VideoSphere

Intelligent Video Management

VideoSphere VMS 2.1.1 - SiteManager

User Manual

Software versions: VMS 2.1.1 - SiteManager 3.4.0

MARCH networks

Company Overview

March Networks® (TSX:MN) is a global provider of intelligent IP video solutions. For close to a decade, the company has helped some of the world's largest commercial and government organizations transition from traditional CCTV to networked video surveillance used for advanced security, loss prevention and risk mitigation. VideoSphere®, the company's enterprise-class video management portfolio, includes open-platform VMS software complemented by high-definition IP cameras, encoders, video analytics and recording platforms, as well as outstanding professional and managed services. March Networks systems are delivered through an extensive distribution and partner network and currently support over one million channels of video in more than 50 countries.
www.marchnetworks.com

Our Commitment to a Green Tomorrow

March Networks takes pride in its commitment to social responsibility and environmental sustainability. Our employees, suppliers and valued partners are passionate about designing environmentally friendly solutions for our customers and minimizing the company's carbon footprint.

We embrace environmental sustainability as part of our overall strategy and business values with multiple initiatives to ensure that we do our part to create a cleaner, healthier environment for future generations. The steps we have taken affect all aspects of our organization and involve our senior management team, employees, suppliers, partners and customers. You can receive further details at:

Company General: *http://www.marchnetworks.com/resources/default.aspx?id=81*

Product Specific: *http://www.marchnetworks.com/Files/RoHS-WEEE_Compliance_Statement_EN.pdf*

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Welcome to SiteManager

SiteManager is an advanced client used to access an unlimited numbers of cameras, servers or devices in a digital, multi-site CCTV installation. The software delivers full remote control of all networked VideoSphere IP cameras, recorders, and encoders and supports a range of intelligent video analytics available in the VideoSphere portfolio. SiteManager is completely integrated with the VideoSphere VMS functions and acts as a powerful operator interface for the software.

Understanding SiteManager

Using SiteManager an operator can:

- Manage and control networked digital systems
- Retrieve video streams archived on VMS enhanced devices
- Monitor alarms coming from a VMS server
- Manage video walls using the VideoSphere Edge Decode Station
- Create interactive maps of the monitored locations

Device Installation, Configuration, and Maintenance

Adding a VMS to SiteManager is a quick and easy operation; as a VMS server is connected and assigned to the application, it is automatically enabled and can be controlled by SiteManager.

As part of your system installation, programming, and maintenance tasks, you can:

- Locally or remotely access each VMS server and verify that the server is working properly. For example, you can view video or test an alarm.
- Customize the peripheral settings to better meet your organization's needs.
- Ensure the VMS server is functioning properly.
- Configure a series of automatic actions in response to alarms.

Multi-Site Management of Devices

SiteManager lets you manage devices at different sites from one central location. This can be accomplished in two ways:

- By directly communicating with each VMS server on the network.
- By communicating through an Enterprise Service Manager (ESM), which is in constant communication with each of the devices.

From SiteManager you can:

- Access a system-wide status of devices, both connected to a VMS or stand-alone. Alarms can also be received in real-time and acknowledged by operators performing a series of custom operations configured by the system administrator.
- View video streams coming from the VMS digital channels, arrange them in custom layouts, and send them to monitors on the network.
- Configure interactive 2D and 3D maps to provide an outstanding overview of the monitored locations.
- Retrieve archived video streams from every VMS server to the software, and perform a multiple and synchronized playback of the recorded video streams.
- Fully control PTZ cameras using the mouse or an external device, such as a keyboard or a joystick.

Understanding the Product Suite

The following table highlights the relationship between the VMS, SiteManager and the components used in a typical VideoSphere installation.

VideoSphere Product Suite

Component	Description
VMS servers, encoders, and IP cameras	
VMS	Software that runs on a server to support the recording, storage, retrieval, and management of evidence. Evidence is streamed to VMS servers by IP cameras and encoders over a network connection.
Encoders	Devices that capture and stream audio and video from connected analog cameras and peripherals to the VMS server over a network connection.
IP cameras	Cameras that stream video to the VMS server over a network connection.
Device installation, configuration, and management tools	
Web Setup	A configuration and maintenance tool that allows you to configure and maintain VideoSphere IP cameras and encoders. The Web Setup is accessed using an Internet browser, such as Microsoft® Internet Explorer®.
RemoteControl	A configuration and management tool that allows you to connect to a VMS server and configure it.
Administrator Console	A configuration and maintenance tool that lets you configure a VMS server to communicate with an ESM, and lets you centrally monitor software licenses stored on the ESM.
ESM	Enterprise Service Manager. A server application that lets you monitor and maintain VMS servers on your network, at one or more sites.
Evidence retrieval and viewing	
SiteManager	An evidence retrieval and viewing tool that allows you to quickly access live and recorded video stored on the VMS server.

Compatible Devices

SiteManager can manage the following devices:

- Any server enhanced by the VideoSphere VMS software
- A group of servers managed by an ESM
- Any VideoSphere NVR
- Any VideoSphere camera
- Any VideoSphere encoder
- Any VideoSphere decode station
- Third-party cameras compatible with the VideoSphere encoders and VMS

What does this Guide Provide?

This guide outlines the configuration, maintenance, and administration activities that administrators can perform to set up devices.

This guide is intended for all VMS installers, administrators, and operators.

This guide refers to the VMS software - version 2.1.1, and to the SiteManager software - version 3.4.0

Other Available Publications

Additional VideoSphere software publications are available in PDF format on the software CD.

Chapter 2

Installing, Uninstalling, and Starting SiteManager

This chapter describes how to install, uninstall, and start SiteManager. It also describes how to upgrade from version 3.3.0 (VMS 2.1) to version 3.4.0 (VMS 2.1.1).

Reviewing the System Requirements

Before you install SiteManager, ensure your computer meets the recommended requirements. The following table outlines the system requirements.

Note: We strongly recommend that you install both SiteManager and RemoteControl on your computer. For RemoteControl system requirements and installation instructions, see the *VideoSphere VMS 2.1.1 Configuration Guide*. We also recommend you not to install SiteManager directly on the VMS server.

System Requirements - Client Applications

Requirements	Description
Operating system (OS)	Microsoft Windows XP® or Vista®
Software	Microsoft Internet Explorer® 7 or greater, or an ActiveX® compliant browser
Processor (CPU)	Intel Pentium® 4 running at 2.8 GHz or higher
HDD space	From 50 MB to 112 MB, according to the VideoSphere client applications being installed
Network interface	Any Windows XP/Vista-compatible network interface

System Requirements - Client Applications

Requirements	Description
Video	Any Windows XP/Vista-compatible video card (64 MB minimum) capable of 24-bit color depth (true color) and compatible with Microsoft® DirectX® 8 or later
Audio	Any Windows XP/Vista-compatible sound card, speakers, and/or microphone
Input devices	Any Windows XP/Vista-compatible keyboard
	Any Windows XP/Vista-compatible mouse

Installing SiteManager

Use your March Networks CD to install SiteManager on your computer.

To install SiteManager

1   Insert your March Networks CD into the computer's CD-ROM drive.

2   Double-click the **SiteManager** icon.

3   Select the installation language and then follow the installation wizard prompts to install the application.

  During the installation, choose one of the following options:

  • **Standard.** Recommended for most users.

  • **Custom**. For advanced users. When you select this option you can choose which features will be installed on your computer.

  • **Full.** Choose this option to install all of the features on your computer. If you are planning to use an ESM to centrally monitor your VideoSphere devices, or add March Networks' 3000-4000 Series DVRs/NVRs, you must choose the **Full** option.

4   After the installation completes, you must reboot your computer. However, if you do not plan on using SiteManager immediately, you can choose to reboot your computer later.

Upgrading SiteManager

Use your March Networks CD to upgrade the SiteManager application on the clients .To upgrade from version 3.3.0 to version 3.4.0, it is not required to uninstall the previous software version and SiteManager is able to keep its previous configurations.

WARNING: We strongly recommend you backup your SiteManager configuration before upgrading from version 3.3.0 to version 3.4.0!

Note: You must apply this procedure on every client where a SiteManager - version 3.3.0 has been installed.

To Save the SiteManager Configuration File

1   Log out SiteManager by clicking **User** on the menu toolbar and selecting **Logout**.

    After a few seconds the current user is disconnected from the application.

2   Click **Tools** on the menu toolbar and select **Export configuration**.

3   SiteManager asks for a confirmation before continuing the export process. Type the administrator's password and click **Export**.

    A saving window appears.

4   Select the destination folder and click **Save**. After a few seconds the configuration is saved in a cab file.

To upgrade SiteManager

1   Insert your March Networks CD into the computer's CD-ROM drive.

2   Double-click the icon that corresponds to the SiteManager application.

3   Follow the standard installation procedure as described in "Installing SiteManager" on page 6.

Uninstalling SiteManager

If you no longer need SiteManager, you can remove it using the **Add or Remove Programs** option in your computer's control panel. For information about removing programs, see the documentation accompanying Microsoft Windows.

Starting SiteManager

To start SiteManager, click the shortcut icon that has been inserted into the *Start* menu, under *March Networks*.

When you start SiteManager, you must specify user name and password. By default, the user name is **admin** and no password is required. We strongly recommend you change the user name and password after you start SiteManager. For more information, see "Changing the Administrator Password" on page 9.

WARNING: If you attempt to log on with incorrect credentials, you are automatically locked out of the SiteManager for ten minutes after three attempts.

Chapter 3

Protecting the SiteManager Security

This chapter provides information about two very important security configurations: password changes and creating new user accounts. We recommend you perform the procedures described in this chapter the first time you run SiteManager to protect the security of your network.

Changing the Administrator Password

It is very important that you protect the security of your network by changing the SiteManager administrator password as soon as possible.

To change the administrator password

1   Click **User** on the menu toolbar and select **Change password**.

A dialog box appears.

2   Type the **New password**, and retype it in the **Confirm password** field.
3   Click **OK**.

Specifying the Number of Logon Attempts

For security purposes, you can configure SiteManager to lock a user out of the application after a specified number of unsuccessful logon attempts.

To specify the number of logon attempts

1   Click **Tools** on the menu toolbar and select **Options**.

2   On the **General** tab select the values for the **Login retry limit** and the **Lockout duration**.

     By default, users are locked out for 10 minutes after three unsuccessful logon attempts.

3   Click **OK**.

Creating New User Accounts

To further increase network security, you can create user accounts and specify the associated permissions.

To create a new user account

1   Click **User** on the menu toolbar, select **Accounts management**.

The account editor appears.

2   Click the button to create a new user account.

The **New User** dialog box appears.

3   Type the account user name and click **Ok**. You can change the user name any time clicking **Rename**.

Note: The **Full name** field is not mandatory.

4   Click **Reset password** to specify or change the password for the account.

Note: After creating the account, no password is specified by default.

A dialog box appears. Type the **New password**, retype it in the **Confirm password** field, and click **Ok**.

5   Select the **User cannot change password** check box to prevent users from changing the password for their accounts.

6   You can also configure an automatic disconnection of the account after a specified time period, by selecting the **Interactive timeout** check box and specifying the time period (in minutes).

Tip: You can also deactivate an account without deleting it by clearing the **Enabled** check box.

7   Click the **Privileges** tab to configure the account's permissions by selecting the permission check boxes.

Note: Click the **Permission** presets button to select one of the pre-configured permission levels. The following table provides descriptions of the permission levels.

Permission Levels

Account Type	Permission Level
User	The operator can access VMS servers and resources, but cannot add or edit them.
Power user	The operator can use every feature of the program, but cannot create or configure user accounts.
All	The operator has no restrictions in using, adding, or editing resources. The operator has no restrictions in creating new user accounts.
None	The operator's permissions are manually set by selecting the permissions check boxes.

8   You can also copy a permission set from another user account.
    Click the **Permission** presets button, point to **Same as**, and select the user account.

9   Click **OK** to confirm the account creation.

Chapter 4

Saving the SiteManager Settings

SiteManager automatically saves its configuration settings when you close the application. The saved configuration settings include servers you have added or edited, maps, views, and resource sequences you have created, and additional SiteManager actions you have performed.

If you plan to keep SiteManager running for a long time and do not want to lose your configuration settings, you can save them.

You can also save your configuration settings in a shared folder to automatically synchronize all the SiteManager applications installed over the network.

Saving the SiteManager Configuration Settings

You can instantly save the SiteManager configuration settings with a simple procedure. This operation is useful if you plan to run SiteManager for a long time.

To save the SiteManager configuration settings

- On the **User** menu, click **Save configuration now**.

  The SiteManager configuration settings are saved. When you close and reopen the application, the application uses your saved settings.

Sharing the SiteManager Configuration Settings

You can also share the SiteManager configuration settings with the other SiteManager applications installed on clients over the network. This operation is useful when you want to automatically synchronize the configuration changes on the applications without applying them on the single clients.

To share the SiteManager configuration settings

1   Click **Tools** on the menu toolbar and select **Options**.

2   Click the **Configuration** tab.

3   Click **Shared folder** under *User account data*, and type the folder's path (for example \\sharedfolder\userconfig\) or browse to the folder's location by clicking the ⸱⸱⸱ button. The user accounts' settings are now shared over the network.

4   Click **Shared folder** under *Site configuration data*, and type the folder's path (for example \\sharedfolder\SiteManagerconfig\) or browse to the folder's location by clicking the ⸱⸱⸱ button. The user accounts settings are now shared over the network.

5   Click **Ok** to save and apply changes.

6   Repeat steps 1-5 for every SiteManager installation you want to synchronize.

Chapter 5

Exploring the SiteManager

This chapter describes the key components used to navigate through SiteManager, and highlights tools you can use to customize your system's performance and appearance.

Shortcut
Toolbar

Configuration
Tabs

Resource
Window

Virtual
Desktop

Menu

Graphical
Interface

Monitors/
Playback
Panel

Log
Actions
Tab

Alarms,
Video Export, and
Server Alert Tabs

SiteManager Interface

Component	Function
Shortcut toolbar	Manage windows by arranging them in the virtual desktop, bringing a particular resource to the front of the virtual desktop, or adding resources to the SiteManager. For more information about the shortcut toolbar, see "Adjusting the Virtual Desktop While Viewing Video Windows" on page 116.
Configuration tabs	Select the resource/server to display in the graphical interface. The tabs are drag-and-drop compliant. In addition, a quick search box on each tab allows you to quickly locate items.
Resource window	View video and control resources connected to the device, such as PTZ cameras and alarms.
Virtual desktop	Arrange resource windows and view custom layouts. You can drag items from the configuration tabs into the virtual desktop, allowing you to quickly view video and adjust resources.

