tyco | American Dynamics

victor Client

Operation Guide

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Johnson Controls

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Table of Contents

Overview

About this document

This document is primarily designed for system operators, it is not intended as a guide for installation or object configuration.

For configuration information, refer to the *victor Administration Guide*.

victor

victor is part of a powerful NVMS that includes advanced policy management, health monitoring, Smart Search, instant playback, and more, ensuring the security and safety of your entire organization whether a single site, or a multi-location, globally dispersed enterprise.

victor Express

As part of the victor Client portfolio, victor Express offers the ability to manage video from multiple Intellex, and VideoEdge NVR/Hybrid recorders from a single intuitive interface.

By removing the victor Application Server requirement which provides more enterprise functionality victor Express utilizes SQL Express Localdb to provide single site applications a powerful way to manage multiple recorders.

Components

victor Client (victor)

victor unifies security, surveillance, and event management. From a single interface, you can manage live/recorded video from Intellex DVRs, VideoEdge NVRs, ADTVRs and HDVR hybrid recorders.

victor is designed to handle the high throughput of HD and megapixel cameras and manage real-time alarms and events. The victor solution scales from a single site to multi-location global deployments and simplifies management of large, geographically dispersed security operations.

The victor solution includes advanced policy management, health monitoring, Smart Search, instant playback, and more, ensuring the security and safety of your entire organization. Analog, IP video and cameras can be displayed simultaneously, all with a common feature set, no matter what the codec (H.264, ACC, MJPEG, MPEG-4) allowing you to mix and match technologies without toggling between separate client applications.

The intuitive design includes advanced features such as tear off, snap, auto hide, tab, and dock windows, providing an easy and customizable operator experience.

An easy-to-use tree structure puts everything at your fingertips. Create and organize camera lists from multiple Intellex, HDVR, and VideoEdge recorders (any camera from any recorder) to meet the needs of different operators. Build video tours, salvos, and saved views, then organize them into victor's customizable and easy-to-use site lists for rapid response.

Motion-based Smart Searches are run on a database of meta-data instead of searching through hours or weeks of video. This makes incident investigations incredibly easy and fast. Add advanced video analytics to your VideoEdge NVRs to increase situational awareness with alarms for trip wire, linger, object removed/abandoned and more.

victor Application Server (Server)

victor Application Server stores all data, operator profiles, roles, camera/recorder information and access controls objects.

Dual modes of user authentication allow users to log in using Active Directory credentials or through a ‘Basic’ method which does not require a domain controller.

Using Microsoft Active Directory, operator profiles are portable which allows users to move from one victor Client to another and their credentials follow them, regardless of the PC.

Restrict what devices and features an operator can access by assigning roles using victor's included policy management. Permissions can be set system wide for a specific camera.

Any feature can be limited and updated as situations warrant. victor also journals and tracks what has happened on your systems, such as operator activities, search and export history, creating an audit trail.

victor player

victor player is the standalone video player application which can be exported along with digitally-verified video clips to enable the playback of exported video clips in native format without requiring the full installation of the client.

victor Command Center

The victor Command Center lets you build your own security operation center (SOC). You can manage thousands of cameras and multiple locations, creating video walls using standard PCs. Video walls are a key component to monitoring large camera counts. Share and communicate information between operators and pushing live or recorded video from one monitor to another - to ensure rapid response to critical events. You can expand your system by adding victor Client and agent licenses, to meet the needs of your organization.

Introduction

This section describes how to launch the client and provides an overview of the main Graphical User Interface (GUI).

It is important to read this section as it provides useful user information on a number of basic/common tasks which are not repeated throughout the manual and are not related to specific object types or scenarios.

Starting victor Client

Note:
• Before you start victor Client, ensure that all victor services are running
• Initial sign-in must be from the windows user account under which the client was installed. (During installation, a client user is created called **Installer Account**. Because this is the only user which exists at this time and victor Client uses Windows authentication, it is important that this user is logged in to Windows.)

1 Double-click the **victor Client** icon on the desktop. The client sign-in dialog appears.

Note:
Sign-in occurs automatically when you first launch victor Client.

2 Select the **Authentication Method** for the operator - Windows or Basic

3 Enter **Username** (Windows Username of the installer account if this is the first login).

4 Enter **Password** (Password of the Installer Account).

Note:
Blank passwords are not accepted.

5 Select **Domain** and **victor Application Server** as required

6 Select **OK** to log in.

The victor Client workspace

The default layout for the client contains the Navigation bar, the Quick action bar and a 2 x 2 Surveillance window. The tools and buttons that are available on each tab may vary, depending on the components that are installed, the licenses that are applied, and the role of the logged in user.

Figure 1: Default victor Client layout

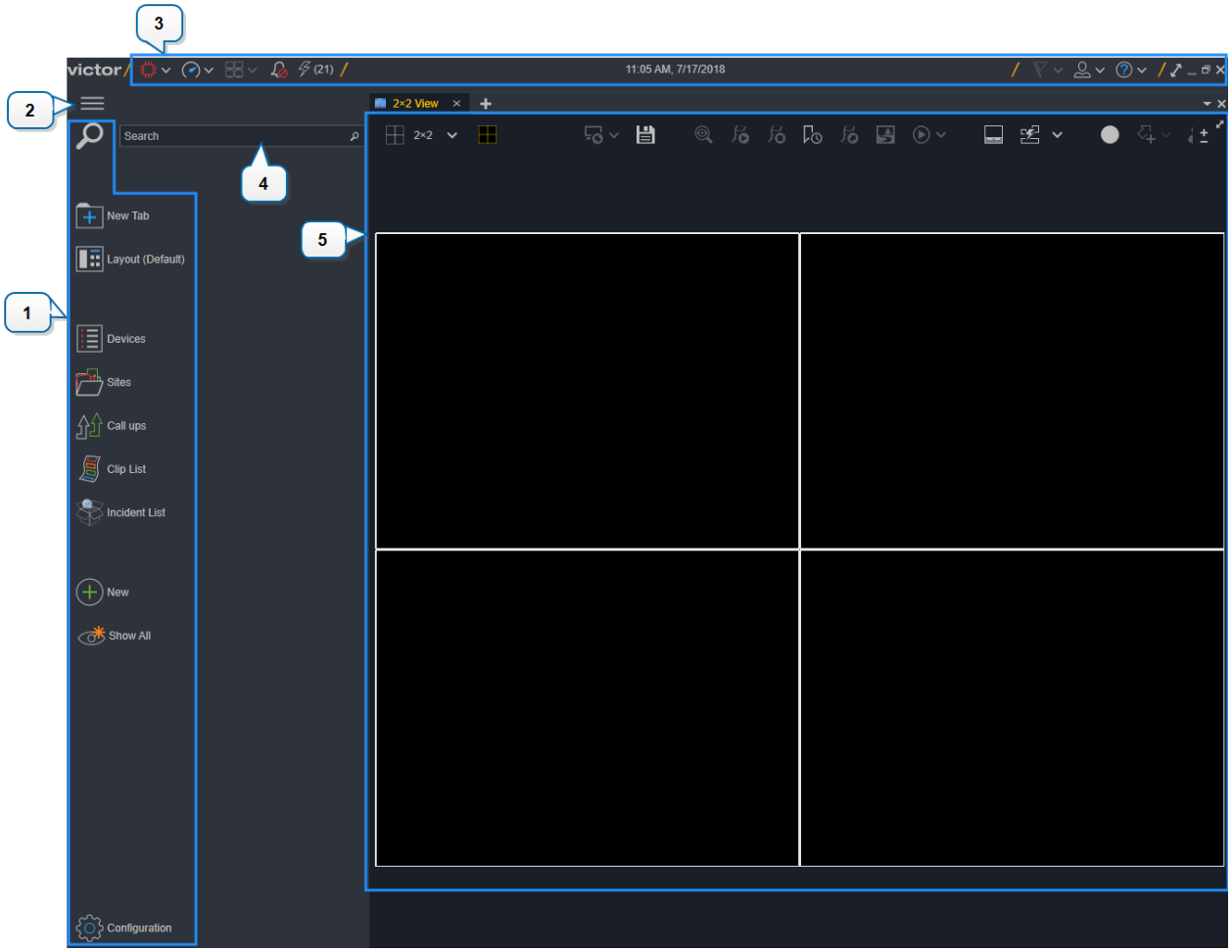


Table 1: Default layout elements

Number	Element
1	The Navigation bar
2	Expand or collapse the Navigation bar
3	The Quick action bar
4	The Search bar
5	A Surveillance window

The Quick action bar

The Quick action bar is a static display of system-level Information. The following table shows the Quick Action Items that you can access from this menu:

Note:
Some menu options may be restricted by role permissions.

Table 2: Quick action bar icons

Icon	Name	Description
	Health status	Select this icon to view the CPU usage, Memory usage, Disk usage and Network usage.
	Bandwidth settings	Select this icon to configure the bandwidth settings for victor Client.
	Virtual Matrix	Select this icon to quickly switch between configured virtual matrices.
	Silence alerts	Select this icon to mute the sound that plays when an event triggers in victor Client.
	Active alerts	This icon displays the number of active alerts. Select the icon to open the Event Viewer.
	Status messages	Select this icon to view any error messages that are detected by the client. For example 'Recorder has reached its maximum number of clients'
	Operator menu	Log out of victor Client, or log in as a different operator.
	Help menu	Select this icon to open the help menu. From the help menu, you can select the following options: Help, view Training Videos, Support, Languages, About
	Maximize	Select this icon to hide the Quick action bar and resize the victor Client window.

The Navigation bar

The Navigation bar contains the controls for using and configuring victor Client.

Note:
Some menu options may be restricted by role permissions.

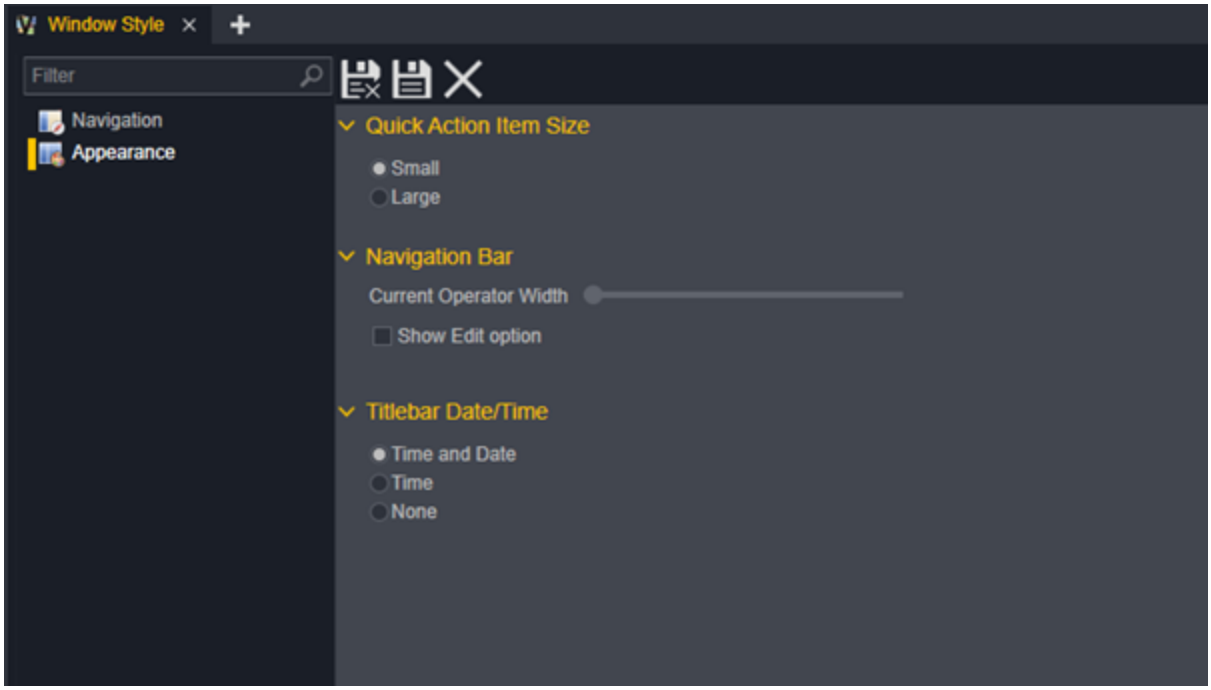
Table 3: Navigation bar icons

Icon	Name	Description
	Search	Opens the Search menu. From this menu you can view search results. If you run a search and then close this menu and reopen it during the same session, the most recent search results still display.
	New Tab	Opens the New Tab tile menu. From this menu you can open a Surveillance window, the Event Viewer, the Incident List.
	Layout	Opens the Layouts list in the navigation pane. From this pane you can create, save, refresh and switch layouts.
	Devices	Opens the Devices list in the navigation pane. From the Devices list you can manage devices that you add to victor Client.
	Sites	Opens the Sites list in the navigation pane. Use the Sites list to create and configure Site folders.
	Call ups	Open the Call ups list in the navigation pane. From the Call ups list, you can create and configure Saved Views, Salvos, Tours, Virtual Presets and View Switches.

Icon	Name	Description
	Clip List	Opens the Clips list in the navigation pane. From the Clips list, you can import clips, organize and manage existing clips, and export or verify clips.
	Incident List	Opens the Incidents list in the navigation pane. From the Incident list, you can create and manage Incidents and Incident contents.
	New	Opens the New item tile menu. From this menu you can create new objects, for example, Events, Maps, Operators, and Incidents.
	Edit	Opens the Edit item tile menu. From this menu you can select an existing object to edit, for example, Maps, Events, or Operators. **Note:** From version 5.7+, the Edit icon is disabled by default. See "Enabling the Edit icon".
	Show All	Opens the Show All tile menu. From this menu you can select an object type to open in a dynamic view. For example, select Recorder from this menu to open a Dynamic view of all the recorders that are connected to victor Client.
	Configuration	Opens the Configuration settings hub menu. From this menu you can access the victor Client settings menus, such as Event/Action Pairing, License Plate management, Window Style, and Settings.

Enabling the Edit icon

Figure 2: Enabling the Edit icon



1 Click the **System Configuration** icon, then click **Window Style**, and then click **Appearance**.

2 In the **Navigation** section, select **Show Edit option**.

The Search bar

You can use the search bar to search for any objects that are added to victor Client. You can search for objects from the following menus:

- The Devices list
- The Sites list
- The Clips list
- The Call ups list
- The Incidents list
- The New Tab menu
- The Create new item menu
- Object Dynamic Views

When you run a search query, search results appear in the search menu. You can interact with objects that appear in the search results. For example, you can drag and drop recorders or cameras onto actions that you create, or you can right-click on an object to access its contextual menu. You can also access dynamic views for an object type. For example, if you search for the term recorder, you can select the Show All Recorder option from the search results.

If an incident or a clip folder appears in the search results, the contents of that incident or clip folder also appear.

Search results persist until you enter a new search query, or until you log out of victor Client. If you close the Search menu, you can reopen it to view the most recent search results.

Figure 3: Interacting with search result objects

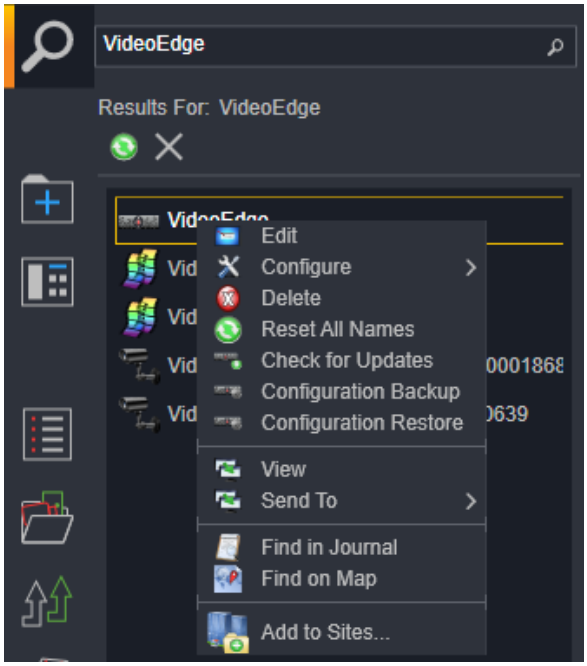
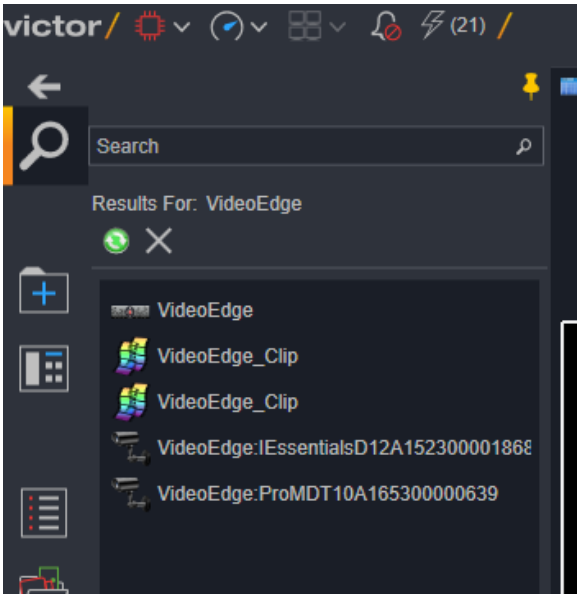


Figure 4: Viewing previous search results



Save and Close options

When you create or edit an object, Save and Close options appear in the object editor. The following table describes each option's function.

Icon	Function
	Save the object and close the object editor
	Save changes to the object and do not close the editor
	Save the object and create a new object of the same type
	Close the object editor and do not save the object

Changing the victor language or culture

You can change the language or culture of the text displayed on the application Graphical User Interface (GUI). After you select a new language, you must restart victor Client for the changes to take effect.

1 From the Quick action bar, click the **Help menu** icon.

2 From the **Help** menu, select the **Languages** button.

3 From the **Language Selection** dialog, select a language from the list and then click **Select**.

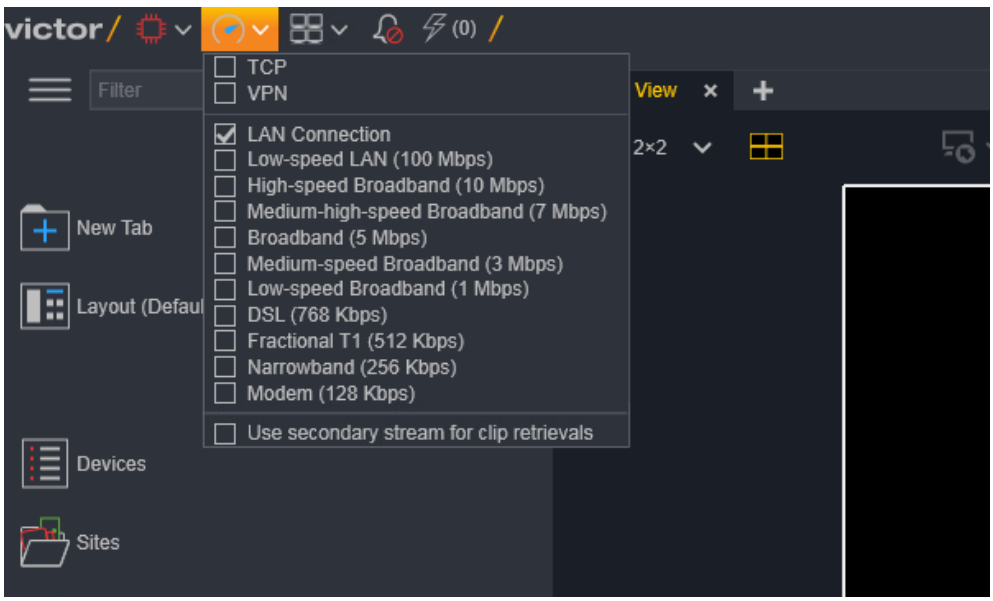
4 Restart victor Client to view the GUI in the new language.

Changing bandwidth configuration settings

Current bandwidth and CPU usage is displayed on the Quick action bar. Select the Bandwidth icon to display the Bandwidth settings menu.

You can configure bandwidth settings to reflect the capabilities of your network. Bandwidth is selected from a list of network types which define a maximum bit-rate value to be received from video servers.

Figure 5: Bandwidth settings



The client allocates a bandwidth limit to each individual active stream by intelligently distributing the total bandwidth limit associated with the chosen network type.

The ability to change bandwidth type is based on the role allocated to the active user.

Note:
• Bandwidth throttling may degrade video quality.
• When you apply Bandwidth throttling, the ⚠ symbol appears on the video stream for five seconds.
• When a stream stops due to client bandwidth configuration, the ⚠ symbol displays.

Virtual Private Network (VPN)

When using a VPN connection, selecting the VPN option from the Quick action bar changes two settings for VideoEdge:

- The VideoEdge will obey the WAN Bitrate Cap set in its Network>General menu.
- Stream communication is carried out in TCP mode (default is UDP).

Logging out or switching operator

To log out, select  from the Quick action bar, then select **Logout**. The current operator is logged out and the login window appears.

To switch operator, select  from the Quick action bar, then select **Login**. The login window appears but the current operator remains logged in until a new operator is authenticated.

Configure Window Style

From the Window Style page, you can configure navigation and appearance settings for victor Client. To access the Window Style page, select  , then select **Window Style**.

Navigation

You can configure the following settings from the Navigation section of the Window Style page.

- **Navigation Pane Auto Close Speed** - The Layouts, Devices, Sites, Callups and Clips lists all open in a Navigation pane. By default, this pane closes automatically after a fixed period of time. Select one of the following options, then select **Save**:
  - Slow (6 seconds)
  - Medium (4 seconds)
  - Fast (2 seconds)
  - Instant
- **Hub menu performance** - Select this checkbox to filter empty items from the Edit and **Show All** tile menus.

  After you configure the navigation settings, select **Save** to apply the changes.

Appearance

You can configure the following settings from the Appearance section of the Window Style page.

- **Quick Action Item Size** - Select the size for the Quick Action items in the Quick action bar. Select **Small** or **Large**.
- **Navigation Bar** - Move the slider to adjust the Navigation pane's width.
- **Theme** - Select a **Light** or **Dark** theme for victor Client.

Note:
• You must restart victor Client for the Theme change to take effect.
• This setting applies to all operators that log into the same workstation.

Figure 6: Light Theme

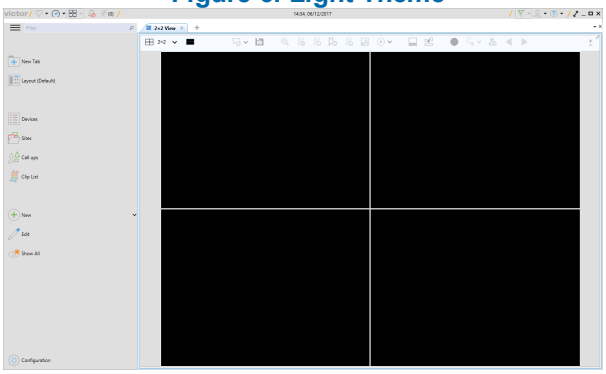
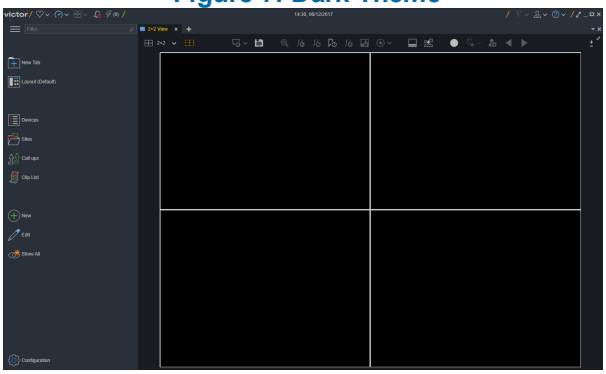


Figure 7: Dark Theme



- **Titlebar Date/Time** - Select which Time and date settings to display in the Quick action bar. Select one of the following options:
  - Time and Date
  - Time
  - None

  After you configure the Appearance settings, select **Save** to apply the changes.

Common Tasks

There are certain user actions within the client which are identical for all object types and therefore are not repeated in each chapter. Most notably these are:

- **Show All** (Dynamic Views)
- **Refresh Hardware**
- **Object Selector**
- **Object Selector**
- **Cycle Active Tools and Windows**

Opening an object list (Dynamic View)

1 Select  from the Navigation bar.
2 Select an object icon. A List of all selected object types displays.

Refreshing hardware objects

The procedure to refresh hardware is identical for all object types.

1 Select  to open the Device List.
2 To refresh all objects of a single type:
   a Right-click the Parent object.
   b Select **Refresh**. All objects of that type refresh.
3 To refresh individual objects:
   a Select next to object type to expand the selection.
   b Expand any other parent folders as required.
   c Right-click the object to be refreshed.
   d Select **Refresh**. The object refreshes.

Using the Object Selector

The Object Selector is used throughout the client to select objects. It is used for Administration, for example, to select role exceptions.

1 Select 
Object Selector appears.
2 Select the object type from the **Type** column. **Object** column will be filtered based on type.
3 Select object from the **Object** column.
4 Select **OK**.

Cycle Active Tool Windows and Files

For easy navigation between open victor Client tabs, you can cycle between active tool windows and files.

Hold Ctrl and press Tab to open a dialog displaying active Windows and files. Cycle the active items by pressing Tab until the required item has focus in the dialog.

Release Ctrl to focus on the required item.

Accessing Technical Support contact information

You can access contact information for American Dynamics Technical Support from the Technical Support page. The Technical Support page also contains buttons that can launch TeamViewer and the TYCO Diagnostics Utilities.

1 Select the menu button,  from the Quick action bar. Dropdown menu appears.
2 Select **Support**. Support page displays.
3 Expand section for your region to display Technical Support contact information.

Launching Remote Access

When you install victor Client, you can also install a customized version of TeamViewer. You can use TeamViewer to enable a remote connection to your victor Client PC from another PC with TeamViewer installed. You can launch the program from the Technical Support page.

Note:
To use TeamViewer, you must have an internet connection.

1 Select the menu button,  from the Quick action bar. Dropdown menu appears.

2 Select **Support** to open the Technical Support page.

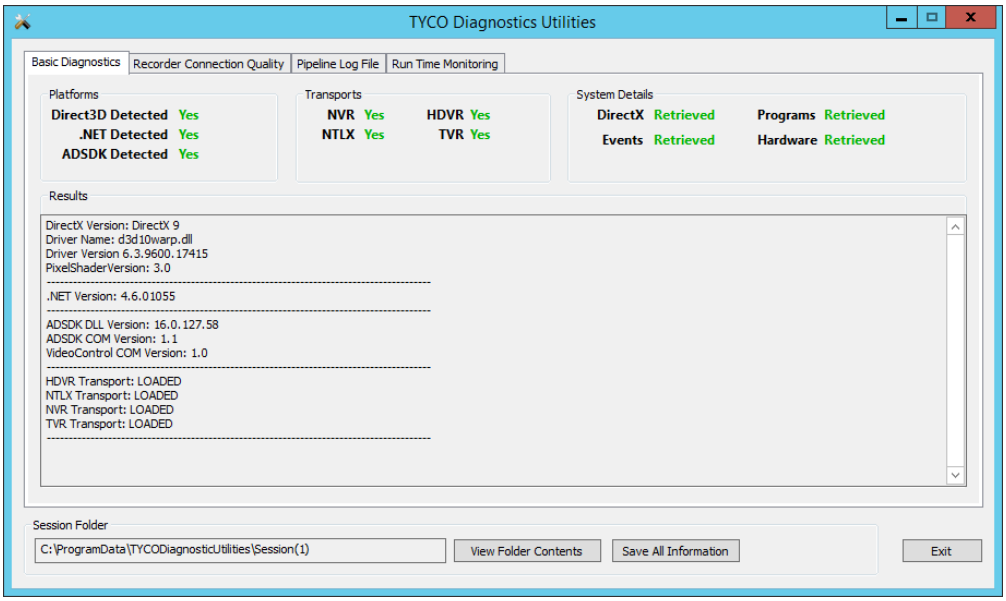
3 Select **Launch Remote Access**.

