

# **MAXPRO<sup>®</sup> Video Management System R300 SP1**

## **Operator's Guide**



**Issue 1**



**Revisions**

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# About This Guide

## Introducing MAXPRO® VMS

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MAXPRO® Video Management System (MAXPRO® VMS) is an enterprise-class video management and storage solution. It is a truly hybrid solution which, enables you to operate the traditional analog and the network and IP based video equipment in the same surveillance network. You can deploy thousands of cameras in number of locations, and add many video devices such as recorders and monitors.

### Advantages

- **Scalable and Future Oriented** – Over time, the video surveillance system must be capable of scaling up or down to meet the changing organization requirements. MAXPRO VMS's client-server architecture can easily adapt to the changing requirements. Expanding or downsizing your video surveillance system is easier. In addition, MAXPRO VMS's architecture focuses on implementing and integrating more features. For example, more recorder types can be integrated to MAXPRO VMS in the near future.
- **Robust and Capable** – MAXPRO VMS can be configured to manage video feeds from thousands of cameras. You can add thousands of recorders and switchers to your video surveillance network and remotely monitor the locations.
- **Open Architecture** - MAXPRO VMS is built using industry standard protocols and technologies, which give you the added advantage of selecting the best available IP cameras and streamers for your video surveillance network.
- **Integration Capability** - MAXPRO VMS is designed to integrate seamlessly with other enterprise systems like access and intrusion control in the near future.
- **User Friendly and Feature Rich** – MAXPRO VMS's user access based and easy-to-use user interface enables you to configure and manage every element of the video surveillance network. Using the user interface, you can easily add cameras, recorders, and other devices, and create new video surveillance locations and users.
- **Effective Site Monitoring** - Monitoring locations is more effective through features like color correction, digital zoom, operator messaging, logical partitioning of video devices, analytic features like motion detection, and others.
- **Search for Recorded Video and Events** - Search feature enables you to search for recorded video and events in various recorders.
- **Event Handling** - Events such as failure of camera or loss of video can be logged and event reports can be generated. You can retrieve and view video pertaining to specific events. In addition, you can configure alarms to notify the operators when events occur.
- **Reports** - You can also generate reports to view user activities such as creation of clips, configuring of devices, and other activities performed by a user.

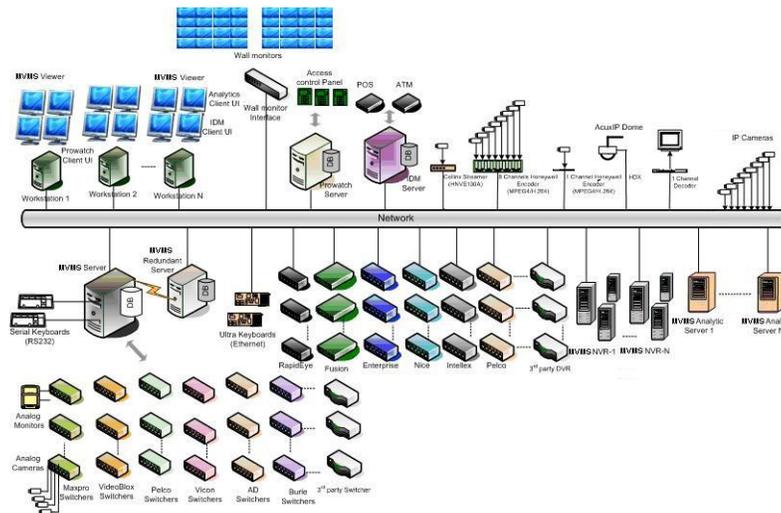
## Intended Audience

This guide is intended for the operators of MAXPRO VMS system.

**Note:** This guide assumes that MAXPRO VMS system is up and running at a particular site.

## MAXPRO VMS Architecture

MAXPRO VMS is based on the client-server architecture. The following diagram illustrates the client-server architecture and different components that can be added to constitute the MAXPRO VMS system.



## 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, monitors, keyboards, and others. 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.

The IP Engine is used for video storage in the MAXPRO VMS server and is one of many recording engines that can be chosen. The other core components in the server act as the system controller and manage the communication among the components of the MAXPRO VMS system such as the camera server, database server, recorders, cameras, workstations, and other devices in the network. .

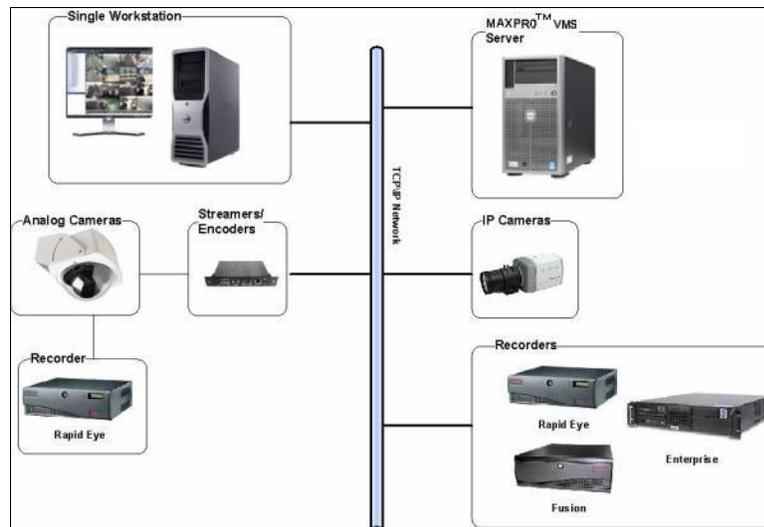
## Other Components

Additional components such as switchers, recorders, analytics servers, camera servers, and other devices can be added according to your needs to constitute the MAXPRO VMS architecture. Presently, you can view video from the switchers Vicon, Burle, American Dynamics, Pelco, VideoBlox, and MaxPro. You can also view video and play recordings from the digital recorders Rapid Eye, Fusion, Intellex, and Enterprise. More recorders will be compatible with MAXPRO VMS in the future versions.

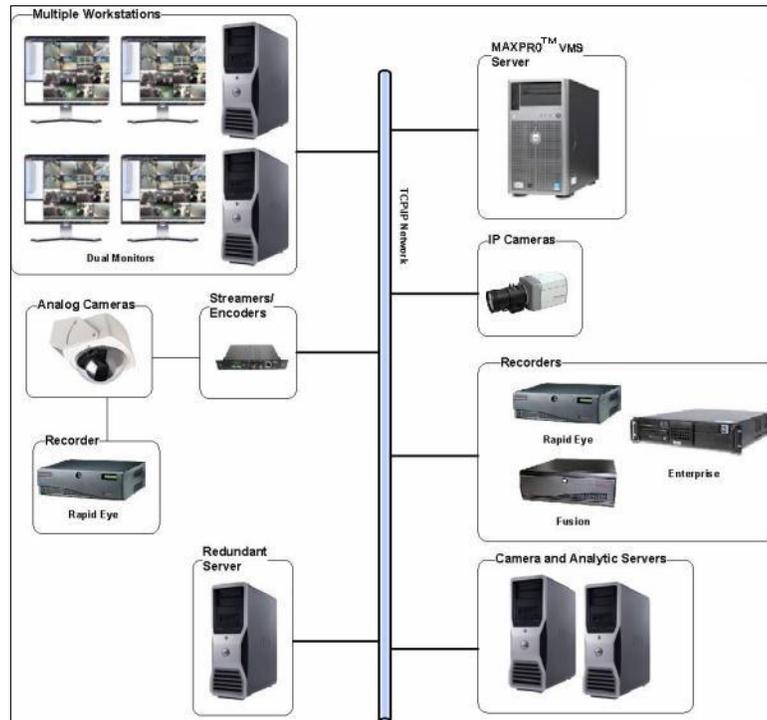
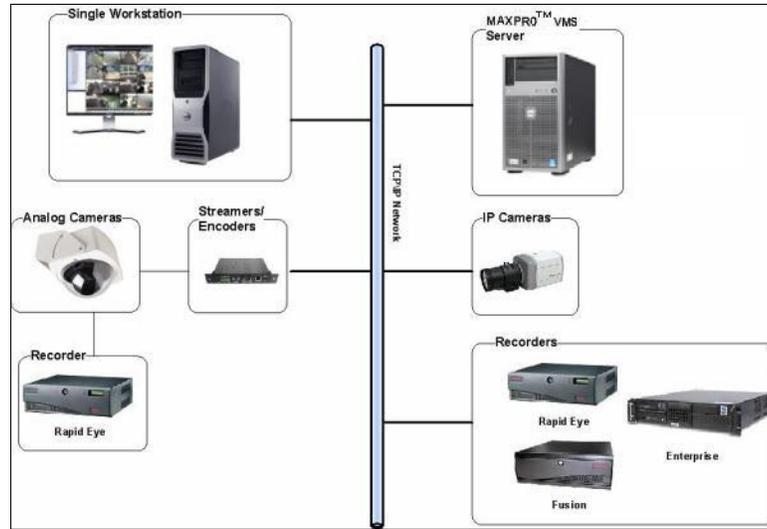
## Examples of MAXPRO VMS Configuration

The scalable architecture enables you to expand or downsize the video surveillance network as and when needed. You can downsize the video surveillance network to a single client workstation and server configuration. It can also be expanded to include multiple client workstations and servers

The following diagram shows the single workstation architecture.



The following diagrams shows the multiple workstation architecture.



# 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 <b>password</b> .
	Menu titles and other items you select	Double-click <b>Open</b> from the <b>File</b> menu.
	Buttons you click to perform actions	Click <b>Exit</b> to close the program.
Swiss721 BT	Heading	<b>Installation</b>
Swiss721 BT (Bold Italic)	Cross-reference to external source	Refer to the <b><i>System Administrator Guide</i></b> .
Swiss721 BT (Italic)	Cross-reference within the guide	See <i>Installation</i> .

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# System Requirements and Licensing

## System Requirements

The following tables list the system requirements for MAXPRO VMS Server and Client computers.

<b>MAXPRO VMS Server (Standard Spec with Windows 2008 Server R2 64 bit, Windows 2003 Server R2 32 bit up to 5 Clients)</b>	
<b>Processor</b>	Dual Core Intel® Xeon® 3050 2.13 GHz
<b>Recommended Operating System</b>	Windows® Server 2008 R2 Standard (64 Bit Version) on 64 Bit Server Windows® Server 2003 R2 Standard Edition Service Pack 2 (32 Bit Version) on 32 Bit Server
<b>Recommended PC Type (Server or Workstation)</b>	Server
<b>Recommended System Memory (RAM)</b>	4 GB
<b>DVD Drive (RW (Read Write) is required if workstation is used for exporting recordings)</b>	DVD drive
<b>Disk</b>	Two separate hard drives or two sets of RAID arrays  Disk / RAID set 1 utilizes 10K RPM SATA 150GB or 10K-15K RPM SCSI 146GB for Windows operating system, MAXPRO™ VMS Server Software, and Microsoft SQL Server software  Disk / RAID set 2 utilizes 10K RPM SATA 150GB or 10K-15K RPM SCSI 146GB for MAXPRO VMS database files and Microsoft SQL Server database files.  <b>Note:</b> If fault tolerance is required RAID set 1 is RAID 1, 10 or 0+1 and RAID set 2 is RAID 10 or 0 + 1

**MAXPRO VMS Server (Standard Spec with Windows 2008 Server R2 64 bit, Windows 2003 Server R2 32 bit up to 5 Clients)**

<b>Multiple Monitor Card - Display Adapter (Video Resolution)</b>	Multiple Monitor Card - Display Adapter (Video Resolution) Display Adapter with Video resolution 1024x768 pixels; 32-bit color or higher
<b>Network connection</b>	1Gbit/sec or greater
<b>Video resolution</b>	1024x768 pixels; 24 bit color or higher

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

**MAXPRO VMS Server (Performance Spec with Standard Spec with Standard Spec with Windows 2008 Server R2 64 bit, Windows 2003 Server 32 bit up to 10 Clients)**

<b>Processor</b>	Quad Core Intel® Xeon® 5450 3.0 GHz
<b>Recommended Operating System</b>	Windows® Server 2008 R2 Standard Edition (64 Bit Version) on 64 Bit Server Windows® Server 2003 R2 Standard Edition Service Pack 2 (32 Bit Version) on 32 Bit Server
<b>Recommended PC Type (Server or Workstation)</b>	Server
<b>Recommended System Memory (RAM)</b>	4 GB
<b>DVD Drive (RW (Read Write) is required if workstation is used for exporting recordings)</b>	DVD drive
<b>Disk</b>	Two separate hard drives or two sets of RAID arrays Disk / RAID set 1 utilizes 10K RPM SATA 150GB or 10K-15K RPM SCSI 146GB for Windows operating system, MAXPRO™ VMS Server Software, and Microsoft SQL Server software Disk / RAID set 2 utilizes 10K RPM SATA 150GB or 10K-15K RPM SCSI 146GB for MAXPRO VMS database files and Microsoft SQL Server database files

**MAXPRO VMS Server (Performance Spec with Standard Spec with Standard Spec with Windows 2008 Server R2 64 bit, Windows 2003 Server 32 bit up to 10 Clients)**

<b>Multiple Monitor Card - Display Adapter (Video Resolution)</b>	Display Adapter with Video resolution 1024x768 pixels; 32-bit color or higher
<b>Network connection</b>	1Gbit/sec or greater
<b>Video resolution</b>	1024x768 pixels; 24 bit color or higher

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

**MAXPRO VMS Workstation Computer (Standard Spec with Windows XP-Professional 32-Bit only Windows 7 64 bit and 32 bit supports up to 2 monitors)**

<b>Processor</b>	Intel® Core 2 Duo Processor E6750 2.66 GHz or Quad Core Intel® Xeon® E5405 2.0 GHz
<b>Recommended Operating System</b>	Windows® 7 Professional (64-Bit and 32-Bit) Windows® XP Professional (32-Bit)
<b>Recommended PC Type (Server or Workstation)</b>	Workstation
<b>Recommended System Memory (RAM)</b>	4 GB
<b>DVD Drive (RW (Read Write) is required if workstation is used for exporting recordings)</b>	DVD-RW drive
<b>Disk</b>	Single Disk or RAID 0 or 0+1 10K SATA 80GB or 10K to 15K SAS 73GB: Windows Operating System.
<b>Multiple Monitor Card - Display Adapter (Video Resolution)</b>	Display Adapter with Video resolution 1024x768 pixels; 32-bit color or higher
<b>Network connection</b>	1Gbit/sec or greater
<b>Video resolution</b>	1024x768 pixels; 24 bit color or higher

<b>MAXPRO VMS Workstation Computer (Performance Spec with Windows XP-Professional 32-Bit only Windows 7 64 bit and 32 bit supports up to 4 monitors)</b>	
<b>Processor</b>	Quad Core Intel® Xeon® Processor X5450 (3.00GHz,2X6M L2,1333)
<b>Recommended Operating System</b>	Windows® 7 Professional (64-Bit and 32-Bit) Windows® XP Professional (32-Bit)
<b>Recommended PC Type (Server or Workstation)</b>	Workstation
<b>Recommended System Memory (RAM)</b>	4 GB
<b>DVD Drive (RW (Read Write) is required if workstation is used for exporting recordings)</b>	DVD-RW drive
<b>Disk</b>	Single Disk or RAID 0 or 0+1 10K SATA 80GB or 10K to 15K SAS 73GB: Windows Operating System
<b>Multiple Monitor Card - Display Adapter (Video Resolution)</b>	2 x 256MB PCIe x16 NVIDIA Quadro NVS 285, Dual DVI or Dual VGA or DVI+VGA. This is for a four monitor setup with each monitor requiring 128 MB
<b>Network connection</b>	1Gbit/sec or greater
<b>Video resolution</b>	1024x768 pixels; 24 bit color or higher

## 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.

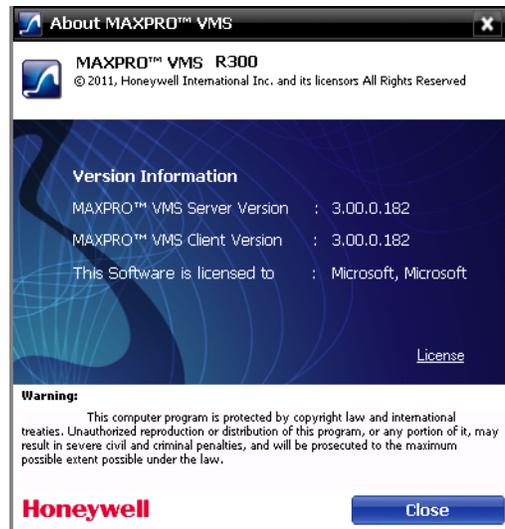


Figure 1-1 About MAXPRO VMS

## Generating the License for MAXPRO VMS

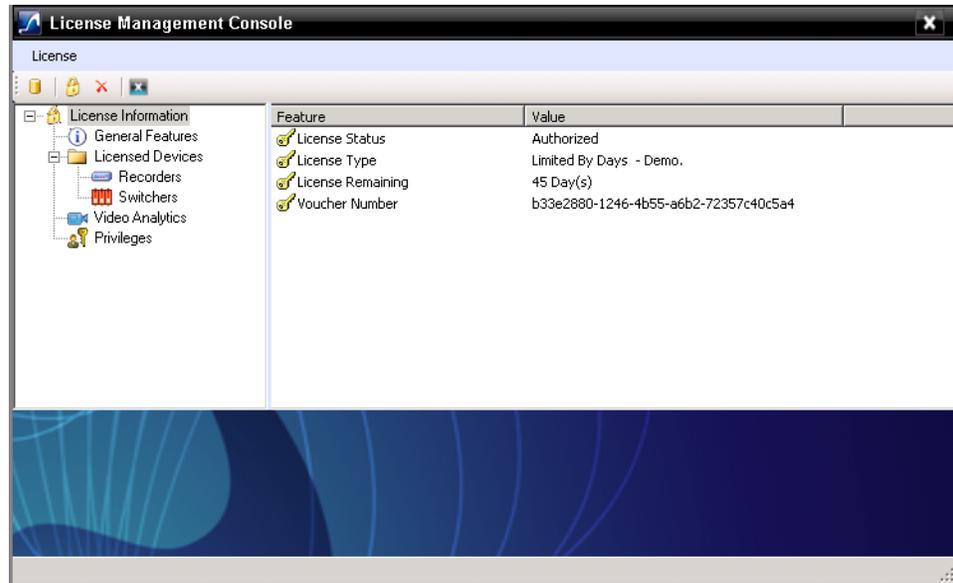
The MAXPRO Video Management System (MAXPRO VMS) setup comes with a 60 day trial period and enables you to add up to 250 cameras across all Digital Video Recorders (DVR) and 25 clients. MAXPRO VMS currently supports 10 DVRs and six Switchers. You need to purchase license to continue using MAXPRO VMS. 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](mailto: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**.