SiteManager Interface

Component	Function
Menu	Access commands to manage resources.
Monitors/Playback panel	Move resources to a monitor by dragging them into the panel. You can hide the panel by clicking **Windows** on the menu toolbar and unflagging the **Show Monitors Panel** check box.
Graphical interface	View a list of servers, groups, views, events, monitors, events, maps, and sequences. Expand the tree menus within the graphical interface to see a list of resources, such as cameras, alarms, and audio channels.
Log actions tab	Review a history of actions performed with the SiteManager since you started the program. For more information, see "Viewing the System Log" on page 154. You can hide the interface by clicking **Windows** on the menu toolbar and unflagging **Show log Window**.
Alarms tab	Acknowledge alarms.
Video Export tab	Determine which video has been exported from a VMS server to the computer and the progress of the export process. For more information, see "Saving Video Clips" on page 136.
Server alert tab	Check the status of a VMS server by viewing the **Status check** results. For more information, see "Editing the VMS Server" on page 32.

Chapter 6

Viewing the Status of Resources

You can view the status of resources connected to the device, such as cameras and alarms. Each resource type has a different icon that changes color according to the resource status.

Icons and Resources Status

Icon	Resource/Status
	Camera connected and online.
	Dome camera connected and online.
	No camera connected on the specified channel.
	Camera online, but SiteManager is not connected to the VMS server.
	Alarm configured, but not enabled or triggered.
	Alarm triggered.
	Aux, Audio, or Talk channel connected and online.
	Aux, Audio, or Talk channel disconnected or offline.

Chapter 7

Adding VMS Servers to SiteManager

This chapter provides information about adding and managing a VMS server using SiteManager. After installing SiteManager and performing security tasks, you can add your VMS to the server list. You must add your VMS to the server list before you can manage it using SiteManager.

Adding a VMS Server

Before you can configure a VMS server and access video, you must first add the VMS server to SiteManager.

Tip: You can add every VideoSphere device as a server, not only the VMS server. Adding a device as a server allows you to access the device's VisionWeb interface or to create panoramic views. For more information, see "Adding a Panoramic View" on page 57 and "SiteManager as a Portal" on page 141.

To add a VMS server

1   Click the **Servers** tab.

2   Right-click to open the **New server** menu. (The same menu can be accessed by clicking **Server** on the menu toolbar).

3   Select **New server**.

    The **Edit server** menu appears.

4   Configure the **General** options.

Tip: It is not required to configure the server options found on the other tabs of the **Edit server** menu to start viewing live and recorded video. For more information about the advanced server options, see "Editing the VMS Server" on page 32.

Note: If you installed the VMS and SiteManager on the same machine, the system automatically recognizes the VMS and a dialog box appears. Click **Ok** to open the Edit server menu. Review the options (the VMS IP address is localhost), and click **Ok** to add the VMS server to SiteManager. Please note that, with this configuration, SiteManager is not able to send video to a network monitor, such as a VideoSphere Edge Decode Station. To enable the functionality, you must change the VMS IP address from *localhost* to the actual IP address of the server.

5   Type a custom **Name** for the VMS server.

6   Click **Network** if the VMS server is connected to the same Local Area Network (LAN) as the computer running SiteManager, or click **Remote Access** if the computer running SiteManager is connected remotely to the VMS server.

7   Depending on the access type you selected, perform one of the following tasks:
   • **Network.** Type the VMS server's IP **Address**.
   • **Remote Access.** Select an available **Connection** from the list or configure a new connection by clicking **New**.

8   Type the **Username** and **Password** that are used to log on to the VMS server. If the SiteManager user name and password are the same as the VMS server's user name and password, select the **Login to server with current user credentials** check box.

9   Select **VideoSphere VMS 2.1** in the **Type** list.

WARNING: Do <u>NOT</u> select **VideoSphere VMS/NVR:** this option is for earlier VMS releases.

10 Click **OK** to add the VMS server to SiteManager.

Adding a Camera/Encoder as a Server

You can add every VideoSphere device as a server, not only the VMS server. Adding a device as a server allows you to access the device using the device's VisionWeb interface (for more information see "SiteManager as a Portal" on page 141). This operation is also necessary to create panoramic views (for more information see "Adding a Panoramic View" on page 57).

To add an edge device as a server

1   Click the **Servers** tab.

2   Right-click to open the **New server** menu. (The same menu can be accessed by clicking **Server** on the menu toolbar).

3   Select **New server**.

   The Edit server menu appears.

4   Configure the **General** options.

Tip: It is not required to configure the server options found on the other tabs of the **Edit server** menu to start viewing live and recorded video. For more information about the advanced server options, see "Editing the VMS Server" on page 32.

5   Type a custom **Name** for the device.

6   Click **Network** if the device is connected to the same Local Area Network (LAN) as the computer running SiteManager, or click **Remote Access** if the computer running SiteManager is connected remotely to the device.

7   Depending on the access type you selected, perform one of the following tasks:

   • **Network.** Type the device's IP **Address**.

   • **Remote Access.** Select an available **Connection** from the list or configure a new connection by clicking **New**.

8   Type the **Username** and **Password** that are used to log on to the device's Web Setup. If the SiteManager user name and password are the same as the devices's user name and password, select the **Login to server with current user credentials** check box.

9   Select **VideoSphere Edge Devices** in the **Type** list.

10 Click **OK** to add the device to SiteManager as a server.

Tip: You can also add an edge device as a server using SiteManager's integrated browser (see "Adding a VMS Server Using SiteManager's Integrated Browser" on page 27).

Adding a 3000-4000 Series DVR/NVR as a Server

You can also add March Networks' 3000-4000 series DVRs/NVRs using SiteManager.

Note: This feature is available only if the **Full** option has been selected during the SiteManager installation. For more information, see "Installing SiteManager" on page 6.

To add a 3000-4000 Series DVR/NVR as a server

1   Click the **Servers** tab.

2   Right-click to open the **New server** menu. (The same menu can be accessed by clicking **Server** on the menu toolbar).

3   Select **New Release 5 recorder**.

The **R5 Server** menu appears.

4   Type a custom **Name** for the recorder.
5   Type the recorder's IP **Address**.
6   Type the **Username** and **Password** that are used to log on to the recorder's Web Setup.
7   Click **OK** to add the recorder to SiteManager as a server.

Adding a VMS Server Using SiteManager's Integrated Browser

The browser is an integrated tool that allows you to search the network for VideoSphere products (cameras, encoders, Spectiva and Linearis DVRs/NVRs and VMS servers), and add them to the SiteManager. This integrated browser is a light version of the VideoSphere Browser (*Find my device*) search engine that is included in the VideoSphere software suite.

To add a VMS server using SiteManager's integrated browser

1   Click **Tools** on the menu toolbar and select **Browser**.

The integrated browser appears.

2   You can filter the search by typing text in the search box and selecting the device model (right-click to select or clear all of the models). Optionally, you can select **Invert** to search for all of the devices that do NOT match the keywords or the filter.

3   Click the [icon] button to start the search.

The search results appear.

4   Click the column headings to sort the results by **Name**, **Model**, **MAC**, or **IP address**.

If required, you can click the [icon] button to refresh the search results.

5   Right-click the column headings to display additional information about the resources. Flag the information you want to display in the browser.

6   Select a VMS server and right-click it to open the option menu.

7   Select **Add** to add the VMS server to SiteManager as a server, or select the other options to manage the resource. The following table provides descriptions of the available options.

Resource Management Options

Option	Description
Identify	Select **Identify** to physically identify a device. On VideoSphere cameras and Edge encoders, the Light Emitting Diodes (LEDs) flash. On Edge Decode Stations, red and green icons appear on the screen.

Resource Management Options

Option	Description
Details	Select **Details** to view further information about the resource. Some of the network parameters, such as name, IP address, subnet mask, gateway, and DNS can be edited from this menu. Apply the changes by clicking **Send Configuration**. **Note:** The changes are only applied when the login keys are correct.
Add	Select **Add** to add the VMS/device to SiteManager using the configuration menu. For more information, see "Adding a VMS Server" on page 23. **Note**: If you are working with a VideoSphere Edge 1 (in decoding mode) or VideoSphere Decode Station and you select **Add**, you are asked if you want to add the resource as a server or as a monitor.
Setup	Select **Setup** to open RemoteControl (VMS) or the Web Setup interface (edge devices).
Send configuration	Select **Send configuration** to apply a saved configuration to the VMS/device.
Get configuration	Select **Get configuration** to connect to a device to download its configuration file. You must log on to the device before you can download the configuration file. **Note**: This option is unavailable when you are working with a VMS server.
Upgrade	Select **Upgrade** to start a software update (if available) for a device. **Note**: This option is unavailable when you are working with a VMS server.

Adding a Group of VMS Servers that are Managed by an ESM

You can add a group of VMS servers that are managed by an ESM to the SiteManager. This feature allows you to add a number of servers to SiteManager without configuring each of them. The servers are also grouped together in the SiteManager interface.

To add a group of VMS servers that are managed by an ESM

1   Click the **Servers** tab.
2   Right-click to open the **New server** menu. (The same menu can be accessed by clicking **Server** on the menu toolbar).

3 Select **New Release 5 ESM**.

The **R5 ESM** menu appears.

4 Configure the options and click **OK** to add a new Release 5 ESM group of servers. The following table provides descriptions of the available options.

Adding a Group of VMS Servers that are Managed by An ESM

Option	Description
Name	Type a custom **Name** for the ESM. This name will appear in SiteManager to identify the ESM.
Address	Type the IP **Address** of the ESM.
User	Type the user name that is used to log on the ESM.
Password	Type the password that is used to log on the ESM.

5 Click **OK**.

Importing a VMS Server

If another user has already configured a VMS server (or a device added as a server) using SiteManager, you can import the VMS server into SiteManager on your computer.

To import a VMS server

1 Click the **Servers** tab.

2   Right-click to open the **New server** menu. (The same menu can be accessed by clicking **Server** on the menu toolbar).

3   Select **Import server**.

A Load window appears.

4   Locate the configuration file (.dat format) on the computer and click **Open** to import the VMS server into SiteManager.

Editing the VMS Server

After you add a VMS server to SiteManager, it appears on the graphical interface.

To edit a VMS server

1   Double-click the VMS server on the graphical interface to connect SiteManager to the VMS server. If the connection is successful the word **connected** appears next to the server name.

2   Double-click the resource type to expand the tree menu, where the available resources are listed. The following table provides descriptions of the resources.

3   Expand each tree menu to view the resources connected to the VMS server.

VMS Server Resources

Resource	Actions
Cameras	Expand the **Cameras** tree menu to view the cameras connected to the VMS server, in addition to the camera type. Double-click a camera icon to open the camera in the virtual desktop. Right-click a camera, or click **Resource** on the menu toolbar, to **Show**, **Disconnect**, or **Edit** the camera. Or, **Send** video from the camera to a monitor. You can also open the camera's Web setup page (**Edge device setup**), or open the camera's menu on RemoteControl (**VMS setup**).
Auxes	Expand the **Auxes** tree menu to specify how many auxiliary devices are connected to the VMS server, and the type of auxiliary devices that are connected. Right-click an auxiliary device, or click **Resource** on the menu toolbar, to **Turn on/off**, **Disconnect**, or **Edit** the device. When you edit the device you can modify the unique ID and name of the device.

VMS Server Resources

Resource	Actions
Alarms	Expand the **Alarms** tree menu to view the alarms connected to the VMS server. In addition, you can view which alarms are enabled (represented by a gray icon) and which alarms are currently triggered (represented by a red icon).
	Right-click an alarm, or click **Resource** on the menu toolbar, to **Turn on/off**, **Monitor**, **Disconnect**, or **Edit** the alarm. When you edit the alarm you can modify the unique ID and name of the alarm.
	The **Monitored** option should be flagged when there is no alarm central server in the system or when the alarm central is not able to process the alarm. The alarm central is a computer on the network configured to process, manage, and send alarms to the other clients using the VideoSphere AlarmManager background application.
	Note: Some devices, like the VideoSphere Edge 4 encoder, the VideoSphere MegaPX 720p/1080p integrated motion detector, and the 3000-4000 Series DVRs/NVRs, are not currently compatible with the AlarmManager application. With alarms generated by these devices you <u>must</u> flag the **Monitored** option if you want to configure events or acknowledge procedures.
Audio channels	Expand the **Audio channels** tree menu to specify how many input audio channels are currently open on the VMS server.
	Right-click an audio channel, or click **Resource** on the menu toolbar, to **Mute/Unmute** the channel and to set the **Volume**.
Talk channels	Expand the **Talk channels** tree menu to specify how many output talk channels are currently open on the VMS server.
	Right-click a talk channel, or click **Resource** on the menu toolbar, to set the **Volume**. If enabled, the talk channel is active, even when the server or camera is not currently open in the virtual desktop.

4   Right-click the VMS server to manage and edit the server using the option menu. The following
     table provides descriptions of the available options.

Editing a Server

Option	Description
New server	Select **New server** to add and configure a new VMS server. For more information see "Adding a VMS Server" on page 23.
New Release 5 recorder	Select **New Release 5 recorder** to add and configure a server managed by an ESM.
New Release 5 ESM	Select **New Release 5 ESM** to add and configure a group of servers managed an ESM. For more information, see "Adding a Group of VMS Servers that are Managed by an ESM" on page 30.
Delete server	Select **Delete server** to delete the VMS server from SiteManager. The program asks for a confirmation before deleting the server.
Edit server	Select **Edit server** to modify the VMS server network options and access the advanced options.
Connect	Select **Connect** (or double-click the VMS server) to connect SiteManager to the VMS server.
Disconnect	Select **Disconnect** to disconnect SiteManager from the VMS server.
Disconnect all	Select **Disconnect all** to disconnect SiteManager from every server.
Setup server	Select **Setup server** to open the RemoteControl setup menu. **Note**: If the server is a VideoSphere camera or encoder, this option opens the device's Web setup page in SiteManager instead of RemoteControl.
Full interface	Select **Full interface** to open the RemoteControl main page. **Note**: If the server is a VideoSphere camera or encoder, this option opens the device's VisionWeb client in SiteManager instead of RemoteControl.

Editing a Server

Option	Description
Quality	Select **Quality** to edit the video resolution of all cameras added to a server. Higher video quality requires more bandwidth. **Note**: Option unavailable for VMS servers.
Autoconnect	Select **Autoconnect** to allow SiteManager to automatically connect to a server at startup. **Note**: This option is unavailable when you are working with a VMS server.
Keep connected	Select **Keep connected** to allow SiteManager to automatically attempt a new connection to the VMS server after a disconnection.
Autodisplay	Select **Autodisplay** to allow SiteManager to automatically open all of a server's cameras in the virtual desktop after a successful connection. **Note**: Option unavailable for VMS servers.
Export Server	Select **Export server** to save the VMS server configuration in a dat file which other SiteManager users can import. After selecting this option, a Save window appears.
Import server	Select **Import server** to import a VMS server configuration from a dat file. After selecting this option, a Load window appears. For more information, see "Importing a VMS Server" on page 31.

5   Select **Edit server**.

A menu appears.

6 Click the **Alarms** tab to allow SiteManager to receive alarms from an alarm central server using the VideoSphere AlarmManager software. You can configure the network interfaces that automatically connect to the server in case of an alarm, and set their priority. The following table provides descriptions of the available options.