Diagnostics Utilities

You can also launch TYCO Diagnostics Utilities from the Technical Support page. You can use these utilities to scan your system for performance issues and potential sources of errors.

Basic Diagnostics: The basic diagnostics utility checks that all platforms and transports are running and that the system details have been retrieved. Diagnostic results appear in the Results field. Select the **Save All Information** button to save the diagnostic results to the session folder.

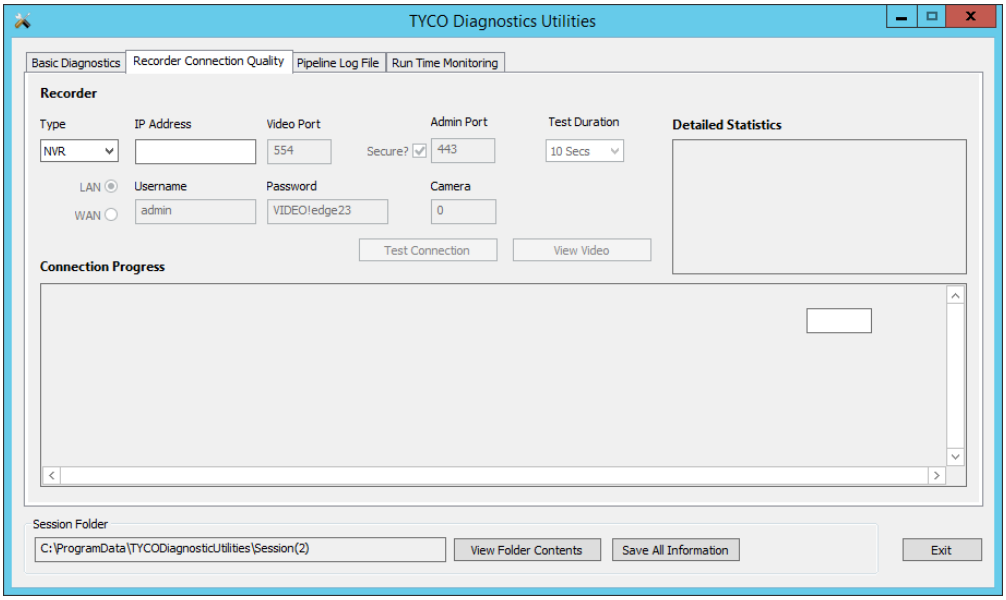
Figure 8: Basic Diagnostics



Recorder Connection Quality: Enter address and login credentials for a recorder that you want to test. You can test the network connection, and you can view video footage from any cameras that are connected to the recorder.

Note:
For slower networks, select a longer time from the **Test Duration** dropdown list.

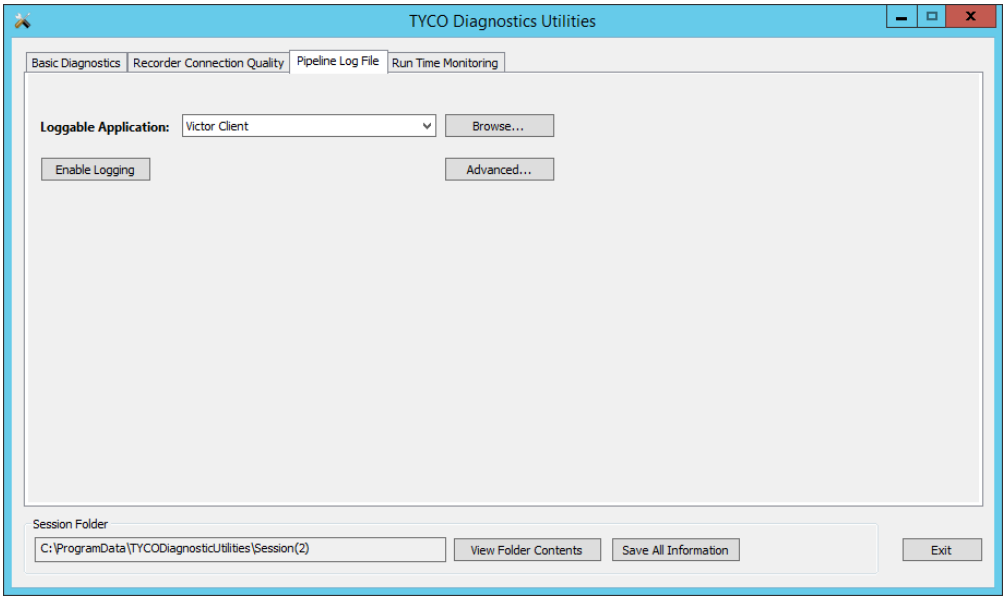
Figure 9: Recorder Connection Quality



Pipeline Log File: Enable logging on victor Client. Select the **Advanced** button to filter the information that is logged. Select the **Save All Information** button to save the logging information to the session folder.

Note:
• Enabling trace level logging or high levels of logging can affect system performance.
• If you restart victor Client while logging is enabled, the logging returns to its normal settings.

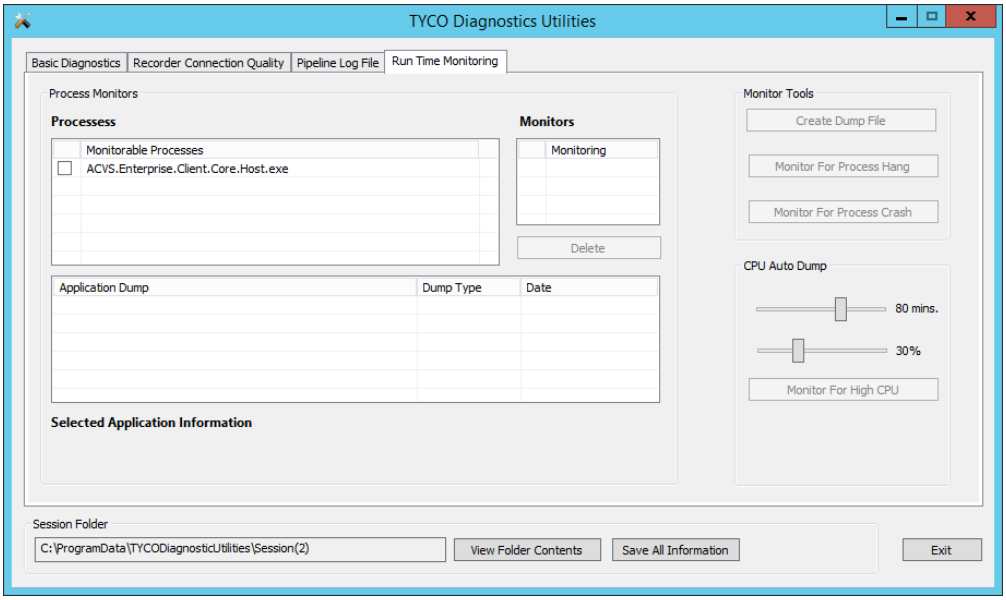
Figure 10: Pipeline Log File



Pipeline Log File: Monitor victor Client's performance, create dump files and monitor processes for crashes. You can also enable automatic crash dumps for selected time intervals.

Select the **Save All Information** button to save the monitoring information to the session folder.

Figure 11: Run Time Monitoring



Launching Diagnostic Utilities

1. Select the menu button,  from the Quick action bar. Dropdown menu appears.
2. Select **Support** to open the Technical Support page.
3. Select **Launch Diagnostic Utilities**.
4. Select a utility tab.
   - **Basic Diagnostics** - Scans your system's software and hardware.
   - **Recorder Connection Quality** - Connect to a recorder on your network.
   - **Pipeline Log File** - Enable or disable DEBUG logging for victor Client.
   - **Run Time Monitoring** - Monitor the performance of selected processes.
5. Select **View Folder Contents** to access diagnostic information from the session.
6. Select **Exit** to close the diagnostic utilities.

Devices List

The Devices list provides a means of displaying and controlling all hardware configured in the system in a single window. It is primarily used to interact with system hardware from object icon's context menus.

The Devices list displays a tree view of all hardware devices configured on the system that are available to the current user. To display the Devices list, select the Devices icon from the Navigation bar.

Figure 12: The Devices list

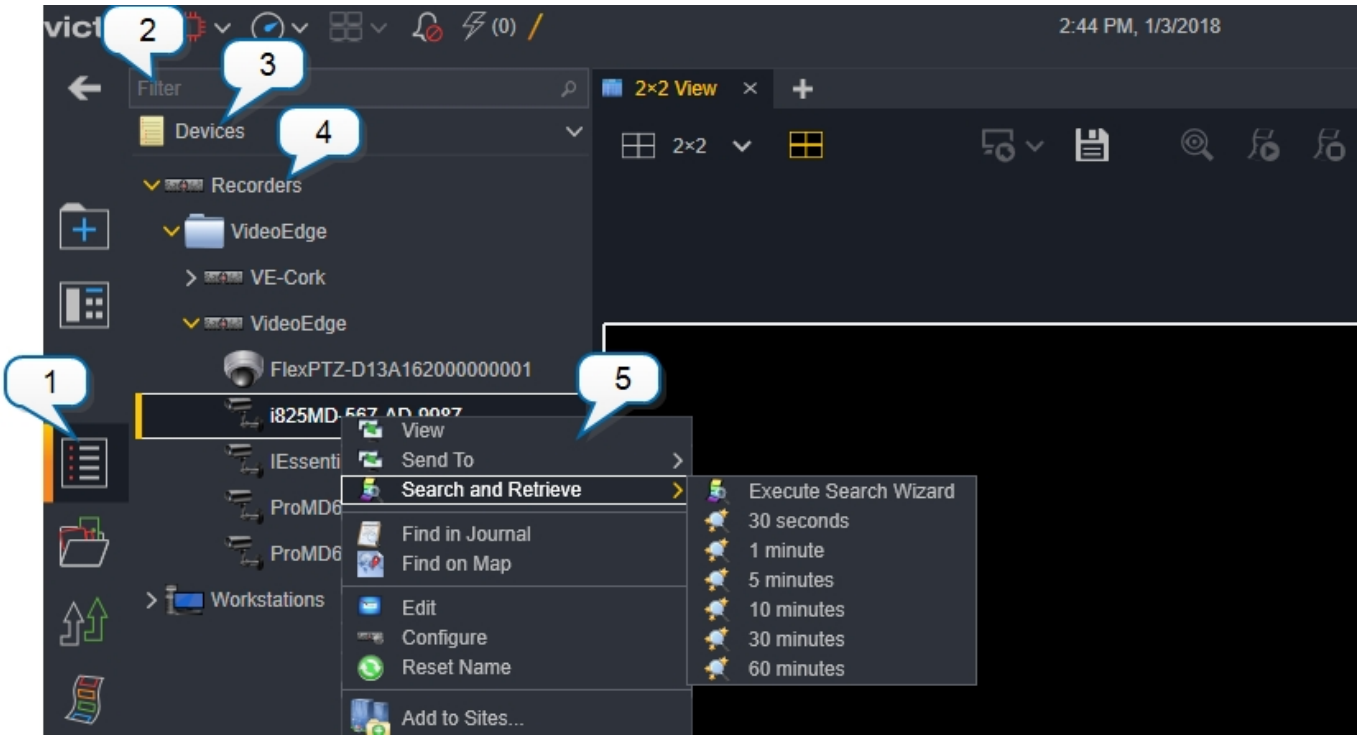


Table 4: Devices list elements

Number	Description
1	Select the Devices icon to open the Devices list.
2	Type information into the Filter field to filter the Devices list sub-menus. You can filter device groupings, for example recorders or workstations, but you cannot filter the entire Devices list.
3	Select a device type from the dropdown menu to filter the Devices list.
4	Root node for an object type.
5	Right-click an object to display additional options and actions.

Object Association

The concept of Object Association refers to linking together otherwise unrelated objects with the intent of enhancing incident building capability. For example, you can associate an intercom panel with a camera, so that you can view video footage of users interacting with the intercom.

The feature enables a '**Review**' option on the context menu of associated objects. Selecting **Review** opens a guard surveillance view displaying the source object and up to five associated objects.

After associations are made, the Review feature is accessible in three areas of the client; Reports, Event Viewer and Activity List.

Note:
• Objects can reference other objects of the same type but cannot reference themselves.
• Certain supported objects, for example, doors, which do not display video, will not display the Guard surveillance view. In these cases, a Map view will open displaying the object's location (if configured on Maps).
• If a source object has no associations, selecting Review will return a view of the type.
• If the source object is a non-video object and has no associations, the review feature will not be available for any related events or alerts.
• For the feature to function properly, it is recommended all associated objects are synchronized to a common NTP server.

Typical Use Cases

1 Motion Alarm has been triggered and the associated Event Acknowledged. The user still needs to view video associated with the Alarm.
Without Object Association, reporting capabilities only show you the time of the alarm. The user must open a surveillance window, drag in the camera that caused the alarm and navigate back to the time of the alarm using the report data.
With Object Association, the user simply selects the Review option from the report item to perform all the above functionality automatically.

2 Building on Use Case 1, if there are more cameras associated with the alarm.
Without Object Association the user must find them and drag each camera individually into a surveillance window and navigate to the time of the alarm.
With Object Association, the Review feature launches investigator mode and displays all associated camera views.

3 Similar to **1** and **2** but related to **Non Video** devices, for example, Doors. If a door is forced and an event activated, the feature can be used to view video from associated cameras in the door's vicinity.

Review Feature

The **Review** option is exposed in three areas of the client:

- **Reports**: When associations are configured, the source can be accessed from report items by selecting **Review** in the item's context menu.
- **Event Viewer**: When associations are configured, behavior is similar to that of Reports but the source is the cause of the event. The source can be accessed by selecting **Review** in the context menu of the Event Viewer item.
- **Activity List**: When associations are configured, the source of the activity list items can be accessed by selecting **Review** from the context menu of Activity list items.

Viewing Associations from Reports

You can view object associations directly from report items. If an object has associations to other system objects, the 'Review' option will display on that object's report item's context menu.

1 Generate a system report.

2 Right-click a report item that is related to an object with associations.

3 Select **Review**. Depending on object type, the appropriate view opens displaying the source object and any associated object views.

Note:
If Salvos are associated with the source object, they will display in separate tabs.

Viewing Associations from the Devices list

You can view object associations from the Devices List. If a camera is associated with one or more objects, the **View Associated Videos** option is available from that camera's context menu.

1 Select 

2 Expand the **Recorders** group and navigate to the required recorder.

3 Expand the recorder to display its cameras.

4 Right-click the camera to be edited.

5 Select **View Associated Videos** to open a surveillance window that contains the object, and up to five associated objects.

Viewing Associations from Event Viewer

You can view object associations directly from the Event Viewer. If an event is triggered by an object that has associations, you can select the Review option from the Event Viewer entry.

1 Select  , then select **Event Viewer**.

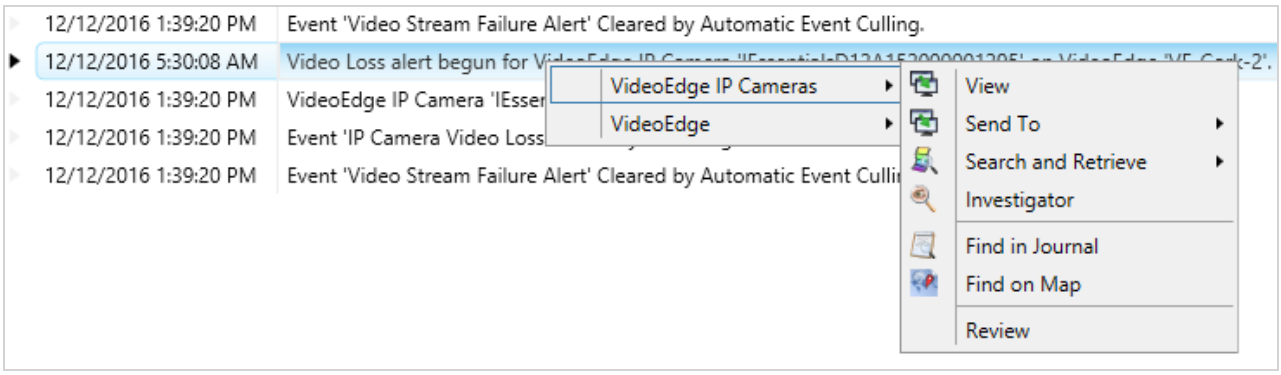
2 Right-click an event which was triggered by an object with associations.

3 Select **Review**. Depending on object type, the appropriate view opens displaying the source object and any associated object views.

Note:
If Salvos are associated with the source object, they will display in separate tabs.

Viewing Associations from Activity List

You can view object associations directly from the Activity List. If an activity list item is related to an object with associations, the Review option is available on the Activity List entry.



1 Select , then select **Activity**.
The Activity list opens.

2 Right-click the item from which to view associations.

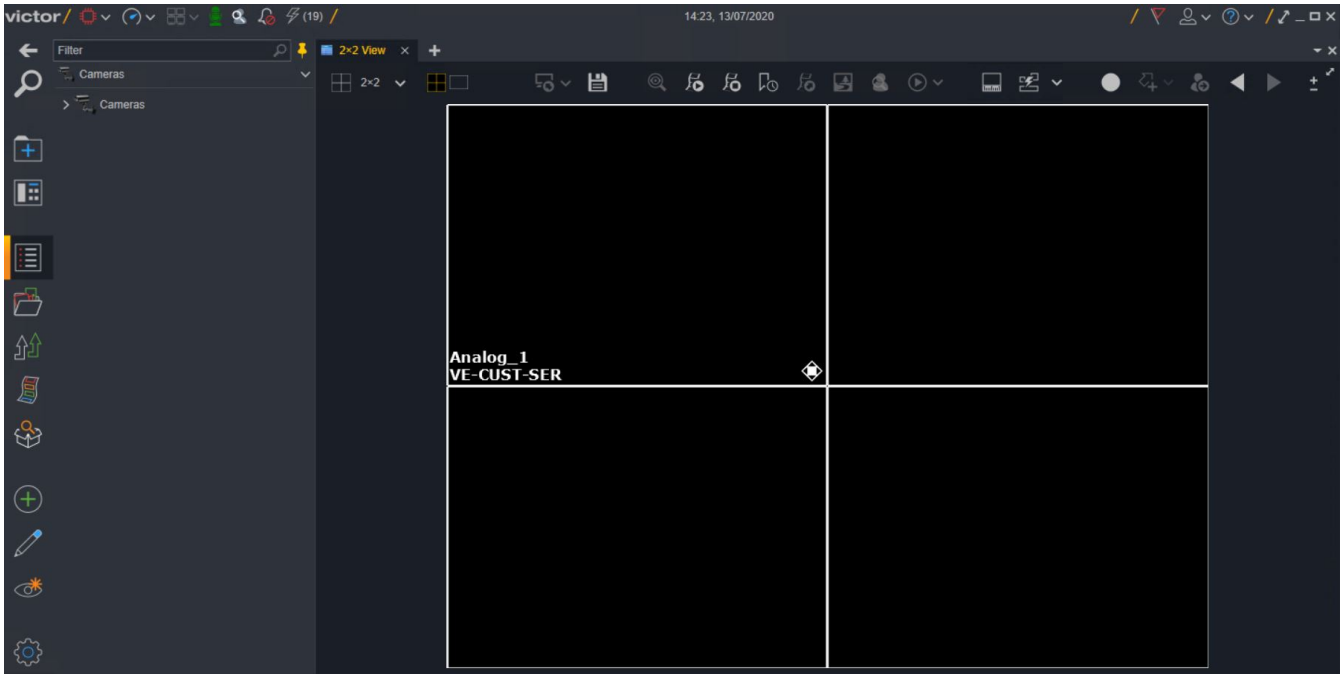
3 Select **VideoEdge IP Cameras**.

4 Select **Review**. Depending on object type, the appropriate view opens displaying the source object and any associated object views.

Note:
If Salvos are associated with the source object, they will display in separate tabs.

Surveillance allows users to view live video from recording devices. Video can be viewed by dragging cameras from the device list into surveillance panes or by using Call ups to display video from existing Tours and Salvos. Objects that have associated video, Doors for example, can also be dragged into the surveillance panes. Any associated video will display in the pane.

Figure 13: The surveillance window



Surveillance controls

Surveillance controls appear above the surveillance window. You can use these controls to customize the appearance of the surveillance window, to configure object tracking options, and to create clips, images and bookmarks.

Figure 14: Surveillance controls

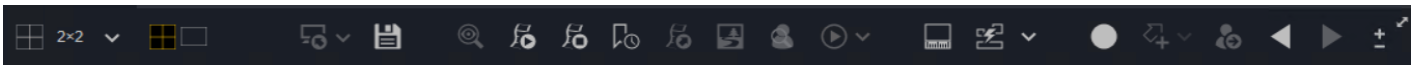


Table 5: Surveillance controls icons

Icon	Description
	Select a video layout from the dropdown menu.
	The previous three video layouts appear in this section. The current layout is highlighted.
	Select a Salvo or Saved View to display.

Icon	Description
	Save the surveillance layout as a fixed view.
	Launch Investigator mode.
	Clip creation tools. Use these icons to create video clips. You can save, export, archive, or vault the video clips.
	Create a point-in-time bookmark.
	Capture a cropped still image.
	Intelligent Search - Person
	Enable Instant View.
	Enable the timeline view for the surveillance window.
	View Alert Hit Boxes. Select this button to enable or disable the following analytic overlays for the surveillance window: Movement trails, Boundary boxes, Object identifiers, Object counters, Filter alarms, Elevated Skin Temperature.
	Record all camera feeds in the surveillance window.
	Surveillance tracking configuration.
	Commence surveillance tracking session.
	Surveillance pane history - Use the arrow icons to navigate between the current and previous surveillance window states.
	Increase or decrease the toolbar size.
	Maximize the surveillance window.

Playback controls

When you select a surveillance pane, the playback controls appear. victor Client's video Playback Controls provide all the standard VCR operations as well as Jump forward, and Back by intervals and Date Selection options.

Note:
• Audio is disabled when in Playback mode unless the video stream's play speed is Forward 1x. Only one source can be running at a time. For example, enabling audio on camera 2 disables audio on camera 1.
• Live and streaming audio is unavailable on Intellex playback, it is only available on downloaded clips.
• To enable audio when playing back retrieved video, select  on the surveillance pane.
• During playback, if there are gaps in the recorded video stream, Intellex skips to the next available video. VideoEdge NVR returns blank frames at the requested framerate across the gap in recording.
• Instant Playback and Audio is not supported on TVR, Holis and HDVR/exacqVision units.

Figure 15: Video playback controls menu

Table 6: Video playback control icons

Icon	Description
	Select event type from the dropdown list
	Jump to previous event
	Jump to next event
	Exit instant playback
	Jump backward
	Play in reverse fast
	Play in reverse
	Toggle play / pause
	Play forward
	Play forward fast
	Jump forward
	Select a date and time to jump to
	Displays the current play direction and play speed

Switching between Live Video and Instant Playback

When in Live mode, you can switch to Instant Playback mode, enabling user control of recorded video streams. Instant playback is supported on VideoEdge and Intellex 4.2+ recorders.

When you select a surveillance pane, a border appears around the pane:

- **Yellow Dashed** - Instant Playback is available
- **Yellow Solid** - Video stream is in instant playback mode
- **Blue Flashing** - Instant Playback is not available on the selected stream

1 From Live video mode, select a video pane or select multiple video panes. The Playback controls become active.

2 Select the required function from playback controls. The selected panes enter playback mode.

3 Navigate video streams as required.

4 Select the **Exit Instant Playback** icon, , to revert to Live Video.

Mouse Controls

Depending on the current surveillance mode, the mouse can be used to navigate video streams and Pan, Tilt and Zoom cameras:

- In playback mode you can instantly toggle between X1 forward and X1 reverse by scrolling up or down
- In Live and Playback modes, you can use the scroll wheel to Zoom by clicking and scrolling the wheel
- In Live and Playback modes, you can use the mouse for Pan and Tilt operation by locating the cursor centrally and clicking and dragging when the symbol displays
- In Paused mode, the mouse can be used to step forward and back frame by frame.
- In Live and Playback modes, holding down the mouse wheel while scrolling zooms the camera view in or out (Both in PTZ and vPTZ control)

Keyboard controls

victor Client supports various CCTV Keyboards, Multimedia Controllers, and Joysticks for surveillance control. These can be used to navigate and switch video streams in display panes of surveillance windows and virtual matrices. In addition, when you select the surveillance pane for a PTZ camera, you can use a USB joystick to control the camera's PTZ functionality.

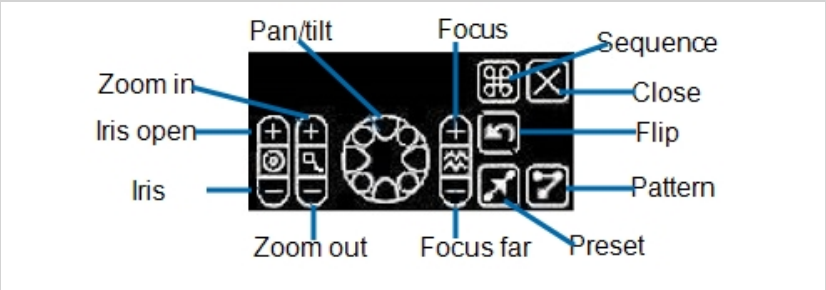
PTZ Controls

When viewing a video stream, Pan, Tilt and Zoom (PTZ) control is available using an on screen display (OSD) control.

There are two types of PTZ command that the client will determine to use, depending on camera type:

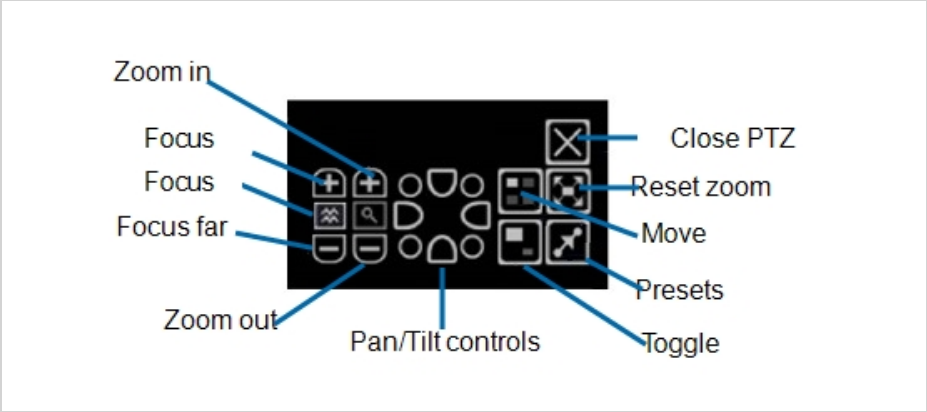
PTZ

This can be used on live video streams to control supported dome cameras.



Virtual PTZ

This type is used with fixed cameras for live and recorded video. Virtual PTZ is achieved by capturing a specific area of the camera's view, cropping a smaller area and zooming that to a larger view.



Using PTZ controls

Where available, you can use Pan Tilt and Zoom (PTZ) controls from within the client surveillance windows.

Depending upon the type of dome and recorder being used, the available controls may vary. For example, the sequence function is not available when using Intellex. By default, numbers 1 - 4 on the keyboard are mapped to the first four PTZ presets (Dome Camera only).

1 Click the **New Tab** icon, and then click **Surveillance**.

2 Select  within the video pane of the dome camera to be controlled. Dome Controls display.

3 Use the controls by selecting the areas of the controls as required.

Using Virtual PTZ Controls

You can use Virtual controls to crop and magnify the view of fixed cameras (virtual Zoom). Virtual controls also allow users to move and set Picture in Picture views and to set virtual presets.

Note:
• Virtual Control overlay must be enabled to allow camera control from within specific panes.
• To configure Picture in Picture behavior, open the Settings menu, then select Surveillance Preferences.

1 Click the **New Tab** icon, and then click **Surveillance**.

2 Select the Camera Control symbol  within the video pane of the fixed camera you want to control. Virtual PTZ controls display.