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**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](mailto: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](mailto: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](mailto: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.

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## Viewing the Version and License Information for IP Engine

### To view license information of IP Engine

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 recorder or select the recorder, and then click **Update**. The general settings for the recorder appear.
4. Click the **Advanced Settings** tab.
5. Click the **About** tab. The version and license information is displays. The following table lists the version and license details.

Version Information	
<b>Version</b>	The version of recorder.
Host Information	
<b>Host Name</b>	The name of the EBI, Experion, or HSS server, if the recorder is used in conjunction with EBI, Experion, or HSS server. None, if the recorder is not used in conjunction with EBI, Experion, or HSS server.
General License Information	
<b>Cameras</b>	The number of cameras licensed for your system.
<b>IE Clients</b>	The number of Microsoft Internet Explorer clients licensed for your system.
<b>Redundancy</b>	Indicates whether database server redundancy is licensed for your system.
Video Analytics License Information	
<b>Premium Algorithm</b>	Indicates whether the premium algorithm is licensed for your system.
<b>Object Tracking Algorithm</b>	The number of cameras licensed to use the object tracking algorithm.
<b>Object Tracking and Classification Algorithm</b>	The number of cameras licensed to use the object tracking and classification algorithm.
<b>Stationary Object Detection Algorithm</b>	The number of cameras licensed to use the stationary object detection algorithm.
Third Party License Information	
<b>Third party licenses</b>	Click View Licenses to see the license details of third party products used by the recorder for functions, such as video compression.

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# 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 the  icon on your 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”.

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**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.

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- 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

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



Figure 2-2 Server Settings

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

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

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## Setting the Default Profile

To set the default profile

- Select the profile you want to set as default before logging on to MAXPRO VMS.
- 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

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

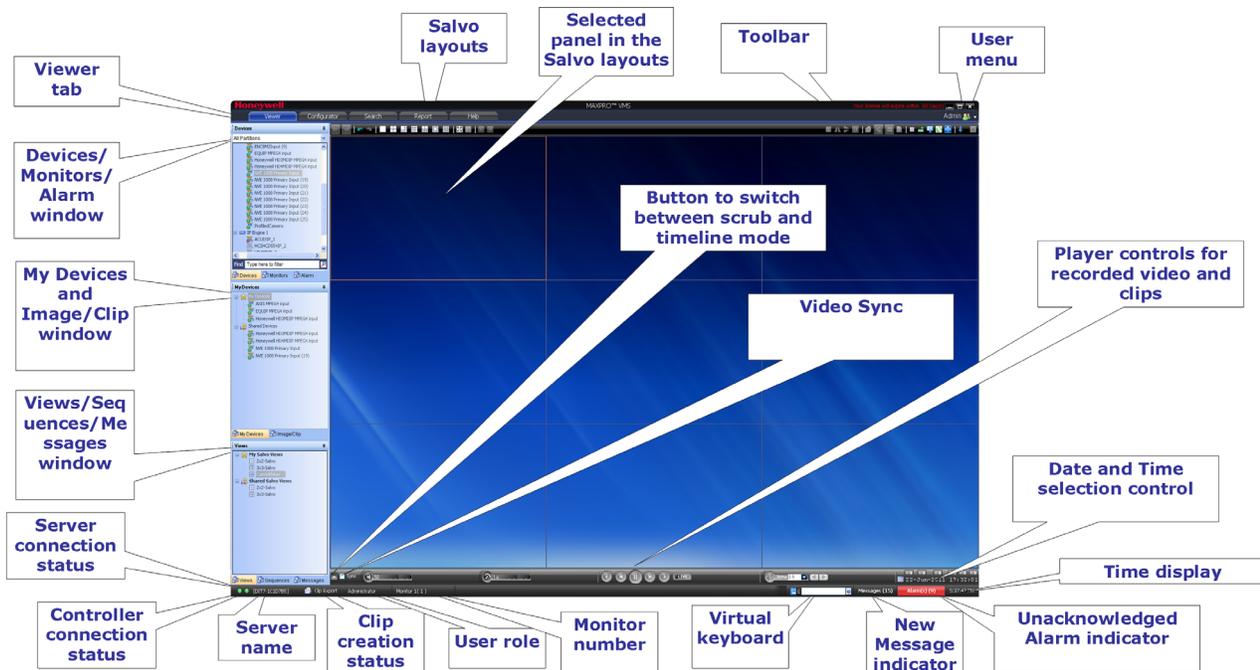


Figure 2-3 Viewer tab

The following components are displayed on the screen.

Component	Description
<b>Devices</b> window	<p>A floating window that displays recorders, switchers, and cameras in a tree structure. You can select one or more devices from the <b>Devices</b> window to view video in the Salvo Layout.</p> <p>A drop-down list on the top of the <b>Devices</b> 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.</p> <p>The status of the devices also appear in the window. See . You can right-click on the devices to display context menu.</p> <p><b>Intellisense search</b></p> <p>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 <b>Devices</b> window. For example, if you are searching for Camera 2 connected to particular recorder, then type <b>Ca</b> in the text box, the list of camera names that contain 'ca' are displayed.</p> <p>Intellisense search also supports wild characters while searching. For example,</p> <ul style="list-style-type: none"> <li>• ca* — camera names that begins with the 'ca' are displayed.</li> <li>• *ca — camera names that ends with the 'ca' are displayed.</li> <li>• *ca* — camera names that contain the 'ca' are displayed.</li> <li>• ! ca — cameras that does not have 'ca' in their name are displayed.</li> </ul> <p>Select the required filter string and click on the filter button. You can toggle between the <b>Filter On</b> and <b>Off</b> mode using the option  or right-click , and select between Filter ON and Filter OFF. The hot key to activate intellisense search is <b>F4</b>.</p>

Component	Description
<b>Devices</b> window continued...	<p>The context menu options in the <b>Devices</b> window include:</p> <ul style="list-style-type: none"> <li>• <b>Show Live</b> - to view live video.</li> <li>• <b>Snapshot View</b> - 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.</li> <li>• <b>Show Device ID</b> - to display the device ID. The ID is specified while adding the device and is useful to perform operations using virtual keyboard.</li> <li>• <b>Hide Device ID</b> - to hide the display of device ID.</li> <li>• <b>Remove</b> - to remove the device from the list.</li> <li>• <b>Refresh</b> - to refresh the camera status.</li> <li>• <b>Refresh from Device</b> - to refresh the camera status from device.</li> <li>• <b>Reload Device</b> - to reload device.</li> <li>• <b>Group By</b> - to group the cameras based on the site or device.</li> <li>• <b>Sort By</b> - to sort the list of devices by name or callup number. By default, names and callup numbers are sorted in ascending order.</li> <li>• <b>Add to MyDevices</b> - to add devices to MyDevices.</li> <li>• <b>Collapse All</b> - to collapse the device tree.</li> <li>• <b>Expand All</b> - to expand the device tree.</li> </ul>
<b>Monitors</b> window	<p>Click to display a floating window that lists the monitors. You can view both analog and digital monitors from this window.</p> <p>A drop-down list on the top of the <b>Monitors</b> window lists the partitions. You can select a partition in the drop-down list to view the monitors from the particular partition. Selecting the All Partitions option in the drop down box displays the monitors from all the partitions in the tree view.</p> <p>You can right-click on the devices to display context menu. The context menu options include:</p> <ul style="list-style-type: none"> <li>• <b>Show Device ID</b> - to view the device ID. The ID is specified while adding the device and is useful to perform operations using virtual keyboard.</li> <li>• <b>Add to MyDevices</b> - to add devices to MyDevices.</li> <li>• <b>Sort By Name</b> - to sort the list of devices by name. By default, names are sorted in ascending order.</li> <li>• <b>Expand All</b> - to expand the monitors tree.</li> <li>• <b>Collapse All</b> - to expand the monitors tree.</li> </ul>

Component	Description
<b>Alarm Window</b>	Click to display a floating window that lists the alarms. You can acknowledge and clear the alarms from this window.
<b>Image/Clip Window</b>	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: <ul style="list-style-type: none"><li>• <b>Refresh</b> - to refresh the images/clips in the respective folder.</li><li>• <b>Image View</b> - to view the images.</li><li>• <b>Show In Folder</b> - to view the folder in which the images are stored.</li><li>• <b>Delete</b> - to delete an image.</li></ul>

Component	Description
<b>My Devices Window</b>	<p>A floating window that lists in a tree structure, the devices such as cameras, monitors, and sequences.</p> <p>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.</p> <p><b>To create a folder</b></p> <ol style="list-style-type: none"> <li>1. Right-click on <b>MyDevices</b> or <b>SharedDevices</b> in the <b>My Devices</b> window and select <b>Add New Folder</b>. A new folder appears with a default name.</li> <li>2. Type a name for the folder and press <b>ENTER</b>.</li> </ol> <p>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 <b>Device</b> window which generally consists of many video sources.</p> <p>The status of the devices also appear in the window.</p> <p>The devices are displayed only when the user who included the devices in <b>My Devices</b> window logs on.</p> <p>You can copy a device from <b>MyDevices</b> to <b>Shared Devices</b> and from <b>Shared Devices</b> to <b>MyDevices</b> using the drag and drop option.</p> <p>Devices grouped under shared devices are displayed on all client workstations irrespective of the logged in user. To group devices under <b>SharedDevices</b>, drag and drop the devices from <b>MyDevices</b>. Similarly you can drag and drop to copy devices from <b>SharedDevices</b> to <b>MyDevices</b>. This ensures that you retain the device even if an operator deletes the device in <b>SharedDevices</b>.</p>

Component	Description
My Devices window continued...	<p>You can right-click on the devices to display a context menu. The context menu options include:</p> <ul style="list-style-type: none"> <li>• <b>Show Live</b> - to view live video.</li> <li>• <b>Snapshot View</b> - 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.</li> <li>• <b>Show Device ID</b> - to display the device ID. The ID is specified while adding the device and is useful while performing PTZ or using virtual keyboard.</li> <li>• <b>Hide Device ID</b> - to hide the display of device ID.</li> <li>• <b>Remove</b> - to remove the device from the list.</li> <li>• <b>Refresh</b> - to refresh the camera status.</li> <li>• <b>Refresh Tree</b> - to refresh the tree list.</li> <li>• <b>Refresh from Device</b> - to refresh the camera status from device.</li> <li>• <b>Sort By Name</b> - to sort the list of devices by name. By default, names are sorted in ascending order.</li> </ul>
Messages window	<p>You can right-click on the devices to display a context menu. The context menu options include:</p> <ul style="list-style-type: none"> <li>• <b>Review</b> - to review the message.</li> <li>• <b>Show Live</b> - to view live video.</li> <li>• <b>Show Details</b> - to view comments of the message.</li> <li>• <b>Send To</b> - to forward the message to operators or digital monitors.</li> <li>• <b>Clear</b> - to clear the message.</li> <li>• <b>Clear All</b> - to clear all the messages.</li> </ul>
Sequences window	<p>Click to display a floating window that lists the sequences. You can play the sequence using the play sequence action.</p> <p>You can right-click on the devices to display a context menu. The context menu options include:</p> <ul style="list-style-type: none"> <li>• <b>Play Sequence</b> - to play any sequence.</li> <li>• <b>Show Sequences ID</b> - to display the device ID. The ID is specified while adding the device and is useful to perform operations using virtual keyboard.</li> <li>• <b>Add to My Devices</b> - to add sequences to <b>My Devices</b> list.</li> <li>• <b>Sort By Name</b> - to sort the list of sequences by name. By default, names are sorted in ascending order.</li> </ul>

Component	Description
<b>Views window</b>	<p>A floating window that lists the salvo views. View window consists of <b>My Salvo Views</b> and <b>Shared Salvo Views</b>. Salvo views corresponding to the logged on user are listed under <b>My Salvo Views</b> in <b>Views window</b>. You can copy a salvo view from <b>My Salvo Views</b> to <b>Shared Salvo Views</b> using the drag and drop option or right-click and select <b>Add to Shared Salvo Views</b>. Similarly, you can copy a salvo view from <b>Shared Salvo Views</b> to <b>My Salvo Views</b> using the drag and drop option. Devices grouped under <b>Shared Salvo Views</b> are displayed on all client workstations irrespective of the logged in user.</p> <p>To add a salvo view to <b>Shared Salvo Views</b>, right-click on a salvo view, and then click <b>Add to Shared Salvo Views</b>. You can copy a salvo view from <b>Shared Salvo Views</b> to <b>My Salvo Views</b> by dragging and dropping a salvo view.</p> <p>You can right-click on the devices to display a context menu. The context menu options include:</p> <ul style="list-style-type: none"> <li>• <b>Show</b> - to view the salvo view.</li> <li>• <b>Rename</b> - to rename a salvo view.</li> <li>• <b>Remove</b> - to remove a salvo view.</li> <li>• <b>Save</b> - to save a salvo view.</li> <li>• <b>Add to Shared Salvo Views</b> - to add a salvo view to the Shared Salvo views.</li> <li>• <b>Show Device ID</b> - to display the device ID. The ID is specified while adding the device and is useful to perform operations using virtual keyboard.</li> <li>• <b>Hide View ID</b> - to hide the display of device ID.</li> <li>• <b>Refresh</b> - to refresh the salvo views in the list.</li> <li>• <b>Sort By Name</b> - to sort the list of salvo views by name. By default, names are sorted in ascending order.</li> </ul>
<b>Salvo Layout</b>	An arrangement of panels in which video is displayed.
<b>Timeline window</b>	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 and selective viewing through bookmarks. 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.