Note: The AlarmManager configurations affect the **Events** feature and the alarm acknowledgement process. VideoSphere AlarmManager is part of the VideoSphere software suite and is automatically installed alongside SiteManager.

Alarm Management Options

Option	Description
Receive alarms from AlarmManager	Select the **Receive alarms from AlarmManager** check box to allow SiteManager to receive alarms from an alarm central server through the AlarmManager software.
Connect on alarm	Select the **Connect on alarm** check box to enable the VMS server to connect to a network interface card when an alarm is triggered. You can set six different network interfaces; the connection priority is listed from highest priority to lowest.
Silence alarms in this time interval	Select the **Silence alarms in this time interval** check box to configure a time interval where SiteManager will not be notified of alarms. Select the start (**From**) and ending (**To**) time and dates. **Note**: This option is also available for 3000-4000 Series DVRs/NVRs.

7 Click the **Status check** tab to configure a periodic VMS status check. The results appear on the **Server alert** tab in the **Log** window. The following table provides a description of the available options.

Table 7-1 Status Check Options

Option	Description
Check server status periodically	Select the **Check server status periodically** check box to enable the server status check.
Check every	Select the frequency of status checks, in minutes or hours.
Check for connection	Select the **Check for connection** check box to enable the VMS server connection check.
Check for disconnected cameras	Select the **Check for disconnected cameras** check box to enable the camera (or channel) status check.
Check for active alarms	Select the **Check for active alarms** check box to enable the VMS server alarm status check.

8   Click the **Advanced connection settings** tab to configure the quality and the resolution of the resources added to the VMS server without opening the RemoteControl interface. The following table provides descriptions of the available options.

Table 7-2   Quality and Resolution Options

Option	Description
Use custom image quality for dome	Check **Use custom image quality for dome** (if applicable) to edit the **Resolution** and **Quality** of PTZ camera images.
Encoder Constraint	Select the maximum resolution allowed.
Custom connection	Check **Custom connection** to edit the camera connection quality. Lower video quality requires less bandwidth.

9   Click the **Proxy options** tab to configure a proxy server. The following table provides a description of the available options.

WARNING: Consult your network administrator before configuring a proxy server. An incorrect proxy server setting can result in connection problems for SiteManager and the VMS server.

Proxy Server Options

Option	Action
Proxy type	Select the **Proxy Type**.
Host	Type the proxy server IP Address.
Port	Type the proxy server **Port**.
User	Type the login username.
Password	Type the login **Password**.

Editing a Group of VMS Servers that are Managed by an ESM

After you add a group of VMS servers managed by an ESM to SiteManager, the group appears within the graphical interface.

To edit a group of VMS servers that are managed by an ESM

1   Double-click the group to establish a connection between SiteManager and the group.

    If the connection is successful, **connected** appears next to the group name.

2   Double-click again to expand the tree menu where the available VMS servers are listed.

3   Right-click a VMS server to manage and edit the server using the option menu.

Note: When you access a group of VMS servers, the list of available options is shorter than the list that appears when accessing a VMS server that was added to the SiteManager.

Chapter 8

Adding and Editing Monitors

This chapter provides information about adding and managing a network monitor using SiteManager. With SiteManager you can easily manage a control room equipped with VideoSphere Edge Decode Stations and send video streams across the network to configured monitors. Network monitors can include VGA monitors, VideoSphere Edge Decode Stations, or VideoSphere Edge 1 encoders configured to use decoding mode for analog displays.

Adding a Monitor

You must add a monitor to SiteManager before you can configure it to stream video.

Note: By default, the client monitor appears as Monitor 1 in SiteManager. SiteManager refers to it as VGA Monitor.

To add a monitor

1   Click the **Monitors** tab.
2   Right-click to open the **New monitor** menu. (The same menu can be accessed by clicking **Monitor** on the menu toolbar).

3   Select **New monitor**.

A configuration window appears.

4   Select a **Unique ID** and type a custom **Name** for the monitor.

Tip: The unique ID allows you to recall the monitor with an external keyboard.

5   Type the **IP Address** of the monitor and select the **Type** of VideoSphere decoding unit.

6   For a Decode Station, you must also specify whether this monitor will be a primary or secondary monitor.

Note: VideoSphere Edge Decode Station supports two monitors at the same time, and is able to display different resources on them. Fmore more information, see the *VideoSphere Edge Decode Station User Manual*.

7   Click **OK**.

Editing a Monitor

After you add a monitor to SiteManager, its name appears on the left graphical interface.

To edit a monitor

1   Double-click the monitor to expand the tree menu where the resources currently being displayed on the monitor are listed.

2   Right- click the monitor to manage and edit it using the option menu. The following table provides descriptions of the options.

Note: The number of available options is monitor dependent.

Editing a Monitor

Option	Description
New monitor	Select **New monitor** to add and configure a new monitor. For more information, see "Adding a Monitor" on page 41.
New monitor group	Select **New monitor group** to add and configure a monitor group. For more information, see "Creating and Managing Monitor Groups" on page 45.
Delete monitor (Edge 1/DS)	Select **Delete monitor** to delete the monitor from SiteManager. The program asks for a confirmation before deleting the monitor.
Edit monitor	Select **Edit monitor** to modify the monitor options.
Connect (Edge 1/DS)	Select **Connect** to establish a connection between SiteManager and the monitor.
Disconnect (Edge 1/DS)	Select **Disconnect** to disconnect SiteManager from the monitor.
Restart (DS)	Select **Restart** to reboot the Edge Decode Station.
Setup Monitor (Edge 1)	Select **Setup Monitor** to open the Web Setup page of a VideoSphere Edge 1 encoder.
Autoconnect (Edge 1)	Select **Autoconnect** to allow SiteManager to automatically connect to a VideoSphere Edge 1 encoder at startup.
Blank (VGA)	Select **Blank** to show the resource in SiteManager in full screen mode. While in full screen mode, right-click the video stream and select **Close/Blank** to return to the SiteManager interface.
Autodisplay (VGA)	Select **Autodisplay** to allow SiteManager to automatically show the resource on the SiteManager client monitor in full screen mode.

3   Use the monitor panel to control the monitors by clicking the icons. The following table provides descriptions of the options you can configure.

Monitor Panel Option

Icon	Action
Monitors	Select **All** to show a list of monitors or select a **Monitor group**. For more information, see "Creating and Managing Monitor Groups" on page 45.
▢	**Blank** (show the resource in SiteManager in full screen mode) the client monitor with the selected resource (VGA monitor only).
▯ ▾	Select the **Playback** sector.
((o))	Activate/deactivate the **Audio channel** on the monitor.
⌀	**Connect** SiteManager to the monitor.
⌀⌀	**Disconnect** SiteManager from the monitor.
enc ▾	Select the video stream resolution.

4   You can control the playback of archived video evidence using the playback toolbar. For information about reviewing video evidence recorded on a VMS server, see "Playing Recorded Video" on page 132.

Sending Resources to Monitors

You can send SiteManager resources, such as cameras, views, maps, and Web pages, to a monitor. This allows you to remotely control every configured monitor on the network.

WARNING: VideoSphere Edge 1 devices are able to decode only one video stream.

To send resources to a monitor

1   In the graphical interface, select the resource you want to send to the monitor.

2   Select the network monitor in the monitor panel.

3   Drag the resource from the graphical interface and drop it into the monitor panel.

Tip: You can also send a resource to a monitor by right-clicking the resource in the graphical interface, pointing to **Send to monitor**, and selecting an available network monitor.

Creating and Managing Monitor Groups

You can group monitors in SiteManager, allowing you to easily manage multiple monitors using the monitor panel. This operation is useful to control a large number of monitors (for example different control rooms in the network) at the same time.

To create a monitor group

1   Click the **Monitors** tab.

2   Right-click to open the **New monitor** menu. (The same menu can be accessed by clicking **Monitor** on the menu toolbar).

3   Select **New monitor group**.

4   Type a custom name for the monitor.

5   Click **OK** to create the monitor group.

The monitor group name appears on the graphical interface.

6   Double-click the monitor group to show the monitors included in the monitor group.

7   In the graphical interface, drag monitors into the monitor group.

8   To manage a monitor group using the monitor interface, click the **Monitors** tab and select the monitor group from the drop down list. You can now manage each monitor within the monitor group using the drag-and-drop capabilities.

Chapter 9

Creating and Editing Views

This chapter provides information about creating and managing views in SiteManager. It also provides information about creating and managing panoramic views by merging two or more live streams. After adding VMS servers, cameras, or encoders to SiteManager, you can arrange their video streams in views to more easily control your surveillance site. A view is a custom layout of cameras streams connected to a server.

Adding a View

Before customizing a layout, you need to add a view to SiteManager.

To add a view

1   Click the **Views** tab.
2   Right-click to open the **New View** menu. (The same menu can be accessed by clicking **View** on the menu toolbar).

3   Select **New view**.

A configuration window appears.

4   Select a **Unique ID** and type a custom **Name** for the view.

Tip: The unique ID enables you to recall the resource with the remote control or an external keyboard.

5   Click **OK**.

Editing a View and Configuring Different Layouts

After you add a view to SiteManager, its name appears on the graphical interface.

To edit a view

1   Double-click the view to expand the tree menu, where the resources added to the view are listed.

2   Right-click the view to manage and edit the view using the option menu. The following table provides descriptions of the options.

Editing a View

Option	Description
New view	Select **New view** to add and configure a new view.
New panorama	Select **New panorama** to create a panoramic view. For more information, see "Adding a Panoramic View" on page 57.
Delete	Select **Delete** to delete the view from SiteManager. The program asks for a confirmation before deleting the view.
Edit	Select **Edit** to modify the unique ID and name of the view.
Show/Hide	Select **Show/Hide** to open or close the view in the virtual desktop.
Connect	Select **Connect** to connect SiteManager to the resources within the view.
Disconnect	Select **Disconnect** to disconnect SiteManager from the resources within the view.
Edit layouts	Select **Edit layouts** to open a new window where you can create layouts using the drag-and-drop interface. For more information, see "Creating a Custom Layout" on page 52.
Layout	Select one of the configured **Layouts**. The layout scheme appears next to the layout name.
Full screen	Select **Full screen** to see the view on your computer in full screen mode.
Quality	Select **Quality** to edit the video resolution of the resources. Higher video quality requires more bandwidth.
Autoconnect	Select **Autoconnect** to allow SiteManager to automatically connect to the resources within the view each time SiteManager starts.

Editing a View

Option	Description
Autodisplay	Select **Autodisplay** to allow SiteManager to automatically open the view and its resources when a connection is established with the servers. **Note**: This option is unavailable when you are working with a VMS server.
Move top left	Select **Move top left** to move the view window in the upper-left corner of the virtual desktop.
Send to monitor	Select **Send to monitor** to send the view to a monitor or VideoSphere Edge Decode Station.
Lock window	Flag **Lock window** to lock the position and dimensions of the view window in the virtual desktop.

Creating a Custom Layout

You can customize layouts with different frame sizes; you can display up to 64 video streams at the same time and display the view on the client monitor, or send it to a VideoSphere Edge Decode Station. The layouts are created using the integrated editor.

To create a custom layout

1   Right-click the **View** and select **Edit layout**.

The **Layout editor** appears.

The left side of the editor is an 8x8 grid (64 moveable frames), and options appear on the right side. The following table provides descriptions of the options.

Layout Editor

Button	Action
Layout #	Select the **Layout** to be edited.
New	Click **New** to create a layout.
Delete	Click **Delete** to delete a layout.
Rename	Click **Rename** to type a new name for the layout.
New 1x1	Click **New 1x1** to create a frame that takes up one square in the layout.
New 2x2	Click **New 2x2** to create a frame that takes up four squares in the layout.
New 3x3	Click **New 3x3** to create a frame that takes up nine squares in the layout.
New 4x4	Click **New 4x4** to create a frame that takes up 16 squares in the layout.
Delete (Frame)	Click **Delete (Frame)** to delete the selected frame from the layout.
Done	Click **Done** to save the layout and close the editor.

2   Click **New** to create a layout.

3   Click the **Frame** buttons to make the selected frame appear in the first upper left available place in the grid.

Tip: Alternatively, you can create frames by right-clicking anywhere within the Layout editor and dragging to resize the frame.

4   You can move frames as required by dragging them to new locations within the layout.

5   Add and move the other frames to create the layout. Click a frame to select it (the frame changes color) and then move or delete it.

Click **Done** to save the layout.

Adding Resources to a Layout or View

You can assign the layout to one of the views and add resources to the layout.

To add resources to the layout or view

1   Right-click the **View**, point to **Layout**, and select the layout.

A visual representation of the layout appears next to the layout name.

2   Drag the view from the graphical interface and drop it into the virtual desktop to open the layout.

Tip: The same action can be performed by right-clicking the view and selecting **Show**.

3   Drag resources from the graphical interface and drop them into the layout.

Sending a View to a Monitor

You can send a view to a configured monitor.

WARNING: VideoSphere Edge 1 devices can only decode one video stream at the time, so layouts with more than one frame cannot be sent to an Edge 1 monitor.

To send a view to a monitor

1   In the graphical interface, select the view you want to send to the monitor.

2   Select a monitor in the monitor panel.

3   Drag the view from the graphical interface and drop it into the monitor panel.

Tip: You can also send a view to a monitor by right-clicking it in the graphical interface, pointing to **Send to monitor**, and selecting an available network monitor.

Adding a Panoramic View

Note: You can add a panoramic view by merging two or more live streams to form a comprehensive view.

You can't create a panoramic view with video streams coming from a VMS server. However, you can still directly add the cameras/encoders to SiteManager as servers to use this feature (for more information see "Adding a Camera/Encoder as a Server" on page 25).

To add a panoramic view

1   Click the **Views** tab.

2   Right-click to open the **New view** menu. (The same menu can be accessed by clicking **Views** on the menu toolbar).

3   Select **New Panorama**.

A configuration window appears.

4   Select a **Unique ID** and type a custom **Name** for the panoramic view.

Tip: The unique ID enables you to recall the resource with the remote control or an external keyboard.

5   Click **OK**.

Creating a Panoramic View

You can merge video streams in a panoramic view using the integrated graphical editor. The editor allows you to stretch, move, and resize the video streams. The panoramic view editor operates in two different modes:

• **View Mode.** Allows you to control the panoramic view.

• **Edit Mode.** Allows you to edit video streams.

Edit Mode   Audio channels behavior   Panoramic view

Panoramic view

Cameras list

Toolbar

To create a panoramic view

1   After adding the panoramic view, drag it from the graphical interface and drop it into the
     virtual desktop to open the graphical editor.

Tip: The same action can be performed by right-clicking the view and selecting **Show**.

     The graphical editor appears in the virtual desktop.

2   Click the ⊞ button to toggle the **Edit Mode** on the graphical editor.

3   Drag the video streams from the graphical interface and drop them into the panoramic view canvas.

Note: When you first drag a video stream into the graphical editor, it overlays any existing video streams.

4   Edit the video streams using the toolbar at the bottom of the graphical editor.
     The following table provides descriptions of the toolbar buttons.