3 Use the controls by selecting the areas of the controls as required. When in use, a picture in picture view is displayed in the main video pane. Use the **Move Picture in Picture** icon to reposition the view.

4 Select **Close** to close the controls.

Creating Virtual PTZ Presets

You can set virtual presets on a fixed camera. This allows you to view multiple areas of interest quickly without the need to manually control the camera's PTZ.

Note:
The maximum number of presets that can be configured is 255.

1 Select the Camera Control symbol within the video pane.
2 Use Virtual PTZ to display the view to be added as a preset.
3 Select Preset . Preset controls display.
4 Select next sequential preset number from the dropdown.
5 Select to add preset.
6 Select to exit back to PTZ controls.
7 Repeat as required for further presets.

Note:
To view presets, select the preset number and click **Go to Preset**.

Timeline View

Access the Timeline View from any surveillance window by clicking the **Timeline View** icon. Each media stream displayed in the surveillance window appears as a corresponding data stream bar in the Timeline View. Using the Timeline View, you can:

- Determine the existence of recorded media
- Navigate through recorded media
- View Events
- View Preview Frames
- Bookmark clips to Save and Export
- Search

Table 7: Timeline View icons

Icon	Icon name	Icon	Icon name
	Timeline View		Playhead
	Slide to adjust playback speed		Bookmark selected region
	Lock playback speed		Export clip
	Step back one frame		Search
	Step forward one frame		Quick Zoom
Live	Go live		Cancel

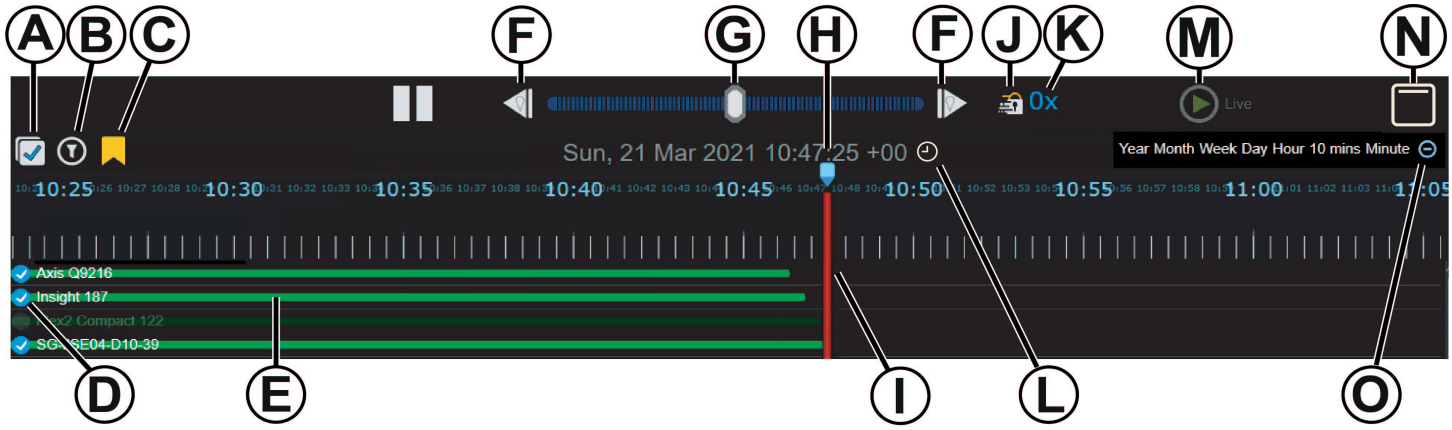
Icon	Icon name	Icon	Icon name
	Calendar		Filter timeline data
	Click to add marker		View level

Timeline View navigation bar

The Timeline View navigation bar is a navigation control divided into years, months, days, hours, minute, and seconds depending on the zoom level selected. A vertical bar in the center of the timeline represents the current time displayed.

The visible time span can be increased by scrolling the mouse wheel back and decreased by scrolling mouse wheel forward. By clicking and dragging you can move the timeline bar to display video from the selected time and date. Using the quick zoom button allows you to quickly display by year, month, week, day, hour or minute.

Figure 16: Timeline View navigation bar



Callout	Name	Description
A	Toggle data stream selection	Click to toggle stream selection.
B	Filter timeline data	Click to view and enable items from the Display Filter list: • Available Media • Search Result Event • Camera Alerts • Audio Alert • Text Stream Alerts • Associated Alerts **Note:** Expand items to view additional options.
C	Toggle bookmark	Click to view bookmarks.
D	Enable or disable a video stream	Click to toggle a video stream selection. **Note:** There is no hard limit to the number of cameras you can view together.

Callout	Name	Description
E	View a video stream	Click the data stream bar to jump to that position in the stream. Right-click the data stream bar to display a still image. Hover over the data stream bar to view the camera name.
F	Jump to an event	Click the left arrow to jump backwards through events. Click the right arrow to jump forwards through events.
G	Slide to adjust playback speed	Click and drag the slider right to increase the playback speed: 1x, 2x, 4x, 8x, 16x, 32x Click and drag the slider left to decrease the playback speed: -1x, -2x, -4x, -8x, -16x, -32x
H	Click to add a marker	Create a time of interest to bookmark, export, or search.
I	Marker bar	Click and drag the marker bar to relocate the playhead position.
J	Lock or unlock playback speed	Click to lock or unlock the playback speed.
K	Playback speed	Displays the playback speed.
L	Launch the calendar to select a specific date and time	Click to navigate to a specific date and time.
M	Go live	Click to switch back from recorded video.
N	View level	Controls four levels of timeline compression.
O	Quick Zoom	Change the time display to one of the following intervals: Year, Month, Week, Day, Hour, 10 mins, Minute

Data stream bars

One or more data stream bars can be displayed per control, each relating to the date/time data of specific media streams. Enabled Data Stream bars are constantly synchronized with the time in the timeline bar. These streams display a time orientated view of when events of selected type triggered.

Bars can be overlaid on top of each other for example, a video steam can be overlaid on top of an audio stream, each overlaid by an event stream, giving a fuller, synchronized overview helping incident management capability. The data stream bars are contained in a vertically scrollable window into which you can drag, drop or remove streams as required.

A toggle button to the left of the window allows you to enable/disable streams. Data bars that are disabled are blurred, but the data stream is still subject to the victor Client timeline controls. Data bars that are disabled are not included in a bookmark, clip export, or search. Select the data bar name or the toggle data bar to enable the stream. You can change the label of the button as required for easier recognition of streams.

Clicking any point on the data stream bar will display a popup window which has information about the values of the selected point. For example, a still image will display showing the current frame at that point in time. If an event is selected, read-only details will be displayed.

Basic navigation on the timeline

1 From Live video mode, select the required video feeds to display.

2 Select the **Timeline View** icon.

3 Select the data stream bars name to enable or disable them as required.
4 Navigate the timeline as required.
5 Select the **Go live** icon to return to the live image.
6 Select the **Timeline View** icon to hide the timeline bar.

Playback speeds

You can adjust the playback speed to faster or slower. Available playback speeds are as follows:

Faster playback speeds: 1x, 2x, 4x, 8x, 16x, or 32x

Slower playback speeds: -1x, -2x, -4x, -8x, -16x, or -32x

Adjusting playback speeds

1 Click and hold the **Slide to adjust playback speed** button.
2 Slide the button left for slower speed and slide the button right for faster speed.

Note:
The further you slide the button, the faster or slower the speed.

3 Release the slider button to return to single forward speed.

Locking playback speeds

1 Click the **Lock playback speed** icon.
2 To return to single speed forward, click the **Go live** icon.

Creating a clip from the timeline

1 From the surveillance window, click the **Timeline View** icon.
2 Select the camera name on the data stream bar to enable or disable the stream as required.

Note: All data stream bars are enabled by default.

3 Click the marker icon at the start of the time of interest.
4 Move the playhead and click the marker icon at the end of the time of interest.
5 Click the marker icon again. A menu displays the following options:
- Bookmark selected region
- Export clip
- Search
- Cancel

6 Click the **Export clip** icon. The Direct Clip Action window displays.
7 Select the required option:
- Archive
- Vault
- Save
- Save to Incident
- Export

Viewing video from all cameras on a recorder

You can view live video from all cameras connected to a single recorder.

1. Select the **Device list** icon.
2. Expand the **Recorders** group.
3. Expand the folder for the recorder type, for example, VideoEdge.
4. Right-click the required recorder.
5. Select **View**. A new surveillance tab opens displaying all available video streams.

Viewing video from selected cameras

As well as viewing all available video from a recorder, you can select specific cameras to view in the surveillance window.

Note:
If your network supports multicast, you can view footage from multicast cameras even when their assigned VideoEdge is offline.

1. Select  , then select **Surveillance**.
2. Select the appropriate Video Pane layout using the layout selector icon  . Default view is 2x2.

   Note:
   You can configure which video layouts are available from the Video Layout Preferences section of the Settings menu.
3. Select the **Device list** icon. The device list window displays.
4. Expand the **Recorders** folder, then expand the folder for the recorder type, for example, VideoEdge.
5. Expand recorders as required. Camera icons appear.
6. Select one of the following options:
   - Drag and drop cameras from the device list into the surveillance panes.
   - Double-click a camera from the device list to open that camera feed in a surveillance window.
   - Right-click the camera and select **View** from the context menu.

   Note:
   • To open a camera feed in a new surveillance window, hold the Shift key, then double-click the camera.
   • You can also configure victor Client so that new camera feeds automatically open in new surveillance windows. See the Video Preferences section of the Settings menu.

Clearing video from surveillance panes

You can clear video from surveillance panes and windows.

1. Right-click the Surveillance Pane.
2. Select **Clear**. Then select one of the following options:
   - **Clear Video** - To clear video from that pane only
   - **Clear All Videos** - To clear video from all panes within the window

- **Clear all Pane Selections** - To clear all selected panes
- **Clear Region of Interest**- Clears the region of interest from the selected pane

Rearranging the Surveillance layout

You can move camera feeds to different panes within a surveillance layout, or to a pane from another surveillance layout. Drag and drop a camera feed from one pane to another. If the destination pane already contains a camera feed, the two feeds swap positions.

To copy a camera feed into another pane, hold Ctrl while you drag and drop a camera feed into another pane.

Changing the Video Layout

You can change the Video Layout to accommodate different video pane configurations. The video layouts available from the surveillance window can be controlled from the Settings menu.

1 Select  , then select **Surveillance**

2 Select  . A list of available layouts displays. The Layouts are split into sections:
- Standard
- Widescreen
- Portrait
- Autofit

3 Select Layout as required. Video window switches to the selected configuration.

Note:
When changing layouts, the three most recently used layouts are displayed in a recently used list next to the pulldown list for convenient retrieval.

Surveillance history

You can use the surveillance history buttons to navigate between the current and previous surveillance window configurations. For example, if you add a new camera to a surveillance pane, and want to revert to the previous camera.

When you modify the surveillance pane configuration, you can select the back arrow,  , to return to the previous configuration. Select the forward arrow,  , to return to the current configuration.

Note:
• Surveillance History does not support more than one "back" or "forward" action. That is, you cannot navigate through multiple configuration changes.
• If you revert to a previous configuration, and then modify the surveillance window, the modified window becomes the current configuration.

You can use the surveillance history buttons to undo the following configuration changes:

- Double-clicking a camera or a recorder.
- Dragging and dropping a camera or a recorder onto a surveillance pane.
- Dragging and dropping a tour, salvo, saved view, or a view switch onto a surveillance pane.

You cannot use the surveillance history buttons just to revert to a previous surveillance layout. However, if you modify the surveillance layout between configuration changes, the layout also reverts when you revert to a previous surveillance window configuration.

Changing Surveillance overlay settings

You can enable or disable the following Video Overlay settings from within the video window:

- Display Grid
- Camera, Recorder Names, and Time
- Region of Interest
- Dome Control
- Audio

Note:
Changes to overlay options affects the whole window in which the changes are made. Overlay options cannot be set for individual panes.

1. Select , then select **Surveillance**. The surveillance window displays.
2. Right-click a pane in the surveillance window.
3. Select **Overlay**.
4. Select or Deselect overlay options as required.

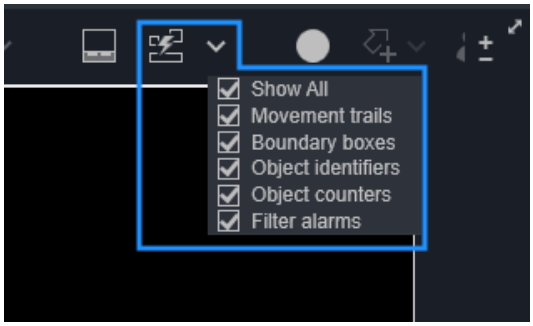
   Note:
   You must enable Dome Control overlay to allow camera control from within specific panes.

Alert hit boxes

You can enable hit boxes for live video feeds in the surveillance pane. When a person or an object triggers an alarm, a hit box appears around the object in the surveillance pane.

Operators can use hit boxes to help identify people or objects of interest during a surveillance session. In the Surveillance window, select the **View Live Alert Hit Boxes** button to enable analytic overlays for live and playback video streams.

Figure 17: The alert hit boxes menu



You can enable or disable the individual analytic visualizations for the Surveillance window:

Note:
Alert hit boxes are only available for VideoEdge 5.3+ recorders

- **Movement Trails**: These trails display the path of an object that is being tracked by the motion detection analytic. The object's path appears on-screen as a continuous line.
- **Boundary boxes**: These boxes surround a person or an object that is being tracked.
- **Object identifiers**: These labels appear on a person or object that is being tracked.
- **Tripwires**: If you enable the tripwire alarm on a camera, the object counter displays the tripwire's running total.
- **Filter alarms**: By default, boundary boxes only appear around objects that trigger an alarm. However, if you disable the Filter alarms option, boundary boxes can appear around any objects that the camera detects within its region of interest.

Bookmarks

You can create bookmarks and Point-in-Time bookmarks from the Surveillance window. You can perform the following procedures from the Surveillance window:

- Creating a bookmark
- Editing a bookmark
- Creating a Point-in-Time bookmark

Note:
Bookmarks are only valid while the associated video still exists on the recorder.

After you create bookmarks you can manage them from the Bookmarks menu. You can perform the following procedures from the Bookmarks menu.

- Exporting a saved bookmark
- Editing a saved bookmark
- Deleting a saved bookmark

Point-in-time bookmarks

A Point-in-time bookmark is a bookmark for a specific time and date. This bookmark is not associated with a device, but it can be applied to any eligible device. Drag and drop a point-in-time bookmark from the Bookmarks menu onto the surveillance window to move all video feeds to the point in time specified by the bookmark.

Creating a bookmark from the timeline

1. From Live video mode, select the required video feeds to display.
2. Click the **Timeline View** icon.
3. Click the camera names for each data stream you want to enable or disable.

   Note: All data stream bars are enabled by default.
4. Click the marker icon at the start of the time of interest.
5. Move the playhead and click the marker icon at the end of the time of interest.
6. Click the marker icon again. A menu displays the following options:

   - Bookmark selected region
   - Bookmark selected region
   - Export clip
   - Search
   - Cancel
7. Click the **Bookmark selection region** icon.
8. Enter a **Name** for the bookmark in the text box.
9. Select the required **Camera** from the drop down list.
10. **Optional:** Edit the bookmark if required.
    a. Click **Edit**.
    b. Edit the Bookmark **Description**.
    c. Select a Bookmark folder.
11. Click **OK**.

    The bookmark is added to the Bookmarks folder and is also displayed on the timeline.

Editing a bookmark from the timeline

1. From Live video mode, select the required video feeds to display.
2. Select the **Timeline View** icon. The timeline bar will display.
3. **Optional:** Click the **Show Bookmarks** icon to display all bookmarks.
4. Choose a bookmark to edit and click the bookmark's **Edit** icon.
5. From the **Bookmark edit** menu, select one of the following options:
   - To delete the bookmark, click the **Cancel** icon.
   - To edit the bookmark, click the **Edit** icon.
6. Click **OK**.

Creating a Point-in-Time bookmark

1. Navigate to the required point in time.
2. Select  . The Create Bookmark menu appears.
3. Edit the bookmark **Name**.
4. (Optional) Edit the bookmark if required.
   a. Select **Edit**.

b Edit the Bookmark **Description**.

c Select a Bookmark folder.

5 Select **OK**.

Exporting a saved bookmark

1 Select , then select **Bookmarks**.

2 Select a bookmark from the list to mark it for export. Double-click to view the bookmark.

3 (Optional) Edit the bookmark.

a Right-click the bookmark.

b Select **Edit**.

c Edit the bookmark as required.

4 Select . The Direct Clip Action window will display.

5 Select the required option:

- Archive
- Vault
- Save
- Save to Incident
- Export

Editing a saved bookmark

1 Select , then select **Bookmarks**.

2 Right-click a bookmark and select one of the following options:

- To delete the bookmark, click **Delete**.
- To edit the bookmark, click **Edit**.

3 Select **OK**.

Procedure 1 Deleting a saved bookmark

1 Select , then select **Bookmarks**.

2 Right-click a bookmark.

3 Select **Delete**.

4 Select **OK**.

Fisheye cameras

Fisheye cameras use very wide angle lenses to capture hemispherical images - 180° panoramic view (wall mount) or 360° surround view (ceiling/floor/wall mount) without blind spots.

victor Client allows hemispherical images captured from fisheye cameras to be converted into conventional rectilinear or panoramic projections for viewing and analysis. This process is known as De-warping.

De-warping

The option to De-warp is available from the context menu of supported fisheye camera views. This can be done in Playback and Live modes as well as from within victor Player. It is also available in Video Search Results player and Investigator windows.

If you send an image from a Fisheye camera to another display or InstantView etc., the Fisheye camera opens in whichever view is set by default. You can configure the default view from the Video Preferences section of the Settings menu.

- Warped view - Default view from a fisheye camera, displaying a hemispherical image with barrel distortion.
- Rectilinear view - De-warped view of a fisheye stream. This view displays a section of the fisheye view with minimal barrel distortion.
- Panoramic view - De-warped view of a fisheye stream. This view is displays the full fisheye view in a single elongated pane.

Note:
You can de-warp exported video within victor Player, but the de-warp option is not available in alternative video players.

Configuring De-warping preferences

You can configure De-warping preferences from the Settings menu.

1. Select 
2. Select **Settings**.
3. Select **Video Preferences**.
4. In the Camera Control section, select a de-warping option from the **De-Warp selection by default** list.
5. Select **Save**.

De-warping a Fisheye camera stream

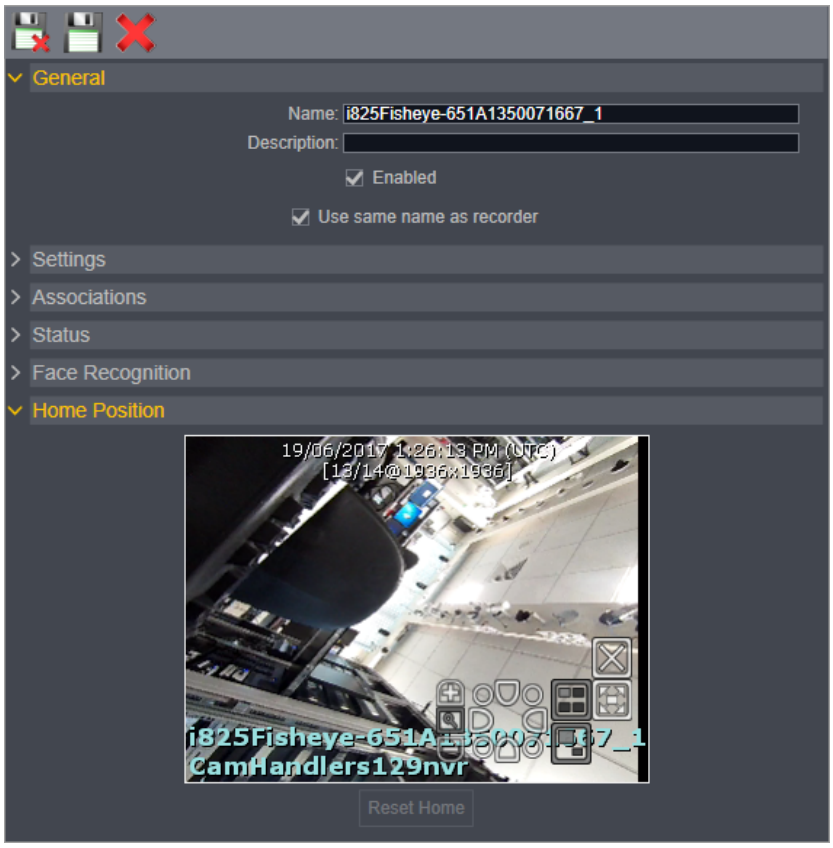
It is important to select the appropriate mounting option. Each option uses a different algorithm, designed to give optimal de-warped views depending on camera orientation.

Note:
You can also select a default camera mounting option for fisheye cameras in VideoEdge 4.4+ recorders and HDVR/exacqVision recorders.

1. Right-click a video stream from a fisheye camera.
2. Select **De-Warp Options**, and then select one of the following options:
   - Warped - Maintains Fisheye view
   - Rectilinear
   - Panoramic

Setting the default PTZ position

When you de-warp a camera to a Rectilinear view, the camera de-warps to the default PTZ Home position. You can adjust this default position from the camera settings menu. The adjusted Home Position applies to any victor workstation that is connected to the same remote server.



Note:
Ensure that camera de-warping is enabled before you configure a default PTZ position.

1. Right-click a Fisheye camera icon in the Devices list.
2. Select **Edit**.
3. Expand the **Home Position** section.
4. Use the PTZ controls to reposition the camera.
5. (Optional) Select **Reset Home** to revert to the default home position.
6. Select **Save**.

Fisheye Camera Controls (Warped)

Fisheye camera views have various click and drag OSD controls you can use to manipulate camera views.

Note:
Virtual presets created on a Fisheye camera will also store the warped or de-warped view which was being viewed at the time of creation

Warped View Mouse Control

In warped views, pressing **Shift** displays a target box on screen. This box can be moved by dragging the mouse around the warped view. Clicking the mouse on a particular area displays a new rectilinear (de-warped) view of that area.

Rectilinear View Mouse Control

In Rectilinear views, hovering the mouse in the center of the view displays a ✥ symbol. You can Click and Drag the symbol in any direction to effectively enable Pan and Tilt control. (PTZ control must be open)

Panoramic View Mouse Control

In Panoramic views, similar to Rectilinear, you can use to Pan and Tilt the camera view. (Zoom mode only)

Send to virtual matrix monitor

You can send callups (cameras, tours etc.) to specific virtual matrix monitors using the right-click 'Send To' surveillance command. For example, you might be monitoring a map in the command center and would like to send a certain camera view to a specific virtual monitor.

Starting Instant View

Use **Instant View** to view video in instant playback (paused) mode alongside the live view.

You can launch instant playback from any surveillance view from the video context menu or by selecting the InstantView Icon.

1. From Live video mode, select a video pane. Selected pane highlights dashed yellow.
2. Select one of the following options:
   - Right-click the video pane and select **Instant View**.
   - From the Surveillance controls, select the **Instant View** icon.
3. Select one of the following options:
   - **Side By Side** - Open the new paused view beside the live view
   - **Send To** - Send the paused view to a separate display

Capturing a still image

You can capture all or part of a paused video stream as a still image in .bmp or .jpg format. After capture, various options are available including Save, Email, Print, or Copy to clipboard. You can also launch a third party application for image editing.

Still Image capture is available from any surveillance mode, the method for capture is identical in all modes.

1. Select one of the following options:
   - Use the surveillance pane's contextual menu:
     a. Right-click the surveillance pane.
     b. Select **Still Image**.
   - Use the surveillance window controls:
     a. Pause the video stream
     b. In the Surveillance controls, select 
     c. Click and drag across the surveillance pane to capture a screenshot.
2. In the **Still Image Capture** window, select the following options:
   - Select  to browse to a storage location and save the still image.
   - Select  to Email the still image (Requires Email to be configured in Settings menu).

- Select  to open the image in a third party application (You must configure a third party application from the Video Preferences section of the Settings menu).
- Select  to copy the image to clipboard.
- Select  to print still image (Requires Windows Printer to be configured).
- Select  to save the still image to an Incident.
- Select  to enroll a subject's face in a VideoEdge's face recognition database.

Viewing Associated Video

Cameras can be associated with objects such as doors and elevators. When an object is dragged from the Device List to a surveillance pane, any associated camera feed will appear in the pane.

1 Select 

The Device list displays.

2 Navigate to the object to be viewed.

3 Select one of the following options:

- Drag the object into the surveillance window.
- Use the contextual menu to view associated video.
    a. Right-click the object to be viewed.
    b. Select **View Associated Videos**.

The associated video feed appears in the surveillance window.

Manually-generated alarms

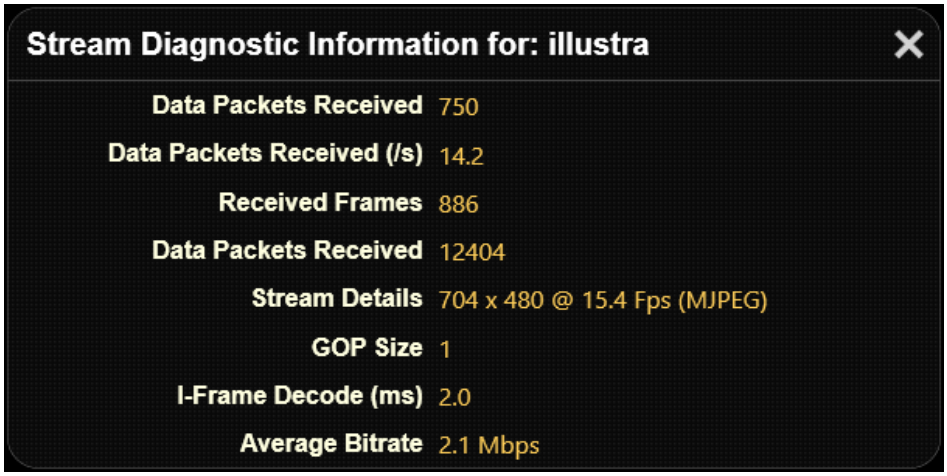
You can manually generate an alarm from any surveillance view by right-clicking the video stream and selecting **Generate Alarm**. This alarm is entered into victor's journal as a User Panic Alert. It is a general alert type typically used in cases where activity is taking place for which there are no system alerts defined.

Viewing stream diagnostics

Complete the following procedure to view a camera stream's diagnostic information from the Surveillance menu.

Diagnostic information appears in a floating window over the surveillance window.

Figure 18: Stream diagnostic information



1 From the Surveillance window, right-click a surveillance pane.

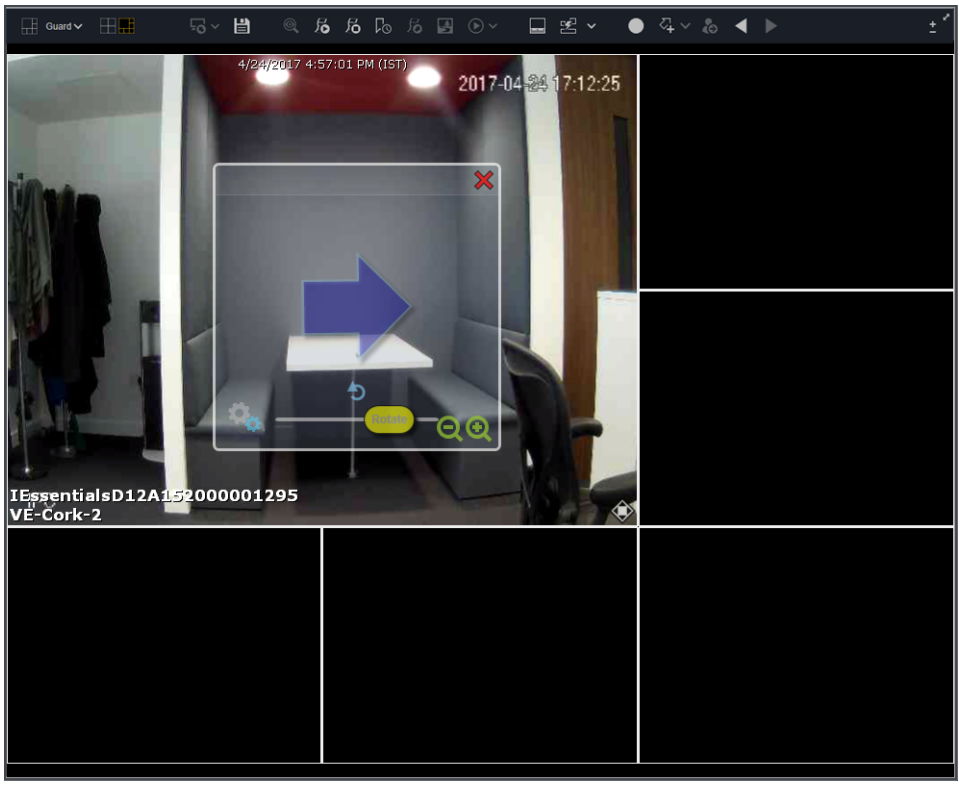
2 From the contextual menu, click **Show stream diagnostics**.