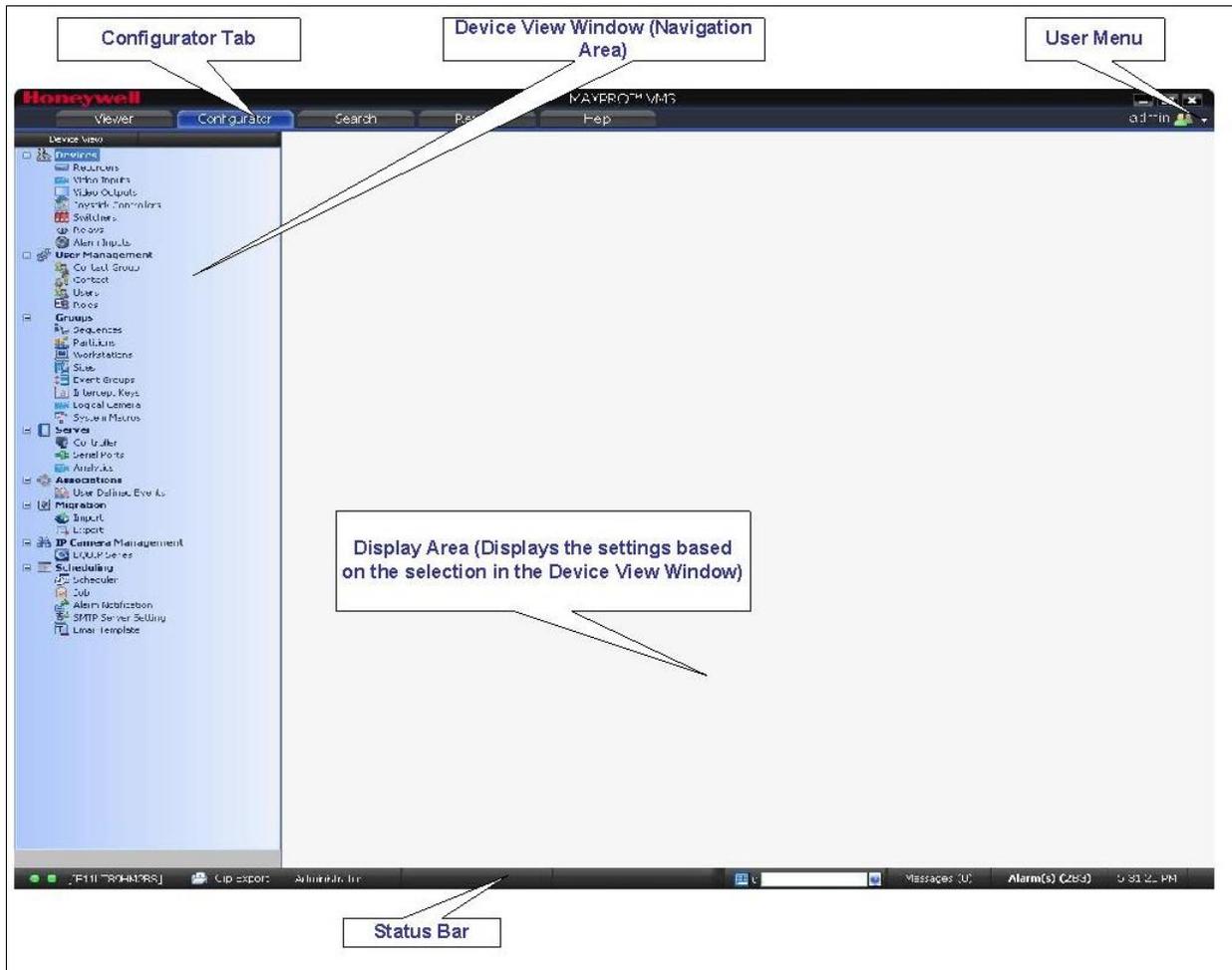


Figure 2-4 Configurator tab

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

Components	Description
<b>Device View Window (Navigation Area)</b>	Displays branches in a tree structure namely, <b>Devices</b> , <b>User Management</b> , <b>Groups</b> , and <b>Server</b> . 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.
<b>Display Area</b>	Displays the settings based on your selection in the <b>Device View</b> window.

## Search tab

The following figure illustrates the **Search** tab.

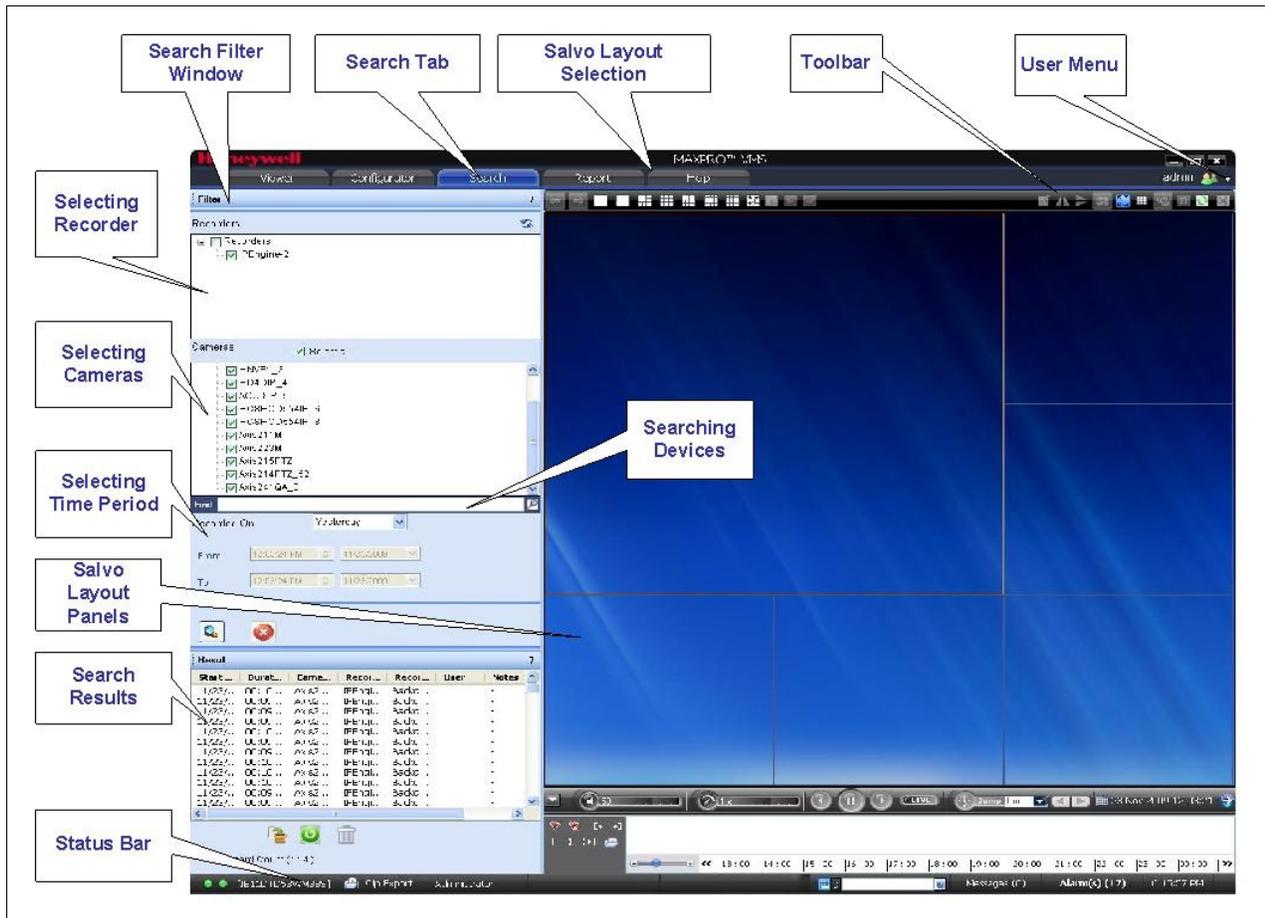
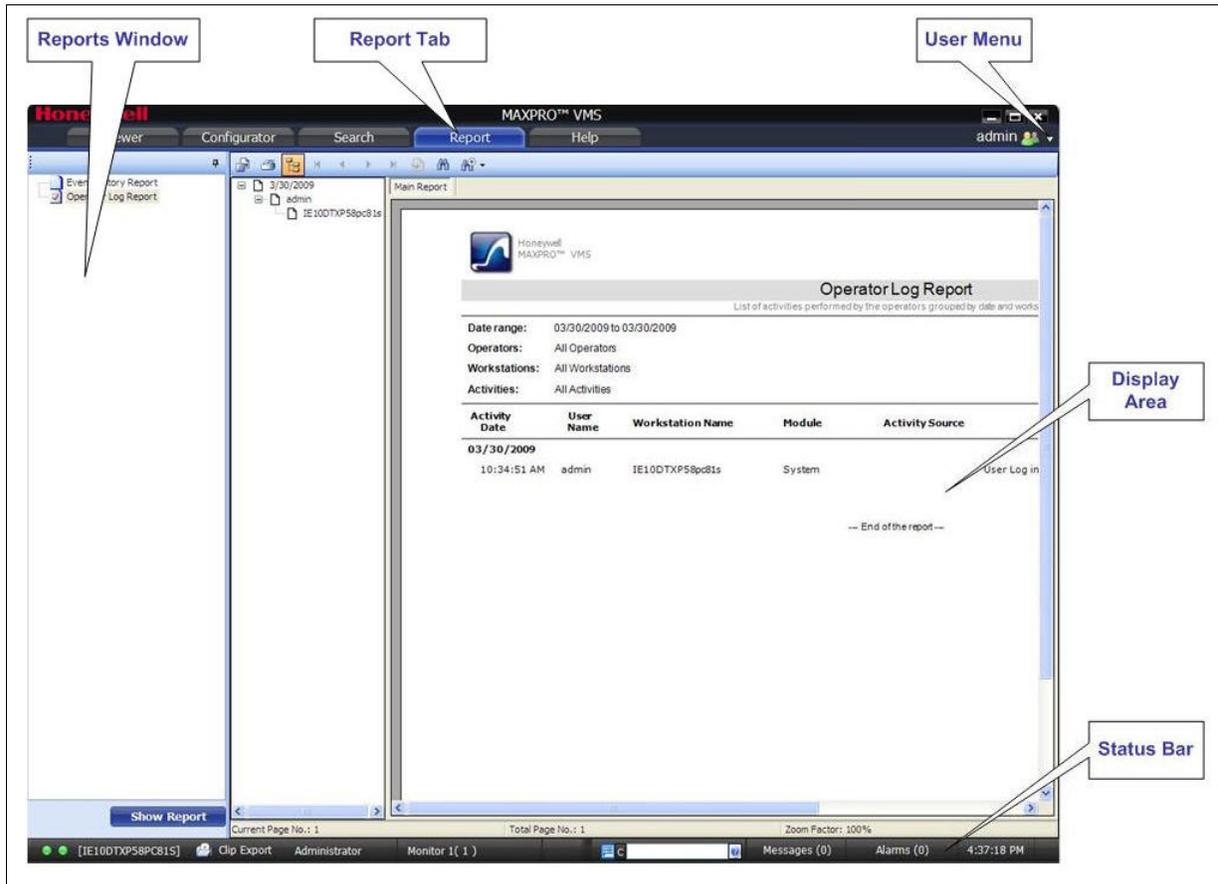


Figure 2-5 Search tab

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

## Report tab

The following figure illustrates the **Report** tab.



**Figure 2-6 Report tab**

You can generate the event history and operator log report from the **Report** 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.

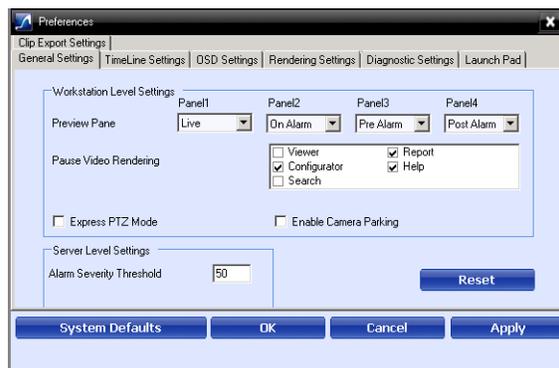


Figure 2-7 Preferences

2. Click the **Rendering Settings** tab.

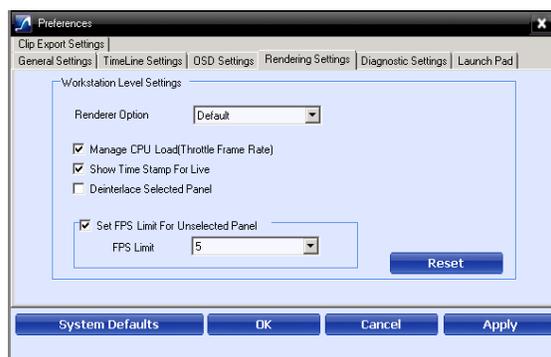


Figure 2-8 Rendering Settings

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.

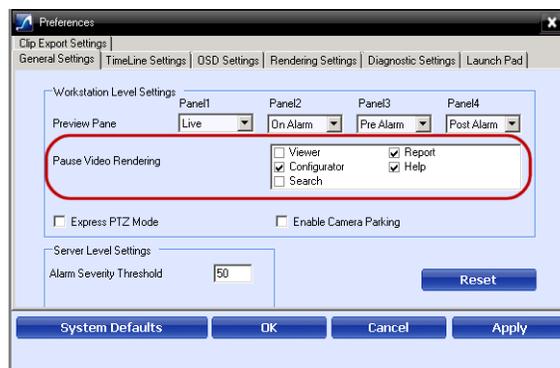


Figure 2-9 Pausing the Video Rendering

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.

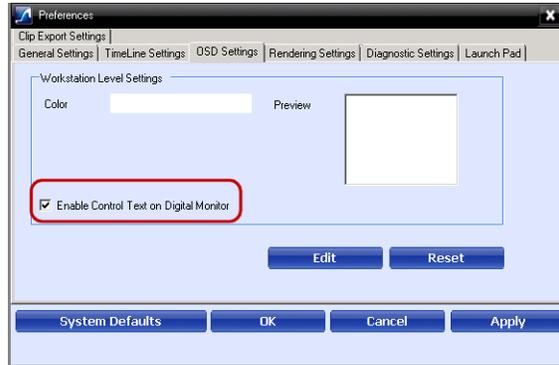


Figure 2-10 Enabling Control text on Digital Monitors

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

## Camera Parking

To enable the camera parking feature

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

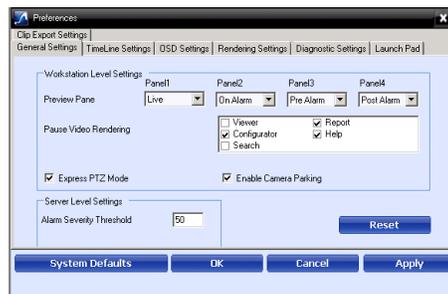


Figure 2-11 Enabling the Camera Parking Feature

2. Select the **Enable Camera Parking** check box to enable the Camera Parking feature. Click to clear the **Enable Camera Parking** check box to disable this feature.

---

**Note:** Use this feature while viewing live video from PTZ cameras. See [Camera Parking](#) on page 50 for more information.

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## 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.

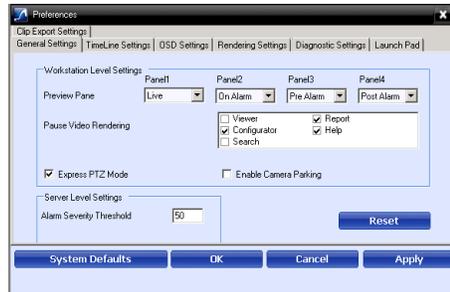


Figure 2-12 Enabling the Express PTZ Mode

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
<b>Pre Alarm</b>	The video before the occurrence of the event that triggered the alarm is played.
<b>Post Alarm</b>	The video after the occurrence of the event that triggered the alarm is played.
<b>Live</b>	Live video is played.
<b>On Alarm</b>	The video is played from the occurrence of the event that triggered the alarm.

**Note:** You can view video related to alarms only for the cameras connected to the IP Engine. For Pre Alarm, Post Alarm, and On Alarm, the video is played only when the video recording pertaining to the date and time of alarm is available.

### 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.

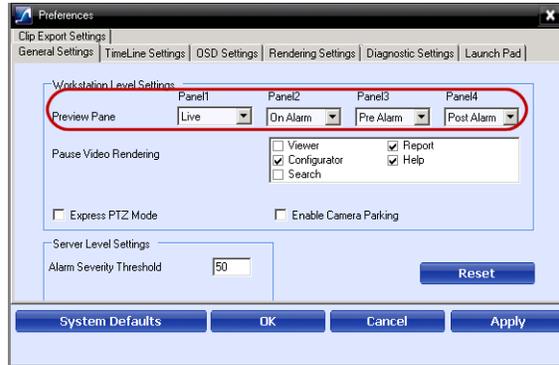


Figure 2-13 Settings for the Alarm Preview Pane

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.

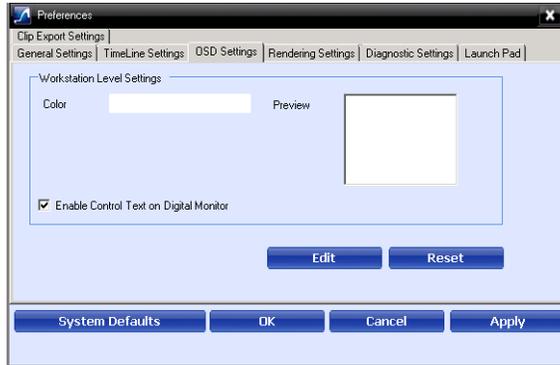


Figure 2-14 OSD Settings

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.

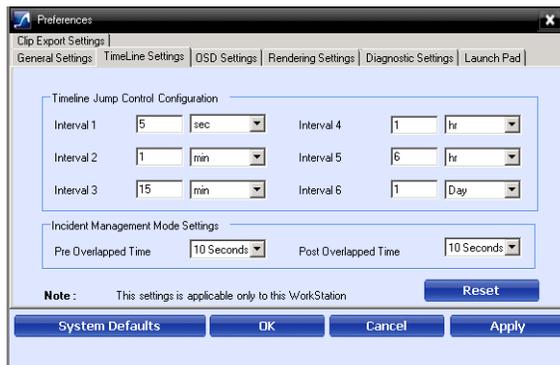


Figure 2-15 Timeline Settings

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.

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.

