list in the Alarm window.

Cleared

After the response action is taken, you can remove or clear the alarms from the acknowledged list in the Alarm window.

ACKNOWLEDGING ALARMS

You can acknowledge an alarm to accept that the necessary response action is being taken.

To acknowledge an alarm

1. Click the **Viewer** tab, and then click **Alarm** tab.

2. Click to select the alarm you want to acknowledge in the **Alarm** window. The unacknowledged alarms are listed in the first table in the **Alarm** window.

> **Note:** To select more than one unacknowledged alarm, press the **CTRL** key.

3. Click **Acknowledge**. The acknowledged alarm appears in the second table in the **Alarm** window.

If you have selected multiple alarms, all the alarms are acknowledged and appear in the second table in the **Alarm** window.

> **Note:** If the active alarm count reaches 150, 000, a warning message appears on Alarms Indicator on the task bar.

CONTEXT MENU OPTIONS

When you right-click on the list of unacknowledged alarms in the first table, a context menu appears.

The following table lists the commands in the context menu.

Command	Click to….
Ack	acknowledge the selected alarm.
Clear on Ack	automatically clear the alarms when they are acknowledged.
Ack All	acknowledges all the alarms displayed in the **Alarm** window.
Show Video	view video from the time corresponding to the occurrence of the event that triggered the alarm. The video is played in the currently selected panel in the salvo layout. **Note:** The video is played only when the video recording is available.
Show Details	view the details of the alarm. This feature lists the device from which the alarm was triggered, description, date time when the alarm was triggered, status of the alarm, global event ID, and the event attribute associated to the alarm. You can also use the previous and next buttons to view the details of the alarms listed in the alarms window.
Freeze	stop receiving the new or unacknowledged alarms in the **Alarm** window. You can click this command again to start receiving the alarms. This feature is useful when the **Alarm** window contains many unacknowledged alarms and it becomes difficult to mange them. You can stop receiving the alarms momentarily and start receiving again when needed.
Receive Alarms Only	list only the alarms in the **Alarm** window. Alarms are listed only when the severity level of the corresponding event that triggered the alarm is greater than or equal to the alarm severity threshold value. See *Setting Preferences* for more information

Command	Click to....
Receive Events Only	list only the events in the **Alarm** window. Events whose severity level is greater than or equal to the alarm severity threshold value are listed. See *Setting Preferences* for more information.
Receive Both Alarms and Events	to list both alarms and events in the **Alarm** window.

CLEARING ACKNOWLEDGED ALARMS

You can clear the acknowledged alarms after taking the necessary action.

To clear an acknowledged alarm

1. Click the **Viewer** tab.

2. Click to select the alarm you want to clear in the **Alarm** window. The acknowledged alarms are listed in the second table in the **Alarm** window.

Note: To select more than one unacknowledged alarm, press the **CTRL** key.

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3. Click **Clear**. The alarm is removed from the list of acknowledged alarms.

If you have selected multiple alarms, all the alarms are cleared.

To clear all the acknowledged alarms

• Click **Clear All**. All the acknowledged alarms are cleared and removed from the list of acknowledged alarms.

CONTEXT MENU OPTIONS

When you right-click on the list of acknowledged alarms in the second table, a context menu appears.

The following table lists the commands in the context menu.

Command	Click to....
Clear	Clears the selected acknowledged alarm.
Clear All	Clears all the acknowledged alarms.
Show Video	view video from the time corresponding to the occurrence of the event that triggered the alarm. The video is played in the currently selected panel in the salvo layout. **Note:** The video is played only when the video recording is available.

Command	Click to….
Show Details	view the details of the alarm. This feature lists the device from which the alarm was triggered, description, date time when the alarm was triggered, status of the alarm, global even ID, and the event attribute associated to the alarm. You can also use the previous and next buttons to view the details of the alarms listed in the alarms window.
Freeze	stop receiving the new or unacknowledged alarms in the Alarm window. You can click this command again to start receiving the alarms. This feature is useful when the Alarm window contains many unacknowledged alarms and it becomes difficult to mange them. You can stop receiving the alarms momentarily and start receiving again when needed.
Receive Alarms Only	list only the alarms in the Alarm window. Alarms are listed only when the severity level of the corresponding event that triggered the alarm is greater than or equal to the alarm severity threshold value. See *Setting Preferences* for more information.
Receive Events Only	list only the events in the Alarm window. Events whose severity level is greater than or equal to the alarm severity threshold value are listed. See *Setting Preferences* for more information.
Receive Both Alarms and Events	to list both alarms and events in the **Alarm** window.

SEARCHING FOR RECORDED VIDEO

You can search for recorded video and events from the cameras connected to the various recorders. You can filter the search for recorded video based on search conditions like video recorded today, yesterday, and others.