Surveillance Tracking

You can use surveillance tracking to manually track a person or an object across multiple camera panes. When you configure cameras for surveillance tracking, each camera contains one or more arrows, that link to another camera. During surveillance, operators can use these arrows to monitor an object from multiple angles, or to track an object as it moves through a location. After the operator ends the tracking session, they can create a clip of the tracking session, or they can create bookmarks for the cameras in the session.

You can also configure automatic surveillance tracking, which uses a combination of camera analytics and alert hit boxes to trigger camera view changes across a single surveillance pane.

Note:
You can use surveillance tracking for live video and instant playback modes.



Configuring Surveillance Tracking

1 Select 

2 Click and drag the tracking arrow to the desired surveillance pane.

3 Drag the **Rotate** slider to rotate the tracking arrow.

4 Use the zoom icons to change the arrow size.

- Select  to increase the arrow's size.
- Select  to decrease the arrow's size.

5 (Optional) Configure additional rotation settings.

a Select 

b Drag the **Rotate X** slider to skew the arrow along its x-axis.

c Drag the **Rotate Y** slider to skew the arrow along its y-axis.

6 (Optional) Configure color settings.

a Select 

b Select 

c Drag the opacity slider to adjust the arrow's opacity.

d Select a color for the arrow.

i. Select  to switch between the arrow body and the arrow border.

ii. Select a color icon to apply that color to the arrow body or the arrow border.

e Select  to close the color settings.

7 Associate a camera with the tracking arrow.

a Drag a camera onto the arrow.

b Select  to confirm the camera association.

Note:
• You can add a camera from the Devices list, or from another surveillance pane.
• If the camera has presets, select the camera preset when you add the camera.
• To associate a virtual preset with the tracking arrow, drag the virtual preset from the Call Ups list onto the tracking arrow.
• You can add Fisheye cameras in warped or de-warped views. Drag a surveillance pane that contains the desired view onto the tracking arrow.
• You can associate up to five cameras with each arrow.

Tracking an object

After you configure a camera for surveillance tracking, the surveillance tracking icon,  , appears in the camera's surveillance pane. Select this icon to initiate a tracking session, then use the object tracking arrows to navigate between cameras. Select the icon again to create a clip of the tracking session, or to create bookmarks for the tracked cameras.

1 Start the Surveillance tracking session.

• Select the surveillance tracking icon,  , from a camera surveillance pane.

2 Track the person or object.

a Select a tracking arrow to switch to another camera as required.

Note:
If you associate multiple cameras with an arrow, a preview of each camera displays. Select the desired camera pane to continue the tracking session.

b (Optional) Select  to return to the previous camera in the tracking session.

c (Optional) Select  to return to the first camera in the tracking session.

3 Select  to stop the tracking session.

4 Select one of the following options:

- Select  to create a bookmark for each of the tracked cameras.
- Select  to save the tracking session as a clip.
- Select  to resume tracking.
- Select  to exit tracking without saving the session.

Automatically tracking an object

You can configure victor to automatically track objects in a surveillance tracking session. During an automatic tracking session, objects that trigger analytic alerts can also activate surveillance tracking arrows. When the object moves to a part of the screen that contains a tracking arrow, the object activates that tracking arrow, and the view automatically changes to the next camera in the tracking sequence.

To use cameras in an automatic tracking session, you must configure the Direction or Perimeter rules on the camera. When you configure the camera alarms, ensure that the region of interest covers the direction that you want the surveillance tracking arrow to point. This ensures that when an object generates an analytic alert, it also triggers the tracking arrow that you put in that region. For more information about VideoEdge camera alarms, refer to the *VideoEdge Installation and User guide*.

After you configure the camera alarms, you can configure surveillance tracking in victor. Complete the procedure *Configuring Surveillance Tracking* above.

Note:
When you configure surveillance tracking, if a camera pane contains more than one tracking arrow, ensure that there is sufficient space between the arrows. This reduces the risk of an object triggering the wrong tracking arrow during automatic tracking session.

1 Open a surveillance window.

Note:
• The automatic tracking option is only available in 1x1 surveillance window layouts.
• During an automatic tracking session, hit boxes are not visible in the surveillance window. However, the hit boxes are still active, and they trigger any tracking arrows that they make contact with.

2 In the surveillance controls, select  to start the tracking session.

3 Select  to start automatic tracking.

Note:

While automatic tracking is enabled, the auto tracking icon changes color 

4 To stop automatic tracking, select 

5 (Optional) Select the tracking arrows to manually continue the tracking session.

6 Select  to stop the tracking session. Select one of the following options:

- Select  to create a bookmark for each of the tracked cameras.
- Select  to save the tracking session as a clip.

Manually tracking an object

You can also track objects without configuring cameras for surveillance tracking. Instead of using arrow icons to switch between cameras, you must drag cameras onto the surveillance pane. In the surveillance control bar, select  to start a tracking session, and then drag cameras from the Devices list onto the surveillance pane. Each time you add a new camera to the surveillance pane, this action is recorded as a new step in the tracking session.

Note:
• You can start a tracking session when video is streaming in the surveillance pane in live or instant playback mode.
• The Surveillance Tracking button is only available for 1x1 layouts.

1 Open a surveillance window.

Note:
For Instant Playback mode, navigate to the point in time where you want to start the tracking session.

2 In the surveillance controls, select 

3 Drag a camera from the Devices list onto the surveillance pane.

4 (Optional) Drag additional cameras onto the surveillance pane as required.

5 To end the tracking session, select  again.

6 Select one of the following options:

- Select  to create a bookmark for each of the tracked cameras.
- Select  to save the tracking session as a clip.

Surveillance tracking with a surveillance keyboard

You can also use the AD2089 surveillance keyboard for surveillance tracking. Use the keyboard's ACK button to start and end the tracking session. After the tracking session ends, you can save the session as a clip, or you can create a bookmark for each of the tracked cameras.

Note:
• You can start a tracking session when video is streaming in the surveillance pane in live or instant playback mode.
• In Instant Playback mode, the Surveillance Tracking button is only available for 1x1 layouts.

1 Activate a virtual matrix.

2 Use the keyboard to call up a camera to the monitor.

3 Select one of the following options:

- Start a tracking session in live mode.
  a. Press the ACK key on the surveillance keyboard.
  The camera in the surveillance pane is added to the tracking session.
  b. Call up cameras to the monitor as required. These cameras are added to the tracking session.
  c. Select the ACK key again to end the tracking session.
- Start a tracking session in Instant Playback mode.

a. Navigate to the point in time where you want to start the tracking session.

b. To start the tracking session, press the Iris Open key on the surveillance keyboard.

The camera in the surveillance pane is added to the tracking session.

c. Call up cameras to the monitor as required. These cameras are added to the tracking session.

Note: Each time you call up a new camera, the keyboard reverts to live mode. Press the DVMS key to return the keyboard to Instant Playback mode.

d. Select the Iris Open key again to end the tracking session.

4 Select one of the following options:

- Select  to create a bookmark for each of the tracked cameras.
- Select  to save the tracking session as a clip.

Audio Devices

From VideoEdge 4.4+, camera audio devices are displayed as separate devices in victor Client. For example, a camera with a built-in microphone appears as two devices in victor Client: the camera, and the camera microphone. For more information about audio devices, refer to the *VideoEdge Installation and User Guide*.

Within victor Client, audio devices generally mirror the behavior of cameras; they are standard hardware objects that display as child objects of NVRs. You can interact with audio devices from the device list.

Audio device editor

As with cameras, victor Client's Audio device editor allows you to add alerts and associations, assign descriptions and rename devices. Associating devices within victor Client pushes the changes back to the NVR only if the new association is with an object within that NVR.

Search and Retrieve

You can drag audio devices into the Search and Retrieve object selection alongside cameras to return audio and video streams which are not necessarily associated outside of the wizard.

You can also perform Search and Retrieve on audio devices only, this return audio only streams for the parameters selected.

Audio Associations

Audio associations are limited to one per device. Each association made in victor Client is automatically replicated on the NVR, likewise each association made on NVR is mirrored within victor Client (when the audio device and camera are connected to the same recorder).

If multiple audio associations are attempted, only the first selected will be added, the other selections are ignored.

Clip Export and Retrieval

There are some considerations which should be noted concerning clip export and audio associations:

Clips with default audio

Clip and audio are exported together and playback as separate streams within a single clip

Clips with default audio and audio associations

Clip and default audio are exported as a single clip, the associated audio is exported as a separate clip

Push to Talk communication

You can use the Push to Talk feature to broadcast audio messages from your victor workstation to a VideoEdge recorder.

You will need the following items to use Push to Talk audio:

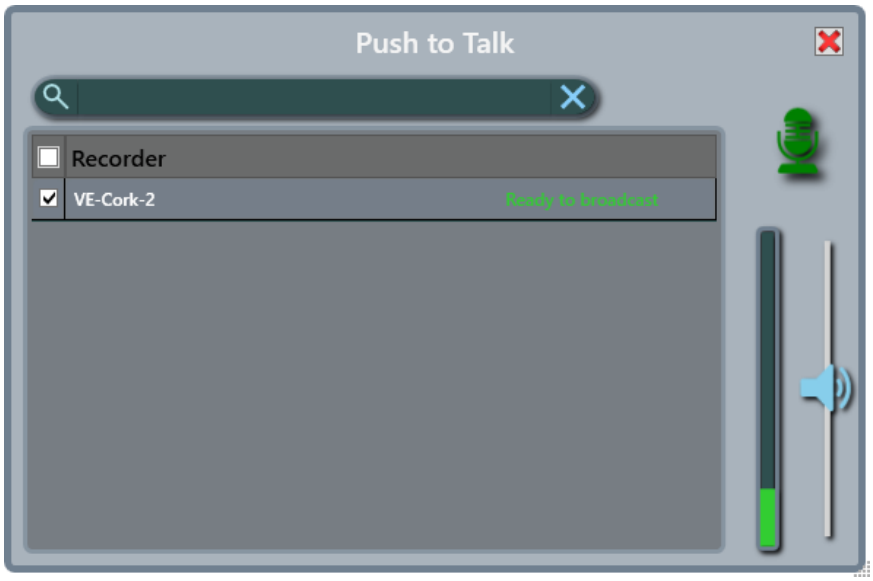
- A microphone to connect to your victor workstation.
- Speakers to connect to the VideoEdge recorder.

After you connect a microphone to your workstation, the Push to Talk icon, , appears in the Quick action bar.

You can use Push to Talk functionality with any compatible VideoEdge recorder that is connected to a speaker.

Note:
• You can adjust microphone audio input levels from the Windows Control Panel.
• You can adjust VideoEdge audio output levels through the SUSE OS settings menu.

Figure 19: The Push to Talk window



Enabling Push to Talk communication

1 Connect a speaker to the VideoEdge recorder.
2 Connect a microphone to the victor workstation.
3 In the Quick action bar, select to open the Push to Talk window.
4 Select **Push to Talk**, then select the required recorders from the list.
5 (Optional) Adjust the audio slider to adjust speaker volume.
6 In the Push to Talk window, select , then speak into your microphone.
7 After you finish speaking, select again.
8 Click to close the Push to Talk window.

SIP Audio Communication

You can configure your victor workstation to send and receive SIP calls.

Prerequisites

- Connect a microphone to your workstation.
- Configure FreeSWITCH server settings from the Settings menu.
- Assign an endpoint to your workstation
- Configure additional SIP settings through the device's web interface.
  - The device password is the password assigned to the endpoint that is associated with the device in victor.

    Note:
    You cannot currently see the password associated with an endpoint.

  - Domain – this maps to the Server IP Address entered in SIP Configuration settings.
  - Username – this maps to the SIP ID entered in the camera editor.

After you configure SIP settings for a device, you can call other SIP-enabled devices. The following SIP activities are logged in the victor journal:

- Receiving a SIP call
- Answering a SIP call
- Making a SIP call
- Changing SIP server IP address
- Changing SIP Endpoints for SIP devices or a workstations
- Changing the SIP ringtone for a workstation

Answering an incoming SIP call

Note:
When you receive a SIP call, the Push to Talk icon should flash yellow, and a ringing tone will play in the client.

1. Select the Push to Talk icon, 
2. Select one of the following options:
   - Select **Answer** to answer the call.
   - If you receive multiple calls simultaneously, select an incoming call to answer from the list.
   - Select **Reject** to reject the call.

Note:
If you don't select a specific call from the list, the top call in the list is selected automatically when you click **Answer**.

Calling a SIP-enabled device (Devices list)

1. Open the **Devices** list.
2. Navigate to the device that you want to call.
3. Right-click the device, and then select **Call**.

Calling a SIP-enabled device (Push to Talk)

1. Select the Push to Talk icon, 
2. Select **SIP Call**.
3. Select one of the following options:
   - Drag devices from the Devices list onto the SIP call window.
   - Use the object selector to choose SIP-enabled devices
   - Select the **Broadcast to All** checkbox.
4. Select **Call**.

Creating a SIP Endpoint

1. Click the **Create new item** icon. The Create a New item window displays.
2. Scroll down to the **SIP** section and select **SIP Endpoint**. The New SIP Endpoint window displays.
3. In the **General** section, enter a description for the Endpoint in the **Description** field.

   Note:
   The **Name** will auto-generate as the SIP ID when you configure the SIP Properties section.

4. In the **SIP Properties** section:
   a. Enter a SIP ID in the **SIP ID** field. The SIP Endpoint name is now the same as the SIP ID.
   b. Enter a password in the **Password** field.The value provided here must be the same value used when configuring the SIP registration details of the device itself.
   c. The Registration Point is for reference only. When you assign an endpoint to a camera and then select *Use VideoEdge SIP Proxy* on the camera SIP Properties section, the Registration Point changes to the name of the NVR.
5. Click the **Save** icon. Endpoints are viewable in the **Devices** list under in the **SIP Endpoints** section.

Associating a SIP Endpoint with a device

1. In the **Devices** list, right-click on the device you want to associate with a SIP Endpoint. The actions menu displays.
2. Click **Edit**. The device configuration page opens.
3. In the Associations section, click the **New** icon. The **Object Selector** window opens.
4. In the **Type** list, select **SIP Endpoints**. A list of SIP Endpoints displays.
5. Chose the SIP Endpoint you want to associate with the device and then click **OK**.

   Note:
   You can only associate one SIP Endpoint with a device.

6. Open the **SIP Settings** sections. The SIP ID has been set.

   Note:
   When the SIP Endpoint is associated with the device, the SIP ID is automatically set. To change the SIP ID, the association to the SIP Endpoint must be added or removed.

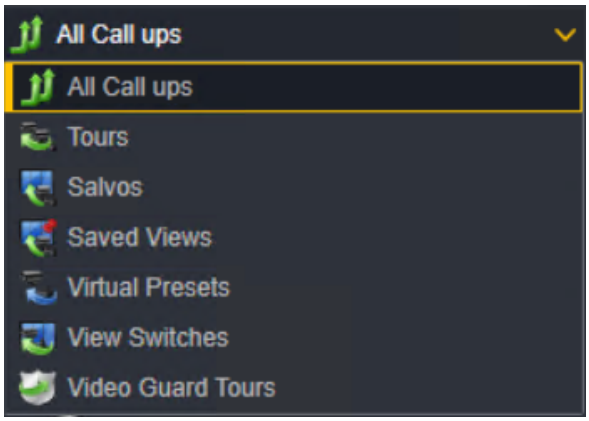
Calling a SIP Endpoint

1. Click the **View Device List** icon. A list of all system devices displays.
2. In the **SIP Endpoints** section, right-click on a SIP Endpoint and then select **Call**.

Note:
You cannot call the SIP Endpoint associated with your current workstation.

Call ups are the collective name for Tours, Salvos, Saved Views, Virtual Presets, Switches, and Guard Tours.

Figure 20: The Call ups menu



- **Tours:** - A collection of camera views that appear in predefined sequences for specified durations.
- **Salvos:** A display of multiple, simultaneous video streams which provides an effective way to monitor multiple areas of interest.
- **Saved Views:** A standard Salvo that is associated with a specific video layout, for example, Guard layout.
- **Virtual Presets:** Allows you to view multiple areas of interest quickly without the need to manually control the camera's PTZ.
- **View Switches** - View Switches are collections of Saved Views, switching between each Saved View after a specified time.
- **View Guard Tours:** A collection of different camera views, decision boxes, and input boxes, displayed in predefined sequences. However, you can configure a Guard Tour sequence to follow different paths, depending on viewer input. During surveillance sessions, after a Guard Tour completes, each step of the tour is saved as a separate entry in the journal log.

To access the Call ups menu, select the Call ups icon from the Navigation bar. You can access call ups from the Call ups menu. Type information into the Filter field to filter the Call ups list sub-menus. You can filter Call up categories, for example Tours or Salvos, but you cannot filter the entire Call ups list.

You can launch call ups from the Call ups menu, from a Surveillance window, and from a Dynamic View.

Note:
Some Call Ups are not available from some locations.

Procedure 2 Launching Call ups from a Dynamic View

1 Select 

2 Select the required call up type.

3 Right-click a call up from the dynamic view.

4 Select **View**. Call up displays.

Launching Call ups

Complete the following procedure to launch a call up. You can launch call ups from the Call ups menu, from the Surveillance window, and from a Dynamic view.

Select one of the following options:

- Launch a Call up from the Call ups menu:
    1. From the Navigation bar, click the **View Callup List** icon.
    2. Right-click the call up that you want to launch.
    3. Select **View**.
- Launch a call up from a Surveillance window:
    1. Right-click a surveillance window.
    2. Select **Call ups**.
    3. Select **Salvo**, **Saved View**, **Tour** or **View Switch** as required.
    4. Select the required Call up. Call up displays.
- Launch a call up from a Dynamic View:
    1. From the Navigation bar, click the **Show all items** icon.
    2. Select the required call up type.
    3. Right-click a call up from the dynamic view.
    4. Select **View**. Call up displays.

Procedure 3 Launching Call ups from the Call ups menu

1 Select  from the Navigation bar.

2 Right-click the call up that you want to launch.

3 Select **View**.

The Search and Retrieve feature allows users to search a recorder's stored video or metadata using time or motion criteria to filter results. Search results can be reviewed, vaulted, saved as clips, stored on the victor workstation or exported to remote storage. You can configure search preferences from the Settings page.

Caution

Ensure that time is synchronized between client machines and network recorders. If recorders are out of time synchronization with client machines, incorrect video retrieval may occur.

Supported Search Types

All searches are performed using the Video Search and Retrieval Wizard. The wizard comprises contains a maximum of three screens, through which the user can define search criteria. victor Client supports the following search types:

- Basic Search
- Combined Video Search
- Motion Detection Search
- Video Intelligence Search / Deep Intelligence Search
    - (Video Intelligence only) Abandoned/Removed
    - Crowd Formation
    - Direction
    - Dwell
    - Exit
    - Object Detection
    - Linger
    - Perimeter Protection
    - Queue Length
- Face Detection & Recognition Search
- Text Stream Search
- License Plate Recognition Search

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    - Direction
    - Dwell

- Exit
- Object Detection
- Linger
- Perimeter Protection
- Queue Length

- Face Detection & Recognition Search
- Text Stream Search
- License Plate Recognition Search

Accessing the Search and Retrieval Wizard

Select one of the following methods to access the Search and Retrieval wizard:

- From the Devices List, Sites list, or from a dynamic view:
  1. Navigate to the camera that you want to include in the search.
  2. Right-click the camera, select **Search and Retrieve**, and then click **Execute Search Wizard**.
- From the Open New Tab page:
  1. From the Navigation bar, click the **New Tab** icon.
  2. From the **Open New Tab** page, click **Execute Search Wizard**.

Basic search

Basic search covers the following options in the **Type of Search** dropdown menu:

- **Date and Time** - Searches specific time ranges using only time-related parameters.
- **Thumbnail Search** - A date and time search which displays results as thumbnail images.

All basic searches allow searching by date and time and enable the user to define the search period (Start and End Date/Time) and streams to retrieve (Video or Video and Audio).

Thumbnail Search

Thumbnail Searches display results in the form of 16 images representative of the selected time range.

Selecting '+' on a single image opens a new set of thumbnails at an increased granularity with the time range determined by the timestamp of the thumbnails adjacent to the original '+' selected. Thumbnail search is supported on VideoEdge NVR 4.4+, Intellex and HDVR/exacqVision recorders only.

Performing a Basic search

You can use the Search and Retrieve Wizard to specify parameters in order to perform a Basic Search. Basic Searches only consider Time and Date parameters.

1 Select 

2 Select **Execute Search Wizard**. The Search and Retrieval Wizard launches.

3 Drag and drop cameras from the Device, Site or Vault list onto the Camera Selector Pane.

Note:
If selecting cameras from the Vault List, Date and Time parameters are automatically populated.

4 Select the search type required from the **Type of Search** drop down menu. Available options are:

- Date and Time
- Thumbnail Search
- Motion Detection

Note:
The available options will vary if you enable Video Intelligence or Deep Intelligence on the selected camera. Refer to Performing a Basic search.

5 If required, select the **Download Audio** button to download associated audio streams.

6 Specify Date and Time parameters in the Date and Time Pane.

Note:
Selecting **Specific Range** also allows selection of **Time Filter** options. Time Filter options can be used to specify a sub-set of time to search. For example, only search between 9am and 5pm. Select the **Time Filter** checkbox to enable.

7 Select **Next**. The **Confirmation** screen displays. Confirm your search criteria are correct. Select **Previous** to return to the previous screen to make changes. Select **Finish** to execute the search.

8 Search and Retrieval Wizard closes and the **Date and Time Based Search Results** tab opens displaying search results. Double-click on a search result to view associated video.

Thumbnail search

You can use the Search and Retrieval Wizard to search video footage and display results in Thumbnail view. Thumbnail search results are represented graphically as a series of snapshots representing the duration of the search period.

Note:
Thumbnail Search is available for VideoEdge NVR 4.4+, Intellex and HDVR/exacqVision recorders only.

Thumbnail search results can be further manipulated by zooming in and out the search result time period. Selecting a thumbnail image will zoom in the time period to create 16 new thumbnail images using the thumbnails adjacent to the (+) thumbnail as the time range for the next 16 images. Selecting a thumbnail will zoom out to the previous 16 thumbnails.

Double-clicking a thumbnail will open that section of video in Investigator Mode.

Toolbar buttons, as outlined below, can also be used to manipulate thumbnail search results:

Button	Description
	**Save image** - select a thumbnail then select this button to save the image
	**Email image** - select a thumbnail then select this button to email the image
	**Open in third party application** - Select a thumbnail then select this button to open the image in a third party application. **Note:** You must configure a third party application from the Settings menu.
	**Copy to Clipboard** - Select a thumbnail then select this button to copy the image to your clipboard
	**Print** - Select a thumbnail then select this button to print
	**Investigator mode** - Select a thumbnail then select this button to open associated video in investigator mode

Button	Description
	**Clip creation tools** - Select a thumbnail to be the start time of a clip, then select **Clip Start Time**. Select a thumbnail to be the end time of a clip, then select **Clip End Time**. Select **Clip Export** to export or vault the clip
	**Open Search and Retrieval Wizard** - Select to reopen Video Search and Retrieval Wizard

Perform a Thumbnail search

1 Select 

2 Select **Execute Search Wizard**. The Search and Retrieval Wizard launches.

3 Drag and drop cameras from the Device, Site or Vault list onto the Camera Selector Pane.

Note:
If selecting cameras from the Vault List, Date and Time parameters are automatically populated.

4 Select **Thumbnail Search** from the **Type of Search** drop down menu.

5 Specify Date and Time parameters in the Date and Time Pane.

Note:
Specific Time Filter options cannot be used with Thumbnail Search.

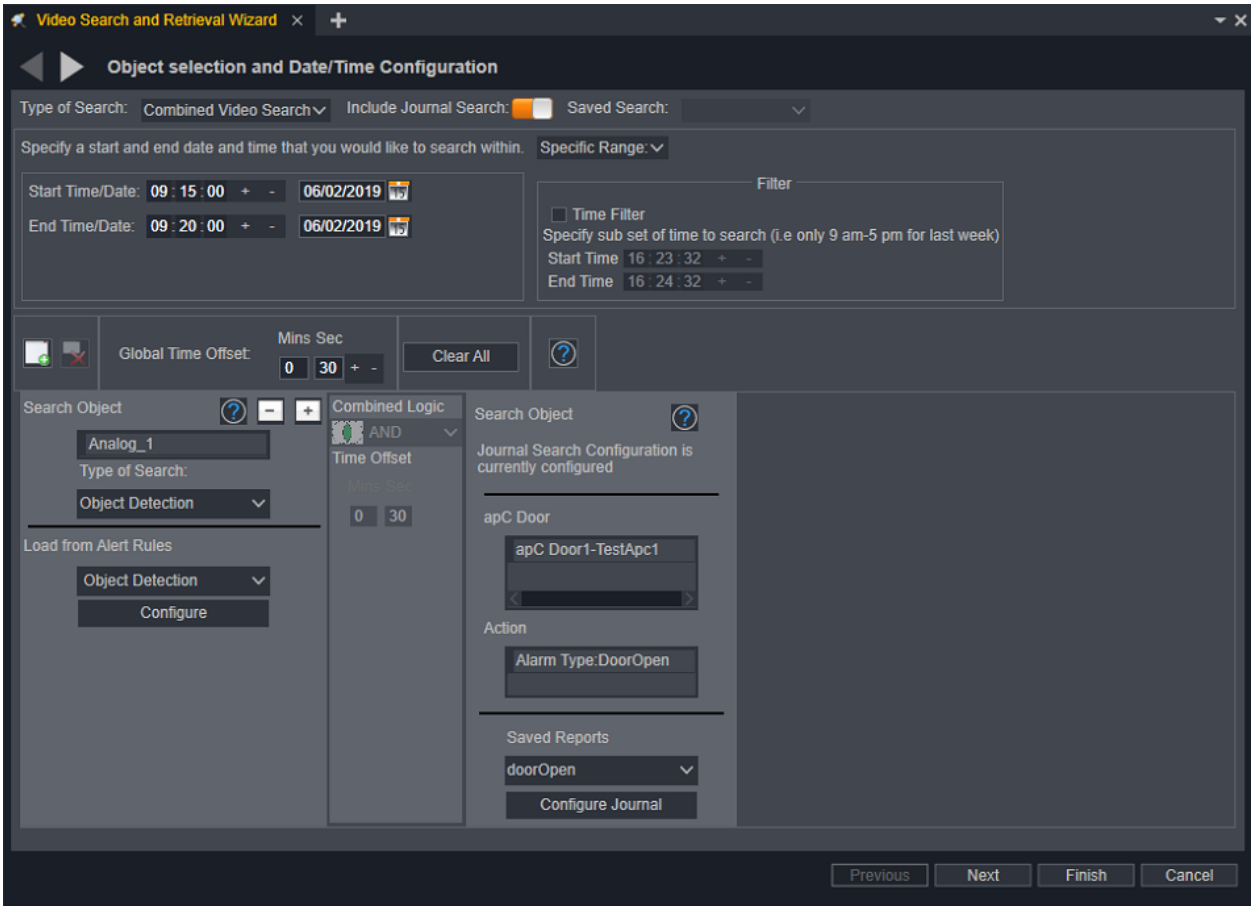
6 Select **Next**. The **Confirmation** screen displays. Confirm your search criteria are correct. Select **Previous** to return to the previous screen to make changes. Select **Finish** to execute the search.