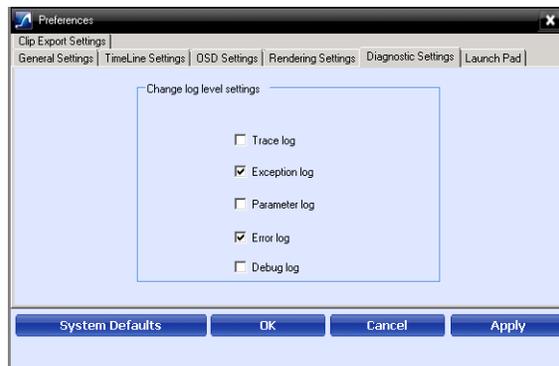


Figure 2-16 Diagnostic Settings

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 Launch Pad Settings

You can configure the Launch Pad settings to launch the application of your choice from MAXPRO VMS.

### To configure the launch pad 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 is displayed.
2. Click the **Launch Pad** tab.

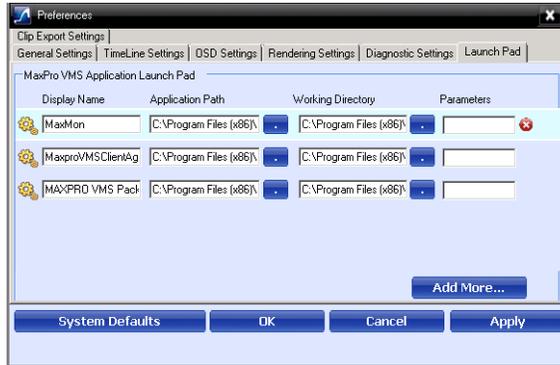


Figure 2-17 Launch Pad Settings

3. Under **Display Name**, type the name of the application you want to launch from MAXPRO VMS.
4. Under **Application Path**, select the application path that points to the application to be launched.
5. Under **Working Directory**, select the working directory that points to the application to be launched.
6. Under **Application Parameters**, type the parameters if any to launch the application.

---

**Note:** Click **Add More...** to add more than three applications.

---

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

---

**Note:** Click  on the toolbar on the top of the salvo layout, and then select the application that you want to launch from MAXPRO VMS.

---

## 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.

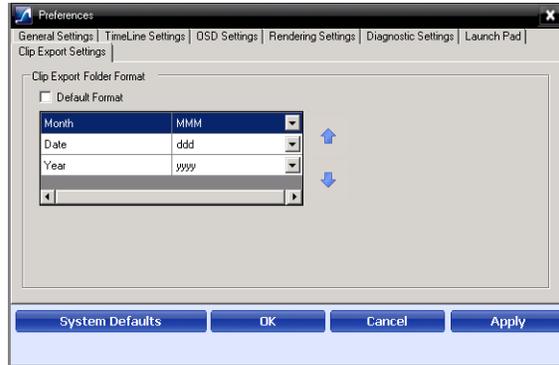


Figure 2-18 Clip Export Settings

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 Preferences

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

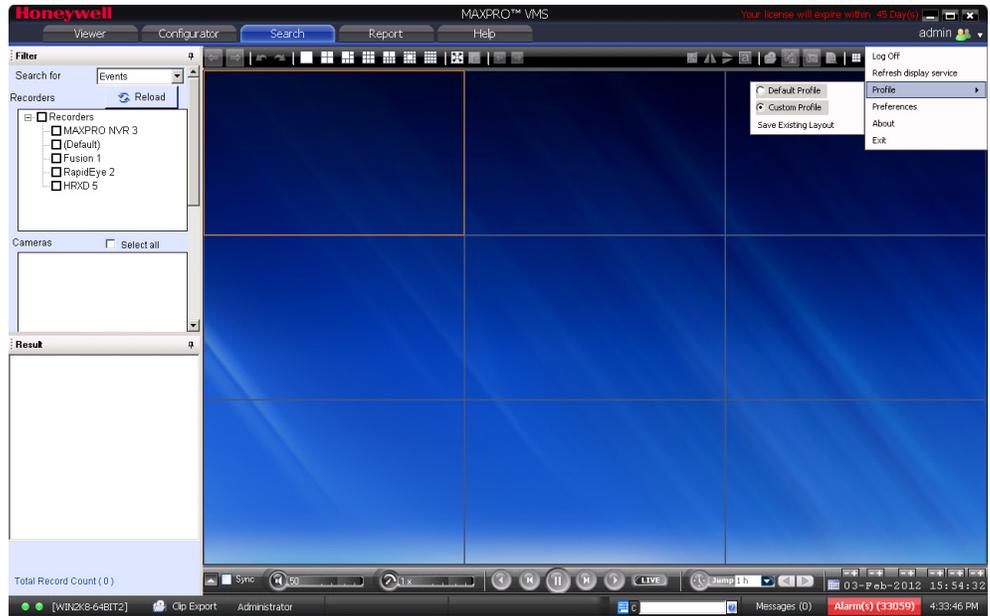


Figure 2-19 Custom Profile

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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# Configuring Devices and Setting up a Site

Configuring devices and setting up a site is the initial task performed after installing MAXPRO VMS. These tasks are performed by the installers and site engineers.

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**Note:** For more information on configuration, refer to the MAXPRO VMS Commissioning and Installation guide.

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# Monitoring a Site

## Salvo Layouts and Panels

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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.

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### 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](#).

### Use of joystick controller

You can use the joystick controller (Ultrakey keyboard) to perform actions such as panning, tilting, and zooming of camera, selecting a salvo layout, selecting a camera, playing a sequence, and selecting a monitor. The keys in the joystick controller can be associated with the intercept keys to perform these actions.

### 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.

### Surrounding Cameras

The Surrounding Cameras s feature allows you to associate a group of cameras to each camera. This feature is particularly useful when you want to view video from a group of cameras at the same time. For example, when you want to view video from cameras located in the same area. See [Surrounding Cameras](#) for more information.

### 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. See [About 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, flip the video display, view the mirror image of 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](#).

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# Salvo View

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## Creating a Salvo View

1. Click the **Viewer** tab.

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**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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## Surrounding Cameras

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You can associate a camera to a group of cameras using the “Surrounding Cameras” feature. This feature enables you to view video from a group of related cameras at the same time. For example, when you want to view video from cameras located in the same area.

### To define the surrounding cameras for a camera

1. Click the **Viewer** tab.
2. Click  on the toolbar on the top of the salvo layout. The surrounding cameras salvo layout appears.
3. Select the camera for which you want to associate a group of cameras from the Devices window or **My Devices** window. You need to drag and drop the camera in the central panel of the salvo layout. The panel starts displaying video from the camera.
4. From the **Site** window or **My Devices** window, select the cameras you want to associate with the camera selected in the previous step. The panel starts displaying video from the cameras.
5. Click  to save the surrounding cameras salvo layout.

### Switching to the Surrounding Camera View for a Camera

- Click  on the toolbar. The surrounding cameras salvo layout appears. Select the camera from the **Site** window or **My Devices** window. The surrounding cameras salvo layout starts displaying video from the camera and the associated cameras.
- or
- Hover the mouse over the panel displaying video from the camera. A panel toolbar appears. Click  in the panel toolbar. The surrounding cameras salvo layout starts displaying video from the camera and the associated cameras.

## 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.

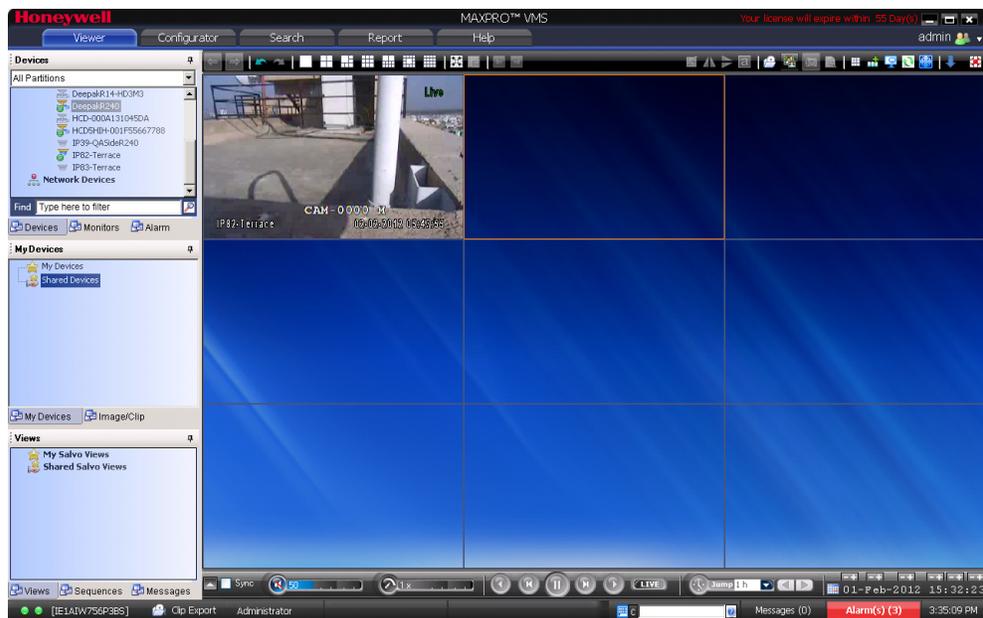


Figure 3-1 A panel displaying live video

**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 flipping the video display, 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...
<b>Full Screen</b>	maximize the salvo layout to full screen. Alternatively, you can click in the toolbar on the top of the salvo layout.
<b>Enable Square Select</b>	select a rectangular area on the video display. The selected area is automatically zoomed in or enlarged.
<b>Remove Text Overlay</b>	to remove text overlay displayed on the video. Alternatively, you can click in the toolbar on the top of the salvo layout.
<b>Park Camera</b>	enable the camera parking feature. See <a href="#">Camera Parking</a> for more information.
<b>Digital PTZ</b>	enable digital PTZ. See Panning Tilting and Zooming for information on digital PTZ.
<b>Add Bookmark</b>	add a bookmark in the timeline. You can also add a bookmark by pressing the <b>CTRL + B</b> keys.
<b>Add Bookmark to All</b>	add bookmarks to all the cameras displayed on the salvo layouts.
<b>Send Message</b>	send message to an operator or to another monitor. See <a href="#">Operator messaging</a> for more information.
<b>Start Recording</b>	start the recording of video. Alternatively, you can click in the panel toolbar to start recording of video.

Command	Click to...
<b>Stop Recording</b>	Alternatively, you can click in the panel toolbar to stop recording of video.
<b>Mark In</b>	add a mark in point in the timeline. You can also add a mark in point by pressing the <b>CTRL + I</b> keys. See <a href="#">Video Recording and Viewing</a> for more information.
<b>Mark Out</b>	add a mark out point in the timeline. You can also add a mark out point by pressing the <b>CTRL + O</b> keys. See <a href="#">Video Recording and Viewing</a> for more information.
<b>Save Image</b>	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 <a href="#">Saving Images</a> .
<b>Save Image As</b>	save the frame displayed in the panel in different image formats such as JPG, PNG, and GIF. See <a href="#">Saving Images</a> for more information.
<b>Show Surrounding Cameras</b>	to view video from the associated cameras. See <a href="#">Surrounding Cameras</a> for more information.

## Camera Parking

Camera Parking is applicable only for selected PTZ cameras. This feature overrides the Home Preset location of a PTZ camera. Using this feature, you can explicitly park a camera at a particular location of your choice.

### To use the Camera Parking feature

1. On the panel displaying live video, use the pan, tilt, and zoom options to position the camera to a location of your choice.
2. Right-click the panel, and select **Park Camera** in the context menu.

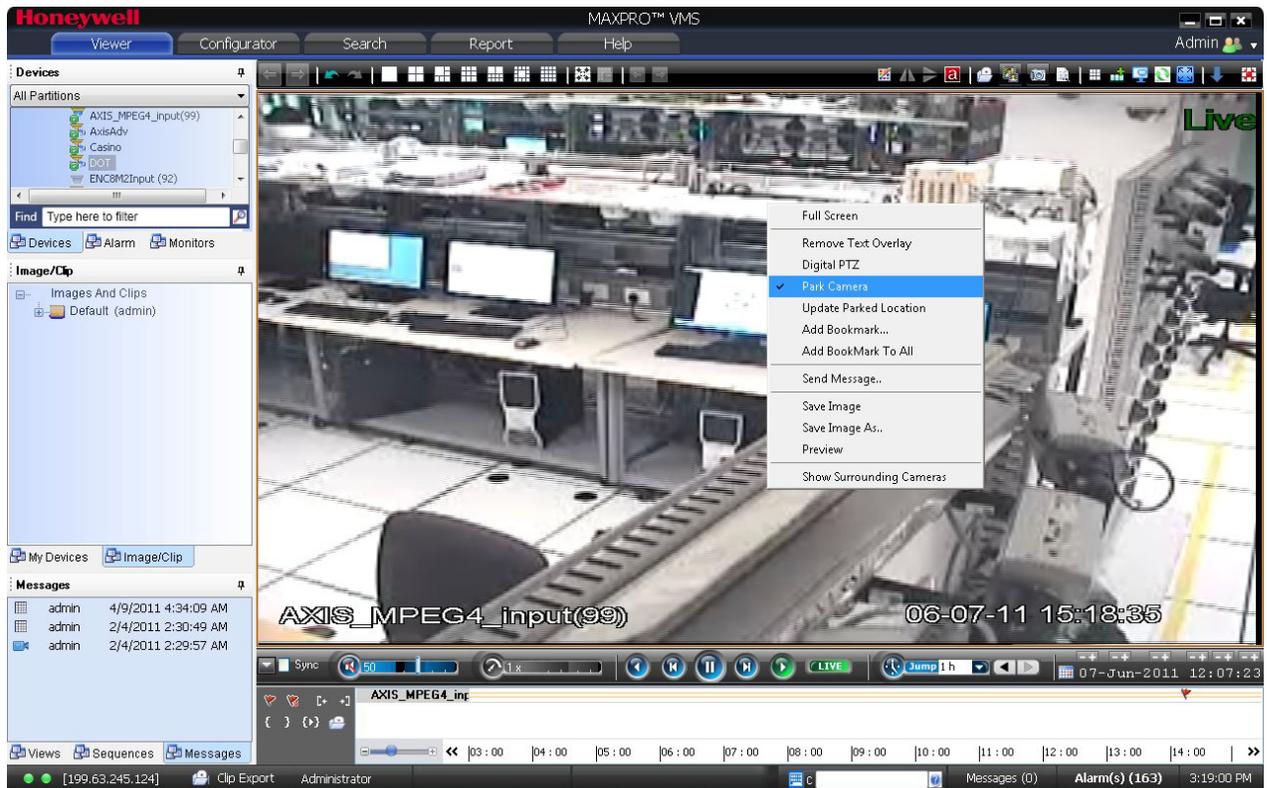


Figure 3-2 Camera Parking

- The camera is parked to the selected location.
3. To define a new location, use the pan, tilt, and zoom options to select a new location.
  4. Right-click the panel, and then click **Update Parked Location** in the context menu.

---

## Playing a Sequence

A sequence is a set of live video streamed one after the other from cameras for a specified time interval.

### 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).

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# Video Recording and Viewing

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## Video Recording

In the **Configurator** tab, you can configure the settings to record video for the cameras connected to the IP Engine. Four types of record settings are available for the cameras connected to the IP Engine. They are user activated, background/continuous recording, motion detected recording, and scheduled recording.

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**Note:** In MAXPRO VMS, the settings for video recording cannot be configured for the cameras connected to the Rapid Eye, Fusion, Intellex, and Enterprise recorders. You cannot start the recording (user activated recording) of video from cameras connected to these recorders. However, you can play the recorded video saved in these recorders. In addition, you can also view live video from the cameras connected to these recorders. See [Viewing Live Video](#) for more information.

---

## About the Recording Settings for IP Engine

### User Activated

You can configure the user activated settings for recording moments of interest while viewing live video from the camera. After configuring the user activated settings, the operator can start recording of video when needed. The video is recorded for the time period specified in the settings for user activated recording.

See [Video Control Options in Panel Toolbars](#) for information on how to start the user activated recording of video from a camera.

### Background Recording

After configuring the background recording settings, the camera continuously records video.

### Motion Detected Recording

After configuring the motion detection settings, the camera starts recording video when motion is detected.

### Scheduled Recording

After configuring the scheduled recording settings, the camera starts recording video on specified date and time.

## 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 add comments and mark points of interest in the timeline using the bookmark feature (See [Marking Points of Interest in the Timeline Using Bookmarks](#) for more information). This enables you to locate moments of interest when reviewing 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.

---

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.

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**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.

---

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.

In the timeline, the time duration for which recording is available is indicated in green color. The time duration for which recording is not available is indicated in white color. This helps you to locate the video recording in the timeline.

**Note:** The timeline shows the green color and gray color only for the cameras connected to the IP Engine. Presently, this feature is not supported for cameras connected to other recorders. However, you can click the timeline to play the recorded video. The following table lists the colors that appear in the timeline.

Color	Indicates...
	recording is available for the corresponding date and time.
	recording is not available for the corresponding date and time.
	the timeline for the camera connected to other recorders. The green and white color appears only for the cameras connected to the IP Engine.