Panoramic Views Toolbar

Button	Action
	Return to View mode.
	Edit the image points, to define the shape and boundaries of the image.
	Modify the position and size of the image.
	Send the current image to the background.
	Send the current image backward.
	Bring the current image forward.
	Bring the current image to the foreground.
	Move all of the panoramic views.

Panoramic Views Toolbar

Button	Action
	Resize the canvas. The canvas is the maximum expansion area for the panoramic view.
	Open or close the camera list.

5   Click the button.

Red squares appear on the corners of the image. Hold the *left* button down on a corner and move the mouse to change the image shape.

6   Click the button.

Yellow squares appear at the edges of the image. Hold the *left* button down in the middle of the image to change its position.

7   Click the button again.

Yellow squares appear at the edges of the image. Hold the *left* button down on a yellow square and move the mouse to resize the image.

Tip: Hold the *SHIFT* key while resizing the image to keep its aspect ratio.

8   Click the ⟨⟩ button.

A navigation pad appears. Click the arrows to move the panoramic view.

9   Click the 🔲 button.

A window appears. Select the new width and height of the canvas to resize it. and click **Apply**.

Sending a Panoramic View to a Monitor

You can send a panoramic view to a configured monitor. This allows you to display a panoramic view on any configured monitor on the network.

WARNING: You cannot send a panoramic view to a VideoSphere Edge 1 decoder.

To send a panoramic view to a monitor

1   In the graphical interface, select the panoramic view you want to send to the monitor.

2   Select a monitor in the monitor panel.

3   Drag the panoramic view from the graphical interface and drop it into the monitor panel.

Tip: You can also send a panoramic view to a monitor by right-clicking it in the graphical interface, pointing to **Send to monitor**, and selecting an available network monitor.

Chapter 10

Adding and Editing Maps

This chapter provides information about creating and managing interactive maps using SiteManager. You can customize two-dimensional (2D) floor plans or three-dimensional (3D) representations of a site by placing resources on it: in this way you can interact in a quick and intuitive way with all of the resources in your surveillance site, and you can instantly monitor the location of every camera added to the VMS server.

Adding a 2D Map

You can import an image representing the map of the surveilled site in SiteManager. The application is also compatible with the most used image formats.

Note: This procedure requires that you import a 2D map into SiteManager. If you do not yet have a 2D map of the site, you must either create it or obtain it from the site representative.

To add a 2D map

1   Click the **Maps** tab.

2   Right-click to open the **New map** menu. (The same menu can be accessed by clicking **Maps** on the menu toolbar).

3   Select **New map**.

A configuration window appears.

4   Select a **Unique ID** and type a custom **Name** for the map.

Tip: The unique ID enables you to recall the resource with the remote control or an external keyboard.

5   Type the map file path or select it by clicking the ⌐ button.

6   Click **OK**.

Customizing and Editing an Interactive 2D Map

You can customize your map using the integrated editor which allows you to zoom in and out from the map and resources. Using the 2D map editor you can place resources, such as cameras and alarms, directly on the map.

To customize and edit a 2D map

1   After adding a 2D map to SiteManager, drag it from the graphical interface and drop it into the virtual desktop to open the map editor.

Note: The same action can be performed by right-clicking the map and selecting **Show**.

The map editor appears in the virtual desktop.

2   Adjust the zoom level using the upper toolbar. The following table provides descriptions of the toolbar buttons.

2D Map Editor Toolbar

Button	Action
	Activate *Pan* mode. To move the map, hold the left mouse button down and move the mouse.
	Select the zoom level.
	See the map in full screen mode.
	Zoom in.
	Zoom out.
	Return to the original size (100 percent zoom).
	Fit the map to the window size (also referred to as *Autozoom*).

3   Drag a resource from the graphical interface and drop it into the map editor. Place the resource in the correct location within the site.

The resource icon appears on the map.

4   Right-click the resource icon on the map to open the option menu. The following table provides descriptions of the options.

Customizing and Editing a 2D Map

Option	Description
Show/Hide	Select **Show/Hide** to open or close the resource in the virtual desktop.
Connect/Disconnect	Select **Connect/Disconnect** to connect or disconnect SiteManager from the resource.
Edit resource	Select **Edit resource** to modify the unique ID and name of the resource.
Rotate	Point to **Rotate** and select one of eight positions (0°, - 45°, - 90°, - 135°, - 180°, - 225°, - 270°, or - 315°) to move the icon.
Size	Select **Size** to change the icon size. There are four preconfigured sizes. To manually change the size select the **Custom** option.
Send to monitor	Select **Send to monitor** to send the resource to a monitor.
Remove	Select **Remove** to delete the resource from the map.
Setup	Select **Setup** to open the RemoteControl setup menu. **Note**: If the resource has been added as a server, this option opens the device's Web setup page in SiteManager instead of RemoteControl.

5   Repeat steps 1 - 4 for the other resources that you want to place on the map.

6   Double-click an icon on the map to open the resource in the virtual desktop.

Editing a 2D Map

After you add a 2D map to SiteManager, it appears on the graphical interface and you can then modify it.

To edit a map

1   Double-click the map to expand the tree menu where the map's resources are listed.

2   Right-click the map to manage and edit it using the option menu. The following table provides descriptions of the options.

Editing a 2D Map

Option	Description
New map	Select **New map** to import and configure a 2D map.
New 3D map	Select **New 3D map** to import and configure a 3D model. For more information, see "Adding a 3D Map" on page 71.
Delete map	Select **Delete map** to delete the map from SiteManager. The program asks for a confirmation before deleting the map.
Edit map	Select **Edit map** to modify the unique ID and name of the map.
Show/Hide	Select **Show/Hide** to open or close the map in the virtual desktop.
Connect	Select **Connect** to connect SiteManager to the map's resources.
Disconnect	Select **Disconnect** to disconnect SiteManager from the map's resources.
Autoconnect	Select **Autoconnect** to allow SiteManager to automatically connect to the map's resources each time SiteManager starts.
Autodisplay	Select **Autodisplay** to allow SiteManager to automatically open the map's resources when a connection is established with the servers. **Note**: This option is unavailable when you are working with a VMS server.
Move top left	Select **Move top left** to move the map window in the upper-left corner of the virtual desktop.
Send to monitor	Select **Send to monitor** to send the map to a monitor.
Lock window	Flag **Lock window** to lock the position and dimensions of the map in the virtual desktop.

Sending a 2D Map to a Monitor

You can send a 2D map to a configured monitor.

WARNING: VideoSphere Edge 1 devices are not compatible with SiteManager maps.

To send a 2D map to a monitor

1 In the graphical interface, select the map you want to send to the monitor.

2 Select a monitor in the monitor panel.

3 Drag the map from the graphical interface and drop it into the monitor panel.

Tip: You can also send a map to a monitor by right-clicking it in the graphical interface, pointing to **Send to monitor**, and selecting an available network monitor.

Adding a 3D Map

You can import a 3D model representing your surveilled site in SiteManager. The application is also compatible with several file formats.

Note: This procedure requires that you import a 3D model into SiteManager. If you do not yet have a 3D model of the site, you must create it or obtain it from the site representative before you can proceed. 3D models are created using a separate software application, such as 3D Studio®.

To create a 3D map

1 Click the **Maps** tab.

2 Right-click to open the **New map** menu. (The same menu can be accessed by clicking **Maps** on the menu toolbar).

3   Select **New 3D map**.

A configuration window appears.

4   Select a **Unique ID** and type a custom **Name** for the 3D map.

Tip: The unique ID enables you to recall the resource with the remote control or an external keyboard.

5   Type the map file path or select it by clicking the ⬚ button.

Customizing and Editing a 3D Map

You can customize interactive 3D maps using an integrated editor that allows you to navigate the 3D model and add resources to it.

To customize a 3D map

1   After adding the 3D map to SiteManager, drag it from the graphical interface and drop it into the virtual desktop to open the map editor.

Tip: The same action can be performed by right-clicking the map and selecting **Show**.

The map editor appears in the virtual desktop.

2   Navigate the 3D model until the correct visualization (the same as the actual resource) is reached.

You can navigate within the 3D model using the integrated navigation toolbar and panel, or with the mouse.

The upper toolbar allows you to navigate and change the visualization mode of the 3D model. The following table provides descriptions of the toolbar buttons.

3-d Map Editor Toolbar

Button	Action
	Reset the view (switch to first person visualization mode).
	Switch to plan view style.
	Zoom in.
	Zoom out.
	Switch to smooth shading style.

3-d Map Editor Toolbar

Button	Action
	Switch to flat shading style.
	Switch to hidden lines style.
	Switch to wireframe style.
	Select the background color.
	Activate the Navigation panel.

3   Click the button to activate the Navigation panel. To navigate using the panel, click the arrows and change the navigation speed by adjusting the **Speed** slider.

You can also navigate within the 3D model using the mouse by holding the left button down and moving the mouse. To zoom in and out, roll the wheel up and down.

4   Drag a resource from the graphical interface and drop it into the 3D model.
     The resource appears in the 3D model.

5   Click the resource on the 3D model to select it. The resource color switches from black to red.
6   Right-click the resource on the 3D model to open the option menu. The following table provides
     descriptions of the options.

Customizing a 3D Map

Option	Description
Set as view point	Select **Set as view point** to control the resource point of view.
Move to current view point	Select **Move to current point of view** to automatically move the resource according to the current point of view.
Position locked	Select **Position locked** to lock the resource in the current position, so the resource cannot be accidentally moved.
Show/Hide	Select **Show/Hide** to open or close the resource in the virtual desktop.
Connect/Disconnect	Select **Connect/Disconnect** to connect or disconnect SiteManager from the resource.
Edit resource	Select **Edit resource** to modify the unique ID and name of the resource.
Delete resource	Select **Delete resource** to delete the resource from the map.

7   Repeat steps 1- 6 to place additional resources on the 3D model.

8   Double-click a resource on the map to open it in the virtual desktop.

Editing a 3D Map

After you add a 3D map to SiteManager, it appears on the graphical interface.

WARNING: You cannot send a 3D map to a monitor.

To edit a map

1 Double-click the map to expand the tree menu where the map's resources are listed.

2 Right-click the map to manage and edit it using the option menu. The following table provides descriptions of the options.

Editing a 3D Map

Option	Description
New map	Select **New map** to import and configure a 2D map. For more information, see "Adding a 2D Map" on page 65.
New 3D map	Select **New 3D map** to import and configure a 3D model.
Delete map	Select **Delete map** to delete the map from SiteManager. The program asks for a confirmation before deleting the view.
Edit map	Select **Edit map** to modify the unique ID and name of the map.
Show/Hide	Select **Show/Hide** to open or close the map in the virtual desktop.
Connect	Select **Connect** to connect SiteManager to the map's resources.
Disconnect	Select **Disconnect** to disconnect SiteManager from the map's resources.
Autoconnect	Select **Autoconnect** to allow SiteManager to automatically connect to the map's resources each time SiteManager starts.
Autodisplay	Select **Autodisplay** to allow SiteManager to automatically open the map's resources when a connection is established with the servers. **Note**: This option is unavailable when you are working with a VMS server.

Editing a 3D Map

Option	Description
Move top left	Select **Move top left** to move the map in the upper-left corner of the virtual desktop.
Lock window	Flag **Lock window** to lock the position and dimensions of the map in the virtual desktop.

Chapter 11

Adding and Editing Resource Groups

This chapter provides information about creating and managing resource groups using SiteManager. You can group resources in any way, such as by the location in which the resources are installed, or the VMS server to which they are connected. Creating a group allows you to properly organize and display resources using VideoSphere Edge Decode Station.

Adding Resource Groups

You can add resource groups to SiteManager to help organize your resources. We recommend you create a groupto properly manage VideoSphere Decode Stations: the operator is able to visualize only the resources added to the group sent to the decoding device.

To add a group

1   Click the **Groups** tab.

2   Right-click the graphical interface and select **New group** (The same menu can be accessed by clicking **Groups** on the menu toolbar).

3   Type a custom **Name** for the group.

4   Click **OK**.

Editing Resource Groups

After you create a resource group, it appears on the graphical interface and you can then modify it if required.

To edit a resource group

1   Double-click the resource group to expand the tree menu where the group's resources are shown.

2   Right-click the resource group to edit it using the option menu. The following table provides descriptions of the options.

Editing a Resource Group

Option	Description
New group	Select **New group** to add and configure a new resource group. For more information, see "Adding Resource Groups" on page 79.

Editing a Resource Group

Option	Description
Delete group	Select **Delete group** to delete the resource group from SiteManager. The program asks for a confirmation before deleting the view.
Edit group	Select **Edit group** to add resources to the resource group and assign unique IDs to the resources.
Show/Hide	Select **Show/Hide** to open or close all of the group's resources in the virtual desktop.
Connect	Select **Connect** to connect SiteManager to the resource group.
Disconnect	Select **Disconnect** to disconnect SiteManager from the resource group.
Autoconnect	Select **Autoconnect** to allow SiteManager to automatically connect to the group's resources each time SiteManager starts.
Autodisplay	Select **Autodisplay** to allow SiteManager to automatically open the group's resources when a connection is established with the servers. **Note**: This option is unavailable when you are working with a VMS server.
Send to monitor	Select **Send to monitor** to send the resource group to a decode station.

3　Select **Edit group**.

　A menu appears.

4   Select a resource in the left graphical interface, drag it from the graphical interface, and drop it into the **Edit group** menu.

5   After adding resources to the group, you can click **Autoassign IDs** to automatically assign a unique ID to each resource within the resource group.

Tip: The unique ID enables you to recall the resources in the group with the remote control or an external keyboard.

Note: The automatically assigned IDs are only used by the resource group and are not applied to the resources within the VMS server.

6   You can also add alarms to the group by dragging them from the graphical interface and dropping them into the **Edit group** menu. After adding the alarm, assign it to one of the group resources using the **Alarmed resource** drop down menu.

Sending Resource Groups to Decode Stations

You can now send resource groups to a configured decode stations.

WARNING: Resource groups can only be sent to VideoSphere Edge Decode Stations.

To send a resource group to a decode station

1   In the graphical interface, select the group you want to send to the decode station.

2   Select the decode station where the group will be displayed in the monitor panel.

3   Drag the group from the graphical interface and drop it into the monitor panel.

Tip: You can also send a group to a decode station by right-clicking it in the graphical interface, pointing to **Send to monitor**, and selecting an available decode station.

Chapter 12

Adding and Editing Resource Sequences

This chapter provides information about creating and managing resource sequences using SiteManager. You can create custom sequences of different resources, such as cameras, 2D maps, views, panoramic views, and Web pages to specify the resources you want to cycle and the order in which they appear. This feature is useful when you want to cycle different video streams in only one window, thereby creating a overview of your surveillance site. Sequences may be added to views and maps as well.

Adding Resource Sequences

Before customizing the sequence, you must add it to SiteManager.

To add a resource sequence

1   Click the **Sequences** tab.
2   Right-click the graphical interface and select **New Sequence**. (The same menu can be accessed by clicking **Sequences** on the menu toolbar).