7 Search and Retrieval Wizard closes and **Video Thumbnail Search** window opens displaying search result as 16 thumbnails.

Combined Video search

Combined video searches integrate multiple searches with combined logic. You can use combined video searches to create complex searches. Each combined video search can contain from two to five search objects. You can assign a camera to each search object, and you can configure a different analytic search for each camera. Alternatively, you can assign the victor journal to one of the search objects, so that you can cross-reference analytic searches with journal events. You can use combined logic to refine the search results, based on your requirements.

Figure 21: Combined Video Search



You can select one of the following types of combined logic for a combined video search:

Table 8: Combined Logic types

Combined Logic	Description
AND	This logic setting only returns search results when it detects an event on each search object, within the same time frame. This is the default logic option.
OR	This logic setting returns search results from any search object, regardless of whether there was a simultaneous search result on the other search objects.
NOT	This logic setting returns search results when only one search object experiences an event, but not the other search object.

- If you select the AND or OR logic, your combined video search can contain from two to five search objects.
- If you select the NOT logic, your combined video search can contain two search objects.
- If you select the **Include Journal Search** toggle, you must configure a journal search in one of the search objects.

Note:
You cannot include a journal search if your combined video search uses the OR logic.

For example: A security guard wants to search for suspicious activity in a car park. They create a combined video search that includes two cameras. One camera searches for motion detection and the other camera searches for license plate recognition. The security guard selects the AND logic, so that when both cameras alert within the same time period a search result triggers.

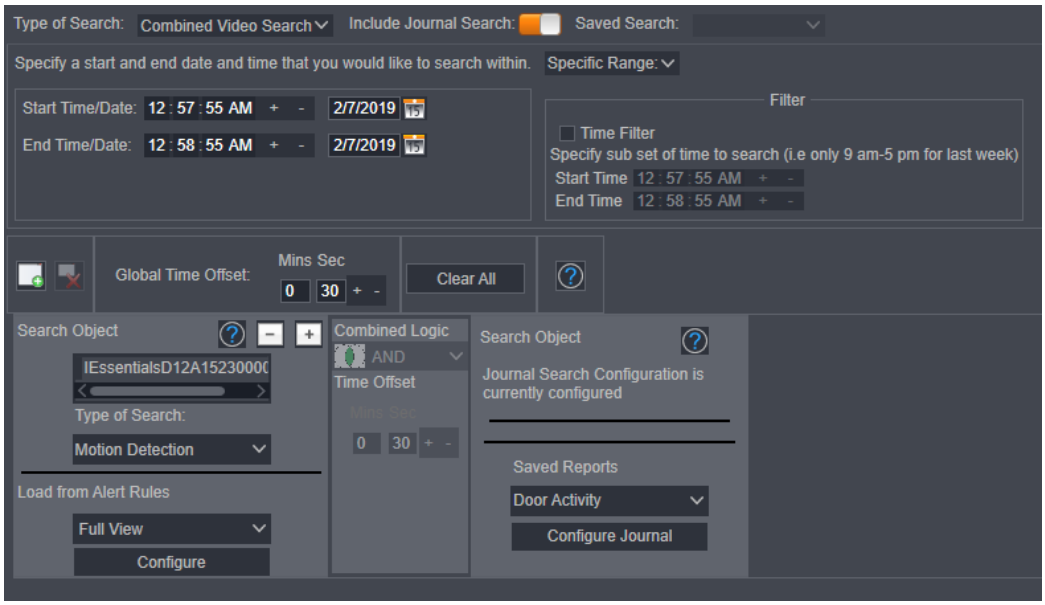
Global Time Offset

Combined video searches also include a Global Time Offset. This time offset provides a buffer of additional time before the start time and after the end time an event. This buffer increases the overall duration of search object events. This increases the chance of search object events occurring during the same time period. You can adjust this setting to increase or decrease the number of search results. Decrease the offset to reduce the number of results. Increase the offset to increase the number of search results.

Journal searches

When you include a Journal Search in your combined video search, you must configure one of the search objects as a journal search. You can manually configure the journal search parameters, or you can use a saved report to automatically configure journal search parameters.

Figure 22: Combined Video search



Note:
Report parameters may vary from the journal search parameters that are available in a combined video search.

Performing a Combined Video search

Use a Combined Video search to integrate multiple analytic searches into a single search. If required, you can also search through Journal objects as part of a combined video search. You can use Combined Logic to refine the search parameters.

Note:
Before you perform a combined video search, check the journal for the activity that you want to search for. This ensures that you can search in a more specific time frame, and will reduce the chance of false-positive results

1. Select 
2. Select **Execute Search Wizard**. The Search and Retrieval Wizard launches.
3. Drag and drop a camera from the Device list, Site list, or Vault list onto the Camera Selector pane.
4. From the **Type of Search** list, select **Combined Video Search**.
5. (Optional) Select the **Include Journal Search** switch to add a Journal Search to one of the search objects.
6. Specify date and time parameters for the search.

Note:
Selecting **Specific Range** also allows selection of **Time Filter** options. Time Filter options can be used to specify a sub-set of time to search. For example, only search between 9am and 5pm. Select the **Time Filter** checkbox to enable.

7 (Optional) Edit the **Global Time Offset**.

8 Select one of the following Combined Logic options:

- AND - Returns a search result when it detects an event on each camera in the search, within the same time frame.
- OR - Returns a search result when it detects an event on any camera in the search.
- NOT - Returns a search result when it detects an event on only one camera in the search, within a specific time frame.

9 (Optional) Select  to add a Search Object to the combined search.

10 (Optional) Delete a Search Object from the combined search.

a Select a Search Object to delete.

b Select 

Note:
• A Combined Video search can contain from two to five Search Objects.
• The NOT logic only supports two Search Objects.

11 Configure Search objects:

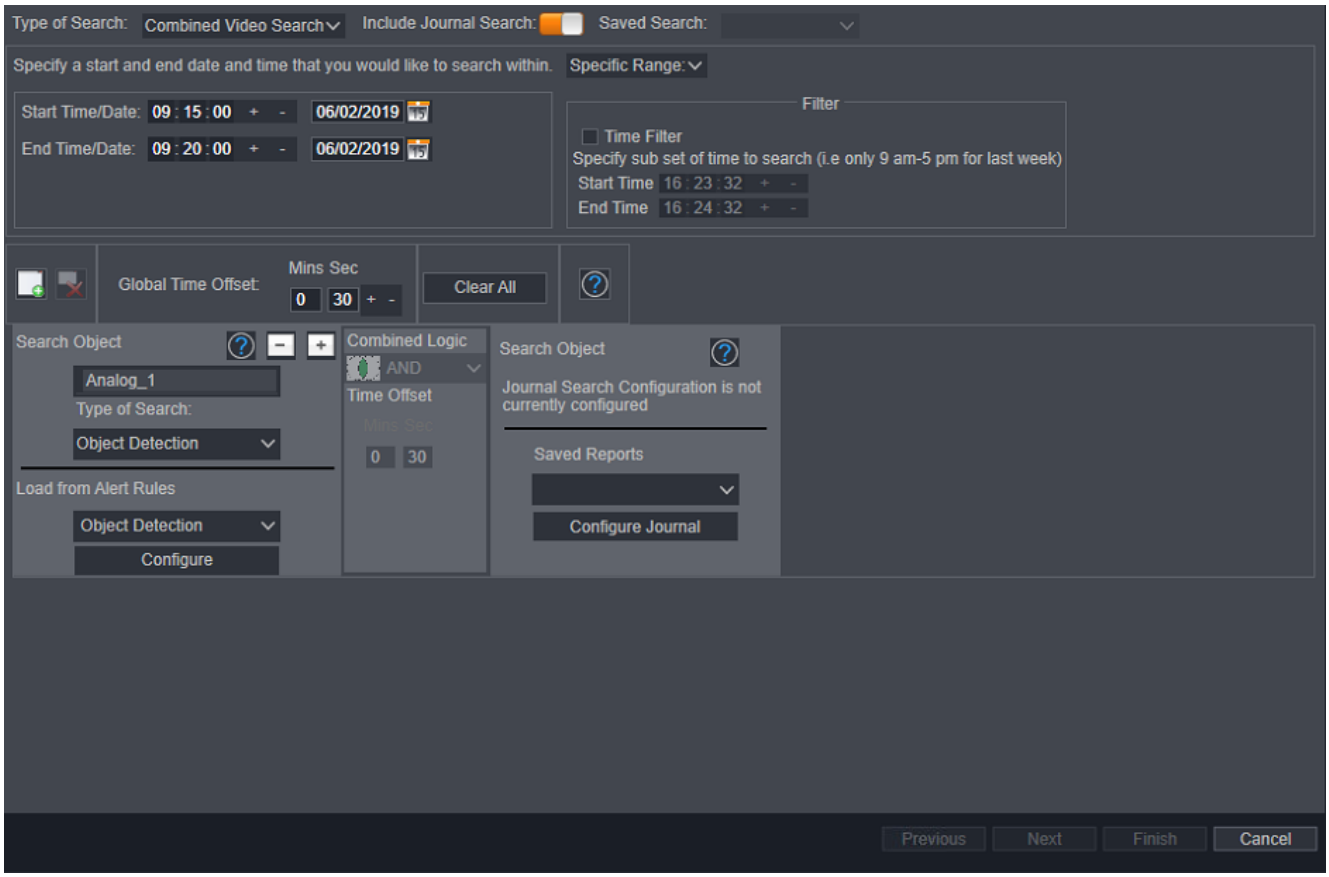
a Select  , and then use the object selector to assign a camera to the Search Object.

b Select a search from the **Type of Search** list.

c To configure the Alert rules, select one of the following options:

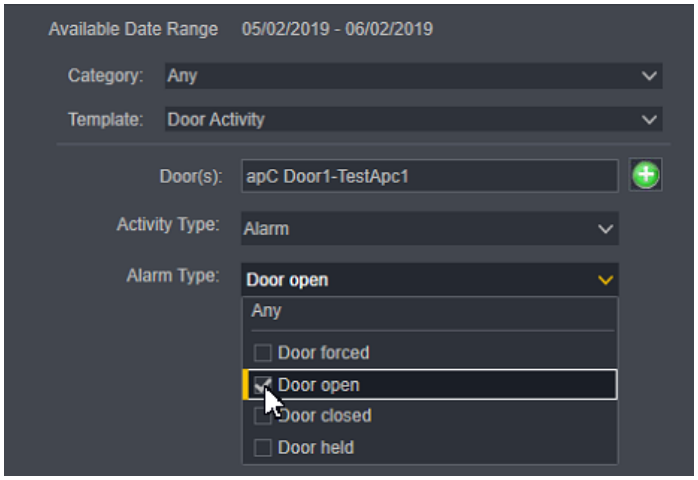
- To use an existing alert rule, select the alert rule from the list.
- To configure a new alert rule, click **Configure**.

12 (Journal Search only) Use one of the following methods to configure Journal Search settings:



- Manually configure a Journal search:
    a. Click **Configure Journal**.
    b. Select an activity category from the **Category** list.
    c. Select an activity type from the **Template** list.
    d. Configure the template parameters.

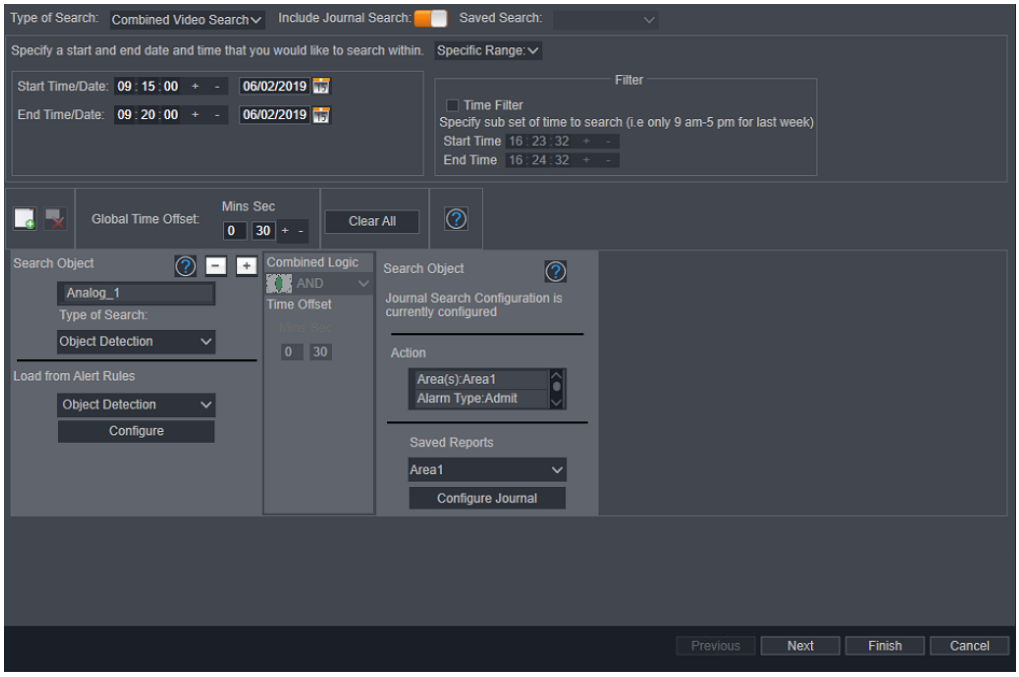
Note:
• Template parameters vary, depending on the Template that you select.
• For some template parameters, Doors for example, you can select multiple objects.
• Mandatory template parameters display the **Find items to search for** icon beside them. You must configure mandatory template parameters to successfully configure the journal search.



- Use a saved report to automatically configure a Journal search:

    a. From the Saved Reports list, select a saved report

d Select **Next** to apply the journal configuration.



13 Select **Next**. The Search Parameters screen displays.

14 Select **Finish** to execute the search.

Motion Detection search

Motion detection search allows users to search for motion in a specific cameras field of view. This allows the user to skip directly to areas that may be of interest, rather than having to search through hours of video in order to search for a particular event.

Motion detection based searches and motion based alarms are handled differently within the client. Motion detection based searches are independent of motion alarm regions that are configured on a recorder. Motion detection based searches performed on VideoEdge NVR's do not search actual video footage, but rather metadata generated by the NVR. Therefore, search results are dependent on the sensitivity level settings when the video is processed. If no motion metadata is generated for a particular time period, no results will be returned when you search on that time period.

Note:
• Motion detection searches performed on the client from Intellex units search actual video footage so results depend on sensitivity settings set in the client.
• Motion detection searches are not available on HDVR/exacqVision or ADTVR units.
• Edge-based motion detection searches can be executed on supported American Dynamics Cameras.

Performing a Motion Detection search

You can use the Search and Retrieval Wizard to search video footage using a motion filter to look for movement in specific areas within a camera view. Specific areas may also be searched by exception.

Note:
When searching on VideoEdge NVR 4.2+ recorders, motion detection search is only enabled when Motion Detection

is enabled in the camera setup. For cameras with Video Intelligence or Deep Intelligence enabled, refer to Performing a Motion Detection search.

1 Select 

2 Select **Execute Search Wizard**. The Search and Retrieval Wizard launches.

3 Drag and drop a camera from the Device, Site or Vault list onto the Camera Selector Pane.

4 Select **Motion Detection** from the **Type of Search** drop down menu.

5 Specify Date and Time parameters in the **Date and Time** pane.

Note:
Selecting **Specific Range** also allows selection of **Time Filter** options. Time Filter options can be used to specify a sub-set of time to search. For example, only search between 9am and 5pm. Select the **Time Filter** checkbox to enable.

6 Select **Next**. The Search Parameters screen displays.

Note:

The video stream reverts to the start time selected for the search. To view live video, select  .

7 Select the required **Draw Style** and draw a Region of Interest (ROI):

- **Polygon**: Draw a polygon by clicking once on the image and dragging the cursor to form a line. Complete a line by clicking again. Repeat to form the ROI. Double-click when the shape is complete to finalize the search area. Use **Clear** to restart drawing and **Erase** to correct errors.
- **Rectangle**: Highlight the ROI by clicking and dragging the cursor over the camera view to form a rectangle. Use **Clear** to restart drawing and **Erase** to correct errors.
- **Free Draw**: Draw the ROI freehand on the camera view. Use **Clear** to restart drawing and **Erase** to correct errors.

Note:
• By default the ROI drawn is the **Active Region**, this can be inverted by selecting Invert **Selection**.
• The full camera view can be selected as the Active Region by selecting **Select All.**
• **Load Alarm Rule** allows you to load a previously configured rule from a VideoEdge NVR 4.2+ recorder. Select this option to apply VideoEdge rule information to search criteria for a victor Client search. Search parameters are populated from the rule but can be edited if required. Refer to Performing a Motion Detection search for more information on alarm rules.

8 Adjust Parameters as required to suit your search type. Available Parameters are dependent on recorder and camera type.

9 Select **Next**. The **Confirmation** screen displays. Confirm your search criteria are correct. Select **Previous** to return to the previous screen to make changes. Select **Finish** to execute the search.

10 Search and Retrieval Wizard closes and the **Advanced Search Results** tab opens displaying search results. Double-click on a search result to view associated video.

Wearable cameras

You can view video clips retrieved from wearable cameras using the Video Search and Retrieval Wizard.

Note: You must enable configure a wearable camera in VideoEdge to retrieve clips in victor. For more information, refer to the VideoEdge Installation and User Guide.

Performing a wearable camera search

1. Select the **New Tab** icon.
2. Select the **Execute Search Wizard** icon. The Video Search and Retrieval Wizard launches.
3. From the **Devices** list, drag and drop a camera from the Device, Site or Vault list onto the Camera Selector Pane.
4. To search for a wearer on one camera, drag and drop the camera into the **Video Search and Retrieval Wizard**.
5. To search for a wearer over multiple cameras, drag and drop the recorder into the **Video Search and Retrieve Wizard**.
6. From the **Type of Search** list, select **Wearable Cameras**.
7. In the **Operator ID** list, select an operator ID.

   Note:
   You can only search for a wearer when accessing the VideoEdge Recorder for SSL, secure connection.

8. Specify a start and end date, and a time in the **Date and Time** pane.

   Note:
   Selecting **Specific Range** also allows the selection of **Time Filter** options. Time Filter options can be used to specify a sub-set of time to search. For example, only search between 9am and 5pm. Select the **Time Filter** checkbox to enable.

9. Select **Next**. The Search Parameters screen displays.

   Note:
   The video stream shows the start time selected. To view live video, select the **Playback** icon.

Direct Camera Access

You can access a camera Web GUI and configure a camera's firmware on a private network through victor Client or the VideoEdge Web GUI.

Note the following:

- This feature supports Illustra cameras that support the iAPI3 device handler only. For a list of supported Illustra cameras, refer to the VideoEdge Camera Handler Release Notes.
- For more information on accessing this feature in VideoEdge, refer to the *VideoEdge Installation and User Guide*.

Enabling Direct Camera Access

1. From the **Devices** list, right-click the camera. The actions menu displays.
2. Click **Configure** and then click **Configure Functions and Streams**.
3. Complete the **Function Configuration** section.
4. Complete the **Stream Configuration** section.
5. In the **Direct Access** section, click **Configure**.

   The Direct Camera Access tab opens on the camera Web GUI login page.

   Note:
   The Direct Camera Access section will appear disabled if the camera firmware does not support the Direct Camera Access feature.

6. Enter your Illustra camera username and password credentials.

You are now connected to the camera Web GUI.

Note:
The camera Web GUI will appear in the same tab as the Functions and Streams page. You must close the tab to reload the Functions and Streams page.

Intelligent Search – Person

The Intelligent Search - Person analytic enables you track a person from entrance point to exit point. You can search the image of a person across multiple cameras and NVRs over specific time and date ranges. The image can be previously saved or a still image capture. Results can be sorted by relevance or time and can be combined into a single clip to save or export.

Note: Intelligent Search - Person is a licensed add-on analytic for VideoEdge. You must enable Intelligent Search Person on a camera in VideoEdge to use the analytic in victor. For more information, refer to the *VideoEdge Installation and User Guide*.

Performing an Intelligent Search - Person analytic

Table 9: Intelligent Search - Person icons

Icon	Description
	Intelligent Search - Person
	Click to paste image from clipboard
	Click to select image from file

1. In a surveillance window, pause a video stream and then click the **Intelligent Search - Person** icon in the toolbar.
2. Capture a screenshot by clicking and dragging the cursor over the person. This opens the Intelligent Search - Person dialog.

   Note: You can also open the Intelligent Search - Person dialog by clicking the **Intelligent Search - Person** icon on the main toolbar.
3. In the **Maximum hits** field, enter a maximum number of hits.
4. Add an image using one of the following:
   - Click the **Click to paste image from clipboard** icon.
   - Click the **Click to select image from file** icon.
5. Expand the **Advanced Criteria** menu for advanced options:
   - To search for the image across all cameras, select **All cameras**.

- To search for the image in specific cameras, select **Specific Cameras**.
- From the timeframe dropdown menu, select a pre-configured time or configure a specific time by clicking **Specific Range**.

6 Click **Search**.

When the **Progress** bar reaches 100%, camera clips where the image was captured display in the **Search Results** window.

7 **Optional:** Filter search results as follows:

- From the **Order By** list, select a rank, time, or camera.
- Click the **Clip Export** icon to combine and save search results. For more information, see *Exporting a clip*.
- Select the **Only show selected hits** check box to view only your selected camera clips.
- Clear the **Only show selected hits** check box to view all the camera clips.

8 View your search results in live video mode as follows:

a Click on the required search results. All selected search results have a yellow border.

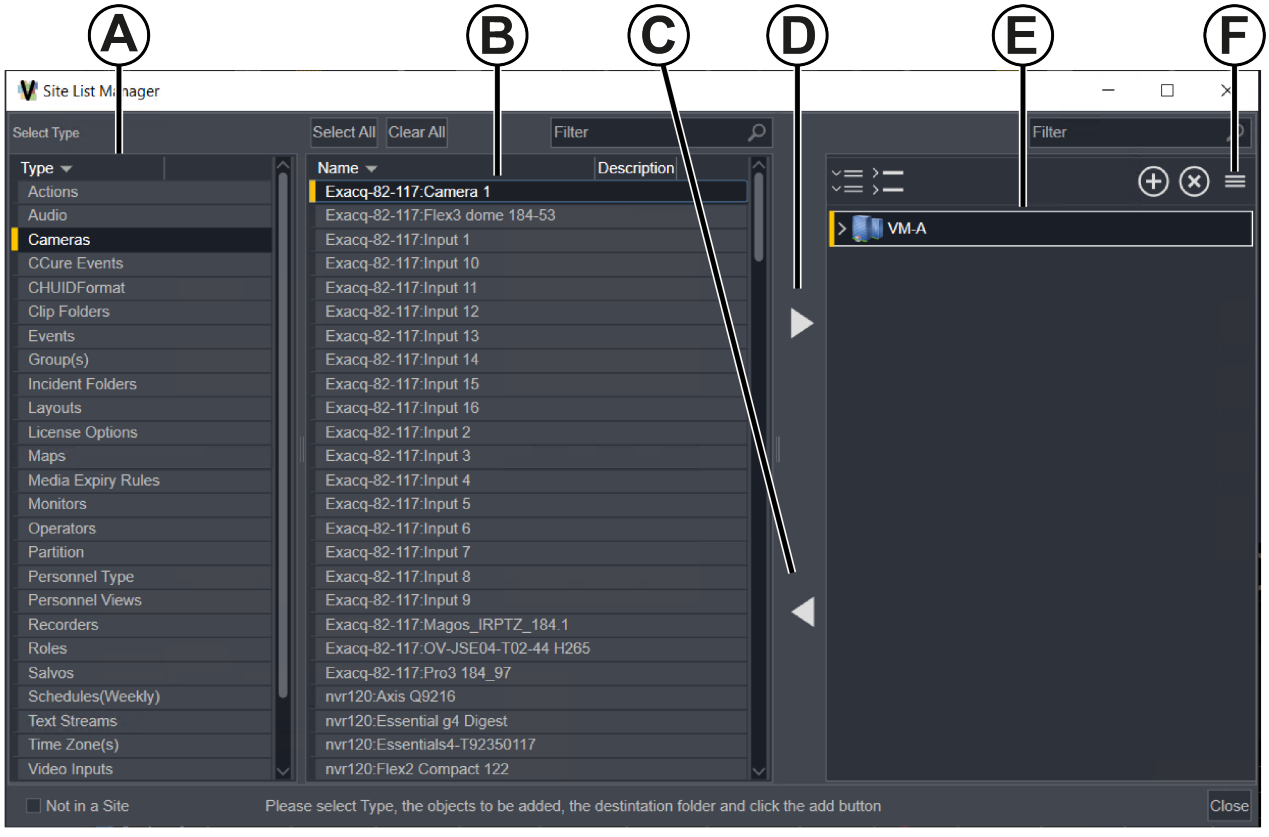
b Click the **Show View** icon. The live view pane of each search result displays.

Site List Manager

The Site List Manager enables you to configure a site group and add objects to that site.

Note:
The Site List Manager is available to all admin users.

Figure 23: Site List Manager



Callout	Description
A	Type list
B	Object list
C	Right arrow icon: Used to add objects
D	Left arrow icon: Used to remove objects
E	Site list
F	Menu

Configuring a site using the Site List Manager

1 From the Navigation bar, click the **Sites** icon.

2 Click the Menu icon and then click **Site List Manager**.

The Site List Manager window opens.

3 **Optional:** To add a site:

a Click the **Add** icon.

b Enter a name in the **Name** field and then click **OK**. The new site appears in the Site list.

4 **Optional:** To edit an existing site, click the site in the Site list.

You can search for a site using one of the following methods:

- Enter the site name in the **Filter** field.
- Click the Menu to sort the Site list either alphabetically, by group, or in ascending or descending order.

5 **Optional:** To add an object to a site:

a Click the site in the Site list.

b From the **Type** list, select the object type. A list of objects displays.

c **Optional:** To select a range of objects, press and hold Shift and click the objects.

d **Optional:** To select multiple objects, press and hold Ctrl and click each object.

Figure 24: Selecting a range of objects

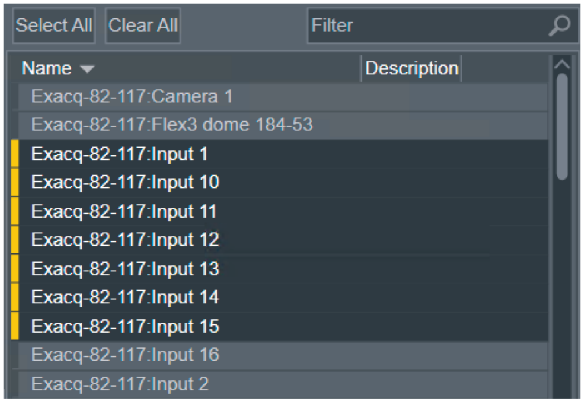
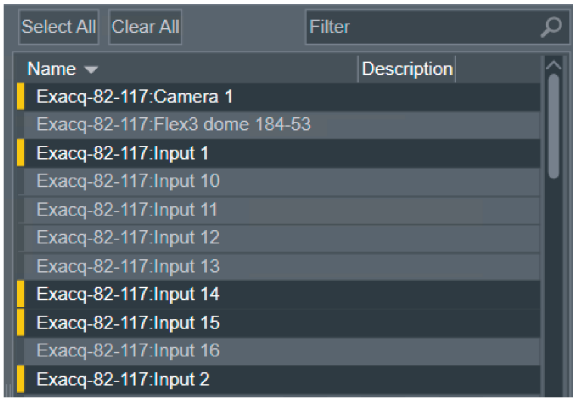


Figure 25: Selecting multiple objects



e Click the right arrow icon. The objects move into the site folder.