## 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 to play video. The icon changes to the  . You can click this icon to pause the playing of video.

- View frames in the recorded video

Click the  icon to view the forward frames or click the  icon

- to view the reverse frames.
- Play video that is paused

Click the  icon or the  icon to forward play video.

To reverse play the video, click the  icon.

- Change the playing speed

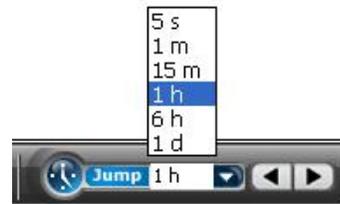
Hover the mouse over the  while video is playing and move the slider to change the playing speed.

**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.

- Sync video

Sync video allows you to synchronize the display of video from multiple cameras. In the Salvo layout, select the cameras, select the **Sync** check box on the timeline window or click  on the tool bar above salvo layout to enable sync playback mode. Any actions performed like jump, forward, and

rewind is synced in the entire salvo layout. When a new camera is dragged and dropped, the video from that camera is also synced.

- 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.

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**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...
<b>Full Screen</b>	maximize the salvo layout to full screen. Alternatively, you can click  in the toolbar on the top of the salvo layout.
<b>Enable Square Select</b>	select a rectangular area on the video display. The selected area is automatically zoomed in or enlarged.
<b>Remove Text Overlay</b>	to remove text overlay displayed on the video. Alternatively, you can click in the toolbar on the top of the salvo layout.
<b>Digital PTZ</b>	enable digital PTZ. See <a href="#">Panning, tilting, and zooming</a> for more information.
<b>Add Bookmark</b>	add a bookmark in the timeline. You can also add a bookmark by pressing the <b>CTRL + B</b> keys.
<b>Add Bookmark to All</b>	add bookmarks to all the cameras displayed on the salvo layouts.
<b>Send Message</b>	send message to an operator or to another monitor. See <a href="#">Operator messaging</a> for more information.
<b>Start Recording</b>	start the recording of video. Alternatively, you can click in the panel toolbar to start recording of video.

Command	Click to...
<b>Stop Recording</b>	Alternatively, you can click in the panel toolbar to stop recording of video.
<b>Mark In</b>	add a mark in point in the timeline. You can also add a mark in point by pressing the <b>CTRL + I</b> keys. See <a href="#">Video Recording and Viewing</a> for more information.
<b>Mark Out</b>	add a mark out point in the timeline. You can also add a mark out point by pressing the <b>CTRL + O</b> keys. See <a href="#">Video Recording and Viewing</a> for more information.
<b>Save Image</b>	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 <a href="#">Saving Images</a> for more information.
<b>Save Image As</b>	save the frame displayed in the panel in different image formats such as JPG, PNG, and GIF. See <a href="#">Saving Images</a> for more information.
<b>Show Surrounding Cameras</b>	to view video from the associated cameras. See <a href="#">Surrounding Cameras</a> for more information.
<b>Alternate Camera</b>	to view the video from the alternate camera. The video displayed from the alternate camera would sync wit the date and time of the video that was being displayed by the previous camera.

## 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.

---

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. Alternatively, you can right-click the loop to display a context menu and click **Stop Loop**.

## Marking Points of Interest in the Timeline Using Bookmarks

You can add bookmarks in a timeline to mark points of interest in a video recording. For example, if you notice an event in the video and you want to review the portion later, you can add a bookmark. You can also add comments to the bookmarks and browse from one bookmark to the other in the timeline. In addition, you can cut and copy a bookmark and paste it at a different point in the timeline. The bookmark comments appear as tool tips in the timeline at marked points and are helpful while reviewing recorded video.

## Adding a Bookmark

You can add a bookmark in any of the following ways:

- Click the point in the timeline where you want to add a bookmark and click .
- Right-click the point in the timeline where you want to add a bookmark and click **Add Bookmark** in the context menu.
- Right-click on the panel displaying video and click **Add Bookmark** in the context menu. You can also select a panel and press the **CTRL + B** keys to add a bookmark. The bookmark is added at the corresponding point in the timeline.

## Adding Comments to a Bookmark

### To add comments to a bookmark

1. Right-click the bookmark in the timeline and click **Add Comments** in the context menu. A dialog box appears.
2. Type your comments and click **OK**. The comments are saved and appear as ToolTip when you hover the mouse over the bookmark.

---

**Note:** To edit the comments, right-click the bookmark and click **Edit Comments** in the context menu. Modify the comments in the dialog box and click **OK**.

---

## Adding Bookmarks to all the Cameras Displayed in the Salvo Layout

### To add bookmarks to all the cameras displayed in the salvo layout

- Right-click the bookmark for a particular camera in the timeline and then click **Apply To All** in the context menu.

Or

- Right-click on the panel displaying video and click **Add Bookmark to All** in the context menu.

---

**Note:** To add a bookmark to a selected panel, right-click a bookmark in the timeline and then click **Apply to Selected** in the context menu.

---

## Removing a Bookmark for a Camera displayed in the Salvo Layout

### To remove a bookmark from a camera displayed in the salvo layout

- Right-click the bookmark for a particular camera in the timeline and then click **Remove Bookmark** in the context menu.

---

**Note:** If you want to all the bookmarks for a camera, right-click the bookmark and then click **Remove All Bookmarks** in the context menu.

---

## Browsing from one Bookmark to the Other

Using this feature, you can skip those portions in the timeline that are not bookmarked. This enables you to selectively view video only from bookmarked portions in the timeline.

### To browse from one bookmark to the other

1. Select a timeline by clicking it in the **Timeline** window. You can also click on a panel displaying video to select the corresponding timeline.
2. Click the icon to view video from the next bookmarked point or click the icon to view video from the previous bookmarked point.

---

or

Right-click a bookmark in the timeline to display a context menu. Click **Next Bookmark** to view video from the next bookmarked point or click **Previous Bookmark** to view video from the previous bookmarked point in the timeline.

## Cut, Copy, and Paste Bookmarks

### To copy, copy and paste bookmarks

1. Right-click a bookmark in the timeline to display the context menu. Click the **Cut** or **Copy** command in the context menu as needed.
2. Right-click the point in the timeline where you want to paste the bookmark and click **Paste** in the context menu.

## Deleting a Bookmark

You can delete a bookmark in any of the following ways:

- Right-click the bookmark you want to delete. A context menu appears. Click **Remove Bookmark** in the context menu.
- Click to select the bookmark you want to delete and then click the  icon or press the **DELETE** key.

## 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.

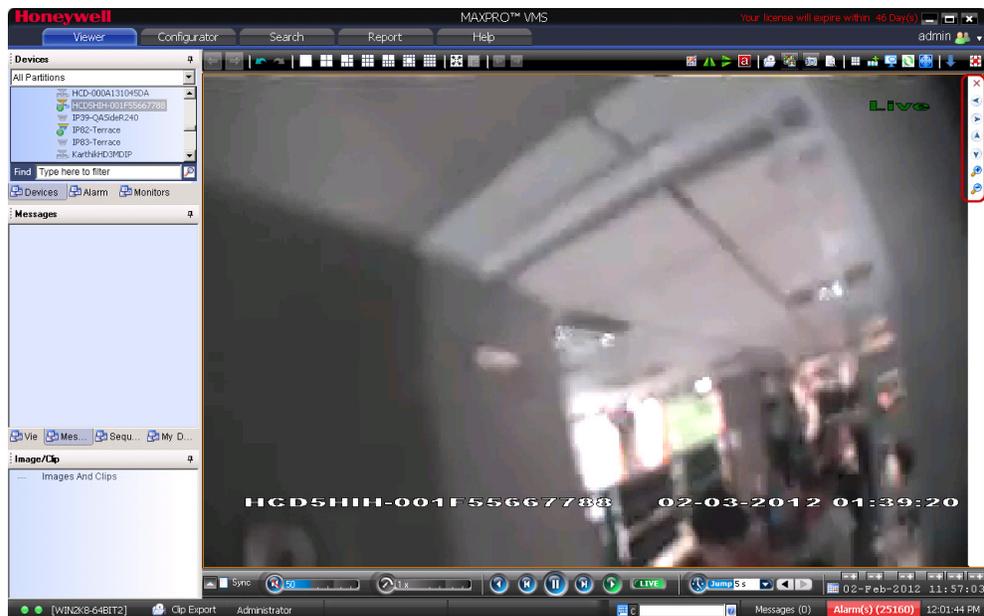


Figure 3-3 Toolbar on the right of the panel displaying live video

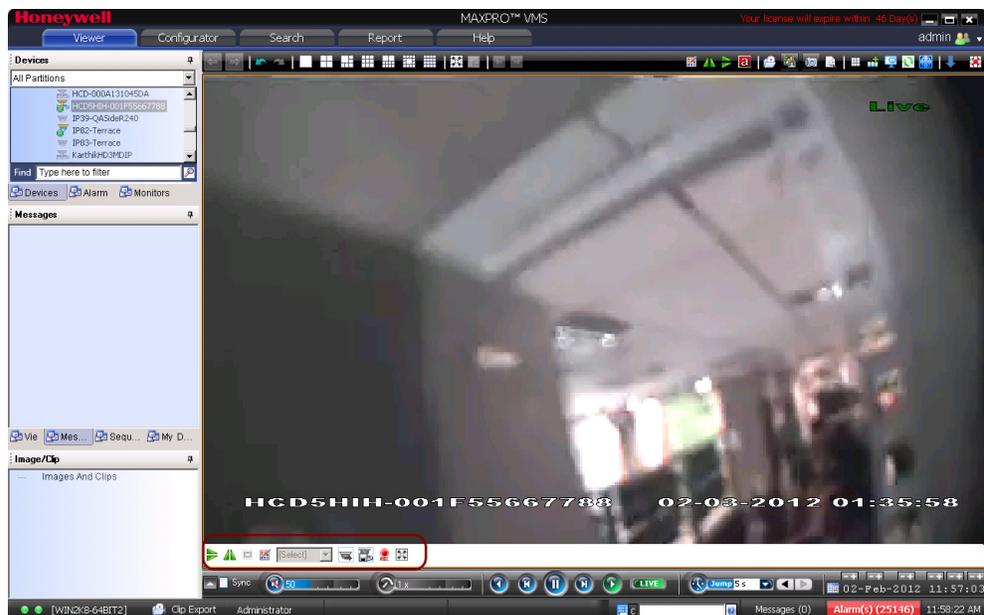


Figure 3-4 Toolbar on the bottom of the salvo panel displaying live video

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.
	flip the video display. Alternatively, you can click this icon in the toolbar on the top of the salvo layout.
	view the mirror image of the video display. Alternatively, you can click this icon in the toolbar on top of the salvo layout.
	reset the digital PTZ effects on the video display
	display the color correction window. Move the sliders to set the brightness, contrast, hue, and saturation. You can select the <b>Blur</b> checkbox to blur the video display and the <b>Sharpness</b> check box to increase the image sharpness or clarity. Alternatively, you can click this icon in the toolbar. <b>Note:</b> Select the <b>Apply color changes</b> check box to save the settings. Clicking the <b>Reset</b> 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. <b>Note:</b> The drop down list is disabled when digital PTZ is enabled. You need to disable the digital PTZ feature to select a preset. See <a href="#">Panning, tilting, and zooming</a> for information on enabling and disabling the digital PTZ feature.

Icon	Click to...
	<p>move a preset camera position.</p> <p>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.</p> <p><b>Note:</b> The icon is disabled when digital PTZ is enabled. You need to disable the digital PTZ feature to move a preset. See <a href="#">Panning, tilting, and zooming</a> for information on enabling and disabling the digital PTZ feature.</p>
	<p>store a preset camera position.</p> <p>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.</p> <p><b>Note:</b> The icon is disabled when digital PTZ is enabled. You need to disable the digital PTZ feature to store a preset. See <a href="#">Panning, tilting, and zooming</a> for information on enabling and disabling the digital PTZ feature.</p>
	<p>start recording of video. You can click the icon again to stop recording of video. This initializes user activated recording.</p> <p><b>Note:</b> Right-clicking on a panel displays a context menu. You can click the <b>Start Recording</b> command to start recording of video. This initializes user activated recording.</p>
	<p>view video from associated cameras. See <a href="#">Surrounding Cameras</a>.</p>
	<p>pan left.</p>
	<p>pan right.</p>
	<p>tilt up.</p>

Icon	Click to...
	tilt down.
	open iris.
	close iris.
	focus far.
	focus near.

## 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

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## 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 Bitmapmed 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 W3C. The 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.

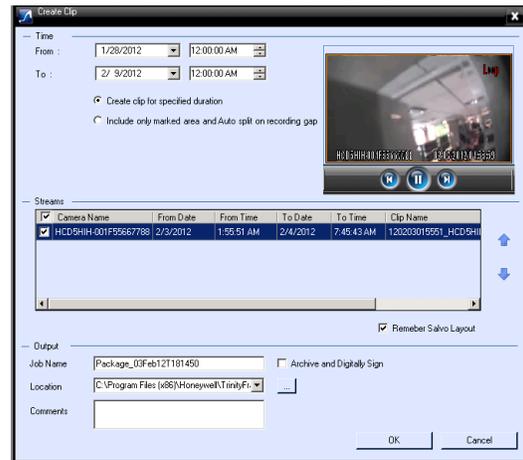
### To create a clip

1. Click the **Viewer** tab.
2. Specify the loop for which you want to create a clip.

- Click  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 3-5** Creating a Clip

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

Option	Select to...
<b>Include only marked area and Auto split on recording gap</b>	save one or more loop in the timelines as clips.
<b>Create clip for entire duration</b>	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 <b>From</b> and <b>To</b> boxes.

- Under **Streams**, select the cameras. Only the video from the selected cameras are saved as clips.
- In the **Format** drop-down list under **Streams**, select the required format. The formats supported by the recorders are listed in the following table.

Recorder	Format Supported
<b>IP Engine, Rapid Eye, Fusion</b>	WMV
<b>Enterprise</b>	MPG, SDC
<b>Intellex</b>	AVI
<b>Pelco</b>	AVI
<b>Digital Sentry</b>	MPG, AVI

Recorder	Format Supported
Milestone	AVI
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.

Clip Name	Description
CameraDoor	The name of the camera.
(1)	The file extension for the clip.
MP4	The file extension for the clip. <b>Note:</b> The file extension can be MP4 or WMV.

---

**Note:** You change the default naming convention for clips. See [Setting Preferences](#) 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
<b>Image Size</b>	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**.

## Incident Management Mode

The Incident Management Mode feature helps in creating a story line of a particular incident that is captured using the video recorded from one or more surveillance cameras. You can create a clip for the incident that is triggered, and view it as a story line. You can save the clip with digital signature and send it for further evidence. You can create a story line from a maximum of 16 cameras.

### To start the Incident Management Mode

1. Click the **Viewer** tab.
2. Drag and drop the cameras to the salvo layout or drag and drop a salvo view to the salvo layout.