A configuration window appears.

3   Select a **Unique ID** and type a custom **Name** for the sequence.

Tip: The unique ID enables you to recall the resource with the remote control or an external keyboard.

4   Click **OK**.

Editing Resource Sequences

After you add a resource sequence, it appears on the graphical interface and you can then customize it.

To edit a resource sequence

1   Double-click the resource sequence to expand the tree menu where the sequence's resources are listed.

2   Right-click the sequence to manage and edit it using the option menu. The following table provides descriptions of the options.

Editing a Resource Sequence

Option	Description
New sequence	Select **New sequence** to add and configure a new resource sequence. For more information, see "Adding Resource Sequences" on page 85.
Delete sequence	Select **Delete sequence** to delete the resource sequence from SiteManager. The program asks for a confirmation before deleting the sequence.
Edit sequence	Select **Edit sequence** to modify the resource sequence name and to assign internal unique IDs to its resources.
Show/Hide	Select **Show/Hide** to open or close the sequence editor in the virtual desktop.
Connect	Select **Connect** to connect SiteManager to the sequence's resources.
Disconnect	Select **Disconnect** to disconnect SiteManager from the sequence's resources.
Video resolution	Select the sequence **Video resolution**. Higher video resolution requires more bandwidth.
Autodisplay	Select **Autodisplay** to allow SiteManager to automatically open the sequence's resources when a connection is established with the resources.
Send to monitor	Select **Send to monitor** to send the sequence to a monitor.
Lock	Flag **Lock** to lock the position and dimensions of the sequence editor in the virtual desktop.

3   Drag the resource sequence from the graphical interface and drop it into the virtual desktop to open the sequence editor.

Tip: The same action can be performed by right-clicking the sequence and selecting **Show**. The sequence editor appears in the virtual desktop.

4   The sequence editor presents the resource currently shown in the sequence. You can navigate the sequence using the control toolbar, or customize it by placing resources and selecting the cycle time on the sequence editor panel.

5   You can control the sequence using the lower toolbar. The following table provides a description of the toolbar buttons.

Sequece Editor Toolbar

Button	Action
⟨	Returns to the previous resource.
▢	Stops the sequence.
↻	Starts the sequence.
⟩	Moves forward to the next resource.
⚙	Opens or closes the sequence editor panel.

6   Click the ⚙ button to open the sequence editor panel.

7   Drag a resource from the graphical interface and drop it into the sequence editor panel in the desired position.

Tip: You can change the resource position any time using drag & drop capabilities.

The resource icon appears on the panel.

8   Select the display time for each resource.

9   Right-click the resource icon on the panel to open the option menu.

10   Select **Show** to open the resource in the virtual desktop in a separate window, or select
     Remove to delete the resource from the sequence.

11   Repeat steps 1- 6 for the other resources that you want to add to the resource sequence. You can
     add the same resource multiple times in a sequence.

12   Click the [>] button to play the sequence in the virtual desktop. The ● symbol indicates which
     resource is currently displayed.

Sending Resource Sequences to Monitors

You can send a resource sequences to configured monitors.

WARNING: VideoSphere Edge 1 are not compatible with resource sequences.

To send a resource sequence to a monitor

1   In the graphical interface, select the resource sequence you want to send to the monitor.

2   Select the monitor where the resource sequence will be displayed in the monitor panel.

3   Drag the resource sequence from the graphical interface and drop it into the monitor panel.

Tip: You can also send a sequence to a monitor by right-clicking it in the graphical interface,
pointing to **Send to monitor**, and selecting an available network monitor.

Adding and Editing Web Resources

This chapter provides information about adding and managing Web resources using SiteManager. After unlocking the feature, you can integrate fully navigable Web pages and applications in SiteManager maps, views and sequences, and send them to a monitor.

Unlocking the Web Resources Feature

The web resources feature is a free SiteManager add-on and is not enabled by default. You must unlock the feature before you can use it.

To unlock the web resources feature

1   Click **Tools** in the menu toolbar and select **Options**.

The **General** tab is selected by default.

2   Click **Web resources activation** to generate a request code.

Note: The request code is unique and corresponds to the computer on which SiteManager is installed. You must perform this procedure on every client running SiteManager.

3   Send an e-mail to milantechsupport@marchnetworks.com with the request code. March Networks Technical Support will provide you with a code to unlock the web resources feature.

4   When you receive the code, paste it in the **Activation** box.

5   Click **OK**.

6   Close and re-open SiteManager to unlock the web resources feature.

The **Web** tab is now available.

Adding Web Resources

After you unlock the web resource feature, you can add web resources to SiteManager.

To add a web resource

1   Click the **Web** tab.

2   Right-click on the graphical interface and click **New web resource**. (The same menu can be accessed by clicking **Web** on the menu toolbar).

A configuration window appears.

3   Select a **Unique ID** and type a custom **Name** for the web resource.

Tip: The unique ID enables you to recall the web resource with the remote control or an external keyboard.

4   Type the web resource's Internet **URL**.

Tip: You can also add pages with Macromedia® Flash® applications, or embedded videos such as pages from portals like YouTube® and GoogleVideo®.

5   Select the **Refresh** frequency.

Note: If the refresh value is set to 0, SiteManager will never refresh the web resource.

Editing Web Resources

After you add a web resource, it appears on the graphical interface.

To edit a web resource

1   Drag the web resource from the graphical interface and drop it into the virtual desktop.

    The web resource appears in a fully navigable Internet Explorer® window within the virtual desktop.

2   Right-click the web resource to manage and edit it using the option menu. The following table provides descriptions of the options.

Editing a Web Resource

Option	Description
New web resource	Select **New web resource** to add and configure a new web resource. For more information, see "Adding Web Resources" on page 95.
Edit web resource	Select **Edit web resource** to modify the web resource name, unique ID, and URL.
Delete web resource	Select **Delete web resource** to delete the web resource from SiteManager. The program asks for a confirmation before deleting the web resource.
Show/Hide	Select **Show/Hide** to open or close the web resource in a browser within the virtual desktop.

Editing a Web Resource

Option	Description
Lock window	Flag **Lock window** to lock the position and dimensions of the web resource window in the virtual desktop.
Send to monitor	Select **Send to monitor** to send the web resource to a monitor.
Move top left	Select **Move top left** to move the browser window to the upper-left corner of the virtual desktop.

Sending Web Resources to Monitors

You can send web resources to configured monitors in SiteManager.

WARNING: VideoSphere Edge 1 devices are not compatible with web resources.

To send a web resource to a monitor

1   In the graphical interface, select the web resource you want to send to the monitor.

2   Select the monitor where the web resource will be displayed in the monitor panel.

3   Drag the web resource from the graphical interface and drop it into the monitor panel.

Tip: You can also send a web resource to a monitor by right-clicking it in the graphical interface, pointing to **Send to monitor**, and selecting an available network monitor.

Chapter 14

Adding and Editing Events

This chapter provides information about adding events to and managing events in SiteManager. You can create a full range of customized events (including a step-by-step alarm acknowledgment procedure.

Adding New Events

Before customizing automatic events to SiteManager using the integrated editor, you must add a new event to SiteManager.

To add an event

1   Click the **Events** tab.
2   Right-click on the graphical interface and click **New event**. (The same menu can be accessed by clicking **Events** on the menu toolbar).

The event is automatically created and is ready to be configured.

Editing Events

After you add an event, it appears on the graphical interface in SiteManager. You can then edit events using the integrated editor that allows you to add alarms and resources using drag-and-drop capabilities.

To edit an event

1   After adding the event to SiteManager, double-click it to open the event editor.

The event editor is comprised of four different sections:

- **Upper Toolbar.** Configure general event details, such as a custom event **Name**, whether the event is available locally or on the network, and whether it is automatically acknowledged. To save and apply changes to the event details, always click the ! button.

- **Sources Panel.** Add the alarms that activate automatic events.

- **Actions Panel.** Select the automatic responses that are activated after an alarm is triggered.

- **Resources/Options Panel**. Add the resources that are connected to automatic events and configure the requested options.

2 In the upper toolbar, type a custom **Name** for the event.

3 Select the **Local** check box to configure an action that only occurs on your computer, or clear this option to allow the action to occur on every computer running SiteManager on the network.

Note: VGA monitors can be selected for actions only by checking the **Local** option.

4 Select the **Auto acknowledge** check box to allow the system to automatically acknowledge alarms without any user notification.

5 Select an alarm in the left graphical interface.

6 Drag the alarm from the graphical interface and *drop* it into the **Sources** panel.

WARNING: If you didn't configure an alarm central or if the alarm has been configured on a VideoSphere Edge 4 device, or on a March Networks' 3000-4000 Series recorder, you must flag the **Monitored** option on the alarm right-clicking the alarm on the graphical interface.

The alarm icon appears on the panel.

7   Select an event in the list of **Actions** and click the ➕ button to add it to the panel. The following table provides descriptions of the available actions.

Available Events

Action	Description	Configuration needed
Blank monitor	Select **Blank monitor** to clear the monitor after an event.	Select the monitor and add it to the **Resources/Options** panel.
Connect to server	Select **Connect to server** to automatically connect to a configured server after an event.	Select the server and add it to the **Resources/Options** panel.
Disconnect all servers	Select **Disconnect all servers** to automatically disconnect SiteManager from every server after an event.	No additional configuration needed.

Available Events

Action	Description	Configuration needed
Disconnect from server	Select **Disconnect from server** to automatically disconnect SiteManager from a server after an event.	Select the server and add it to the **Resources/ Options** panel.
Execute specified file	Select **Execute specified file** to automatically start an application after an event.	Select the file path by clicking the ▦ button.
Play sound	Select **Play sound** to automatically play a sound file (.wav format) after an event.	Select the audio file path by clicking the ▦ button.
Record user activity (screen cam)	Select **Record user activity (screen cam)** to automatically record the entire user's desktop activity after an event.	Enable and configure the **Screen recorder** function in the option menu. For more information, see "Recording Desktop Activity" on page 160.
Send eMail	Select **Send eMail** to automatically send an e-mail after an event.	Configure a valid SMTP server in the option menu (for more information, see "Configuring the SMTP Settings" on page 171), and then type the address, the e-mail text, and select the e-mail attachments to attach to the e-mail message.
Show 3D map	Select **Show 3D map** to automatically show a 3D map after an event.	Select the 3D map and add it to the **Resources/Options** panel.
Show acknowledgement window	Select **Show acknowledgement window** to create and set an acknowledgment procedure for the alarm.	Configure the acknowledgment procedure. For more information about configuring the acknowledgment procedure, see "Configuring and Acknowledging a Custom Alarm" on page 110.
Show all alarmed cameras on monitor	Select **Show all alarmed cameras on monitor** to send all of the alarmed cameras to a monitor.	Specify the sending mode, select the monitor, and then add the monitor to the **Resources/ Options** panel. **Note**: There are two sending modes to choose from: **Sequence** or **View**. If you choose **Sequence**, you must configure the cycle time.
Show all alarmed cameras	Select **Show all alarmed cameras** to open all of the alarmed cameras in the virtual desktop after an event.	No additional configuration needed.
Show camera	Select **Show camera** to open a camera in the virtual desktop after an event.	Select the camera and add it to the **Resources/ Options** panel.

Available Events

Action	Description	Configuration needed
Show camera on monitor	Select **Show camera on monitor** to send a camera to a monitor after an event.	Select the camera and the monitor, and add them to the **Resources/Options** panel.
Show group	Select **Show group** to open a resource group in the virtual desktop after an event.	Select the group and add it to the **Resources/Options** panel.
Show group on monitor	Select **Show group on monitor** to send a resource group to a monitor after an event.	Select the group and the monitor, and add them to the **Resources/Options** panel.
Show map	Select **Show map** to open a 2D map in the virtual desktop after an event.	Select the 2D map and add it to the **Resources/Options** panel.
Show map on monitor	Select **Show map on monitor** to send a 2D map to a monitor after an event.	Select the 2D map and the monitor, and add them to the **Resources/Options** panel.
Show panorama	Select **Show panorama** to open a panoramic map in the virtual desktop after an event.	Select the panoramic map and add it to the **Resources/Options** panel.
Show panorama on monitor	Select **Show panorama on monitor** to send a panoramic map to a monitor after an event.	Select the panoramic map and the monitor, and add them to the **Resources/Options** panel.
Show sequence	Select **Show sequence** to open a sequence in the virtual desktop after an event.	Select the sequence and add it to the **Resources/Options** panel.
Show sequence on monitor	Select **Show sequence on monitor** to send a sequence to a monitor after an event.	Select the sequence and the monitor, and add them to the **Resources/Options** panel.
Show view	Select **Show view** to open a view in the virtual desktop after an event.	Select the view and add it to the **Resources/Options** panel.
Show view on monitor	Select **Show view on monitor** to send a view to a monitor after an event.	Select the view and the monitor, and add them to the **Resources/Options** panel.
Show web	Select **Show web** to open a web resource in the virtual desktop after an event.	Select the web resource and add it to the **Resources/Options** panel.
Show web on monitor	Select **Show web on monitor** to send a web resource to a monitor after an event.	Select the web resource and the monitor, and add them to the **Resources/Options** panel.

Available Events

Action	Description	Configuration needed
Turn alarm off	Select **Turn alarm off** to deactivate an alarm (you can choose to deactivate any alarm, not just the triggered alarm) after an event.	Select the alarm and add it to the **Resources/ Options** panel.
Turn alarm on	Select **Turn alarm on** to activate an alarm after an event.	Select the alarm and add it to the **Resources/ Options** panel.
Turn aux off	Select **Turn aux off** to deactivate an auxiliary device connected to a server after an event.	Select the auxiliary device and add it to the **Resources/Options** panel.
Turn aux on	Select **Turn aux on** to activate an auxiliary device connected to a server after an event.	Select the auxiliary device and add it to the **Resources/Options** panel.
Turn camera aux off	Select **Turn camera aux off** to deactivate an auxiliary device connected to a camera after an event.	Select the auxiliary device and add it to the **Resources/Options** panel.
Turn camera aux on	Select **Turn camera aux on** to activate an auxiliary device connected to a camera after an event.	Select the auxiliary device and add it to the **Resources/Options** panel.
Turn off alarm on acknowledge	Select **Turn off alarm on acknowledge** to deactivate the source alarm after performing the acknowledge procedure.	No additional configuration needed.
Windows management	Select **Windows management** to rearrange the appearance of the virtual desktop appearance after an event.	Select the window's appearance or behavior. You can choose from the following options: **Tile**, **Cascade**, **Close all**, and **Restore desktop settings.** For more information, see "Adjusting the Virtual Desktop While Viewing Video Windows" on page 116.

8   If the selected action requires a particular resource or monitor, select the resource in the graphical interface.

9   Drag the resource from the graphical interface and *drop* it into the **Resources/Options** panel.

The resource icon appears on the panel.

10   After adding the resource, click the ❗ button.

The event is now configured.

11 You can customize the event by adding other actions (repeat steps 1-10).

Tip: To remove an alarm or resource, right-click it and select **Remove**.