6 **Optional:** To remove an object from a site:

a Select the object from the Site folder.

b Click the left arrow icon. The object moves back into the object list.

Note the following:

- The configuration automatically saves.
- To view the site folder objects in the surveillance window, double-click the site folder from the navigation bar.

Video Intelligence and Deep Intelligence searches

Video Intelligence searches are supported on VideoEdge NVR 4.2+ recorders. This gives users the ability to detect, track and analyze moving objects using a variety of criteria. The Video Intelligence engine is licensable on a per-channel basis.

Deep Intelligence searches are supported on VideoEdge NVR 5.3+ recorders. Deep Intelligence supports many of the same analytics as Video Intelligence, but Deep Intelligence also provides enhanced accuracy for object counting. Deep Intelligence cameras have additional installation and configuration requirements. For more information Deep Intelligence camera configuration, refer to the *Video Intelligence Best Practices guide*.

The following Video Intelligence and Deep Intelligence search types are available in victor Client:

- (Video Intelligence only) Abandoned/Removed
- Crowd Formation
- Direction
- Dwell
- Enter
- Exit
- Object Detection
- Perimeter Protection
- Linger
- Queue Length
- Tripwire

Video Intelligence and Deep Intelligence search types

VideoEdge NVR recorders support Search Analytics. This gives users the ability to detect, track and analyze moving objects using a variety of criteria. Refer to the table below for further information on the various types of Search Analytics and which versions of VideoEdge NVR support them.

In order to perform Video Intelligence searches, the feature must be enabled on the recorder and in some cases, on the specific camera required. Refer to the VideoEdge Installation and User Guide for further information.

Advanced Search Type	Description	Search Parameters	VideoEdge Version Supported
Abandoned/Removed	Use this search to find when a stationary object was placed, moved or removed. The amount changed lets you search for larger or smaller changes in the region. The within setting specifies over what time period changes can occur (0 seconds = instantaneous change). Draw a region that contains all of the area that you wish to search for	**Overlap** (Sensitivity level) - Use a higher overlap to avoid finding nearby changes or changes that are not completely in the region **Amount Changed** - Adjust to look for a larger or smaller change in the region.	4.2+ **Note:** Abandoned/Removed search is not available for Deep Intelligence searches.

Advanced Search Type	Description	Search Parameters	VideoEdge Version Supported
	changes, and use a higher overlap setting to avoid finding nearby changes or changes that are not completely in the region.	**Within** - Timeframe within which the change occurs.	
Crowd Formation	Search for times when more than a certain number of people or objects are in a region of interest. Draw a region in the area that you want to find objects forming a crowd. Use a higher overlap setting to avoid objects near the region. Set the Minimum Crowd Size to the number of objects that make a crowd.	**Overlap** (Sensitivity level) - Use a higher overlap setting to avoid objects near the region. **Minimum Crowd Size** - Minimum number of objects that determine a crowd.	4.6+
Direction	Find objects moving in a certain direction through a region of interest. Set the general direction of motion to search for, and the maximum amount of time the object can take to traverse most of the region (this excludes objects which move too slowly). Draw a thin region in the direction of motion required. Use a lower overlap setting to find objects moving in the general direction but not necessarily in the region.	**Overlap** (Sensitivity level) - A lower value will return more results. **Traversal Time** - Maximum time an object can take to traverse the region. **Direction of Motion -** The direction, North, South, East or West which the object is moving. **Color Filters** - Define a Color Filter to further refine search results.	4.2+
Dwell	Detect objects dwelling in a region of interest. An object is dwelling if it is mostly stationary. Set the minimum amount of time an object must dwell before being included in the results. Draw a region in the area where you want to detect objects dwelling. Use a higher Overlap setting to avoid detecting objects dwelling nearby.	**Overlap** (Sensitivity level) - A lower value will return more results **Dwell Time** - Minimum amount of time an object lingers before being included in results. **Color Filters** - Define a Color Filter to further refine search results.	4.5+
Enter	Find objects entering a camera view through a doorway or threshold. Draw a region containing the doorway or threshold and any area around it through which objects can be seen (like glass). Also include any area through which the door (if there is one) might move. This search excludes objects that can be seen through the doorway or threshold but do not pass through it.	**Overlap** (Sensitivity level) - Use a higher overlap setting for best results. **Color Filters** - Define a Color Filter to further refine search results.	4.2+
Exit	Find objects exiting a camera view through a doorway or threshold. Draw a region containing the doorway or threshold and any area around it through which objects can be seen (like glass). Also include any area through which the door (if there is one)	**Overlap** (Sensitivity level) - Use a higher setting to avoid finding nearby changes or changes which are not completely within the region **Color Filters** - Define a Color	4.2+

Advanced Search Type	Description	Search Parameters	VideoEdge Version Supported
	might move. This search excludes objects that walk up to the doorway but do not pass through it.	Filter to further refine search results.	
Object Detection	Find objects that move into a region of interest. This is similar to a normal motion detection search except that it only finds objects the first time they enter the region. If the objects leave the camera view and return, the search will find them again. Draw a region that covers the area to be searched for objects. Use a higher overlap setting to find objects that are mostly within the region, use a lower setting to find objects that just brush the edge of the region.	**Overlap** (Sensitivity Level) - A lower value will return more results. **Color Filters** - Define a Color Filter to further refine search results.	4.2+
Linger	Detect objects lingering in a region of interest. An object is lingering if it remains in the ROI. Set the minimum amount of time an object must linger before being included in the results. Draw a region in the area where you want to detect objects lingering. Use a higher Overlap setting to avoid detecting objects lingering nearby.	**Overlap** (Sensitivity level) - A lower value will return more results **Linger Time** - Minimum amount of time an object lingers before being included in results. **Color Filters** - Define a Color Filter to further refine search results.	4.2+
Perimeter Protection	Detect when objects enter a protected area through a perimeter area, or detect when an object is in the perimeter area for too long. Draw regions of interest to define the perimeter area and the protected area. You must also draw regions of interest to define the minimum size and the maximum size of objects that can trigger the perimeter alarm. **Note:** You can position the regions of interest for minimum and maximum object sizes anywhere on the alarm window.	**Linger Time** - Minimum amount of time an object lingers in the perimeter area before being included in results.	5.0+
Queue Length	Search for times when a queue is a certain length. Draw three regions of interest to indicate the area occupied when the queue is short, medium or long, then set the minimum and maximum zones to define the length of the queue you are looking for.	**Overlap** (Sensitivity level) - A lower value will return more results **Search for when the Queue is** - Select which criteria to use for queue search, Empty, Short, Medium, Long or Not Empty.	4.6+
Tripwire	Detect when the number of times objects cross the tripwire exceeds a certain value. Draw a region of interest to indicate the tripwire. As objects cross the tripwire,	**Count Threshold** - Enter a number in the text box to configure the count threshold. A higher value returns fewer search results.	5.3+

Advanced Search Type	Description	Search Parameters	VideoEdge Version Supported
	they increment the tripwire's running count. You can set a reset time for the running count. Set the count threshold - If the running count exceeds the count threshold, it triggers an alarm.	**Reset Time** - Enter a time in the 24-hour format. At the reset time, the running total resets. **Color Filters** - Define a Color Filter to further refine search results.	

Performing a Video Intelligence search or a Deep Intelligence search

1 Select 

2 Select **Execute Search Wizard**. The Search and Retrieval Wizard launches.

3 Drag and drop cameras from the Device, Site or Vault list onto the Camera Selector Pane.

Note:
If selecting cameras from the Vault List, Date and Time parameters are automatically populated.

4 Select the Video Intelligence or Deep Intelligence search type from the **Type of Search** drop down menu.

5 Specify Date and Time parameters in the **Date and Time** Pane.

Note:
Selecting **Specific Range** also allows selection of **Time Filter** options. Time Filter options can be used to specify a sub-set of time to search. For example, only search between 9am and 5pm. Select the **Time Filter** checkbox to enable.

6 Select **Next**. The Search Parameters screen displays.

Note:
The video stream reverts to the start time selected for the search. To view live video, select  .

7 Select the required **Draw Style** and draw a Region of Interest (ROI):

- **Polygon**: Draw a polygon by clicking once on the image and dragging the cursor to form a line. Complete a line by clicking again. Repeat to form the ROI. Double-click when the shape is complete to finalize the search area. Use **Clear** to restart drawing and **Erase** to correct errors.
- **Rectangle**: Highlight the ROI by clicking and dragging the cursor over the camera view to form a rectangle. Use **Clear** to restart drawing and **Erase** to correct errors.
- **Free Draw**: Draw the ROI freehand on the camera view. Use **Clear All** to restart drawing and **Erase** to correct errors.

Note:
• By default the ROI drawn is the **Active Region**, this can be inverted by selecting Invert Selection.
• The full camera view can be selected as the Active Region by selecting **Select All**.
• **Load Alarm Rule** allows you to load a previously configured rule from a VideoEdge NVR 4.2+ recorder. Select this option to apply VideoEdge rule information to search criteria for a victor Client search. Search parameters are populated from the rule but can be edited if required. Refer to Performing a Video Intelligence search or a Deep Intelligence search for more information on alarm rules.

8 Adjust Parameters as required to suit your search type. Available Parameters are dependent on Video Intelligence search type selected.

9 Select **Next**. The **Confirmation** screen displays. Confirm your search criteria are correct. Select **Previous** to return to the previous screen to make changes. Select **Finish** to execute the search.

10 Search and Retrieval Wizard closes and the **Advanced Search Results** tab opens displaying search results. Double-click on a search result to view associated video.

Area occupancy

You can create a room occupancy threshold and view analytics in the Room Occupancy dashboard. The dashboard displays current room occupancy, total persons in, and total persons out and is updated every five seconds. When the room occupancy threshold is exceeded, the dashboard display turns red.

Note the following:

- To use the room occupancy analytic, you must configure each camera added to a room with tripwire in VideoEdge or Tyco AI. For more information, refer to the VideoEdge Installation and User Guide.
- Area Occupancy only supports one tripwire per camera.

Configuring Area Occupancy

Table 10: Area Occupancy icons

Icon	Description
	**Area:** Opens the New Area configuration window **Area Viewer:** Opens the Area Viewer window
	Launch Dashboard View
	Areas Show All
	Remove Selected Device **Manually Reset Occupancy:** Manually resets the occupancy for Tyco AI cameras
	Remove All Devices

1 Click the **Create New Item** icon.

2 Under Collection, click the **Area** icon. The **New Area** configuration window opens.

3 In the **General** section, enter a name in the **Name** field and a description in the **Description** field.

4 In the **Properties** section, enter a maximum area occupancy threshold in the **Occupancy Threshold** field.

5 From the **Devices** list, drag and drop cameras for configuration into the **Edge Device Selector** section. Any cameras added will appear in the list with the Device Name and Recorder Name listed.

6 Click the **Apply** icon.

7 Click the **New Tab** icon and then click the **Area Viewer** icon. The **Area Viewer** window opens.

8 **Optional:** To manually reset Tyco AI cameras, click the **Manually Reset Occupancy** icon.

9 Click on the **Area Show All** icon. The **Area** window opens showing a list of all the configurations for Area Occupancy analytics.

10 Click on the **Launch Dashboard View** icon to open the dashboard.

Face Detection and Face Recognition search

Edge-based Face Detection

VideoEdge recorders support edge-based analytics, allowing Face Detection alarms and searches on supported American Dynamics Cameras.

Using edge-based analytics reduces the impact on the VideoEdge's CPU resources.

Server-based Face Detection and Face Recognition

VideoEdge NVR 4.7+ recorders support server-based facial recognition and detection, allowing searches and alarms based on this analytic type when an appropriate license is applied.

To execute a face recognition search users must be enrolled in the VideoEdge's Face Enrollment database.

Hit boxes

- A green hit box displays when a face is detected. A Face Detection alarm is triggered.
- A green hit box with temperature information displays when a face is detected and the temperature display information is enabled. See "Enabling temperature display information". A Face Detection alarm is triggered.

Performing an Edge-based Face Detection Search

VideoEdge NVR recorders support edge based analytics, allowing Face Detection alarms and searches on supported American Dynamics Cameras.

Advanced Search Type	Description	Search Parameters	VideoEdge Version Supported
Face Detection (Edge Based)	Use this search to find when a face is present in video. Draw a region that contains all of the area that you wish to search for faces and use higher overlap settings to avoid finding faces nearby.	**Overlap** (Sensitivity level) - Use a higher overlap to avoid finding nearby faces or faces that are not completely in the region	4.4+

1 Select 

2 Select **Execute Search Wizard**. The Search and Retrieval Wizard launches.

3 Drag and drop cameras from the Device, Site or Vault list onto the Camera Selector Pane.

Note:
If you select cameras from the Vault List, Date and Time parameters automatically populate.

4 Select **Face Detection** from the drop down menu.

5 Specify Date and Time parameters in the **Date and Time** Pane.

Note:
Selecting **Specific Range** also allows selection of **Time Filter** options. Time Filter options can be used to specify a sub-set of time to search. For example, only search between 9am and 5pm. Select the **Time Filter** checkbox to enable.

6 Select **Next**. The Search Parameters screen displays.

Note:
The video stream reverts to the start time selected for the search. To view live video, select  .

7 Select the required **Draw Style** and draw a Region of Interest (ROI):

- **Polygon**: Draw a polygon by clicking once on the image and dragging the cursor to form a line. Complete a line by clicking again. Repeat to form the ROI. Double-click when the shape is complete to finalize the search area. Use **Clear** to restart drawing and **Erase** to correct errors.
- **Rectangle**: Highlight the ROI by clicking and dragging the cursor over the camera view to form a rectangle. Use **Clear** to restart drawing and **Erase** to correct errors.
- **Free Draw**: Draw the ROI freehand on the camera view. Use **Clear All** to restart drawing and **Erase** to correct errors.

Note:
• By default the ROI drawn is the **Active Region**, this can be inverted by selecting Invert Selection.
• The full camera view can be selected as the Active Region by selecting **Select All**.
• **Load Alarm Rule** allows you to load a previously configured rule from a VideoEdge NVR 4.2+ recorder. Select this option to apply VideoEdge rule information to search criteria for a victor Client search. Search parameters are populated from the rule but can be edited if required. Refer to Performing an Edge-based Face Detection Search for more information on alarm rules.

8 Select the required **Overlap** percentage.

9 Select **Next**. The **Confirmation** screen displays. Confirm your search criteria are correct. Select **Previous** to return to the previous screen to make changes. Select **Finish** to execute the search.

10 Search and Retrieval Wizard closes and the **Advanced Search Results** tab opens displaying search results. Double-click on a search result to view associated video.

Performing a server-based Face Detection Search

VideoEdge NVR recorders supports server based facial recognition and detection, allowing searches and alarms based on this analytic type when an appropriate license is applied.

To execute a face recognition search users must be enrolled in the NVR's Face Enrollment database.

1 Select 

2 Select **Execute Search Wizard**. The Search and Retrieval Wizard launches.

3 Drag and drop cameras from the Device, Site or Vault list onto the Camera Selector Pane.

Note:
If selecting cameras from the Vault List, Date and Time parameters are automatically populated.

4 Select **Face Detection** from the drop down menu.

5 Specify Date and Time parameters in the **Date and Time** Pane.

Note:
Selecting **Specific Range** also allows selection of **Time Filter** options. Time Filter options can be used to specify a sub-set of time to search. For example, only search between 9am and 5pm. Select the **Time Filter** checkbox to enable.

6 Select **Next**. The Search Parameters screen displays.

Note:

The video stream reverts to the start time selected for the search. To view live video, select  .

7 Select the required **Draw Style** and draw a Region of Interest (ROI):

- **Polygon**: Draw a polygon by clicking once on the image and dragging the cursor to form a line. Complete a line by clicking again. Repeat to form the ROI. Double-click when the shape is complete to finalize the search area. Use **Clear** to restart drawing and **Erase** to correct errors.
- **Rectangle**: Highlight the ROI by clicking and dragging the cursor over the camera view to form a rectangle. Use **Clear** to restart drawing and **Erase** to correct errors.

- **Free Draw**: Draw the ROI freehand on the camera view. Use **Clear All** to restart drawing and **Erase** to correct errors.

Note:
• By default the ROI drawn is the **Active Region**, this can be inverted by selecting Invert Selection.
• The full camera view can be selected as the Active Region by selecting **Select All**.
• **Load Alarm Rule** allows you to load a previously configured rule from a VideoEdge NVR 4.2+ recorder. Select this option to apply VideoEdge rule information to search criteria for a victor Client search. Search parameters are populated from the rule but can be edited if required. Refer to Performing a server-based Face Detection Search for more information on alarm rules.

8 Select the required **Overlap** percentage.

9 Select **Next**. The **Confirmation** screen displays. Confirm your search criteria are correct. Select **Previous** to return to the previous screen to make changes. Select **Finish** to execute the search.

10 Search and Retrieval Wizard closes and the **Advanced Search Results** tab opens displaying search results. Double-click on a search result to view associated video.

Performing a server-based Face Recognition Search

1 Select 

2 Select **Execute Search Wizard**. The Search and Retrieval Wizard launches.

3 Drag and drop cameras from the Device, Site or Vault list onto the Camera Selector Pane.

Note:
If selecting cameras from the Vault List, Date and Time parameters are automatically populated.

4 Select **Face Recognition** from the drop down menu.

5 Drag and drop cameras from the Device, Site or Vault list onto the Camera Selector Pane.

Note:
If selecting cameras from the Vault List, Date and Time parameters are automatically populated.

6 Specify Date and Time parameters in the **Date and Time** Pane.

Note:
Selecting **Specific Range** also allows selection of **Time Filter** options. Time Filter options can be used to specify a sub-set of time to search. For example, only search between 9am and 5pm. Select the **Time Filter** checkbox to enable.

7 Select **Next**. The Search Parameters screen displays.

Note:
The video stream reverts to the start time selected for the search. To view live video, select  .

8 Select the required **Draw Style** and draw a Region of Interest (ROI):

- **Polygon**: Draw a polygon by clicking once on the image and dragging the cursor to form a line. Complete a line by clicking again. Repeat to form the ROI.
  Double-click when the shape is complete to finalize the search area. Use **Clear** to restart drawing and **Erase** to correct errors.
- **Rectangle**: Highlight the ROI by clicking and dragging the cursor over the camera view to form a rectangle. Use **Clear** to restart drawing and **Erase** to correct errors.
- **Free Draw**: Draw the ROI freehand on the camera view. Use **Clear All** to restart drawing and **Erase** to correct errors.

Note:
• By default the ROI drawn is the **Active Region**, this can be inverted by selecting Invert Selection.
• The full camera view can be selected as the Active Region by selecting **Select All**.
• **Load Alarm Rule** allows you to load a previously configured rule from a VideoEdge NVR 4.2+

recorder. Select this option to apply VideoEdge rule information to search criteria for a victor Client search. Search parameters are populated from the rule but can be edited if required. Refer to Performing a server-based Face Recognition Search for more information on alarm rules.

9 Select the required **Overlap** percentage.

10 Use the  and  to move users into/out of the search list (right hand pane).

11 Select **Exclude** or **Include** from the Face Search List Type drop down.

Note:
Exclude - This will search for matches against all enrolled users in the enrollment database, with the exception of the users in the search list.

Include - This will search for matches against users in the enrollment database, which have been added to the search list only.

12 Select **Next**. The **Confirmation** screen displays. Confirm your search criteria are correct. Select **Previous** to return to the previous screen to make changes. Select **Finish** to execute the search.

13 Search and Retrieval Wizard closes and the **Advanced Search Results** tab opens displaying search results. Double-click on a search result to view associated video.

Edge Elevated Skin Temperature

victor Unified Client events can be configured to receive Edge alerts from VideoEdge with an Illustra Pro 5MP Thermal Bullet Camera.

Elevated Skin Temperature alerts are received in combination with the camera's Edge Face Detection alarms. The camera sends a Face Detection notification for each face detected. If the temperature is considered high, as per the camera configuration, an additional Elevated Skin Temperature is triggered.

The temperature information received from VideoEdge Edge alerts can also be stored and displayed. If an elevated skin temperature is detected, a red hit box with the temperature displays. An Elevated Skin Temperature alarm is triggered.

Configuring Elevated Skin Temperature alerts

1 Click the **Create new item** icon and then click **Event**.

2 Configure an event for Elevated Skin Temperature. For more information, see *Creating an event*.

3 Click the **System Configuration** icon and then click the **Event/Schedule Setup** icon. The Events/Schedule Setup page opens with three nodes: Devices, Alerts, and Actions.

4 To populate the **Devices** node, select a camera using one of the following methods:

a Double click on the **Devices** node. The **Object Selector** opens.

b From the **Devices** list, drag and drop a camera into the **Events/Schedule Setup** page.

The camera appears as a Devices node.

5 Click the **Select alert type** icon. The **Select Alert** list opens.

6 Select the **Elevated Skin Temperature** check box. Elevated Skin Temperature appears as an Alerts node.

7 In the **Alerts** node, click the **Click here to select action to trigger from this alert** icon. The Object Selector opens.

8 Select **Change Event State Actions**. A list of configured events displays.

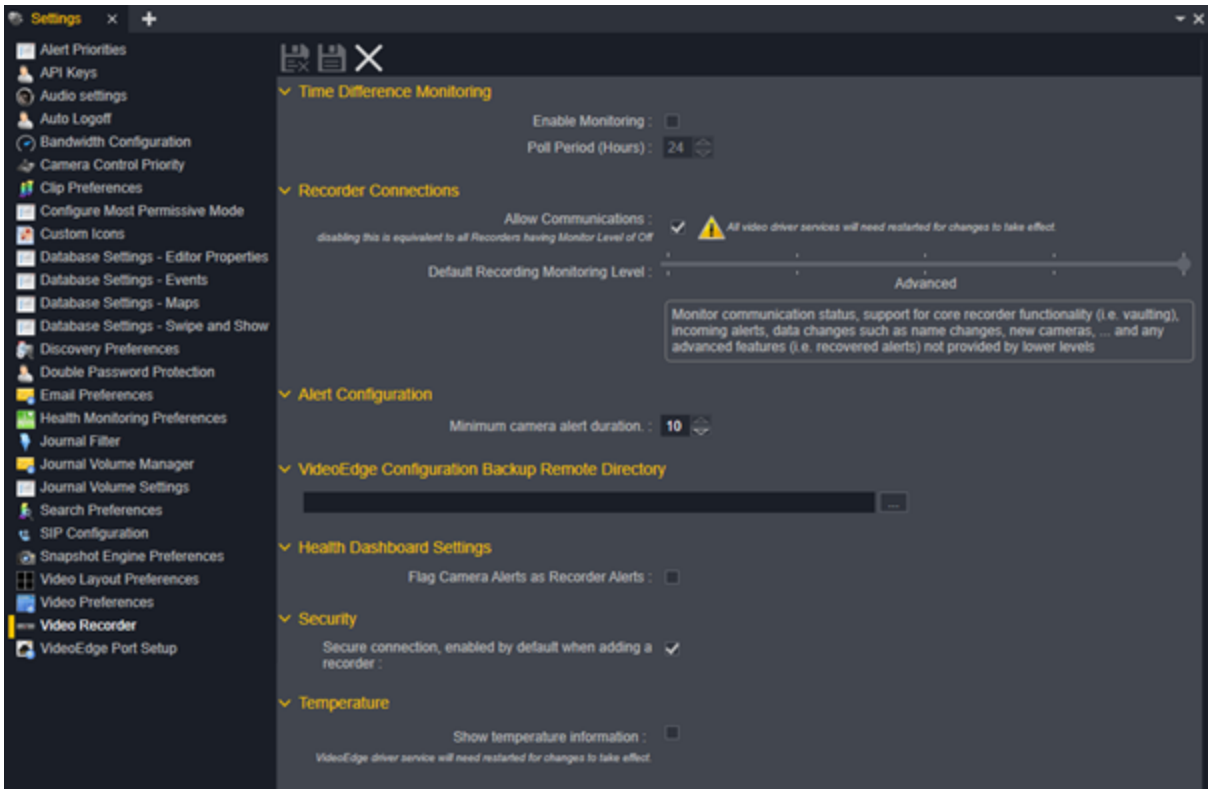
9 Select the elevated skin temperature event you configured.

Note:
The event name appears as: Activate Event + *your event name*.

10 Click the **Apply** icon. The elevated skin temperature alert is configured.

Enabling temperature display information

Figure 26: Enabling temperature display information



1 Click the **System Configuration** icon, click **Settings**, and then click **Video Recorder**.

2 Expand the **Temperature** section and select the **Show temperature information** check box.

A warning message displays as follows: **Warning: Data Protection Policy.**

3 Click **Yes** and then click the **Save** icon.

4 Restart the VideoEdge Driver Service as follows:

a On your desktop, right-click the **Server Configuration** icon and then click **Run as administrator**. A warning message displays as follows: **Do you want to allow this app to make chances to your device?**

b Click **Yes**. The Server Configuration Application opens.

c Navigate to the **American Dynamics VideoEdge Driver Service**, click **Stop**, and then click **Start**.

Note:
You must stop and restart the service for the changes to take effect.

Viewing temperature display information

Note:
You can configure the temperature to display in either degrees Celsius or Fahrenheit.

To view temperature display information:

1 Open the thermal camera surveillance window.

2 Select the **View Alert Hit Boxes** icon to enable the following analytic overlays in the surveillance window:

- Movement trails
- Boundary boxes
- Object identifiers
- Tripwires
- Filter alarms

Note:
You can also click **Show All**.

3 To open the Event Viewer, click the **Number of active alerts** icon.

4 To review a temperature detection event, right-click on the event, click **VideoEdge IP Cameras**, and then click **Review**.

Note:
The thermal camera, VideoEdge, and victor must be time synced for the live overlay to display correctly.

Edge Mask Missing

victor Unified Client events can be configured to receive Edge alerts from VideoEdge with a Illustra Pro 5MP Thermal Bullet Camera for Mask Missing Notifications.

Mask Missing Edge notifications are received in combination with the camera's Edge Face Detection alarms. The camera will send a Face Detection notification for each face detected. If a mask is missing, as per the camera configuration, it will trigger an additional Mask Missing alert.

If a Mask Missing is detected, a red hit box displays. Temperatures will also display if enabled. A Mask Missing alarm is triggered.

Configuring Mask Missing alerts

1 Click the **Create new item** icon and then click **Event**.

2 Configure an event for Mask Missing. For more information, see *Creating an event*.

3 Click the **System Configuration** icon and then click the **Event/Schedule Setup** icon. The Events/Schedule Setup page opens with three nodes: Devices, Alerts, and Actions.

4 To populate the **Devices** node, select a camera using one of the following methods:

a Double click on the **Devices** node. The **Object Selector** opens.

b From the **Devices** list, drag and drop a camera into the **Events/Schedule Setup** page.

The camera appears as a Devices node.

5 Click the **Select alert type** icon.

6 Select the **Mask Missing** check box. Mask Missing appears as an Alerts node.

7 In the **Alerts** node, click the **Click here to select action to trigger from this alert** icon.

8 Select **Change Event State Actions**. A list of configured events displays.

9 Select the Mask Missing event you configured and then click **OK**.

Note:
The event name appears as: Activate Event + *your event name*.

10 Click the **Apply** icon.

The Mask Missing alert is configured.

Edge Object Classification

You can configure an object classification alarm on an Illustra Pro 4 camera in VideoEdge. The alarm sends an alert to victor when an object is detected using edge analytics.

You can view object classification alerts in the camera surveillance window and Activity List. You can also specify the following search parameters using the Illustra AI - Analytic Search feature:

- Start and end time
- Object classification
- Confidence percentage
- Region of interest

A hit box displays with the object classification and confidence score percentage when an object is detected.

Note:
This feature supports Illustra Pro 4 cameras only.

For more information on configuring an object classification alarm in VideoEdge, refer to the *Edge Object Classification* section of the *VideoEdge Installation and User Guide*.