To search for recorded video

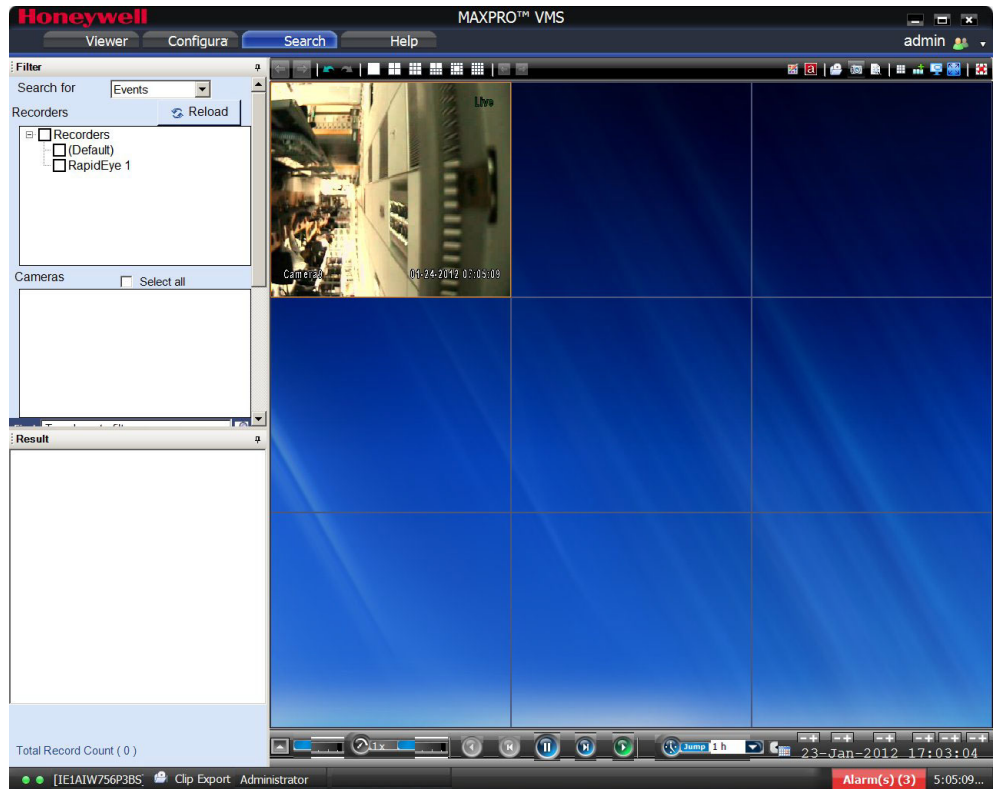1. Click the **Search** tab.

Figure 4-5   Search

2. In the **Search for** drop down list, select one of the following:
    *   Events
    *   Clips
3. The list of recorders are displayed under **Recorders** in the **Filter** window. You can select more than one recorder by selecting the check box corresponding to it.
4. The list of cameras that are connected to the selected recorder is displayed under **Cameras** section in the **Filter** window. Select the check box next to the cameras from which the video is recorded.

Note: Select the **Select all** check box to select all the cameras for the selected recorder(s).

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5. Select one of the following search conditions in the **Date time filter** drop-down list.

Condition	To search for…
Today	video recorded today.
Yesterday	video recorded yesterday.
Last 7 Days	video recorded in the last seven days.
Last 30 Days	video recorded in the last 30 days.
On	video recorded on a particular date. The **From** box to select the date is enabled when you select **On**.
On or Before	video recorded up to a particular date. The **From** box to select the date is enabled when you select **On** or **Before**.
Between	video recorded between a time duration. The **From** and **To** boxes are enabled when you select Between. You can select the start time and date in the **From** box. The end time and date can be selected in the **To** box.

6. If you are doing an "Event" search, then under **Type** select the check box corresponding to the events that you want to search.

Or

If you are doing a "Clip" search, then under **Type** select the check box corresponding to the recording you want to search.

7. Click [icon] . The recorded video is searched based on the search conditions. The search results are listed in the **Results** window.

PLAYING VIDEO AFTER SEARCHING

• Drag and drop the search result from the **Results** window on the salvo layout. The panel starts displaying the recorded video.

ARCHIVING AND RESTORING VIDEO

1. Select the recorded video from the list of search results.

2. Click [icon] .

To restore an archived video

1. Select the archived video from the list of search results.

2. Click [icon] .

> **Note:** The archived videos appear in black.

INTELLISENSE SEARCH

The Intellisense search option makes the search of cameras simpler and easier. When a part of the camera name is types in the text box, the Intellisense search displays the list of cameras that are connected to various recorders in the Devices window. For example, if you are searching for Camera 2 connected to particular recorder, then type **Ca** in the text box, the list of camera names that contain 'ca' are displayed.

Intellisense search also supports wild characters while searching. For example,

- ca* — camera names that begins with 'ca' are displayed.
- *ca — camera names that ends with 'ca' are displayed.
- *ca* — camera names that contain 'ca' are displayed.
- ! ca — cameras that does not have 'ca' in their name are displayed.

Select the required filter string and click on the filter button.You can toggle between the Filter On and Off mode using the option 🔍 or right-click 🔍 , and select between Filter ON and Filter OFF. The hot key to activate intellisense search is F4.