To delete an action

1   Select the action in the **Actions Panel**.
2   Click the ✕ button.

To test an event

• Right-click the event in the graphical interface and then select **Fire**.
  The test simulates the an alarm being triggered and automatically performs the configured actions.

Chapter 15

Acknowledging Alarms

When an alarm occurs, operators can notify the alarm central server to indicate that they are aware of the alarm. An alarm central server is a computer that manages and processes alarms over the network using the VideoSphere AlarmManager background application.

There are three different types of acknowledgement procedures:

- **Standard acknowledgement.** Alarms appear in the SiteManager's alarm log for operators to view and acknowledge.
- **Automatic acknowledgement.** SiteManager automatically acknowledges alarms. No operator action is required.
- **Custom acknowledgement.** Operators respond to alarms by performing a set of custom tasks.

Performing a Standard Acknowledgment

By default, alarms appear on the Alarms tab of the Log Window for operators to view and acknowledge.

Note: This procedure requires that the Auto acknowledge check box be cleared in the event editor, or that the Show acknowledgement window option be selected. For more information, see "Editing Events" on page 100.

To perform a standard acknowledgement

1   Ensure the **Alarms** tab is selected.

     When an alarm triggers, it appears on the **Alarms** tab.

2   To acknowledge the alarm, double-click it.

Note: If you configured the **Turn off alarm on acknowledge** action, the alarm is deactivated after you acknowledge the alarm. For more information about this option, see "Editing Events" on page 100.

Configuring an Automatic Acknowledgment Procedure

You can configure an automatic acknowledgment procedure. In this way SiteManager automatically acknowledges alarms and no operator action is required.

To configure automatic acknowledgment

1   Add a new event to SiteManager; for more information, see "Adding New Events" on page 99.

2   Double-click it to open the event editor.

3   Select an alarm in the left graphical interface, drag it from the graphical interface and *drop* it into the **Sources** panel.

The alarm icon appears on the panel.

4   Select the **Auto acknowledge** check box in the upper toolbar.

5   Click the ! button to save and apply changes.

SiteManager now acknowledges the alarm without notifying the operator.

Note: If you configured the **Turn off alarm on acknowledge** action, the alarm is deactivated after you acknowledge the alarm. For more information about this option, see "Editing Events" on page 100.

Configuring and Acknowledging a Custom Alarm

The **Show acknowledgement window** action allows you to configure a custom acknowledgement procedure for the operator using an integrated editor. The procedure consists of a series of steps to be performed by the operator to acknowledge the alarm.

To configure a custom acknowledgement procedure

1   Add a new event to SiteManager; for more information, see "Adding New Events" on page 99.

2   Double-click it to open the event editor.

3   Select an alarm in the left graphical interface, drag it from the graphical interface and *drop* it into the **Sources** panel.

The alarm icon appears on the panel.

4   Double-click an event in the graphical interface.

      The event editor appears in the virtual desktop.

5   Select **Show acknowledge window** in the **Actions Panel** and click the + button.

      The acknowledgement editor appears. The following table provides descriptions of the options.

Custom Acknowledgment Procedure

Option	Description
Show alarm information	Check **Show alarm information** to include the alarm details in the notification window.
Request operator notes	Select the **Request operator notes** check box to allow the operator to write his own notes about the event before ending the acknowledgement procedure.
Add operation	Click **Add operation** to type instructions for the operator to follow. Every operation added is a step in the acknowledgment procedure.
Accept failure	Select the **Accept failure** check box to allow the operator to continue with the acknowledgment procedure even if one of the required steps hasn't been completed; in the notification window the **Failed** button appears.
Remove operation	Click **Remove operation** to delete one of the operations.
Remove all	Click **Remove all** to delete all of the operations.

6   Click **Add Operation**.

7   Type instructions for the operator.

8   Select the **Accept failure** check box to allow the operator to continue with the acknowledgement procedure even if the required steps have not been completed.

9   Repeat the operation to add other steps.

You can delete one of the steps by selecting it and clicking **Remove Operation**. You can also delete all of the configured steps by clicking **Remove all**.

10   Click the ! button to save and apply changes.

To acknowledge a custom alarm

1   When an alarm is triggered, AlarmManager sends it to SiteManager and the Log Window automatically switches to the **Alarms** tab.

2   Double-click the alarm.

The acknowledgement window appears.

3   Perform all of the required tasks and confirm the steps by clicking **OK**.

For false alarms, you may be able to skip some of the steps and click **Failed** (depending on how the alarm procedure is configured).

4   You may be required to add notes about the alarm before you click **Acknowledge** (depending on how the alarm procedure is configured).

Note: If the **Turn off alarm on acknowledge** action has been added to the event, the alarm is deactivated after you acknowledge the alarm. For more information about the **Turn off alarm on acknowledge** action, see "Editing Events" on page 100.

Chapter 16

Viewing Live Video

This chapter provides information about managing cameras in SiteManager's virtual desktop. You can quickly edit the camera video display options, control PTZ cameras with the mouse, and control the zoom level.

Adjusting the Virtual Desktop While Viewing Video Windows

You can use the shortcut toolbar to manage multiple windows in the virtual desktop.

To adjust the virtual desktop while viewing multiple video windows

- With multiple video windows open, click one of the following buttons on the shortcut toolbar:

Shortcut Toolbar Buttons

Button	Action
	Arranges the open video windows as tiles on the virtual desktop or in cascading order. **Examples:**
	Arranges the open video windows so there are one, two, or four windows per row. **Examples:**
	Automatically moves the selected resource to the front of the other windows (when two or more video windows are overlapping).

Editing the Display Options

SiteManager allows you to edit the display options for each video stream.

To edit the display options

1   Open a VMS camera in the virtual desktop by dragging it from the graphical interface and *dropping* it in the virtual desktop.

Tip: You can open all video streams simultaneously by clicking **Autodisplay**.

2   Right-click the video stream to open the **Display Options** menu. The following table provides descriptions of the options.

Tip: To edit display options for a video stream in a view, double click a frame in the view layout and then right-click it.

Editing the Display Options

Option	Description
Window size	Fit the window size to the video stream resolution. **Note**: A higher resolution enables more options.
Video resolution	Select the video stream **resolution** (if applicable); the **Auto** option allows SiteManager to automatically configure the resolution.
Enhance video quality	Select the video quality enhancement level.
Enhance high resolution MPEG	Flag **Enhance high resolution MPEG** to receive increased video quality at high resolutions.
Metadata	Select the type of **Metadata** to be displayed on the video stream. You can view metadata for all of the alarms, or for selected alarms.
Send to monitor	Select **Send to monitor** to move the view to a monitor.
Show toolbar	Flag or unflag **Show toolbar** to display or hide the playback toolbar.
Lock window	Flag **Lock window** to lock the position and dimensions of the video stream window in the virtual desktop.

3   Select the required option to instantly apply the change to the video stream.

Zooming In On a Camera

You can use SiteManager's built-in digital zooming capabilities to zoom in on an object within the camera's field of view.

WARNING: Zooming in digitally results in a loss of video definition.

To zoom in on video

1   With video open, click the button on the playback toolbar to enable digital zooming.

Tip: To enable digital zoom on a video stream in a view, double click a frame in the view layout and then click the button on the playback toolbar.

2   Click the right mouse button and drag to select the area you want to zoom in on.

SiteManager zooms to the selected area.

3   Roll the mouse wheel up and down to zoom in and out.

4   Since the area you are zooming in on is just a portion of the camera's field of view, you can adjust the area of interest by holding the left mouse button down and moving the mouse to navigate within the image. The mouse moves the image's point of view, similarly to a PTZ camera.

Controlling PTZ Cameras

You can use SiteManager's built-in software controls to adjust a PTZ camera's field of view to move to a preset view of a particular location.

To control a PTZ camera

1   Open a PTZ camera in the virtual desktop by dragging it from the graphical interface and *dropping* it into the virtual desktop.

Tip: To control a PTZ camera in a view, double-click the frame with the PTZ camera video stream in the view layout.

2   Move the mouse cursor over the image.

The cursor changes shape in a navigation pad.

3   To move the camera, hold the left mouse button down and move the mouse.

The PTZ camera point of view follows the mouse movement and speed.

4   To zoom in or out using optical zoom, roll the mouse wheel up and down. Alternatively, you can hold down the right mouse button and move the mouse forward and backward to zoom in and out.

Tip: In addition to moving the camera's field of view, you can also zoom in to an area of interest. For more information, see "Zooming In On a Camera" on page 119.

5   Righ- click the video stream to open the **Display Options** menu. The middle part of the menu is now enabled.

6   Control the PTZ camera focus and iris level, or recall one of the saved presets or tours by selecting the menu options. The following table provides descriptions of the PTZ options.

Note: Presets and PTZ tours are set up using RemoteControl, and/or the camera's Web Setup. For more information, see the *VMS Configuration Guide*.

Controlling PTZ Cameras

Option	Description
Focus	Select the **Focus** level.
Iris	Select the **Iris** level. The iris represents the aperture of the diaphragm.
Preset	Select one of the saved **Presets**.
Tour	Select one of the saved **Tours**.
Target tour	Select one of the saved **Target tours**. **Note**: Option available only for PTZ cameras connected to a VMS server.

Chapter 17

Viewing Recorded Evidence

There are two ways you can view recorded evidence:

- View the most recent recorded evidence
- Search for recorded evidence

After you locate the evidence in which you are interested, you can play it using SiteManager's built-in playback tools.

If you find a particular image that you are interested in, you can save or print it. Or, if you find a segment of video that you want to keep for future use, you can save it as a video clip on your computer.

Viewing the Most Recent Recorded Evidence

You can view the last recorded evidence by selecting a camera in the virtual desktop and using the playback toolbar to select the recording sector you want to access.

To view the most recent recorded evidence

1   Access one or more cameras by doing one of the following:
    - Select the **Servers** tab and drag a camera into the virtual desktop. The camera appears.
    - Select the **Views** tab and drag a view into the virtual desktop. All cameras within the view appear.

2   Click the ▣ ▾ button on the playback toolbar and select the recording sector you want to access.

Note: To select the Shadow Archive™ (the local storage on the camera), you must configure it first on the VMS. For more information, see the *VMS Configuration Guide*.

3   If there are multiple cameras in the virtual desktop, select a camera. When you play back the video, all cameras in the view are synchronized to the selected camera's time. If synchronized video is not available for a camera, live images appear instead.

4   Click the **Play** button [▷] .

The video starts playing from the beginning of the last recorded file.

5   Adjust the playback controls as required. For more information, see "Playing Recorded Video" on page 132.

Searching for Recorded Evidence

To locate recorded evidence in which you are interested, you can perform one of the following searches:

• **Visual search.** View a timeline to see where recorded evidence exists. Click within the timeline to go to the moment of interest.

• **Date and time search.** Search for evidence based on the date and time the evidence was captured.

• Metadata search. Use the integrated search engine for alarm triggered by an analytic or for text coming from a text insertion device.

Performing a Visual Search

The visual search allows you to select the playback starting point by clicking on a graphical timeline.

To perform a visual search

1   Access one or more cameras by doing one of the following:

• Select the **Servers** tab and drag a camera into the virtual desktop. The camera appears.

• Select the **Views** tab and drag a view into the virtual desktop. All cameras within the view appear.

2   Click the [▷▭▾] button on the playback toolbar to select the recording sector.

Note: To select the Shadow Archive (the local storage on the camera), you must configure it first on the VMS. For more information, see the *VMS Configuration Guide*.

3   Click the button to open the visual search menu.

The turquoise areas indicate where recorded evidence exists.

4   Click the plus (**+**) and minus (**-**) buttons to select a larger or smaller time range.

If there are multiple cameras in the virtual desktop, you can exclude cameras by clearing the corresponding check box.

5   Click the desired start time and click the **Play** button .

If there are multiple cameras in the virtual desktop, video playback is synchronized for all cameras. If synchronized video is not available for a camera, live images appear instead.

6   Adjust the playback controls as required. For more information, see "Playing Recorded Video" on page 132.

Performing a Date and Time Search

The date and time search allows you to directly specify the playback starting point.

To perform a date and time search

1   Access one or more cameras by doing one of the following:

   •   Select the **Servers** tab and drag a camera into the virtual desktop. The camera appears.

   •   Select the **Views** tab and drag a view into the virtual desktop. All cameras within the view appear.

2   Click the button on the playback toolbar to select the recording sector.

Note: To select the Shadow Archive (the local storage on the camera), you must configure it first on the VMS. For more information, see the *VMS Configuration Guide*.

3   Click the button to open the date/time search window.

4   In the **Date** and **Time** boxes, type or select the playback start date and time.

5   Click **Ok**.

6   Click the **Play** button to start video playback.

     If there are multiple cameras in the virtual desktop, video playback is synchronized for all cameras. If synchronized video is not available for a camera, live images appear instead.

7   Adjust the playback controls as required. For more information, see "Playing Recorded Video" on page 132.

Tip: You can click the button to open the visual search menu. The pointer will be placed at the specified date and time.

Performing a Metadata Search

The metadata search allows you to search for recorded evidence connected to system alarms and alarms triggered by VideoSphere Analytics, or for text coming from a text insertion device.

To perform a metadata search

1   Access a VMS camera by selecting the **Servers** tab and dragging a camera into the virtual desktop. The camera appears.

WARNING: You can perform metadata searches only on cameras added to a VMS server — software version 2.1.1 or greater.

Tip: You cannot access the metadata search engine from a view. However, you can perform a search on multiple cameras added to a VMS server using the **Search** tool. For more information, see "Performing Metadata Searches on Multiple Cameras" on page 148.

2   Click the [icon] button on the playback toolbar to select the recording sector.

Note: To select the Shadow Archive (the local storage on the camera), you must configure it first on the VMS. For more information, see the VMS Configuration Guide.

3   Click the button to open the visual search menu.

The turquoise areas indicate where recorded evidence exists.

4   Click the plus (**+**) and minus (**-**) buttons to select a larger or smaller time range.

5   Click the button to open the metadata search engine.

6   Select an alarm or the text insertion feature from the drop down menu.

Tip: For more information about the VideoSphere Analytics and the compatible devices, please visit http://www.marchnetworks.com/products/video-and-data-analytics/video-analytics.aspx.

7   Configure the search time range by selecting the **Start** and **End** time and date.

8   Refine the search by configuring the alarm advanced options. The advanced options are different for most of the alarms. The following list provides a description for the advanced options of every alarm.

• **Global Motion, PTZ Tracking:** No further configuration needed.

• **Alarm:** Specify the alarm you want to search in the **Alarm to Search** text box.

Tip: Select **Alarm** to search for alarms not triggered by the VideoSphere Analytics, for example a system alarm or the disconnection of a camera from an encoder.

- **Detail**, **Face**, **Fall**, **Motion**, **Panic**, **Permanency**, **Queue**, **Wire Cross**, **Wrong Way**: Draw the image portion (**Zone**) where the search is performed. To draw the zone, click the left mouse button on the image and drag to define the search area. If you are not satisfied with the result, you can delete the zone clicking **Reset**.