Viewing Object Classification alerts

Surveillance window and Activity List

1. **Optional:** To view alerts in the camera surveillance window, click the **View Alert Hit Boxes** icon.
2. **Optional:** To view alerts in the Activity List:
   a. Click the **New Tab** icon and then click **Activity**.
   b. Right-click on the activity, click **VideoEdge IP Cameras**, and then click **Review**.

Using the Illustra AI - Analytic Search

1. From the **Devices** list, right-click the camera, click **Search and Retrieve**, and then click **Execute Search Wizard**.
   The Object select and Date/Time Configuration window for the selected camera opens.
2. From the **Type of Search** list, select **Illustra AI**.
3. Specify a search time from the list in the **Specify a start and end date and time you would like to search within** section.
4. Click Next.
   The Illustra AI - Analytic Search window for the selected camera opens.
5. From the **Object Type** list, select an object type or multiple object types you want to display.

   Note:
   The Object Type list is auto populated with all object types that have been detected on the camera.
6. In the **Confidence (1-100%)** section, move the percentage to an appropriate confidence level setting.
7. Configure a region of interest using the drawing tools.
8. Click **Next** and then click **Finish**.
9. The Search Results bar displays a list of alert results with the following information:
   - Start Time
   - End Time
   - Duration
   - Object Classification

10 Click on a result and then click the **Play Forward** icon to view the video clip.

Note:
You can also use the arrows under a video clip to jump through the list of activities.

Tyco AI

victor Client can be configured to receive events from Tyco AI for the following:

- Face Recognition
- People Counting
- Mask Detection

Note the following:

- Mask detection is called Mask Missing because an event is triggered when a person is not wearing a mask.
- You can manually reset the occupancy for all Tyco AI cameras using the Area Viewer. For more information, see *"Configuring Area Occupancy"*.

Adding a Tyco AI Server to victor

1 Click the **Create New Item** icon. The **Create New Item** page opens.
2 Scroll down to the **Video** section and select **Recorder**. The **Recorder Configuration** page opens.
3 In the **IP Address/Domain Name** field, enter an IP address.
4 In the **Communication Port** field, ensure the port is set to 8080.
5 In the **User Name** and **Password** fields, enter the Tyco AI REST API credentials.
6 Verify the **Secure Connection** checkbox is selected to enable secure connection.
7 Click the **Save** icon.

Creating a victor event for Tyco AI

Use the following guidelines to create Tyco AI event for:

- Face Recognition
- People Counting
- Mask Detection

Before you begin, note the following:

- **Tyco AI Video Input:** Associate the Tyco AI Video Input to the VideoEdge camera using the "Context Info" field when adding a video input to Tyco AI. Use the format:

  RemoteServerIp: xxx.xxx.xxx.xxx, Camera: 1

- **Camera configuration:** Because the VideoEdge is linked to Tyco AI, the camera from the VideoEdge should be used when creating the event.
- **People Counting:** When creating an event for People Counting:
  a Configure a tripwire using Tyco AI.
  b Ensure that the associated VideoEdge camera does not have a tripwire configuration. This ensures an accurate reading when used in conjunction with the Area Occupancy feature. For more information, see "Configuring Area Occupancy".

To create a victor event for Tyco AI, complete the following:

1. Click the **System Configuration** icon. The Configuration page opens.
2. Select **Event/Schedule Setup**.The Events/Schedule Setup page opens with three nodes: Devices, Alerts, and Actions.
3. To populate the **Devices** node, select a Tyco AI camera using one of the following:
   a. Double click on the **Devices** node. The Object Selector opens.
   b. From the **Devices** list, drag and drop a camera into the pane.
4. Click the **Select alert type** icon. The Select Alert list opens.
5. Select the Tyco AI alert you are configuring from the list. The alert appears as an Alerts node.
6. In the **Alerts** node, click the **Click here to select action to trigger from this alert icon**. The Object Selector opens.
7. Select **Change Event State Actions**. A list of configured events displays.
8. Select the required event or action from the list and click **OK**.
9. Click the **Save** icon.

Tyco AI WAN support

You can configure wide area network (WAN) support details for a Tyco AI system.

Configuring Tyco AI WAN support

1. From the **Devices** list, right-click the Tyco AI server and then click **Edit**.
2. Expand the **WAN Configuration** section.
3. Enter the appropriate details in the **IP Address/Domain Name** field.
4. Enter the appropriate details in the **Communication Port** field.
5. Click the **Save** icon. Tyco AI WAN support settings are updated.

Text Stream search

victor Client's text stream search provides a means of searching text from configured VideoEdge devices (V4.5+) and from Intellex devices. You can search for all text values within a defined time period, and you can configure additional parameters to filter your search results. You can search through text streams from VideoEdge and Intellex recorders.

Use the Search and Retrieve wizard to perform text stream searches.

Intellex Recorders

You can also perform text stream searches on Intellex text streams. However, there are some additional restrictions in place on Intellex text stream searches:

- You can search through multiple text streams from the same Intellex recorder simultaneously.
- You cannot search through text streams from more than one Intellex recorder simultaneously.
- You cannot add a text stream from another recorder to an Intellex text stream search.
- You cannot use victor Client to create text stream rules for an Intellex text stream

Text Stream rules

Text Stream Rules allow you to fine tune a Text Stream search. User defined rules may be used to filter search results and you can add multiple rules or use no rules for searches.

You can select rules that are defined on VideoEdge recorders from victor Client's search and retrieve wizard to enable the rules to be applied in victor Client searches, alternatively you can define and apply text stream rules in victor Client as part of the search process.

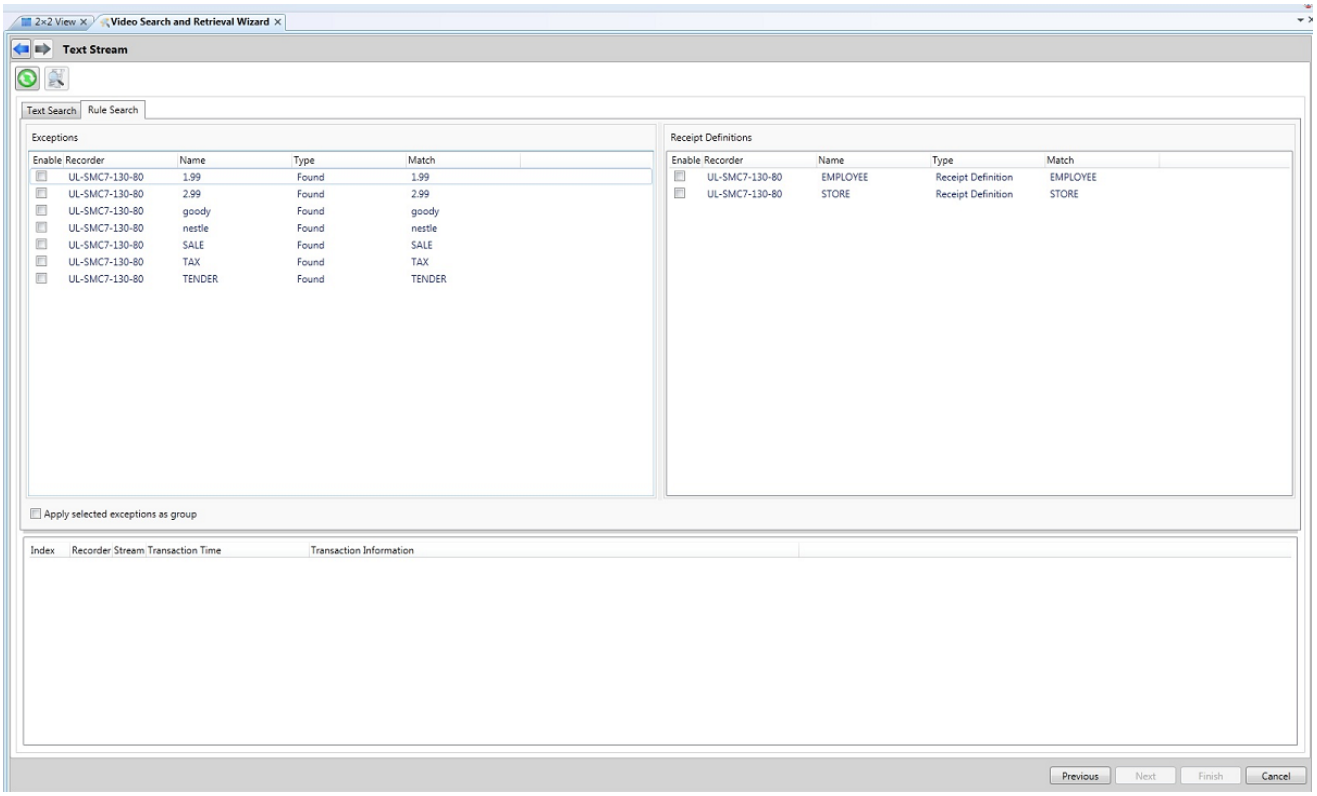
Note:
• You must select at least one rule to search under for VideoEdge or a rule or receipt definition for Intellex.
• For Intellex text stream searches, you cannot define additional text stream rules in victor Client. You must create new rules on the Intellex recorder.

Rule Groups are used to define a set of rules such that all would have to be true to trigger an alarm. Rules are either '**OR**' or '**AND**'. So when you perform a text stream search, you can identify 'AND' or 'OR'. If you selected 'AND', this implies 'RuleGroup', such that all rules would need to be satisfied for the search result to return true.

To configure an **OR** rule group for an Intellex text stream search, select multiple rules from the Exceptions window. To configure an **AND** search for an Intellex text stream, you must select the Alarm Rule and Receipt Definition, and then select the **Apply selected exceptions as group** checkbox.

Text stream rules can also be used to configure alarms. For example, if you always wanted to know when cash sales were over $50 or when there was a void, you could define a rule as such.

Figure 27: Intellex text stream search



Performing a text stream search

1 Select 

2 Select **Execute Search Wizard**. The Search and Retrieve Wizard launches.

3 Drag a text stream device from the device list into the device selector pane.

Note:
You cannot add a camera to a text stream search. If you add a camera to the search, the camera replaces the text stream.

4 Specify Date and Time parameters in the **Date and Time** Pane.

Note:
Selecting **Specific Range** also allows selection of **Time Filter** options. Time Filter options can be used to specify a sub-set of time to search. For example, only search between 9am and 5pm. Select the **Time Filter** checkbox to enable.

5 Select **Next**.

6 (VideoEdge only) The Text stream rules window appears. Select rule checkboxes to apply existing VideoEdge rules to the search (if applicable). Use **And/Or** operators as required to filter your results.

To define custom rules:

a Select  . **Rule edit** dialog displays.

b Enter a name for the rule in the **Rule Name** textbox.

c Enter a value for the text match in the **Match with** textbox. This is the primary value associated with the rule which is used by the search wizard.

d Enter the **Search Direction** associated with the rule (Forward or Reverse)

e Enter **Jump n Results** value (numbers of characters ahead of the search term to include in results)

f Enter **Criteria** (operator for the rule).

g Enter **Value 1** for your chosen criteria.

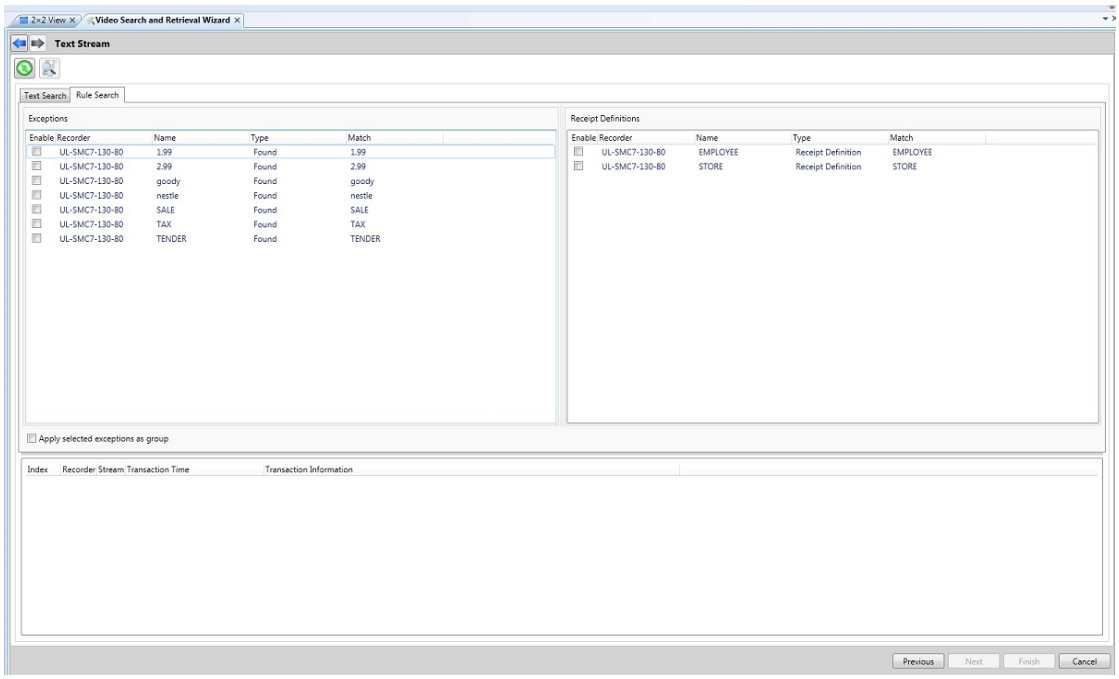
Note:
If your chosen criteria requires two values, you must also enter **Value 2**.

h Select **Save**.

i (Optional) Select  to test the rule and gain a preview of the results.

(Intellex only) The Text Stream page appears. Choose the search type:

- Text Search
    a. Select the **Text Search** tab.
    b. Enter text in the **Search for** field.
- Rule Search
    a. Select the **Rule Search** tab.



b. Select an exception checkbox from the **Exceptions** section.

c. Select a receipt checkbox from the **Receipt Definitions** section.

Note:
You must select at least one exception or receipt definition.

7 Select **Next**. The **Confirmation** screen displays. Confirm your search criteria are correct. Select **Previous** to return to the previous screen to make changes. Select **Finish** to execute the search.

8 Search and Retrieval Wizard closes and the **Text stream based Search Results** tab opens displaying search results. Double-click on a search result to view associated video and text stream.

License Plate Recognition search

This feature gives users the ability to detect vehicle license plates, and to create searches and alarms based on this analytic type. Search parameters can be customized to search for specific license plates, or to search for unrecognized license plates. License Plate Recognition searches can be performed using the search and retrieve wizard.

Note:
Depending on your locality, License Plate Recognition (LPR) may also be called Automatic Number Plate Recognition (ANPR).

License Plate Recognition is a licensable feature for VideoEdge 5.0+ recorders. Before you perform a License Plate Recognition search, the following criteria must be met:

- You must purchase a License Plate Recognition license for the camera
- The camera must capture at least one license plate.

Performing a License Plate Recognition search

1 Select 

2 Select **Execute Search Wizard**. The Search and Retrieval Wizard launches.

3 Drag and drop cameras from the Device, Site or Vault list onto the Camera Selector Pane.

Note:
If selecting cameras from the Vault List, Date and Time parameters are automatically populated.

4 Select **License Plate Recognition** from the **Type of Search** drop down menu.

5 Specify Date and Time parameters in the **Date and Time** Pane.

Note:
Selecting **Specific Range** also allows selection of **Time Filter** options. Time Filter options can be used to specify a sub-set of time to search. For example, only search between 9am and 5pm. Select the **Time Filter** checkbox to enable.

6 Select **Next**. The Search Parameters screen displays.

Note:

The video stream reverts to the start time selected for the search. To view live video, select  .

7 Select the required **Draw Style** and draw a Region of Interest (ROI):

- **Polygon**: Draw a polygon by clicking once on the image and dragging the cursor to form a line. Complete a line by clicking again. Repeat to form the ROI.
  Double-click when the shape is complete to finalize the search area. Use **Clear** to restart drawing and **Erase** to correct errors.
- **Rectangle**: Highlight the ROI by clicking and dragging the cursor over the camera view to form a rectangle. Use **Clear** to restart drawing and **Erase** to correct errors.
- **Free Draw**: Draw the ROI freehand on the camera view. Use **Clear All** to restart drawing and **Erase** to correct errors.

Note:
• By default the ROI drawn is the **Active Region**, this can be inverted by selecting Invert Selection.
• The full camera view can be selected as the Active Region by selecting **Select All**.
• **Load from Alert Rules** allows you to load a previously configured rule from a VideoEdge NVR 4.2+ recorder (Not available on Face detection and edge analytics searches). victor Client uses information from the NVR rule to apply search criteria to the victor Client search. Search parameters are populated from the rule but can be edited if required. Refer to Performing a License Plate Recognition search for more information on alarm rules.

8 Select the required **Overlap** percentage.

Note:
Drag the slider to adjust the overlap sensitivity. Sensitivity levels range from Low (0) to High (100). A higher sensitivity level returns more results but with an increased chance of false positives (mistakes). A lower sensitivity level returns less results but with an increased chance of false negatives.

9 (Optional) Select the **Enable Fuzzy Matching** checkbox.

10 Select one of the following options

- Select the **Return all License Plates** checkbox.
- Configure the license plate parameters.

  a. Select the **License Plate Recognition List Type**.

Note:
• To search for specific license plates, select an **Include** list. Search results are limited to license plates from the list.
• To search for unrecognized license plates, select **Exclude**. License plates from the list are excluded from search results.

  b. Enter a license registration number in the **Enter a License Plate field**.

  c. Click 

Note:
You can add multiple license plates to an Include or Exclude list.

11 Select **Next**. The Confirmation screen displays. Confirm your search criteria are correct. Select **Previous** to return to the previous screen to make changes. Select **Finish** to execute the search.

12 Search and Retrieval Wizard closes and the **Advanced Search Results** tab opens displaying search results. Double-click a search result to view associated video.

Analytic Heat Maps

A camera heatmap based on analytics data provides a visual representation of analytic activity over time. A still image of the camera is overlaid with translucent colored pixels that indicate how much activity each pixel 'saw' in a given time frame.

Note:
You must configure Motion Detection, Video Intelligence, or Deep Intelligence for the camera on the VideoEdge recorder for at least the duration of the time range you are mapping.

Generating an Analytic Heat Map

1 Right-click the required video stream in surveillance mode.

2 Select **Analytic Heat Map**.

3 Select the time range in which to search using the date and time pickers.

Note:
The start and end times relate to the total time range searched (not a daily interval)

4 Select **Generate Heat map**. A still image is displayed, overlaid with translucent colored pixels. A Key is displayed to the right of the image indicating the colors used. Colors range from Dark Blue (least activity) to Red (most activity)

Standard surveillance tools are available for the heatmap image including Save As, Email, Open in third party application and Print.

Navigating search results

Use the Jump to Next or Jump to Previous results buttons to navigate alerts and video search results.

This feature is available for alerts when in instant playback mode, the required alert types are enabled and alerts are available. It is available for search results whenever there are multiple results available.

You can select search results and alert types from the combo box.

Search results are only enabled when results of a previous advanced search are available.

If viewing multiple video streams and alarms are triggered on more than one camera, Jump To actions mirror the order of alarms in the journal.

Icon	Definition
	Select the alert or search type

Icon	Definition
	Jump to the next alert or search result
	Jump to the previous alert or search result

Early clip playback

During clip retrieval on supported recorders it is possible to view the video footage while it downloads by selecting the search result then  .

Performing a Quick Search and Retrieve

Quick Search and Retrieve can be used to retrieve recent footage from a single camera. Quick Search and Retrieve can jump backwards 30 seconds, 1, 5, 10, 30 or 60 minutes. To perform a search with more defined time parameters, refer to Performing a Quick Search and Retrieve.

1. Select one of the following options:
   - Navigate to the camera on the device list, and right-click the camera.
   - Right-click the surveillance pane for that camera.
2. Select **Search and Retrieve**. Available time intervals display.
3. Select required time interval. Search results window displays.
4. Search result displays when download is complete.

Exporting search results

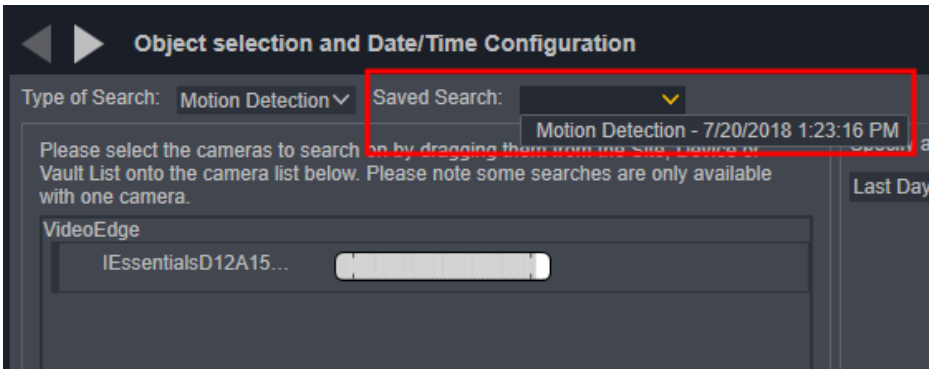
You can export search results as a grid in Microsoft Excel (.xlsx) or .xps formats.

1. Perform a search using the **Search and Retrieve Wizard**. Results display in the Search Results window.
2. To export the search results:
   - In Excel format select 
   - In .xps format select 
3. Navigate to the **Save in** folder as required.
4. Select **Save**.

Saved searches

You can access previously-run search queries from the Saved Search menu. Saved Searches are stored on a per-camera basis. For example, when you run a Motion Detection search on a camera, you can access the saved motion detection searches for that camera.

Note:
You cannot access saved searches from other cameras, or from other search types.



Alarm Rules

Alarm Rules allow users to load previously configured searches into victor Client Search and Retrieval Wizard. When loaded, Alarm Rules will automatically populate the Region of Interest along with additional Search Parameters. This feature enables users to store commonly used searches in order to speed up repeated searching.

Alarm Rules are only supported on VideoEdge 4.2+ recorders.

Saving a search as an Alarm Rule

As well as using alarm rules defined within the NVR, you can also create new alarm rules using criteria defined in specific victor Client searches. These alarm rules display in the **Load from Alert Rules** list in the Search and Retrieval wizard when the camera they have been saved against is selected.

1. Perform a Motion Detection or Video Intelligence search.
2. Select . Save Search as Alert dialog displays.
3. Enter a name for the saved search in the **Alert Name** textbox.
4. Select **OK**. The search is saved as an alarm rule and will be available for selection on Motion Detection or Video Intelligence searches.

Loading an Alarm Rule

Load Alarm Rule allows you to load a previously configured alarm rule from a VideoEdge NVR 4.2+ recorder. victor Client uses information from the NVR rule to apply search criteria to the victor Client search. Search parameters are populated from the rule but can be edited if required.

Note:
Load Alarm Rule feature is not available on Face Detection or Edge Analytic searches

1. Select
2. Select **Execute Search Wizard**. The Search and Retrieval Wizard launches.
3. Select **Motion Detection** or required Analytic search type from the **Type of Search** drop down menu.
4. Drag and drop cameras from the Device, Site or Vault list onto the Camera Selector Pane.

   Note:
   If selecting cameras from the Vault List, Date and Time parameters are automatically populated.
5. Specify Date and Time parameters in the Date and Time Pane.

   Note:
   Selecting **Specific Range** also allows selection of **Time Filter** options. Time Filter options can be

used to specify a sub-set of time to search. For example, only search between 9am and 5pm. Select the **Time Filter** checkbox to enable.

6 Select **Next**. The Search Parameters screen displays.

7 Select required Alarm Rule from the **Load from Alert Rules** list.

8 Search parameters are populated with Alarm Rule parameters. If required, edit search parameters.

9 Select **Next**. The **Confirmation** screen displays. Confirm your search criteria are correct. Select **Previous** to return to the previous screen to make changes. Select **Finish** to execute the search.

10 Search and Retrieval Wizard closes and the **Advanced Search Results** tab opens displaying search results. Double-click on a search result to view associated video.

Investigator Mode

Launching Investigator Mode opens a new Guard window with the selected, main video stream in paused mode occupying the upper left pane.

This mode allows you to drag in up to 5 other streams, each will automatically pause at the same time as the selected stream, enabling a time synchronized view of all cameras.

Note:
Investigator mode can be launched from any surveillance view and is also available from the Search Results window.

Launching Investigator Mode

1 Select the main video stream from which to launch Investigator mode. Yellow border displays around pane indicating instant playback is available.

2 Select  . Investigator mode launches in a new window.

3 Drag in other cameras as required. These video streams are paused at the same point as the main video stream.

4 Select Playback controls as required to navigate the video streams simultaneously.

SIP Action

You can create a SIP Action and select a pre-recorded message and a collection of SIP devices. When an associated event occurs, the pre-recorded message is broadcast to the selected devices.

Table 11: SIP Action icons

Icon	Description
	SIP Action
	Select Audio Source
	Tick

Icon	Description
	Save the current object and close the editor
	Apply

Creating a SIP Action

1 From the Navigation bar, click the **Create a New item** icon.

2 Select the **SIP Action** icon. The **New SIP Action** page opens.

3 In the **General** section,

a Enter a name in the **Name** field.

b **Optional:** Enter a description in the **Description** field.

4 In the **SIP Action** section, click **Configure**. The **New Audio Source** page opens.

5 Select the **Add** icon.

6 In the **New Audio Source** section:

a Enter a name in the **Name** field.

b **Optional:** Enter a description in the **Description** field.

c Click **Select Audio Source** in the **File** field and select a .WAV file location.

7 Click **OK**. The new audio source is listed in the **Filter** section.

8 Highlight the new audio source and click the **Tick** icon. The new audio source is listed in the **SIP Action** section of the **New SIP Action** page.

9 Configure endpoints using **Custom Endpoint Selection** or **Specific Endpoint Groups** as follows:

Custom Endpoint Selection

a In the **Broadcast details** section, select **Custom Endpoint Selection**.

b From the **Devices** list, drag and drop a SIP Endpoint into the **Broadcast details** section.

Specific Endpoint Groups

a In the **Broadcast details** section, select **Specific Endpoint Groups**.

b Choose endpoints from the following list:

- All Unassociated Endpoints
- All Workstation Endpoints
- All Camera Endpoints

10 In the **Event Pairings** section, associate the SIP Action with an event and then click the **Apply** icon.

The SIP Action is created.

Maintenance Mode

You can enable Maintenance Mode to suppress alarms and map annunciations for a specific duration when cameras are disconnected for routine maintenance. When Maintenance Mode is enabled, no offline camera events are triggered in Maps, Activity List, Event Viewers, or Reports.

Note:
Access to Maintenance Mode is camera permission-based using Roles.

Enabling Maintenance Mode

1 Click the **View Device List** icon. A list of all system devices displays.

2 Right click on the camera and select **Maintenance Mode**. A list of time duration options display

3 Chose a default time or click **Configure Duration** to input a time.

Maintenance Mode is enabled on the camera.

Disabling Maintenance Mode

1 Click the **View Device List** icon. A list of all system devices displays.

2 Right click on the camera and select **Maintenance Mode** and then select **End Maintenance**.

The camera is re-enabled and Events are viewable in the **Activity** list.

Maintenance Mode Action

You can create a Maintenance Mode Action that is linked to an event for planned maintenance of a camera. All camera information will be suppressed, preventing a flood of camera alerts.

Table 12: Maintenance Mode Action icons

Icon	Icon name	Description
	Maintenance Mode Action	Click to open the New Maintenance Mode Action window for configuration.

Configuring a Maintenance Mode Action

1 Click the **Create new item** icon and then click the **Maintenance Mode Action** icon.

2 Enter a **Name** and a **Description**.

3 Choose a **Maintenance option** as follows:

- To change the camera status to enabled, select **Off**.
- To change the camera status to disabled, select **On**.

4 From the **Devices** list, drag and drop the appropriate camera into the **Camera Selector**.

Note: You can drag and drop multiple cameras into the **Camera Selector**. If you drag and drop a recorder, only the camera devices are listed.