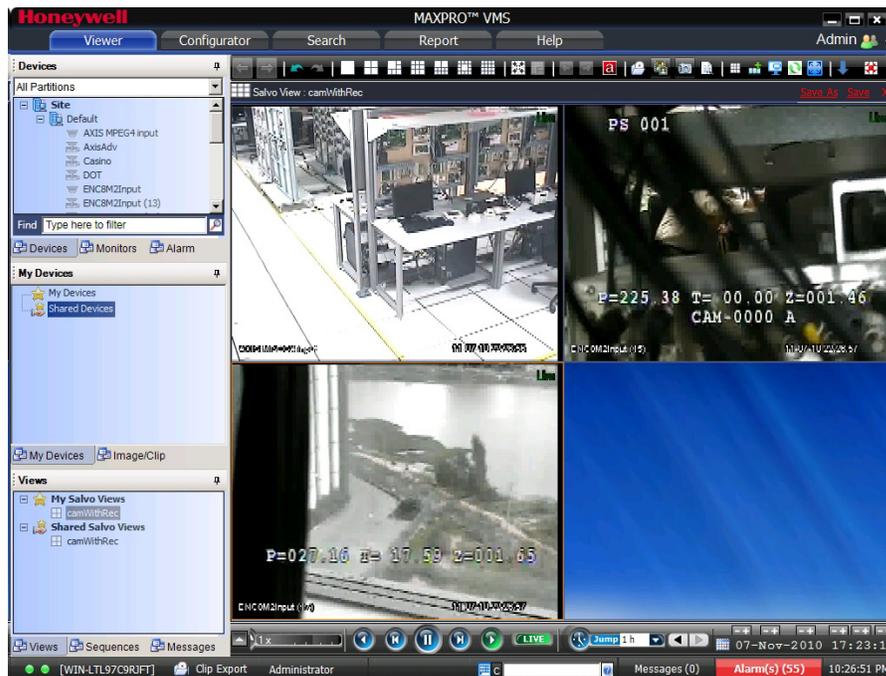


Figure 3-6 Dragging and dropping of cameras to the salvo layout

3. Click  on the toolbar on the top of the salvo layout. The Incident Management Mode is activated.

**Note:** You can drag and drop a new camera after starting the Incident Management Mode.



Figure 3-7 Incident Management Mode Activated

**Note:** The cameras displayed on the salvo layout automatically enter into the playback mode after the Incident Management Mode is activated. All the cameras display the same time in the Incident Management mode

4. Create loops for the each of the cameras. You can mark in multiple cameras at a time in the Incident Management Mode.

**Note:** Marking in multiple cameras automatically marks out all the previously marked in cameras.

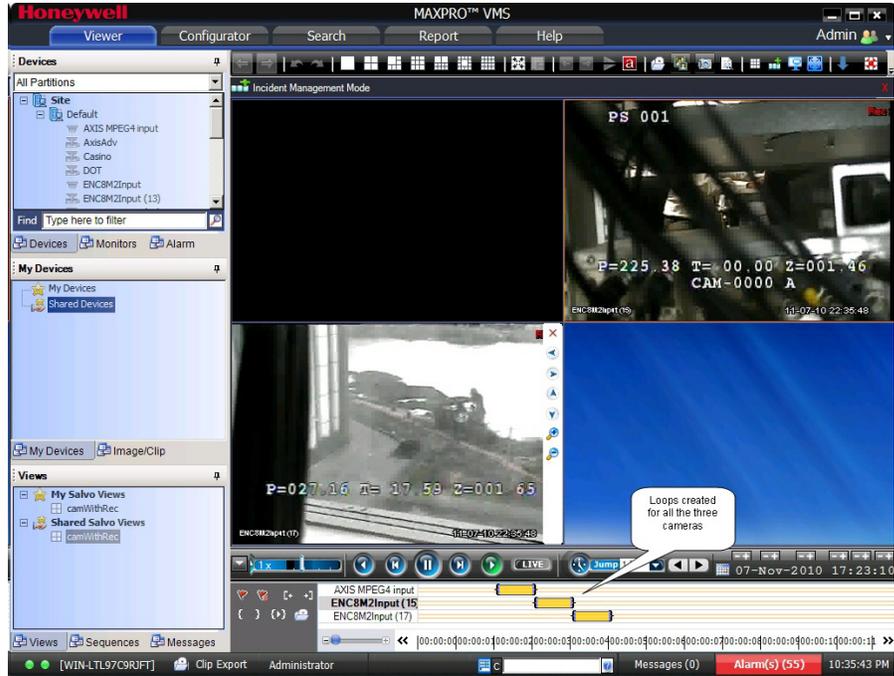


Figure 3-8 Creation of Loops

- Click  in the **Timeline** window to create a clip for the incident that is recorded. The **Create Clip** dialog box appears displaying the loops created for all the three cameras.

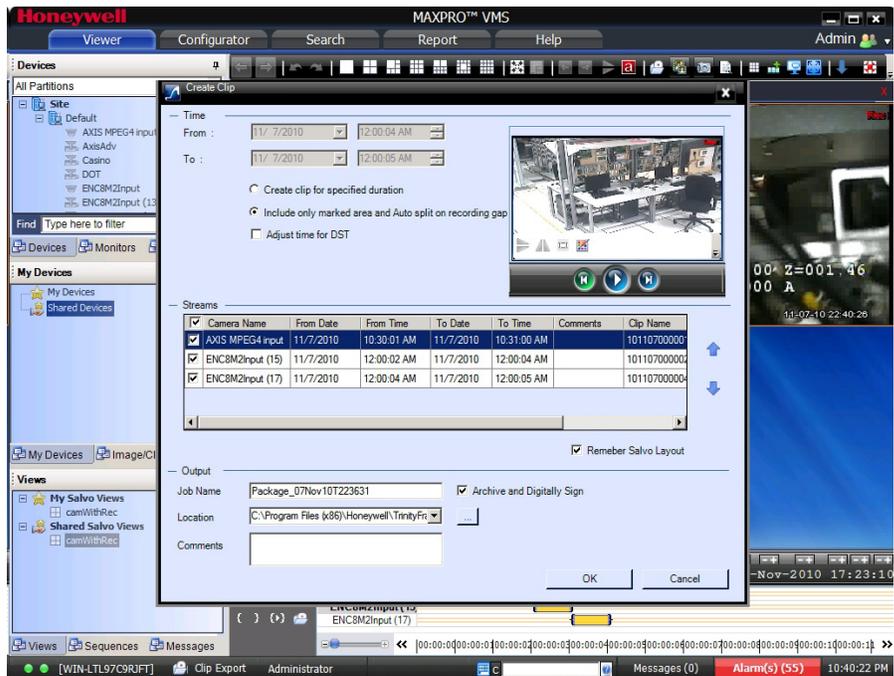


Figure 3-9 Create Clip dialog box

6. Select one of the following options in the dialog box:

Option	Select to...
<b>Include only marked area and Auto split on recording gap</b>	specify the time duration of video that you want to create in the clip. After selecting this option, the date and time (start and end) can be specified in the <b>From</b> and <b>To</b> boxes.
<b>Create clip for entire duration</b>	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 <b>From</b> and <b>To</b> boxes.

**Note:** The total clip time for a particular camera is calculated as follows: pre overlap time + loop time + post overlap time. For example, you mark in at 10:10:00 AM and mark out at 10:11:00 AM. The loop time is 1 minute. The pre overlap and post overlap times configured are 10 seconds respectively. The total clip time is 10 seconds + 60 seconds + 10 seconds = 80 seconds. The clip starts playing at 10:09:50 AM and ends playing at 10:11:10 AM.

7. Select the **Adjust Time for DST** check box to adjust the selected time with the day light savings time.
8. Under **Streams**, the list of cameras for which you created the loop are displayed. You can change the **From Date**, **To Date**, **From Time**, **To Time**, and rename or change the clip name according to your requirement. MAXPRO VMS assigns a name for the clip by default.

**Note:** Select a camera and use the  buttons to move it up or down.

**Note:** Select a camera to view its video on the Viewer window located on the right of the Create Clip dialog box. Use the **First Frame**, **Last Frame**, and **Pause** buttons to customize the viewing of the video.

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

Recorder	Format Supported
IP Engine, Rapid Eye, Fusion	WMV
Enterprise	MPG, SDC

Recorder	Format Supported
Intellex	AVI
Pelco	AVI

10. The **Remember Salvo Layout** check box is selected by default. The clip is played exactly in the salvo layout in which the cameras were dragged and dropped. Click to clear the **Remember Salvo Layout** check box if you want to play the clip sequentially as a storyline from one camera at a time.
11. The **Job Name** box automatically displays the package name.
12. 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.
13. To archive the clip with the digital signature, select the **Archive and Digitally Sign** check box. A package would be created with all the exported clips and stored in the specified location.
14. In the **Comments** box, type the required comments for the job to be created.
15. Click **OK** to create the clip. The clip creation status is indicated in the status bar.

**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.

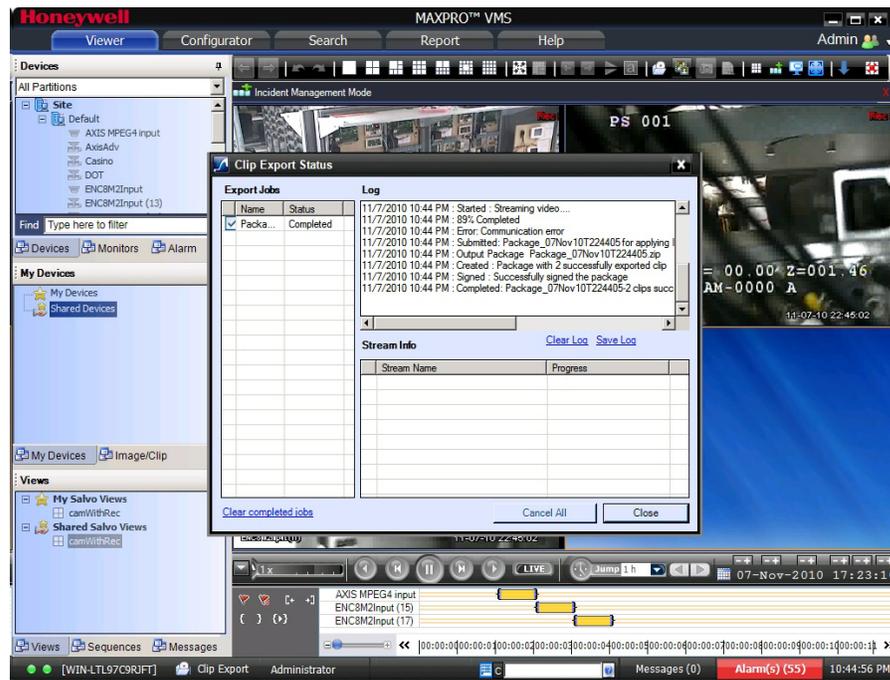


Figure 3-10 Clip Creation Successful

## 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.

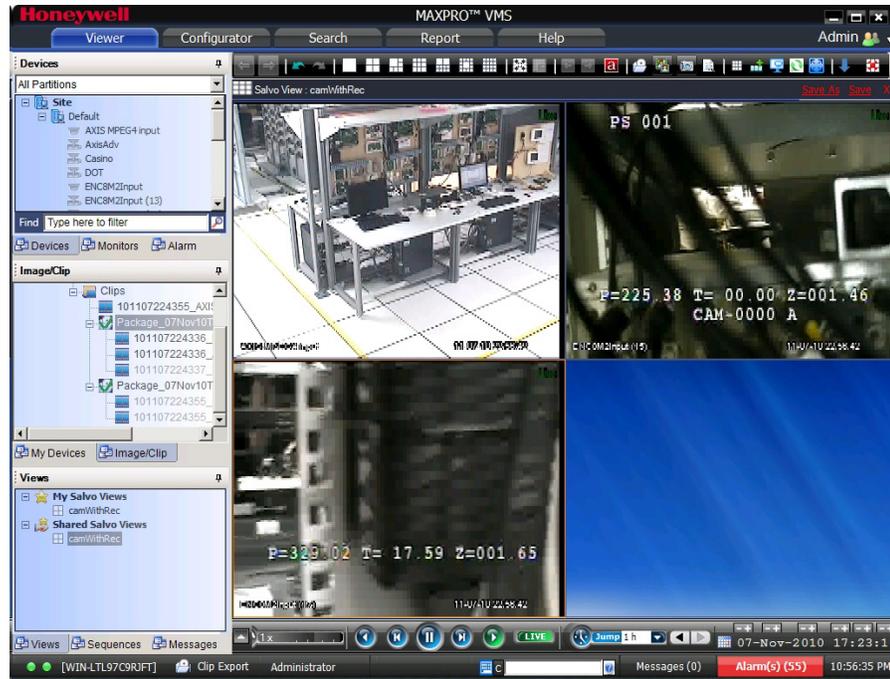


Figure 3-11 Dragging and dropping of packages

## Instant Salvo Export

Instant Salvo Export feature is similar and a scaled down version of the Incident Management Mode feature. The only difference is that you need not mark in and mark out a camera explicitly while doing instant salvo export. The system automatically marks in and marks out a camera based on the pre overlap time and post overlap time.

### To do an Instant Salvo Export

1. Click the **Viewer** tab.
2. Drag and drop the cameras to the salvo layout or drag and drop a salvo view to the salvo layout.
3. Click the  on the toolbar on top of the salvo layout. The **Create Clip** dialog box appears.
4. Follow the steps 6 through 15 in the “*Incident Management Mode*” section to complete the clip creation.

## 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...
<b>Description</b>	name of the event that triggered the alarm. For example, camera motion detected.
<b>Device Name</b>	name of the device such as recorder, camera, or switcher associated with the event. For example, the name of the camera that detected motion.
<b>Event Details</b>	name of the event attribute. Only the key event attribute is displayed in this column. For example, If an Encoder is disconnected, the encoder name would be displayed.
<b>Date:Time</b>	date and time when the alarm is triggered.
<b>Severity</b>	severity of the alarm.
<b>Site</b>	site name where the device is located.
<b>Global ID</b>	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.

- 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.

- 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....
<b>Ack</b>	acknowledge the selected alarm.
<b>Clear on Ack</b>	automatically clear the alarms when they are acknowledged.
<b>Ack All</b>	acknowledges all the alarms displayed in the <b>Alarm</b> window.

Command	Click to....
<b>Show Video</b>	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.  <b>Note:</b> The video is played only when the video recording is available.
<b>Show Preview Pane</b>	view video related to the alarm in a four panel salvo layout. This feature is available for cameras connected to the IP Engine only. See <a href="#">Setting Preferences</a> for more information.
<b>Show Details</b>	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.
<b>Freeze</b>	stop receiving the new or unacknowledged alarms in the <b>Alarm</b> window. You can click this command again to start receiving the alarms. This feature is useful when the <b>Alarm</b> window contains many unacknowledged alarms and it becomes difficult to manage them. You can stop receiving the alarms momentarily and start receiving again when needed.
<b>Receive Alarms Only</b>	list only the alarms in the <b>Alarm</b> 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 <a href="#">Setting Preferences</a> for more information
<b>Receive Events Only</b>	list only the events in the <b>Alarm</b> window. Events whose severity level is greater than or equal to the alarm severity threshold value are listed. See <a href="#">Setting Preferences</a> for more information.
<b>Receive Both Alarms and Events</b>	to list both alarms and events in the <b>Alarm</b> 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.

---

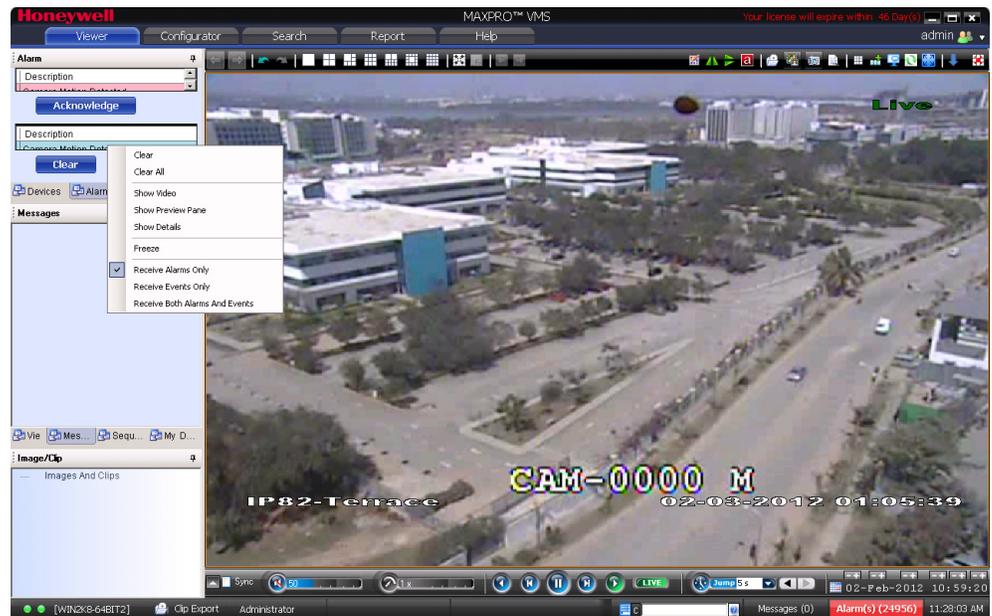
3. Click **Clear**. The alarm is removed from the list of acknowledged alarms. If you have selected multiple alarms, all the alarms are cleared.

### 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....
<b>Clear</b>	Clears the selected acknowledged alarm.
<b>Clear All</b>	Clears all the acknowledged alarms.
<b>Show Video</b>	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. <b>Note:</b> The video is played only when the video recording is available.
<b>Show Preview Pane</b>	view video related to the alarm in a four panel salvo layout. This feature is available for cameras connected to the IP Engine only. See <a href="#">Setting Preferences</a> for more information.

Command	Click to....
<b>Show Details</b>	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.
<b>Freeze</b>	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 manage them. You can stop receiving the alarms momentarily and start receiving again when needed.
<b>Receive Alarms Only</b>	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 <a href="#">Setting Preferences</a> for more information.
<b>Receive Events Only</b>	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 <a href="#">Setting Preferences</a> for more information.
<b>Receive Both Alarms and Events</b>	to list both alarms and events in the <b>Alarm</b> window.

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# Operator messaging

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## About operator and monitor messaging

Operator messaging is a feature that enables you to send video displayed in one or more panels or the whole salvo layout to other operators and digital monitors. The digital monitors are connected to the MAXPRO VMS client workstations. The MAXPRO VMS user interface is installed on client workstations. You can include your comments in the message and send it to operators and to yourself. The comments are not included when you send the message to digital monitors.

This feature is useful when you notice an event in the video and you want to communicate it to others. The other operators can view the video and watch the event you noticed.

The number of new messages sent to you appears in the blinking mode in the status bar. For example, **Messages(3)** in green color indicates three new messages.