- **Flow**: Select the **Count** zone and the **Source** zone from the drop down menus, and then configure the limit, threshold, or range of the search corresponding to the number of objects/people counted by the analyitc.

Note: The **Count** and the **Source** zones numbers correspond to the zones configured in the analytic setup.

- **Loitering**: Draw a zone as described above, and then configure the limit, threshold, or range of the search corresponding to the number of seconds a person is on the scene.

- **Speed**: Draw a zone as described above, and then configure the limit, threshold, or range of the search corresponding to the speed of a vehicle/person detected by the analytics. You can also select the unit of measurement: choose from meters per second, kilometers per hour, and miles per hour.

- **Tracking**: Draw two zones (source and destination) as described above. The first zone is represented on the image as a blue rectangle, the second zone as a red rectangle. You can exchange the order of the zones by clicking **Flip**.

After drawing the zones, configure the **Tracking parameters** for the search.

- **Text Insertion**: Type the text to search and the text insertion device ID.

>   You can also configure an advanced search. The advanced search allows you to narrow down the search to a specific section of the text.

Note: The text added to a camera is divided in three sections/columns: **Prefix**, **Value**, and **Title**.

>   Click the **Advanced** tab, type the text corresponding to the **Value** and/or **Title** sections, then type the text insertion device ID. You can also include the Prefix section in the search by selecting the **Include prefix** check box.

9   Click the 🔍 button to launch the search.

>   SiteManager automatically switches to the **Results** tabs and after a few moments the results appear on the search engine.

Tip: The search engine displays 100 results per page. You can scroll between the different pages using the toolbar at the bottom of the search engine

10   Click a result to select it. The cursor on the visual search bar automatically moves to the alarm starting time.

11   Click the **Play** button ▷ to start video playback.

12   Adjust the playback controls as required. For more information, see "Playing Recorded Video" on page 132.

Playing Recorded Video

You can use the toolbar located at the bottom of each video window to play back recorded video.

Playback Controls

Command	Action
I◁	Go to the beginning of the recorded video.
◁◁	Rewind the video. You can right-click to enter continuous rewind mode; the rewind speed is determined by the clicking speed.
☐	Return to live mode.
▷	Play the video.
II	Pause video playback.

Playback Controls

Command	Action
	Fast forward the video. You can right-click for continuous fast forward mode; the fast forward speed is determined by the clicking speed.
	Go to the end of the recorded video.
	Activate the window recorder feature. When the button is gray, the window recorder feature is not available. Before you can use the window recorder feature, you must first enable it. To enable this feature, click **Options** on the **Tools** menu. Click the **Window recorder** tab, enable the feature, and configure its settings. For more information, see the *SiteManager User Manual*.
	Save or print the image. You can save the image in .bmp (bitmap) and .jpg (jpeg) format.
	Enable or disable digital zooming. For more information, see "Zooming In On Video" on page 42.
	Mute or unmute the audio.

Saving and Printing Images

If you find an image of interest, you can save or print it.

To save an image

1   Access one or more cameras by doing one of the following:
    - Select the **Servers** tab and drag a camera into the virtual desktop. The camera appears.
    - Select the **Views** tab and drag a view into the virtual desktop. All cameras within the view appear.

2   Select the camera from which you want to save an image.
3   Click the [ ] button on the playback toolbar.
    The **Export still image** dialog box appears.

4   Click **Save to file** and click **Continue**.
    The Windows **Save As** dialog box appears.
5   Specify the location in which you want to save the image, type a custom name, and select the format in which you want to save it.
    You can save the image in bitmap (.bmp - uncompressed) or Jpeg (.jpg - compressed) format.
    SiteManager automatically adds the screenshot information to the image.

Note: By default, the file name uses the following format: *Server Name/IP Address - Image Date/Time*.

To print a screenshot

1   Access one or more cameras by doing one of the following:

• Select the **Servers** tab and drag a camera into the virtual desktop. The camera appears.

• Select the **Views** tab and drag a view into the virtual desktop. All cameras within the view appear.

2   Select the camera from which you want to print an image.

3   Click the button on the playback toolbar.

The **Export still image** dialog box appears.

4   Click **Print** and click **Continue**.

The Windows **Print Setup** dialog box appears.

5   Configure the required options and click **OK**.

Saving Video Clips

If you have found evidence in which you are interested and you want to save it for future use, you can save it as a video clip on your computer.

To save a video clip

6   Perform a search to determine the start point for the exported video.

For more information, see "Searching for Recorded Evidence" on page 124.

7   Right-click the selected start point and click **Set start for exported video**.

A green marker appears on the bar to indicate the start point.

8   Determine the end point of the recorded video. Right-click the selected point and click **Set end for exported video**.

The selected video zone becomes red.

9   Right-click the red zone and click **Export video**.

The **Export selection** dialog box appears.

10 In the **Title** field type a descriptive name for the clip.

Note: By default, the file name uses the following format: *Server - Camera - Clip Date/Start Time*.

11 Refine or change the start and end time, as required.

12 Click the browse button [...] to select the location in which you want to save the video clip.

13 If you are using a text capture device, you can overlay captured text on the video clip by selecting the **Include text insertion** check box.

14 Select the compression algorithm, the resolution, and, if required, the bit-rate quality (in megabytes) for the video clip.

WARNING: Select a resolution in the same format (for example, 4x3 or 16x9) as the original camera to prevent the video from being stretched.

15 Optionally, you can select **Fixed split size** to automatically split the video clip into smaller files.

16 Optionally, you can select **Authenticate exported video**, to authenticate the video clip.

The authentication process ensures that the video has been exported from a VMS server and that it has not been modified.

17 Click **OK** to save the video clip.

You can now control the saving process on the **Video Export** tab in the **Log events** interface.

Note: When you save multiple video clips, SiteManager exports one video clip at a time, automatically queueing the remaining video clips.

18 Right-click the progress bar to stop, pause, or resume the save process, or to remove video clips from the queue.

19 After the video clip is saved on your computer, you can right-click the progress bar and select **Open exported file** to view the video in a player. Or, you can select **Open container folder** to open the folder in which the video clip is saved.

Checking the Authenticity of a Video Clip

If the **Authenticate exported video** option is selected when you export a video clip, the clip includes a digital authenticity seal. The authentication process ensures that the video has actually been exported from a VMS server and that it has not been edited in any way after it was saved on your computer. You can check the authenticity of the video evidence at any time.

To check the authenticity of a video clip

1 Open the video container folder in Windows.

2 Select the video evidence you want to check.

3 Right click the video and select **Authentication check**.

The system checks the authenticity of the video clip. If the file has been exported from a VMS server and has not been edited, the authentication is successful.

If the file has not been exported from a VMS server or has been edited by an external program, the authentication fails.

Chapter 18

SiteManager as a Portal

You can use SiteManager as a portal for the VMS server RemoteControl interface, as well as other VideoSphere applications and interfaces, such as the device's Web setup pages, and the VisionWeb server. In this way you can access the configuration tools for devices or servers without opening different windows.

Accessing VideoSphere RemoteControl

VideoSphere RemoteControl is the interface used to configure the VideoSphere VMS software. Using RemoteControl, you can add cameras to the VMS server, manage storage devices, and create recording sectors. For more information please consult the *VMS Configuration Guide*.

To access RemoteControl using SiteManager
- Right-click the VMS server in the graphical interface and select **Setup server**.

After a few moments RemoteControl loads and SiteManager automatically logs you on to the VMS server.

You can now configure the VMS server.

To access a camera page on RemoteControl using SiteManager

1   Double-click the VMS server on the graphical interface to connect SiteManager to the VMS server. If the connection is successful the word **connected** appears next to the server name.

2   Double-click again the VMS server and then **Cameras** to expand the tree menu, where the VMS cameras are listed.

3   Right-click a camera and select **VMS setup**.

    After a few moments RemoteControl loads and SiteManager automatically logs you on to the VMS server. The **Cameras Configuration** menu is automatically accessed.

    You can now configure the camera's options.

Accessing the VideoSphere Web Setup Pages

You can configure VideoSphere cameras and encoders using the Web setup, which is an intuitive Web page that allows you to set options on a Web page structure. The web setup appearance and structure is different for most of the VideoSphere devices.

Tip: You can also access the Web setup pages of cameras added to the VMS server using RemoteControl.

To access the Web Setup pages using SiteManager

1   Double-click the VMS server on the graphical interface to connect SiteManager to the VMS server. If the connection is successful the word **connected** appears next to the server name.

2   Double-click again the VMS server and then **Cameras** to expand the tree menu, where the VMS cameras are listed.

Right-click a camera and select **Edge device setup**. After a few moments the interface loads.

3   Specify the **user name** and **password** for the device and click **OK**.

4   After logging on, the **Setup** page loads and you can configure the device.

Note: The Web Setup may require the installation of a specific ActiveX control to display its content. Click the warning bar and select **Run Add-On**, and then click **Run** on the dialog box. After a few moments the Web Setup interface loads.

Accessing the VideoSphere VisionWeb Servers

All VideoSphere cameras and encoders have an integrated Web server, called VisionWeb, that allows you to access live video from every computer connected to the Internet using Microsoft Internet Explorer®.

The VisionWeb appearance and structure varies slightly for each VideoSphere device.

WARNING: The VisionWeb server can be accessed only if the VideoSphere device has been added to SiteManager as a server. For more information, see "Adding a VMS Server" on page 23.

To access the VisionWeb server using SiteManager

1   Right-click a VideoSphere camera or encoder in the graphical interface and select **Full interface**.

   After a few moments the interface loads.

2   Specify the username and password of the device.

After you log on, the VisionWeb interface loads and you can access live video from the device.

Note: VisionWeb may require the installation of a specific ActiveX® control to display its content. Click the warning bar and select **Run Add-On**, and then click **Run** on the dialog box. After a few moments the VisionWeb interface loads.

Chapter 19

Using the SiteManager Tools

SiteManager includes a number of useful integrated tools that you can use to create and consult a dynamic log, manage IDs, update the VMS server ActiveX® libraries on the client, and screen record your SiteManager activity.

Managing Active X Libraries

The ActiveX® manager allows you to view the status of the VideoSphere ActiveX libraries on the computer running SiteManager. The tool also allows you to update the ActiveX libraries for the VMS server and for the other VideoSphere devices.

To manage the VMS server ActiveX libraries

1   Click **Tools** on the menu toolbar and select **ActiveX manager**.

> After a few seconds the ActiveX Manager appears.
>
> The tool shows the status of the ActiveX libraries for every type of VideoSphere server or device that can be added.

2   The list can be sorted by **Name**, **Description**, firmware **Version**, and ActiveX installation **Path**.

3   You can update the VMS server ActiveX libraries using the ActiveX Manager tool by clicking the
     ⬆ button, typing the VMS server IP address, and clicking **OK**.

4   Repeat the steps 1-4 to update the libraries for the other VideoSphere devices.

Performing Metadata Searches on Multiple Cameras

The search engine is a tool that allows you to search for alarms, metadata, or text coming from text insertion device on multiple cameras belonging to different VMS servers.

WARNING: You can perform searches only on cameras added to VMS servers — software version 2.1.1 or greater.

To perform metadata searches on multiple cameras

1   Click **Tools** on the menu toolbar and select **Search**.

The search engine appears.

2   Select a camera or a server in the left graphical interface, drag it from the graphical interface and *drop* it into the **Search in** panel.

The camera/server icon appears on the panel.

3   After adding the required cameras/servers to the search engine, select an alarm or the text insertion feature from the drop down menu.

4   Refine the search by configuring the alarm advanced options.

Note: The advanced options are different for every alarm. For more information, see "Performing a Metadata Search" on page 127.

5   Click the ⌕ button to launch the search.

   After a few seconds the results appear in the bottom side of the search engine.

6   Double-click a result to open the related camera in the virtual desktop.

Tip: You can also display the camera on a monitor by right-clicking a result, pointing to **Send Camera #** to monitor and selecting the monitor.

7 Click the **Play** button ▷ to start video playback.

8 Adjust the playback controls as required. For more information, see "Playing Recorded Video" on page 132.

Finding VideoSphere Servers/Devices

The browser is an integrated tool that allows you to search the network for VideoSphere products (cameras, encoders, DVRs and VMS servers), and add them to the SiteManager. This integrated browser is a light version of the VideoSphere Browser (*Find my device*) search engine that is included as part of the VideoSphere software suite.

Note: For more information about using the browser, see "Adding a VMS Server" on page 23 and "Adding a VMS Server Using SiteManager's Integrated Browser" on page 27.

Managing Unique IDs

The IDs table is a database of all assigned IDs. The unique ID is an identifier for the resource and enables you to recall the resource with an external device, such as a keyboard. You can review the list of IDs or delete a unique ID in the IDs table.

To review the unique IDs

1   Click **Tools** on the menu toolbar and select **IDs table**.

2   The IDs table appears, and displays a list of resources and their unique IDs.

You can filter the IDs list by clicking the resource icons.

To delete a unique ID

1   Click **Tools** on the menu toolbar and select **IDs table**.

2   In the **IDs table**, select a resource in the list and click **Remove**.

Note: Deleting a unique ID does not affect any of the other SiteManager capabilities. SiteManager removes the unique ID without asking for confirmation.

To assign a unique ID to a resource

1   Click **Tools** on the menu toolbar and select **IDs table**.

2   Click **Add** to assign a new unique ID to one of the resources added to SiteManager.

The **Resource ID** menu appears.

3   Select the resource **Type**.

4   Select the **Server** (if applicable), to which the resource is connected.

5   Select the **Resource**.

6   Select the **Unique ID** number.

Note: SiteManager notifies you when a unique ID has already been assigned to another resource.

7   Click **OK** to assign the new ID to the resource.

Viewing the System Log

The **Log explorer** is a tool that allows you to navigate and search the system log. You can access the log in one of the following formats:

•   Text file format

•   Database format

For more information about configuring the log options, see "Configuring the Log Options" on page 168.

Viewing the System Log in Text File Format

When you select the Log on file option, you can view the system log as a text file. You can also retrieve or export the log.

To view the system log in text file format

1   Click **Tools** on the menu toolbar and select **Options**.

2   Click the **Log** tab.

3   Select the **Log on file** check box to automatically save the log as a text file.

4   Type the **Log file path** where you want to save the file, or click the browse button ⬚ and browse to the location.

5   Select the **Auto split size** check box to automatically create a new log file when the previous one reaches a specified size (in Kilobytes) and specify a file size.

6   Click **Advanced** to manually customize the database content by selecting or clearing the check boxes.

7   Click **OK** to confirm the log creation.

     You can now view the log using the Log Explorer.

8   Click **Tools** on the menu toolbar and select **Log explorer**.

     After a few seconds, the Log Explorer appears.

9   Select the log file using the drop down menu.

Tip: By default, the log explorer shows the latest log file.

10   Click the ↻ button to **Refresh** the log.

11   Click the ▤ button to **Split** the log file and create a new starting point.

     You can also search for a keyword inside the log using the quick search box.