PERSISTENCE

Persistence is the ability to retain the data that was stored while using the application which otherwise is lost as it is stored on a temporary memory. MAXPRO VMS supports persistency for some of the operations in the viewer. The settings stored in the viewer during your current log on is stored and can be used when you log on next time.

PERSISTENCE FOR CAMERAS

Persistence for cameras allows you to store the camera details, salvo view details, and message details, so that you can use the same details during your next log on. For example, if you have set mirror image for all the cameras on a four-panel salvo layout and log off, the same would be displayed when you log on next time. The following camera digital parameters are persisted,

- Flip
- Text Overlay
- Mirror
- Brightness
- Hue
- Contrast
- Saturation
- Sharpness
- Blur
- Deinterlace
- Video Display Type

VIEWER WINDOW SIZE AND POSITION PERSISTENCE

You can preserve the size and position of the viewer window. The size and position details are stored based on the monitor ID and Workstation.

LOG ON PERSISTENCE

Log on persistence allows you to store the previous user credentials. For example, if you have logged on using windows authentication and log off from MAXPRO VMS, the same user credentials would be preserved when you launch MAXPRO VMS to log on.

PERSISTENCE FOR SORT OPTIONS

The sort options in **Devices** tree, **My Devices** tree, **Monitors** tree, **Shared Devices** tree, **My Salvo View** tree, **Shared Salvo View** tree, **Sequence** tree, **Group By options** in **Device** tree, and Partition selection in **Devices** tree is persistent based on the user. The devices that are listed using the **Sort by Name** and **Group By** options are preserved in the MAXPRO VMS Viewer.

STATUS OF DEVICES

The following table lists the status of the devices as they appear in **Devices** and **My Devices** window.

Status	Description
	Suggests that the DVR is available.
	Suggests that the DVR is not available.
	Suggests that the fixed camera is configured.
	Suggests that the fixed camera is disabled.
	Suggests that the fixed camera is enabled.
	Suggests that the fixed camera is not available.
	Suggests that the fixed camera recording is enabled.
	Suggests that the PTZ camera is available.
	Suggests that the PTZ camera is configured.
	Suggests that the PTZ camera is disabled.
	Suggests that the PTZ camera is not available.
	Suggests that PTZ camera recording is enabled.

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UTILITIES AND TOOLS

VERIFYING THE DIGITAL CERTIFICATE FOR CLIPS

A clip saved with digital signature can be verified using the MAXPRO VMS Digital Certificate Verification Utility.

The MAXPRO VMS Digital Certificate Verification Utility is installed by default along with all MAXPRO VMS Client. This utility can be installed on a computer that does not has MAXPRO VMS. A separate installation setup package for this purpose is provided in the tools folder of MAXPRO VMS DVD (\Tools\HVMS Digital Certificate Verification Utility\HVMS Digital Certificate Verification Utility.exe). You can install this utility and verify the digital certificate for clips on any computer.

To verify the digital certificate

1. Choose **Start>Program>Honeywell>MAXPRO™ VMS Package Verification Utility**. The **MAXPRO™ VMS Digital Certificate Verification Utility** dialog box appears.

2. From the **File** menu, click **Open Package** or click **Open Media File**.

3. Browse to the folder, select the package or the media file for which you want to verify the digital certificate, and then click **Open**. The default path would be C:\Program Files\Honeywell\TrinityFramework\ImagesAndClips.

4. The **Authentic package: MAXPRO™ VMS digital certificate found** message appears if the clip is saved with digital signature and if the digital certificate is valid.

MAXPRO VMS AGENT

MAXPRO VMS client Agent helps you to export log, launch monitors, and back up database (only on server). The MAXPRO Client Agent runs automatically during Windows startup. Exporting log includes exporting MAXPRO VMS log files, DVM log files, Windows System and Applications Event log, and General Workstation Configuration Info log.

To launch monitors

1. Right-click [icon] in the notification area, and then choose **Launch** >**Monitor N** (Where N represents the monitor number). If you want to launch all the monitors, then click **All**. Monitors have to be configured using the options available in the **Configurator** tab.

   Note: If a monitor(Monitor 1) is already launched and if you again launch the same monitor again from the Client agent, a new instance of the monitor is not launched; instead the focus is shifted to the same monitor, which is already running.

To export log

1. Right-click [icon] in the notification area, and then choose **Diagnostics >Export Log**. A zip file named MaxproVMS_Log_Workstation_X (where X is the name of the computer) is exported to C:\Program Files\Honeywell\TrinityFramework.

   Note: The disk drive might vary depending on the installation of MAXPRO VMS.

To backup database

1. Right-click [icon] in the notification area, and then choose **Diagnostics >Backup Database**. The database file named TrinityDatabase_WorkstationName_DateTime.bak (where WorkstationName is the name of the workstation and DateTime is the date and time when the file is exported) is exported to **C:\Program Files\Microsoft SQL Server\MSSQL.2\MSSQL\Backup**.

   Note: The disk drive might vary depending on the installation of MAXPRO VMS.

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Document 800-11181 – Rev A – 02/2012