### Sending message to operators, and to yourself

1. Click the **Viewer** tab.
2. Click to select the panel. To select multiple panels, press the **CTRL** key.
3. Right-click on the panel and select **Send Message** in the context menu. A dialog box appears.
4. In the **Message Type** box, select **Operator**. The list of operators appear in the **Operator** group.
5. Select the check box next to the operators to select them. The message is sent only to the selected operators. You can select the check box next to the **Name** column to select all the operators.
6. Select the check box next to **Send to me** to send the message to you.
7. In the **Comments** box, type your comments or remarks.
8. Click **Send** to send the message. When the operators receives the message, it appears in the **Messages** window. The number of messages also appears in the blinking mode in the status bar.

### Sending the Message to Digital Monitors

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**Note:** When message is sent to a digital monitor (client workstation), the video is displayed in a panel that is selected in the salvo layout.

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1. Click the **Viewer** tab.
2. Click to select the panel. To select multiple panels, press the **CTRL** key.
3. Right-click on the panel and select **Send Message** in the context menu. A dialog box appears.
4. In the message type box, select **Monitor**.
5. Select the check box next to the monitors to which you want to send the message.

---

**Note:** You can select the check box next to the Name column to select all the monitors.

---

6. Click **Send** to send the message.

## Forwarding a Received Message

You can forward the messages in the Messages window to operators and digital monitors.

### To forward a message

1. Click the **Viewer** tab.
2. Right-click the message you want to forward in the **Messages** window. A context menu appears.
3. Select **Send To** in the context menu. A dialog box appears.
4. Do one of the following:
  - To forward the message to operators, select **Operator** in the **Message Type** box. You can select the check box next to the operators to select them or select the check box next to the **Name** column to select all operators.
  - To forward the message to digital monitors, select **Monitor** in the **Message Type** box. You can select the check box next to the monitors to select them or select the check box next to the **Name** column to select all monitors.
5. Click **Send** to forward the message.

## Sending the whole Salvo Layout you are Viewing as a Message

You can send the whole salvo layout as a message to operators, to you, and to digital monitors. When the message is opened, the salvo layout you have sent appears with the video display in panels.

### To send the whole salvo layout as a message

1. Click the **Viewer** tab.
2. Right-click on the toolbar on the top of the salvo layout and click **Send Message** in the context menu. A dialog box appears. Perform one of the following:
  - To send the salvo layout to you, select the **Send to me** check box.
  - To send the salvo layout to operators, select **Operator** in the **Message Type** box. You can select the check box next to the operators to select them or select the check box next to the **Name** column to select all operators.
  - To send the salvo layout to digital monitors, select **Monitor** in the **Message Type** box. You can select the check box next to the monitors to select them or select the check box next to the **Name** column to select all monitors.
3. Click **Send** to send the message.

## Viewing Live Video

You can view live video from the messages.

### To view live video

1. Click the **Viewer** tab.
2. Click the **Messages** window. Select the message from which you want to view live video, right-click and then select **Show Live**.

## Reviewing Messages

### To open a message and review video

1. Click the **Viewer** tab.
2. In the **Messages** window, right-click the message, and then click **Review** in the context menu. The video is displayed in a panel based on the time the message was sent.

### To open a message and view live video

1. Click the **Viewer** tab.
2. Right-click the message in the **Messages** window and click **Show Live** in the context menu. The live video is displayed from the camera from which the message was sent.

---

**Note:** By default, message is in “Show Live” mode when you double-click or drag it.

---

## Viewing and Deleting Messages

The messages sent by other operators to you are listed in the **Messages** window. You can open the message to view the video and read the comments. You can also send the messages in the **Messages** window to other operators and digital monitors. The digital monitors connected to the MAXPRO VMS client workstations. The MAXPRO VMS user interface is installed on client workstations. In addition, you can delete the messages from the **Messages** window.

## Viewing Video and Comments in a Message

The following icons appear next to a message in the **Messages** window.

Icon	Click to view...
	video from all the panels in a salvo layout.
	video from a panel.
	video from more than one panel.

### To open a message and view video

1. Click the **Viewer** tab.

2. Perform one of the following:
  - In the **Messages** window, right-click the message, and then click **Review** in the context menu. The video is displayed in a panel on the salvo layout.
  - In the **Messages** window, right-click the message, and then click **Show Live** or drag and drop the message on the salvo layout or double-click the message. The video is displayed in a panel on the salvo layout. drop the message from the **Messages** window to a panel in the salvo layout. The video is displayed in the panel.
  - Double-click the message in the **Messages** window. The video is displayed in a panel.

#### To view the comments in a message

- Right-click the message in the **Messages** window and click **Show Details** in the context menu. The comments appear as a ToolTip.

---

**Note:** You can hover the mouse over the message icon to view the comments in a tooltip.

---

## Sending the Messages to other Operators and Digital Monitors

### To send messages to other operators and digital monitors

1. Click the **Viewer** tab.
2. Right-click the message in the **Messages** window and click **Send To** in the context menu. A dialog box appears.
3. Perform one of the following:
  - To send the message to operators, select **Operator** in the **Message Type** box. You can select the check box next to the operators to select them or select the check box next to the **Name** column to select all operators.
  - To send the message to digital monitors, select **Monitor** in the **Message Type** box. You can select the check box next to the monitors to select them or select the check box next to the **Name** column to select all monitors.
4. Click **Send** to send the message.

## Deleting Messages

### To delete a message in the Messages window

- Right-click the message you want to delete and click **Clear** in the context menu.

### To delete all the messages in the Messages window

- Right-click a message and click **Clear All** in the context menu.

## Searching for Recorded Video

You can search for video recorded from 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.

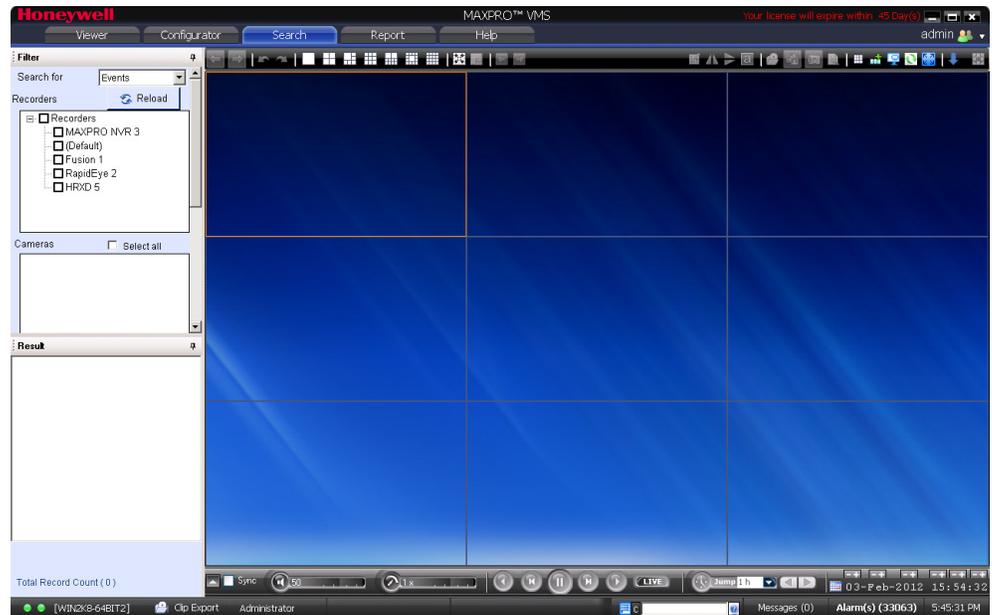


Figure 3-12 Search

2. In the **Search for** drop down list, select one of the following:
  - Events
  - Clips
  - Bookmarks
3. The list of IP engine 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).

5. Select one of the following search conditions in the **Date time filter** drop-down list.

Condition	To search for...
Today	video recorded today.

Condition	To search for...
<b>Yesterday</b>	video recorded yesterday.
<b>Last 7 Days</b>	video recorded in the last seven days.
<b>Last 30 Days</b>	video recorded in the last 30 days.
<b>On</b>	video recorded on a particular date. The <b>From</b> box to select the date is enabled when you select <b>On</b> .
<b>On or Before</b>	video recorded up to a particular date. The <b>From</b> box to select the date is enabled when you select <b>On</b> or <b>Before</b> .
<b>Between</b>	video recorded between a time duration. The <b>From</b> and <b>To</b> boxes are enabled when you select <b>Between</b> . You can select the start time and date in the <b>From</b> box. The end time and date can be selected in the <b>To</b> 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.

Or

If you doing a “Bookmark” search, then under **Type**, type the bookmark to be searched in the **Enter Bookmark** text box.

7. Click  . 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.

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**Note:** To select more than one search result, press the **CTRL** key.

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### Deleting the Recorded Video

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**Caution:** Deleting the recorded video from the search result also deletes it from the recorder.

---

#### To delete the recorded video

1. Select the recorded video from the list of search results.

---

**Note:** To select more than one search result, press the **CTRL** key.

---

2. Click . The recorded video is deleted from the recorder.

### Archiving and Restoring video

1. Select the recorded video from the list of search results.

2. Click .

### To restore an archived video

1. Select the archived video from the list of search results.

2. Click .

---

**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 typed 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.

## About Remote Monitor

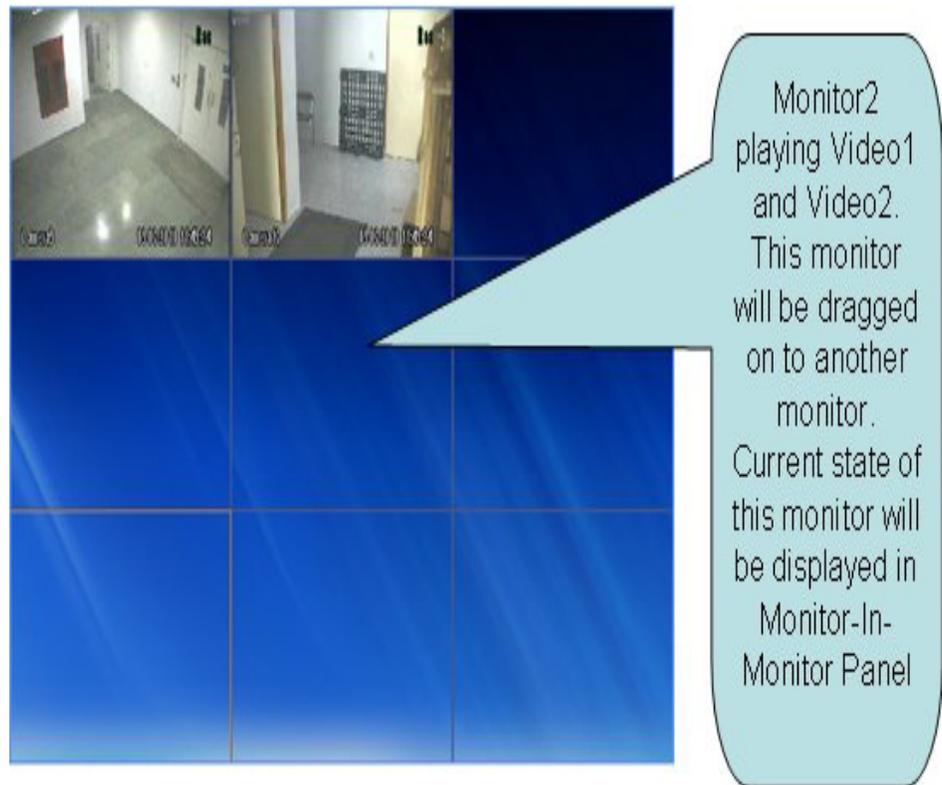
The Remote Monitor Mode feature helps you to remotely control the digital monitors from a single workstation. This feature is particularly useful for controlling the display of video on wall mounted digital monitors.

### To control the remote monitors

1. Click the **Viewer** tab.
2. Click the **Monitors** tab. The **Monitors** window displays the available list of monitors.



**Figure 3-13** List of monitors and initial state of salvo in monitor1



**Figure 3-14** Monitor 2 playing video 1 and video 2

You can control monitor 2 from monitor 1 by activating the remote monitor mode

3. Click  on the toolbar on the top of the salvo layout. The remote monitor mode is activated.
4. Drag and drop monitor 2 to monitor 1.

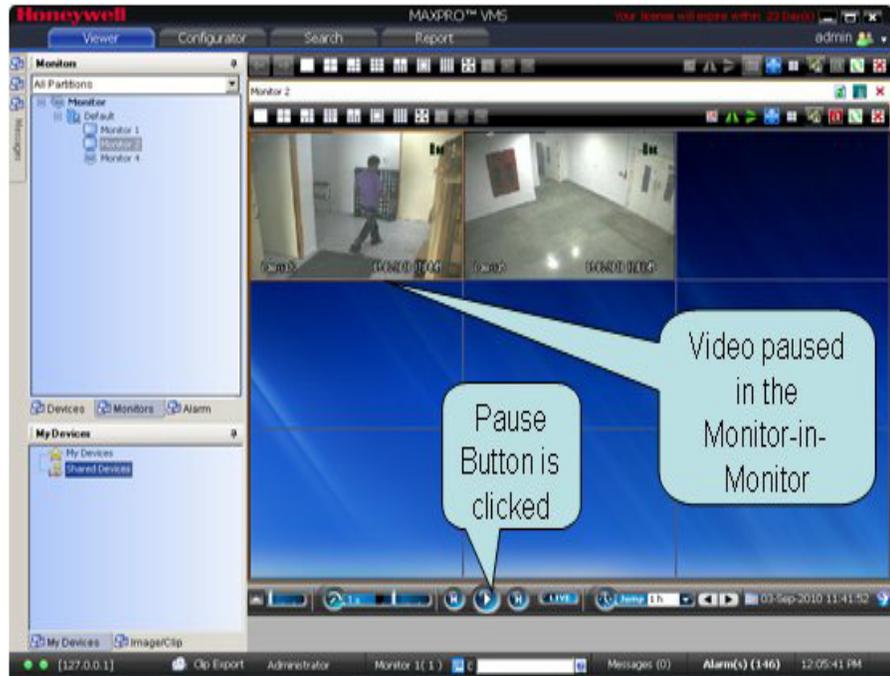


**Figure 3-15** *Dragging of monitor 2 to monitor 1*



**Figure 3-16** *Monitor 2 displayed in Monitor 1*

5. Perform an operation such as pausing the video from monitor 1.

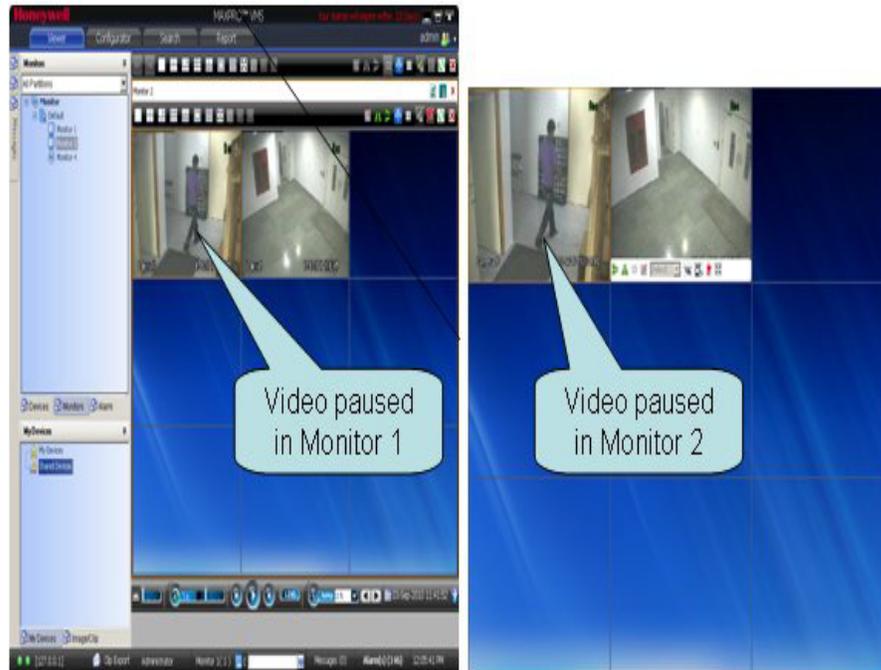


**Figure 3-17** Pausing video in Monitor 1

This action also pauses the video in monitor 2.