Viewing the System Log in Database Format

When you select the Log on Database option, you can view the system log as a database that you can filter to quickly locate the entry in which you are interested.

To view the system log in database format

1   Click **Tools** on the menu toolbar and select **Options**.

2   Click the **Log** tab.

3   Select the **Log on database** check box to create a shared database.

4   Type the **Connection string** or select it by clicking the browse button ⌐. By default, SiteManager creates the database locally on the client; by selecting a shared folder, you can share the log on the network, and create a dynamic database of all the SiteManager installed.

5   Click **Advanced** to customize the database content by selecting or clearing the check boxes.

6   Click **OK** to confirm the database creation.

     You can view the log database using the Log Explorer.

7   Click **Tools** on the menu toolbar and select **Log explorer**.

     The Log Explorer appears.

8   Click the **Log on database** tab to access the log database.

     The filtering and searching options are displayed in the upper part of the database window.

9   Click one or more icons on the filtering toolbar to filter the database entries. The following table provides descriptions of the toolbar options.

Log on Database Toolbar

Icon	Action
	Filter by application.
	Filter by user and certificates.
	Filter by server.
	Filter by camera.

Log on Database Toolbar

Icon	Action
	Filter by auxiliary device.
	Filter by alarm.
	Filter by audio channel.
	Filter by talk channel.
	Filter by group.
	Filter by view and layout.
	Filter by map.
	Filter by web resource.
	Filter by monitor.
	Filter by event and action.
	Filter by export and recorder.
	Refresh the database.

10 Do any of the following to further refine the results:

- Filter the entries by **User** account or by the **Type** of action.

- Filter the entries according to time period by selecting the time zone (either **Local time** or **GMT** (Greenwich Mean Time)), and then selecting the **Start/End** options to filter the entries by a custom time range.

- Search for a keyword inside the log using the quick search box.

> The filtering process is automatic and the filtered entries instantly appear in the database. The entries are displayed in the lower part of the window.

11   Click a database entry to display additional details.

Recording Desktop Activity

SiteManager features an integrated screen recording tool that allows you to record all of the desktop activities on the client and create a video file with different resolutions and compressions.

To screen record SiteManager

1   Click **Tools** on the menu toolbar and select **Options**.

2   Click the **Screen recorder** tab.

3 Select the **Screen recorder is enabled** check box to activate the desktop recording feature.

4 In the **Path** setting, type the location in which you want to save the video, or select it by clicking the browse button ....

5 Select the video compression **codec**.

Tip: SiteManager is able to use most of the compression codecs installed on the client.

6 Select the video **Frame rate**.

7 Select the video **bitrate**.

8 Click **OK** to confirm the tool activation.

9 Click **Tools** on the menu toolbar and select **Start desktop recording** to start the recording process.

10 To stop desktop recording and create the video file, click **Tools** on the menu toolbar and select the **Stop desktop recording** to end the recording process. The video is now available at the specified location.

Impoting and Exporting the SiteManager's Configuration Files

SiteManager allows you to import and export configuration files in cab format.

WARNING: Importing a configuration file is a different operation than synchronizing with a shared configuration file. For more information, see "Setting the Configuration Files Options" on page 174.

To import a configuration file

1   Log out SiteManager by clicking **User** on the menu toolbar and selecting **Logout**.

  After a few seconds the current user is disconnected from the application.

2   Click **Tools** on the menu toolbar and select **Import configuration**.

3   SiteManager asks for a confirmation before continuing the import process. Type the administrator's password and click **Import**.

  A loading window appears.

4   Select the configuration file and click **Open**. After a few seconds the new configuration is applied to SiteManager.

WARNING: This operation destroys the current SiteManager's configuration! We recommend you save your current configuration file by exporting it performing the procedure described in the next section.

5   Log onto SiteManager to apply the changes.

To export a configuration file

1   Log out SiteManager by clicking **User** on the menu toolbar and selecting **Logout**.

    After a few seconds the current user is disconnected from the application.

2   Click **Tools** on the menu toolbar and select **Export configuration**.

3   SiteManager asks for a confirmation before continuing the export process. Type the administrator's password and click **Export**.

    A saving window appears.

4   Select the a location and click **Save**. After a few seconds the configuration is saved in a cab file.

Resetting the Administrator's Password

SiteManager allows to reset the administrator's password with a fast and secure procedure.

To reset the administrator's password

1   Log out SiteManager by clicking **User** on the menu toolbar and selecting **Logout**.

2   After a few seconds the current user is disconnected from the application.

3   Click **Tools** on the menu toolbar and select **Reset "admin" password**.

The authorization window appears.

4   Send an e-mail to milantechsupport@marchnetworks.com with the request code. March
Networks' Technical Support will provide you with an authorization code that allows the
administrator's password to be reset to the default one (Username: *blank* - Password: *no
password*).

5   Copy and paste the code in the **Authorization** field and click **Ok**.

The administrator's password is reset.

Chapter 20

Configuring SiteManager Options

The option menu allows you to quickly configure SiteManager. Using the option menu, you can set the main language, configure the window and desktop recorders, customize the appearance, manage logs and alarms, and set a proxy for the connection.

Configuring the General Options

The general options allow you to configure the preferred language, the video streams' priority, the login retry limit, and activate the Web resources feature.

To configure general options

1   Click **Tools** on the menu toolbar and select **Options**.

2   Click the **General** tab.

3   Configure the required options. The following table provides descriptions of the options.

General Options

Option	Description
Language	Select the software **Language**. The language changes after you close and reopen SiteManager.
Video display priority	Select the **Video display priority**; this option configures the priority of SiteManager video streams to the other client applications. Priorities include *Normal*, *High,* and *Time Critical*.
Enable automatic turn off of hidden video streams	Select the **Enable automatic turn off of hidden video streams** check box to allow SiteManager to automatically close resources in the virtual desktop when SiteManager is minimized.
Login retry limit	Specify the number of unsuccessful logon attempts permitted before a user is locked out of SiteManager.

General Options

Option	Description
Lockout duration	Specify the amount of time a user is locked out of SiteManager after the login retry limit has been reached.
Web resources activation	Click **Web resources activation** to generate the Request code to unlock the web resources feature. For more information, see "Unlocking the Web Resources Feature" on page 93.

4   Click **OK**.

Configuring the Input Device Options

The input device options allow you to configure external devices, such as a keyboard/joystick.

To configure the input devices options

1   Click **Tools** on the menu toolbar and select **Options**.

2   Click the **Input devices** tab.

3   Configure the required options. The following table provides descriptions of the options.

Input Device Options

Option	Description
Console keyboard	Select the **Console keyboard** check box to enable external devices in SiteManager, such as keyboards or joysticks.
Model	Select the device **Model**.
Port	Select the device **Port**.
Rate	Select the device **Rate** transfer.

Configuring the Log Options

You can activate and configure the Log on file and the Log on Database modes. For example, you can configure SiteManager to automatically save a logon file in text format, limit the size of the log files, or customize their content. For more information about the log usage, see "Viewing the System Log" on page 154.

To configure the log options

1   Click **Tools** on the menu toolbar and select **Options**.

2   Click the **Log** tab.

3   Configure the required options. The following table provides descriptions of the options.

System Log Options

Option	Description
Log on file	Select the **Log on file** check box to automatically save the log as a text file. For more information, see "Viewing the System Log in Text File Format" on page 154.
Log file path	Type the path to the folder where you want to save the log file or select it by clicking the browse button ⸬.
Auto split size	Select the **Auto split size** check box to automatically create a new log file when the previous one reaches a specified size (in Kilobytes).
Log on database	Check **Log on database** to automatically save the log in a database. For more information, see "Viewing the System Log in Database Format" on page 156.
Connection string	Type the database **Connection string** or select a new string by clicking the browse button ⸬. The default connection string saves the database locally, however you can share the database on the network.
Dump	Click **Dump** to clean the database.
Advanced	Click **Advanced** to customize the log content by selecting or clearing the check boxes in a new menu.

4   Click **OK**.

Configuring the Alarm Notification Options

The alarm notification options allow you to configure how SiteManager responds to alarms.

To configure the alarm notification options

1   Click **Tools** on the menu toolbar and select **Options**.

2   Click the **Alarm notification** tab.

3   Configure the required options. The following table provides descriptions of the options.

Alarm Notification Options

Option	Description
User alarm	Select the **User** account that will acknowledge the alarm if there are no users currently logged on to SiteManager.
Alarm central	Type the **Alarm central** address (if applicable). The alarm central is a server that collects and manages alarm notifications on the entire network. For more information, see "Editing the VMS Server" on page 32.
Maximum number of alarms to be processed at once	Select the **Maximum number of alarms to be processed at once** to configure the alarm processing limit depending on the client capabilities.
Bring to front on alarm notification	Select the **Bring to front on alarm notification** check box to give priority to an alarm notification over all of the other SiteManager functions.

4   Click **OK**.

Configuring the SMTP Settings

The SMTP settings allow you to configure an SMTP server (outgoing messages) for the *Send Email* event. For more information about this event, see "Editing Events" on page 100.

To configure a SMTP server

1   Click **Tools** on the menu toolbar and select **Options**.

2   Click the **SMTP setting**s tab.

3   Configure the required options. The following table provides descriptions of the options.

SMTP Options

Option	Description
Server name	Type the SMTP **Server name** (for example, mail.qqqq.net).
Port	Type the SMTP server connection **Port**.
Use Name and password	Select the **Use name and password** check box to allow SiteManager to automatically log on to the SMTP server.
User name	Type the **User name**.
Password	Type the **Password**.
Default sender	Type name of the **Default** e-mail **sender**.

4   Click **OK**.

Configuring the Screen Recorder Options

The screen recorder options allow you to activate and configure the desktop recording feature. For more information, see "Recording Desktop Activity" on page 160.

To configure the screen recorder

1   Click **Tools** on the menu toolbar and select **Options**.

2   Click the **Screen recorder** tab.

3   Select the **Screen recorder is enabled** check box.
4   Configure the required options. The following table provides descriptions of the options.

Screen Recorder Options

Option	Description
Screen recorder is enabled	Select the **Screen recorder is enabled** check box to activate the desktop recording feature.
Path	Type the video saving **Path** or select it by clicking the browse button ![...].
Video codec	Select the **Video** compression **codec**.
Frame rate	Select the output video **Frame rate**.
Bitrate	Select the video **Bitrate**.

5   Click **OK**.

Configuring the Window Recorder Options

The window recorder options allow you to activate and configure the window recording feature.

To configure the window recorder

1   Click **Tools** on the menu toolbar and select **Options**.

2   Click the **Window recorder** tab.

3   Select the **Window recorder is enabled** check box.
4   Configure the required options. The following table provides descriptions of the options.

Window Recorder Options

Option	Description
Window recorder is enabled	Select the **Window recorder is enabled** check box to activate the desktop recording feature.
Path	Type the video saving **Path** or select it by clicking the browse button 🔲.
Video codec	Select the **Video** compression **codec**.
Frame rate	Select the output video **Frame rate**.

5   Click **OK**.

Setting the Configuration Files Options

The configuration file options allow you to save SiteManager configuration files in a shared folder to automatically synchronize all the SiteManager applications installed over the network. For more information, see "Sharing the SiteManager Configuration Settings" on page 16.

To share configuration files

1   Click **Tools** on the menu toolbar and select **Options**.

2   Click the **Configuration** tab.

3   Configure the required options. The following table provides descriptions of the options.

Configuration Files Options

Option	Description
User accounts data — Local	Click **User accounts data — Local** to save the user account configuration file on the computer.
User accounts data — Shared folder	Click **User accounts data — Shared folder** to save the user account configuration file in a shared network location. Type the saving file path or select it by clicking the browse button ⌐.
Site configuration data — Local	Click **Site configuration data— Local** to save the SiteManager resource configuration file on your computer.
Site configuration data — Shared folder	Click **Site configuration data - Shared folder** to save the SiteManager resource configuration file in a shared network folder. Type the saving file path or select it by clicking ⌐.

Configuration Files Options

Option	Description
Hide configuration out of sync messages	Select the **Hide configuration out of sync messages** check box to minimize the synchronization notification dialog box.

4   Click **OK**.

Note: When the configuration is shared, SiteManager automatically checks for configuration update at startup.

If a configuration change is detected a notification dialog box appears.

Click **Yes** to apply the configuration changes, or click **No** to discard the changes.

Tip: You can also minimize the notification dialog box in the Log Actions tab by selecting the **Hide configuration out of sync messages** check box.

Double-click the warning message to synchronize the configuration

Customizing SiteManager's Appearance

The visualization options allow you to customize SiteManager's appearance.

To customize SiteManager's appearance

1   Click **Tools** on the menu toolbar and select **Options**.

2   Click the **Visualization** tab.

3   Configure the required options. The following table provides descriptions of the options.

SiteManager Appearance Options

Option	Description
Metadata colors	Edit the VideoSphere Analytics **Metadata color** patterns by clicking on a color and selecting a new one from the drop down menu.
Video font size	Select **Video font size** for the super imposed text between *Auto*, *Small*, *Medium* and *Large*.
On screen image details	Select the **On screen image details** format between *Average Bandwidth* and *Instant size*.

4   Click **OK**.

Configuring the Proxy Settings

The proxy settings allow you to configure a proxy server for the resources connection.

To configure a proxy server

1   Click **Tools** on the menu toolbar and select **Options**.

2   Click the **Proxy Settings** tab.

3   Configure the required options. The following table provides descriptions of the options.

WARNING: Consult your network administrator before configuring a proxy server. An incorrect proxy server setting may result in serious connection problems for SiteManager.

Proxy Settings

Option	Description
Proxy type	Select the **Proxy type**. This option makes the **Host**, **Port**, **User**, and **Password** boxes available.
Host	Type the proxy **Host** address.
Port	Type the proxy connection **Port**.
User	Type the proxy user name.
Password	Type the proxy **Password**.

4   Click **OK**.

Configuring the Text Insertion Options

The Text Insertion options allow you to configure the position, color, and duration on screen of text coming from text insertion devices.

To configure the text insertion options

1   Click **Tools** on the menu toolbar and select **Options**.

2   Click the **Text insertion** tab.

3   The left part of the tab represents the position of the text (the red box) on the image. To move it, place the mouse cursor in the center of the text box, and then click and drag it to a new position.

4   To resize the text box, place the mouse cursor over one of the borders or edges, until it becomes a double-edged arrow. With your mouse cursor over the arrow, click and drag to resize the text box.

5   You can also add other text boxes if more than one text insertion device is linked to a camera. To add a new text box, click the ✚ button.

A new text box appears.

5   Configure the required options. The following table provides descriptions of the options.

Text Insertion Options

Option	Description
ID	Type the text insertion device ID to assign it to the text box.
Top % - Left % - Bottom % - Right %	Manually refine the position of the text on the screen.
Duration	Select the duration of the text on the screen.
Color	Select the text color. You can choose between **Default** (White) and **Inverted** (Black).

6   Click **OK**.