**Figure 3-18** Pausing of video in monitor 2



**Figure 3-19** Side by side view of monitor 1 and monitor 2

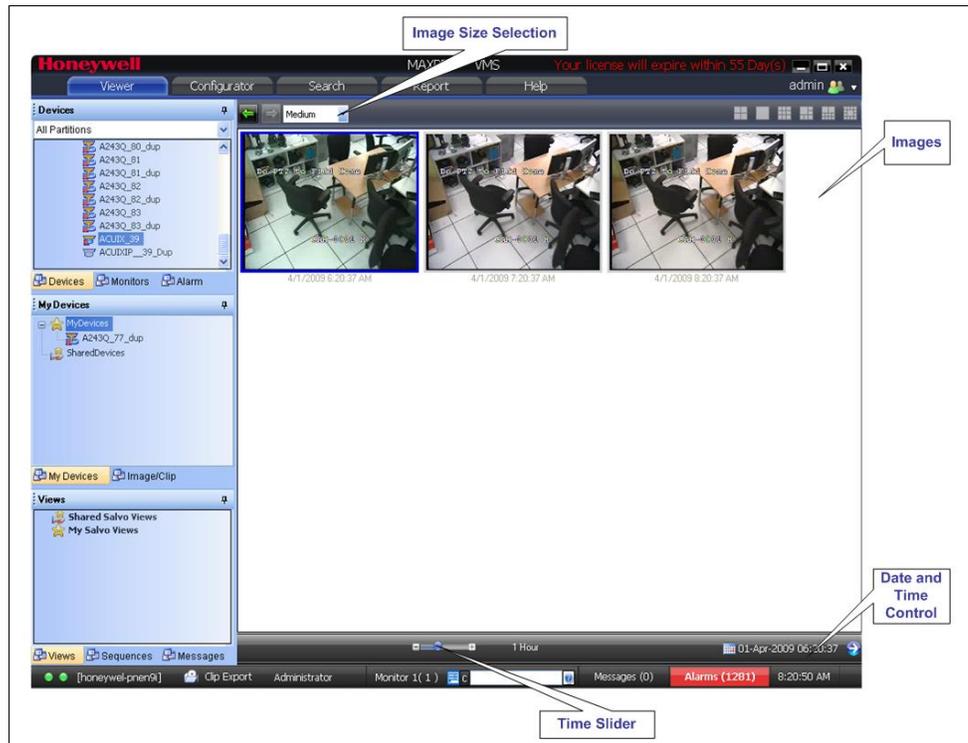
**Note:** The list of actions that you can perform in remote monitor mode include the following: selecting the cameras from which video is displayed, selecting the salvo layouts, creating salvo views and starting the recording of video.

## About Snapshot View

You can view images or frames from the video recording.

### To view the images from a video recording

1. Click the **Viewer** tab.
2. Right-click the camera from which you want to view the images in the **Devices** window. A context menu appears. Click **Snapshot View** to display the images.



**Figure 3-20** Snapshot view

You can move the timeline Slider to view images from different times. You can also use the Date and Time Control to view images from different times.

You can view the images in different sizes by selecting an option in the drop down box on the top. For example, Small, Medium, and Large.

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

## Persistence

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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.

## Virtual Keyboard

Virtual keyboard is feature that enables you to select monitors, salvo layouts, panels, and cameras using the keyboard. To perform an action such as panel or camera selection, you need to type a command in the virtual keyboard box. The virtual keyboard box is activated when you click **Virtual Keyboard** in the status bar or when you press **F3**.

You can enter the following commands in the virtual keyboard box.

Command	Description
<b>M</b>	<p>To select a monitor.</p> <p>To select a monitor, type “M” and the monitor call up number and press <b>ENTER</b>. For example, type “M1” and press <b>ENTER</b>. The monitor with the call up number 1 is selected.</p> <p><b>Note:</b> Each monitor is assigned a unique number called the callup number while adding the monitor.</p> <p><b>To view the monitor callup numbers in the Site window</b></p> <ol style="list-style-type: none"> <li>1. Right-click the <b>Site</b> or <b>Devices</b> branch. A context menu appears.</li> <li>2. Select <b>Show Device ID</b> in the context menu. The monitor call up numbers appear next to the monitor name.</li> </ol> <p><b>Note:</b> After, you select a monitor, the commands that you type in the virtual keyboard box are executed on the selected monitor. For example, after you select a monitor with callup number one, and type the command to select a salvo layout. The salvo layout is selected and displayed in the monitor with the callup number one.</p>
<b>L</b>	<p>To select a salvo layout.</p> <p>To select a salvo layout, type “L” and the position number of the salvo layout in the toolbar and press <b>ENTER</b>. For example, to select the second salvo layout from the left of the toolbar, type “L2” and press <b>ENTER</b>.</p>
<b>W</b>	<p>To launch a salvo view. To launch a salvo view, type “W” and the View ID and press <b>ENTER</b>. For example, if the View ID of a salvo view is 1, then type “W1” and press <b>ENTER</b>. The salvo view with View ID 1 is launched.</p>

Command	Description
<b>V</b>	To select a preset for the camera that is displaying video. To select a preset, type "V" and the camera preset number and press <b>ENTER</b> . For example, if you want preset 1 for the camera, then type "V1" and press <b>ENTER</b> .
<b>P</b>	To select a panel in the salvo layout. To select a panel in the salvo layout, type "P" and the panel position number in the layout and press <b>ENTER</b> . For example, type "P1" and press <b>ENTER</b> to select the first panel in the layout.
<b>C</b>	<p>To select a camera from the <b>Devices</b> window. The video from the camera is displayed in the panel that is selected in the salvo layout.</p> <p>To select a camera, type "C" and the camera call up number (Device ID) and press <b>ENTER</b>. For example, type "C1" and press <b>ENTER</b>. The video from the camera with the call up number 1 is displayed in the selected panel.</p> <p><b>Note:</b> Each camera is assigned a unique number called the callup number while configuring the camera. See Configuring a Camera.</p> <p><b>To view the camera callup numbers in the Site window</b></p> <ol style="list-style-type: none"> <li>1. Right-click the <b>Site</b> or <b>Devices</b> branch. A context menu appears.</li> <li>2. Select <b>Show Device ID</b> in the context menu. The camera call up numbers appear next to the camera name.</li> </ol>
<b>O</b>	To activate the surrounding cameras for a particular camera. To select a camera, type "O" and the camera number and press <b>ENTER</b> . For example, type "O1" and press <b>ENTER</b> . The surrounding cameras for the camera 1 is activated.

The current command that is being used is displayed on the left of the virtual keyboard. For example, if you select a camera using the virtual keyboard, then the letter C is displayed on the left of the virtual keyboard indicating that it is in the camera mode.

The following table lists the shortcuts to perform various tasks using the keyboard.

Shortcut keys	Description
<b>Shift + Delete</b>	To close all the panels in the Salvo view.

<b>Shortcut keys</b>	<b>Description</b>
<b>Shift + Up arrow</b>	To zoom in
<b>Shift + Down arrow</b>	To zoom out.
<b>CTRL + Delete</b>	To close the Salvo view or the Message.
<b>CTRL + M</b>	To select all cameras.
<b>CTRL + P</b>	To perform analog PTZ.
<b>CTRL + D</b>	To perform digital PTZ.
<b>CTRL + Right arrow, CTRL + Left arrow, Shift + Left arrow, and Shift + Right arrow keys</b>	To perform panning operations.
<b>CTRL + Up arrow, CTRL + Down arrow keys</b>	To perform tilt operations.
<b>Space key</b>	To reset PTZ.
<b>Arrow keys</b>	To increase and decrease the speed for reverse and forward playing of video.
<b>Delete key</b>	To close the selected panel in the salvo layout.
<b>CTRL + SPACE or F6</b>	To enter the playback mode
<b>CTRL + ENTER</b>	To enter the live mode.

# Generating Reports

## Overview

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You can generate two types of reports, namely Event History Report and Operator Log Report.

### Event History Report

The event history report can be generated for cameras, monitors, recorders, and switchers. The event history report lists the events related to a device during a time period. For example, for a camera, you can generate the event history report to know the occurrence of events like enabling of camera motion detection, starting of background recording, and others. You can select the device and list of events that you want to view while generating the report.

### Operator Log Report

The operator log report can be generated to view the activities performed by users. The operator log report lists the activities performed by users during a time period. For example, creating clips, adding bookmarks, sending messages and other actions performed by a user. You can select the users and the list of activities you want to view while generating the report.

## Generating the Event History Report

### To generate the event history report

1. Click the **Report** tab.
2. In the **Reports** window, select the **Event History Report**.
3. Click **Show Report**. The **Event History Report** dialog box appears.

Figure 4-1 Event History Report

4. In the **Date** box, select the date for which you want to view the list of events. The following table lists the options in the **Date** box

Option	Description
<b>Today</b>	event history report for today's events.
<b>Yesterday</b>	event history report for yesterday's events.
<b>Last 7 days</b>	event history report for seven day's events.
<b>Custom Date Range</b>	event history report between a start date and end date. The <b>From</b> and <b>To</b> boxes under <b>Custom Date Range</b> are enabled when you select this option. You can select the start date in the <b>From</b> box and the end date in the <b>To</b> box.

5. From the **Site** drop-down list, select the required site.
6. In the **Device Types** box, select the check box next to the type of device for which you want to generate the event history report. You can select more than one type of device. You can select the **Select All** check box to select all the device types. Based on the selection in the **Device Type** box, the list of devices appear in the **Devices** box. For example, if you have selected **Video Inputs** in the **Device Types** box, all the camera names appear in the **Devices** box.
7. In the **Devices** box, select the device for which you want to generate the event history report. The selected devices appear in the Selected Devices box.
  - **To select a device**

Select the check box next to the device name and click . You can select more than one device. To select all the devices in the **Devices** box, click  ..
  - **To remove a device**

Select the check box next to the device name and click . You can select more than one device. To remove all the devices in the **Selected Devices** box, click .
8. In the **Events** box, select the events that you want to include in the event history report. The selected events appear in the **Selected Events** box.
  - **To select a device**

Select the check box next to the event name and click . You can select more than one event. To select all the events in the **Events** box, click .
  - **To select a device**

Select the check box next to the event name and click . You can select more than one event. To select all the events in the **Selected Events** box, click .
9. Click **Generate Report**. The event history report is generated and appears in the display area.

## Generating the Operator Log Report

### To generate the operator log report

1. Click the **Report** tab.
2. In the **Reports** window, select the **Event History Report**.
3. Click **Show Report**. The **Event History Report** dialog box appears.

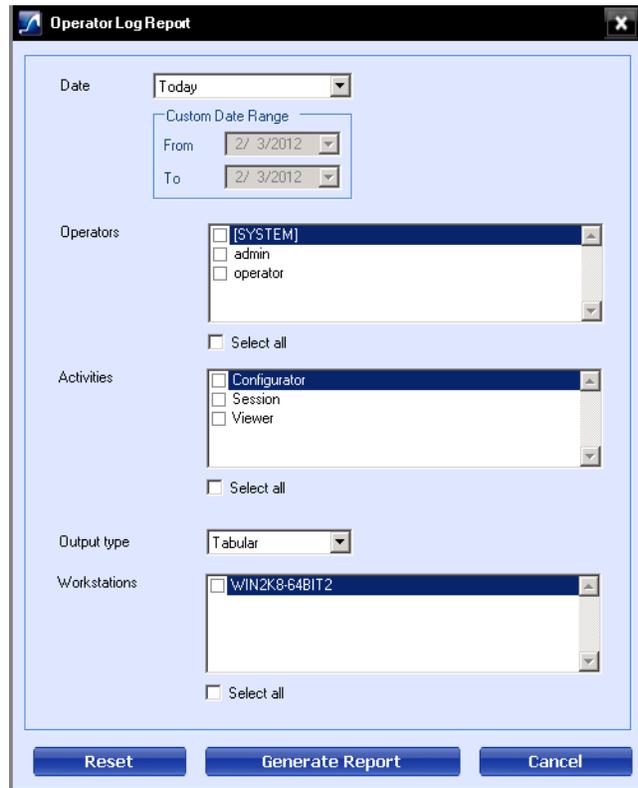


Figure 4-2 Operator Log Report

4. In the **Date** box, select the date for which you want to view the list of events. The following table lists the options in the **Date** box.

Option	Description
<b>Today</b>	operator log report for today's events.
<b>Yesterday</b>	operator log report for yesterday's events.
<b>Last 7 days</b>	operator log report for seven day's events.
<b>Custom Date Range</b>	operator log report between a start date and end date. The <b>From</b> and <b>To</b> boxes under <b>Custom Date Range</b> are enabled when you select this option. You can select the start date in the <b>From</b> box and the end date in the <b>To</b> box.

5. In the **Operators** box, select the check box next to the operators for which you want to generate the operator log report. You can select the **Select All** check box to select all the operators.
6. In the **Workstations** box, select the check box next to the client workstations used by the operators selected in the previous step. Only the activities done in the selected workstations are listed in the operator log report. You can select the **Select All** check box to select all the workstations.
7. In the **Activities** box, select the check box next to the activities which you want to view in the operator log report. You can select the **Select All** check box to select all the activities.
8. In the **Output Type** box, select the type of operator log report you want to generate. You can select **Tabular** to view the operator log report in a table or **Graphical** to view the operator log report in a graph.
9. Click **Generate Report**. The operator log report is generated and appears in the display area.

## Viewing, Printing, and Saving the Report

You can use the following options in the toolbar on top of the report.

Icon	Click to...
	save the report. By default, the report is saved in Crystal Reports (.rpt) format. You can also save the report in Adobe Acrobat PDF (.pdf), Microsoft Excel (.xls), Microsoft Excel Data Only (.xls), Microsoft Word (.doc), and Rich Text (.rtf) formats.
	print the report.
	toggle the display of report names on the left of the display area.
	view the first page.
	view the previous page.
	view the next page.
	view the last page.
	go to a page number.
	search for text in the report.
	to enlarge (zoom in) and reduce (zoom out) the report view.
	to close the current view.

# Utilities and Tools

## Verifying the Digital Certificate for Clips

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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 have 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.

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## MAXPRO VMS Agent

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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  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.

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**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.

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### To export log

1. Right-click  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.

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**Note:** The disk drive might vary depending on the installation of MAXPRO VMS.

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### To backup database

1. Right-click  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**.

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**Note:** The disk drive might vary depending on the installation of MAXPRO VMS.

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**Honeywell Video Systems (Head Office)**

2700 Blankenbaker Pkwy, Suite 150  
Louisville, KY 40299, USA  
[www.honeywellvideo.com](http://www.honeywellvideo.com)  
☎ +1.800.796.2288

**Honeywell Security Australia Pty Ltd.**

Unit 5, Riverside Centre, 24-28 River Road West  
Parramatta, NSW 2150, Australia  
[www.honeywellsecurity.com/au](http://www.honeywellsecurity.com/au)  
☎ +61.2.8837.9300

**Honeywell Security Asia Pacific**

33/F Tower A, City Center, 100 Zun Yi Road  
Shanghai 200051, China  
[www.asia.security.honeywell.com](http://www.asia.security.honeywell.com)  
☎ +86 21.2527.4568

**Honeywell Security Asia**

Flat A, 16/F, CDW Building, 388 Castle Peak Road  
Tsuen Wan, N.T., Hong Kong  
[www.asia.security.honeywell.com](http://www.asia.security.honeywell.com)  
☎ +852.2405.2323

**Honeywell Security France**

Parc Gutenberg, 8, Voie La Cardon  
91120, Palaiseau, France  
[www.honeywell.com/security/fr](http://www.honeywell.com/security/fr)  
☎ +33.01.64.53.80.40

**Honeywell Security Italia SpA**

Via Treviso 2 / 4  
31020 San Vendemiano  
Treviso, Italy  
[www.honeywell.com/security/it](http://www.honeywell.com/security/it)  
☎ +39.04.38.36.51

**Honeywell Security España**

Mijancas 1. 3<sup>a</sup> Planta  
P.Ind. Las Mercedes  
28022 Madrid, Spain  
[www.honeywell.com/security/es](http://www.honeywell.com/security/es)  
☎ +34.902. 667.800

**Honeywell Video Systems Northern Europe**

Netwerk 121  
1446 WV Purmerend, The Netherlands  
[www.honeywell.com/security/nl](http://www.honeywell.com/security/nl)  
☎ +31.299.410.200

**Honeywell Systems Group**

Aston Fields Road, Whitehouse Ind Est  
Runcorn, Cheshire, WA7 3DL, UK  
[www.honeywell.com/security/uk](http://www.honeywell.com/security/uk)  
☎ +44 (0)1928 756999

**Honeywell Security South Africa**

Unit 6 Galaxy Park, 17 Galaxy Avenue  
Linbro Park, P.O. Box 59904  
2100 Kengray, Johannesburg, South Africa  
[www.honeywell.co.za](http://www.honeywell.co.za)  
☎ +27.11.574.2500

**Honeywell Security Deutschland**

Johannes-Mauthe-Straße 14  
D-72458 Albstadt, Germany  
[www.security.honeywell.com/de](http://www.security.honeywell.com/de)  
☎ +49.74 31.8 01.0

**Honeywell Security Poland**

Chmielewskiego 22a, 70-028  
Szczecin, Polska  
[www.ultrak.pl](http://www.ultrak.pl)  
☎ +48.91.485.40.60

**Honeywell Security Czech Republic**

Havránkova 33, Brno  
Dolní Heršpice, 619 00, Czech Republic  
[www.olympo.cz](http://www.olympo.cz)  
☎ +420.543.558.111

**Honeywell Security Slovakia Republic**

Vajnorská 142, 83104 Bratislava  
Slovakia  
[www.olympo.sk](http://www.olympo.sk)  
☎ +421.2.444.54.660

# Honeywell

[www.honeywellvideo.com](http://www.honeywellvideo.com)  
[HVSsupport@honeywell.com](mailto:HVSsupport@honeywell.com)

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