5 Click the **Save** icon.

6 Click the **Create New Item** icon and then click the **Event** icon.

7 Enter a **Name** and a **Description**.

8 In the **Action Pairings** section, expand the **Maintenance Mode** menu and then select the **Maintenance Mode Action** you previously created.

9 Click the **Save** icon.

A Maintenance Mode Action is created. The Event Viewer displays a Maintenance Mode Action event. The Health Dashboard displays the camera health status as Disabled.

Disabled device viewing

By default, a disabled device is excluded from the Device List and is not supported in Live View. To show a disabled device in the Device List and to enable Live View support, complete the following:

1 Click the **System Configuration** icon > **Settings** > **Recorder**.

2 In the **Disabled Devices** section, select the **Show disabled devices** check box.

Note: The **Show disabled devices** check box is disabled by default.

Privacy zones

To help protect privacy, you can configure privacy zones. These are customized areas on a camera view that are hidden by a black rectangle. A privacy zone is blacked out in live mode and playback mode, while the original video footage is saved on the recorder.

Enabling role permissions for privacy zones

By default, a user does not have permissions to configure privacy zones or access original video footage. To enable these role permissions:

1 Create a new role. For more information, see "Creating a Role".

2 In the **Device Access** section, scroll down to **Cameras** and then click the **Open Type exceptions** icon.

3 To enable role permissions for configuring a privacy zone, select **Configure Privacy Zones**.

4 To enable role permissions for accessing original video footage, deselect **Disable Privacy Zones**.

Configuring privacy zones

1 Launch the **Privacy Zones** editor as follows:

- From the **Devices** list, right-click the camera > **Privacy Zones** > **Configure**.
- From a video pane, right-click the camera > **Privacy Zones** > **Configure**.

Note: To access the **Privacy Zones** editor, you must enable role permissions. For more information, see "Enabling role permissions for privacy zones".

2 To create a privacy zone, click and drag the cursor over the appropriate area.

3 To move a privacy zone, click on the privacy zone and drag it to the appropriate location.

4 To delete a privacy zone, right-click on the privacy zone and then click **Clear region**.

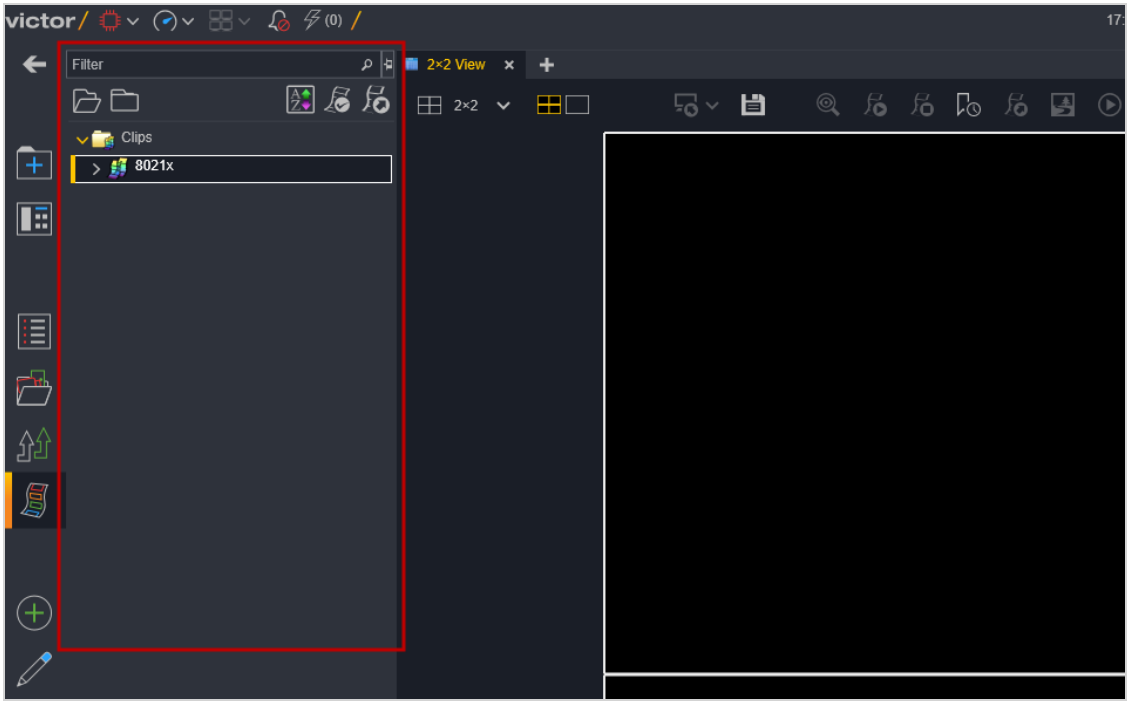
5 To delete all privacy zones, right-click on the video pane and then click **Clear all regions**.

6 To save your settings, click the **Save** icon.

Clips

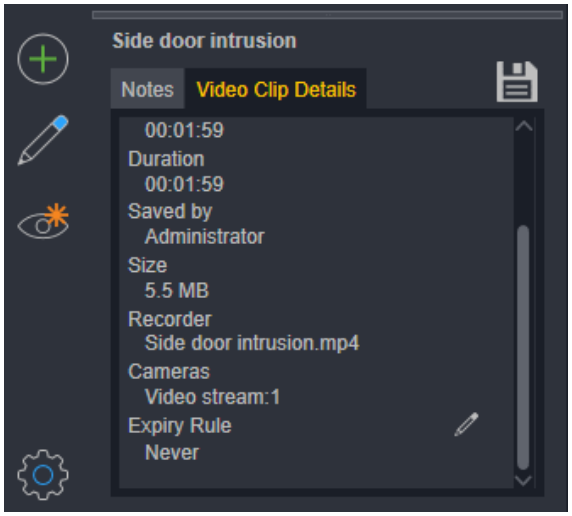
Clips are segments of video and audio that are stored remotely from their original recorder. You can create clips from a surveillance window. Saved clips appear in victor Client's Clip List.

Figure 28: The Clip list



From the Clip list, you can select and display saved clips. When you select a clip, the clip information pane appears at the bottom of the Clip list. From this pane, you can add notes to the clip, you can view the clip information, and you can edit the clip's expiry rule.

Figure 29: Clip information



Creating video clips

From the Surveillance window, you can use the clip creation tools or the record icon to create video clips. After you create a clip, you can then choose to Export (locally or remotely), Save (with optional download scheduling), Archive or Vault the video clip.

Figure 30: Surveillance controls

Table 13: Surveillance control icons

Icon	Name	Description
	Start time	Clip Creation Tools - Set the clip start time
	End time	Clip Creation Tools - Set the clip end time
	Export	Clip Creation Tools - Export the clip
	Record	Record all camera feeds in the surveillance window

Clip Creation Tools

Use the clip creation tools to create a video clip from a single surveillance pane.

Note:
If you use a recorder that does not support Instant Playback (supported on VideoEdge and Intellex 4.2+), use the Search and Retrieve wizard to create clips.

Clip Expiry

When you create a clip, you can configure the clip's expiry settings. You can assign an expiry rule to the clip, or you can specify an expiry date and time. Expiry rules do not have a fixed expiry date. Instead, after expiration, the clip is deleted from the database and from the download directory.

Scheduling a Clip Download

During the clip creation process, you can schedule clips for download. You can configure scheduled clip downloads for remote downloads. Locally downloaded clips do not impact server resources, but remotely downloaded clips use the American Dynamics Media Management Service. A scheduled clip download is added to the Clips list as a download task. Download tasks can be modified from the Clips list. For more information about download tasks, see Modify a Scheduled Clip Download.

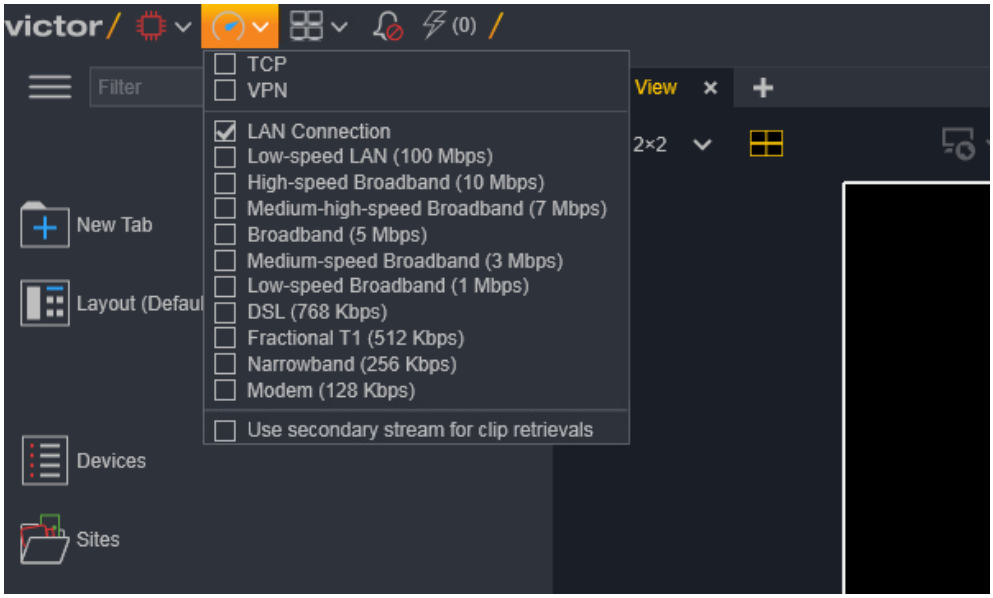
Note:
To schedule a Clip download, the American Dynamics Media Management Service must be running.

Dual recording

If you enable dual recording for a camera, you can select which video stream to use for clip retrieval actions. By default, victor uses the camera's alarm stream for clip retrievals. To use the camera's non-alarm stream for clip retrievals, select the Use secondary stream for clip retrievals checkbox. You can access this option from the Bandwidth settings menu, on the Quick action bar.

Note:
If you do not enable dual recording for the camera, or if the camera's non-alarm stream is unavailable, clip retrievals use the camera's alarm stream.

Figure 31: Bandwidth settings menu



Silent Direct Clip Action

The process of creating direct action video clips is a background task that allows you to continue monitoring surveillance footage. The processing of the video clip is viewable as a progress bar in the Notification Hub. To open the Notication Hub and view the progress bar, click the **Flag** icon.

Creating and saving clips using Clip Creation Tools

You can use the clip creation tools to create clips from the Surveillance window. Complete the following procedure to save the clip to the clips list.

Note:
You can also save a clip to an Incident, or you can archive, vault, or export the clip.

1. From the Surveillance window, select the video pane from which to create the clip.
2. Navigate to the start time for the clip and then select the **Start time** icon.
3. Navigate to or wait until video stream reaches the appropriate end time and then select the **End time** icon.
4. Select the **Export** icon. The **Direct Clip Action** dialog appears.
5. (Optional) Select beside a camera name to remove it from the clip.
6. Select **Save**. Saving Location options display.
7. Edit the clip name by selecting the **Clip Name** textbox and entering text as required.
8. (Optional) Select the **Audio** checkbox to save associated audio.
9. Configure the **Clip Saving Configuration** attributes:
   a **Location** - Configure the download path (Local or Remote).

Note:
Before you can select a Remote clip download location, you must configure a remote clip saving directory from the Settings menu.

b (Remote location only) **Download** - resource used to download a clip. (Client or Server). Includes selectable options for scheduling a clip download.

Note:
• If you select a Local Location, Download is automatically set to Client. If you select a Remote Location, set Download to Server.
• You must set Download and Expiry values each time you schedule a clip download.

c **Expiry** - Configure the clip's expiry rule. Select one of the following options:

- Select **Never** to disable clip expiry.
- Select a pre-configured expiry rule.
- Select **Specify** to configure a custom the date and time when the clip expires.

10 Select the **Clip Folder**.

Note:
In the Clip Folder section, you can right-click folders to Rename, Refresh, Delete, Export, or Add a new folder.

11 Click **Save**. Dialog displays informing whether the save was successful.

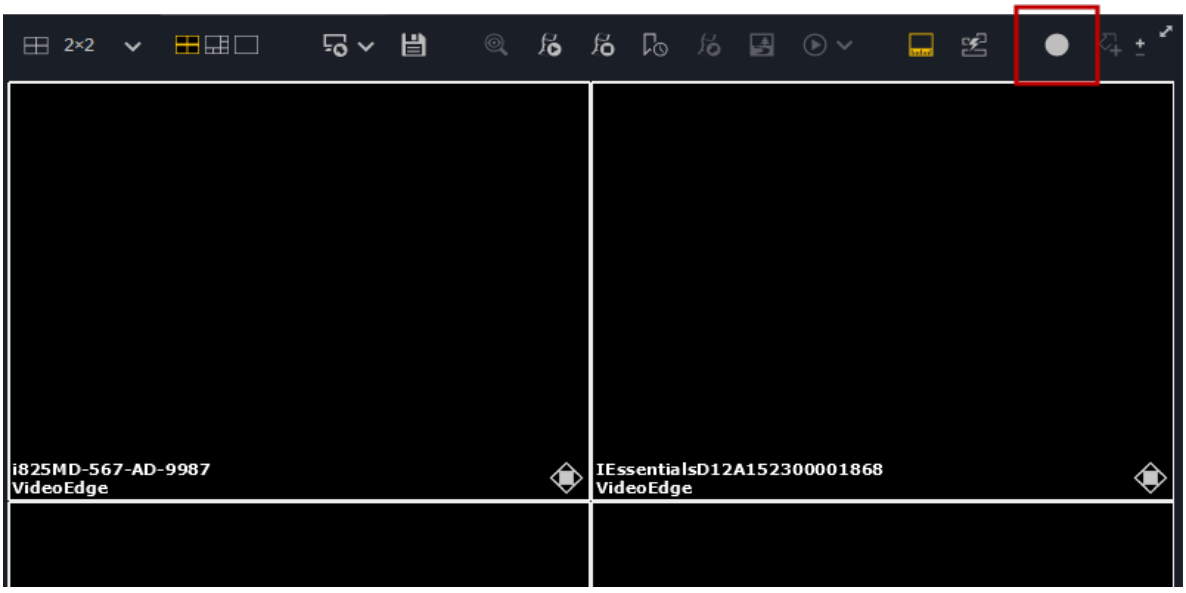
12 Click **Finish**.

Recording video from a surveillance window

During a surveillance session, you can select the record icon to record all video feeds in the surveillance window. Select the record icon again stop recording. During clip creation, you can remove individual video streams from the recording before you save or export the recording as a video clip. The record icon is located in the Surveillance controls bar.

Note:
You can also save a clip to an Incident, or you can archive, vault, or export the clip.

Figure 32: The Record icon



1 Navigate to the desired start time.

2 Click the **Record** icon to start recording.

The icon flashes to indicate recording is in process.

3 Select the **Record** icon again to stop recording.

The Direct Clip Action window opens.

4 Click **Save** to save the file to the Clips list

5 Edit the clip name as required.

6 Configure the **Clip Saving Configuration** attributes:

a **Location** - Configure the download path (Local or Remote).

Note:
Before you can select a Remote clip download location, you must configure a remote clip saving directory from the Settings menu.

b **Expiry** - Configure the clip's expiry rule. Select one of the following options:

- Select **Never** to disable clip expiry.
- Select a pre-configured expiry rule.
- Select **Specify** to configure the date and time when the clip expires.

7 Select the **Clip Folder**.

Note:
In the Clip Folder section, you can right-click folders to Rename, Refresh, Delete, Export, or Add a new folder.

8 Click **Save**. Dialog displays informing whether the save was successful.

9 Click **Finish**.

Clip download tasks

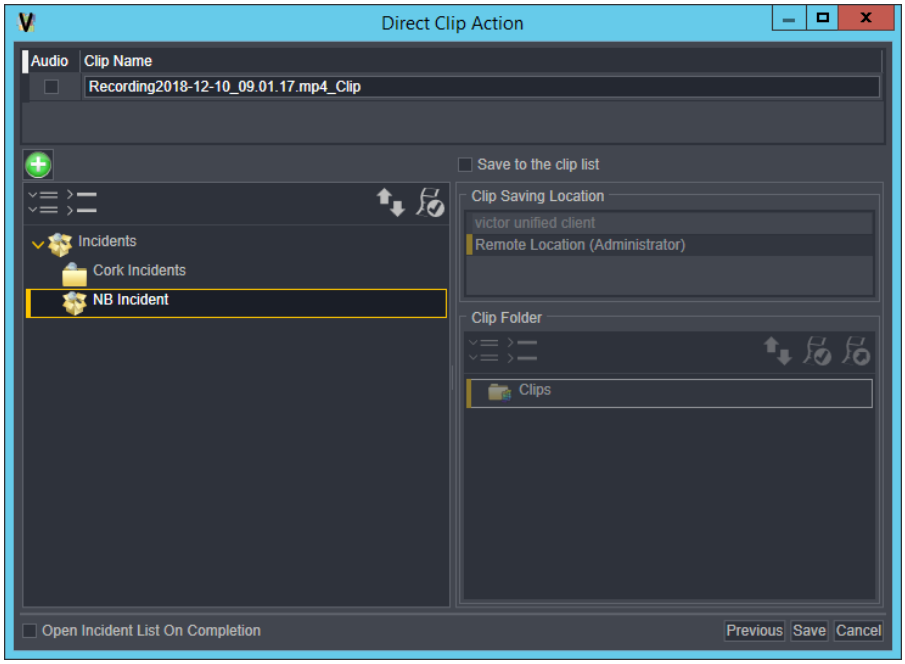
When you schedule a clip retrieval or clip download, a download task appears in the **Clips** list. Download tasks remain queued in the Clips list until the scheduled clip download completes. Clips are downloaded sequentially, in order of priority. From the Clips list you can modify clip downloads that are scheduled, or that are in-progress. Right-click a download task and select one of the following options:

Option	Description
Cancel Download	Delete the download task.
Download Now	Override the scheduled download time and add the clip to the download queue.
Priority	Assign a priority to the download task. Priority options include High, Normal and Low. Each category is sorted and completed by creation time, before moving to the next category. This option is not available for in-progress clip downloads.

Saving a clip to an Incident

During clip creation, clicking Save to Incident will launch a new page in the Direct Clip Action window to associate that clip with a new or a pre-configured incident.

Figure 33: The Direct Clip Action window



1 Prepare the clip using the Clip Creation tools.

2 When the Direct Clip Action window opens, click **Save to Incident**.

The Save to Incident page displays in the Direct Clip Action window.

3 Edit the **Clip Name** as required.

4 (Optional) Create a new incident.

a Click 

b Enter the incident name in the **Title** field.

c Select the **Incident Saving Location** from the available list.

d Select the Incident's **Expiry** rule.

e Select an **Incident Folder** from the available list.

f Click  to add the Incident to the Incident List.

5 (Optional) Select  to expand all items in the Incidents tree.

6 Select the required Incident.

7 (Optional) Select the **Save to the clip list** checkbox.

a Select the **Clip Saving Location** from the available list.

b Select the **Clip Folder** from the available list.

8 (Optional) Select the **Open Incident List on Completion** checkbox.

9 Click **Save**.

10 Click **Finish**.

Exporting a clip

You can export clips to external media. Clips can be exported in Native (.img, .iso - playable using victorPlayer) as well as .avi/.mp4 formats. You can export clips directly as part of the clip creation process or you can export saved

clips from the Clip list.

Note:
Exporting Clips is only available in Live Mode for HDVR/exacqVision recorders.

1 Select one of the following options:

- Use the clip creation tools to create a clip.
- Select a saved clip from the clips list.

a. Select  to open the Clips list.

b. Right-click the clip to be exported, then select **Export Clips**.

c. **Direct Clip Action** dialog displays. From this dialog you can use calendar controls to edit start and end times by clicking the start/end time values.

d. (Optional) Split the clip.

Note:
• This option is available for clips that contain footage from multiple cameras.
• If footage from one of the cameras in the clip is overridden, that camera's footage is unavailable for export.

i. Select  to split the clip.

ii. Select  to remove a camera feed.

2 Select **Export**. New dialog displays to let you define Export locations, Passphrases, Export Options and Notes

3 Select **Export Locations** textbox:

- Select  to add export locations.
- Select  to select the export locations.
- Select  to remove export locations.

4 If required, enter and confirm a **Passphrase**.

5 (Optional) Select export options.

a Select the **Download Audio** checkbox to include audio in the clip export.

b Select the **Export victorPlayer** checkbox to include victorPlayer with the clip export. For more information on victorPlayer, refer to Exporting a clip

c Select the **Specify Filenames** checkbox. This allows you to enter user friendly filenames for the clips.

d Select **Native** or **AVI/MP4** as file format.

Note:
• Watermarking is not supported in **Native** format clips
• Selecting **AVI/MP4** format offers a slider bar, use this to control clip output quality
• If the clip is a text stream export, an additional **Export Text Stream** check box will be available

e If required, select **Watermarking Video** checkbox.

f If required, select **Display overlay** (includes video overlay in export)

6 If required, select the **Notes** tab and add text as required.

7 Select **Export**. If **Specify Filenames** was not selected, export begins.

8 If **Specify Filenames** was previously selected, enter a filename as required in the **Filename** textbox, then select **Export**.

9 After the export completes, select **Finish**.

Archiving a clip

Clips from VideoEdge NVR 4.4+ recorders can be archived for long term storage. For more information on archiving and how to configure it on your VideoEdge NVR, refer to the *VideoEdge NVR Installation and User Guide*.

1 Create a clip using Archiving a clip. **Direct Clip Action** dialog displays.

2 Select **Archive.** Progress bar displays showing progress of archiving.

3 **Archiving Complete** message displays.

Vaulting a Clip

Vaulting a clip tags it as protected, preventing it from data culling.

Note:
Vaulting is only supported on VideoEdge NVR 4.2+ recorders.

1 Create a clip using Vaulting a Clip. **Direct Clip Action** dialog displays.

2 Select **Vault**. Progress bar displays showing progress of vaulting.

Vaulting Complete message displays.

Clip Storage

From the clips list, you can create, rename and build folder structures for clip storage. You can use clip folders to organize local clip storage. Right-click the clips list to access the following folder management options:

- Refresh Folder
- Rename Folder
- Delete Folder
- Export Folder
- New Folder

Viewing saved clip notes

Notes can be stored against clips when they are saved or exported. These notes can be viewed and/or edited from the **Clips** window for saved clips. victorPlayer supports note viewing for exported clips.

1 Select 

2 Select required clip. Notes for selected clip are displayed in the **Notes** textbox.

3 If required, select **Notes** textbox and edit notes.

4 Select  to save.

Viewing saved clips

1 Select 
2 Right-click the clip to be played
3 Select **Playback Clips**. The clip displays in a new window.
4 Select  to enable audio. Use playback controls to navigate clip.

Deleting saved clips

When saved clips are no longer required, they can be deleted.

1 Select 
2 Expand the required clip folder.
3 Right-click the folder to be deleted.
4 Select **Delete Clips**. A Warning dialog displays. Select **Yes** to delete the clip or **No** to cancel.

Sorting the clip list

1 Select 
2 Click  to open the order menu.
3 Select the order criteria:
   a Select **Order by Name**, **Order by Size** or **Order by Creation Date**.
   b Select **Ascending Order** or **Descending Order**.
   c Select **Show Local Clips**, or select **Show Remote Clips**, or select both.

Note:
Order preferences are stored between sessions.

Clip Builder

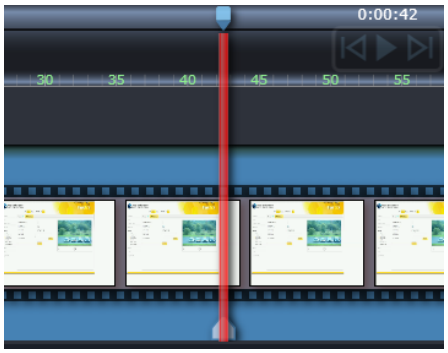
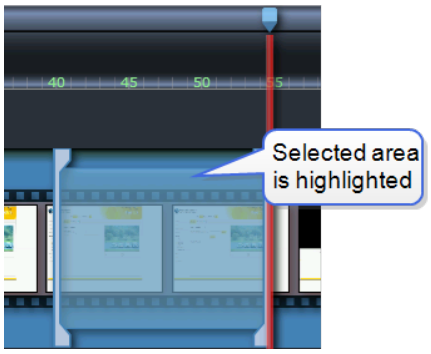
Use the Clip Builder edit and combine video clips into a single playable video stream. Clip Builder supports the following clip editing features:

- Clip splitting
- Clip cropping
- Clip cutting

The built/edited clip can then be played back within the Clip Builder. Alternatively, the clip can be exported for playback in the Incident Player. The table below shows many of the actions you can perform in the Clip Builder.

Table 14: Clip Builder actions

Action	Description	Steps
Set a marker	Places a marker at the selected	1. Click and drag the playhead to the desired position on the video

Action	Description	Steps
	position in the video timeline.	timeline. 2. Click the button at the top of the playhead. A marker appears at the bottom of the timeline. 
Select	Highlights a section of the video clip:	1. Set a start marker. 2. Set an end marker. The section of the video clip between the two markers is selected. 
Split	Split the clip into two separate clips:	1. Drag the playhead to the section of the video timeline where you want to split the clip. 2. Click  to split the clip.
Remove	Remove footage from the clip:	1. Select a section of the video clip. 2. Click  to remove the footage from the clip.
Crop	Retains the selected video and removes any video Crop footage from the clip. **Note:** Cropping a clip does not remove video from other clips on the same timeline.	1. Select a section of the video clip. 2. Click  to crop any unselected footage from the clip.
Delete	Removes the selected video from the timeline.	1. Select a section of the video clip. 2. Click  to delete the selected footage from the clip.
Add clips	Adds the selected clip to the timeline.	1. Open the **Clips** folder from the **Incident Management** page. 2. Drag a clip from the **Clips** folder to the timeline bar.
Adjust volume	Increase or decrease clip playback volume.	Select  , then drag the audio slider to adjust clip playback volume.

Action	Description	Steps
Toggle audio	Enable or disable the clip audio stream. The **Toggle audio** button will show current audio status.  = audio enabled  = audio disabled	Select the **Toggle audio** button to disable audio. Select the button again to enable audio. **Note:** While audio is disabled any clips that you export will not contain audio.

Editing a clip in the Clip Builder

Note:
Clip building does not support audio content.

1. Select 
2. Expand the **Clips** folder.
3. Right-click the clip that you want to edit.
4. Select **Clip Builder**.
   The clip opens in the Clip Builder window.
5. Edit the clip as required using the toolbar buttons.
6. Click 
   The Build Menu appears.
7. Click **Build** to build the clip with Clip Builder.
   - Drag the clip from the thumbnail bar to the incident list or to the clip list.
8. (Optional) Click **Direct Action** to build the clip with Direct Clip Action.
   The Direct Clip Action window appears.
   a. Click **Save** to save the clip to the clips list.
   b. Click **Save to Incident** to save the clip to an incident.

Combining clips in Clip Builder

You can access clip combining from the Incident list, from search results, from analytics results, or from bookmarks.

1. Select 
2. Hold the Ctrl key and select the clips that you want to combine.
3. Right-click one of the selected clips and select **Export clips**.
   The Direct Clip Action window appears.
4. Select the **Combine Output** checkbox.
5. Click **Export**.
6. (Optional) Use  and  to reorder the clips in the list.
7. (Optional) Select the **Include source** checkbox to export the source clips in addition to the combined clip.
8. (Optional) Clear the **Combine Audio (if exists)** checkbox if you want to exclude audio from the combined clip.

9 Click **Next**.

10 (Optional) Choose the **Export Location**.

11 Select **Export**. New dialog displays to let you define Export locations, Passphrases, Export Options and Notes.

12 Select **Export Locations** textbox:

- Select  to add export locations.
- Select  to select the export locations.
- Select  to remove export locations.

13 If required, select the **Export victorPlayer** checkbox. For more information on victorPlayer, refer to Combining clips in Clip Builder

14 If required, select the **Specify Filenames** checkbox. This allows you to enter user friendly filenames for the clips.

15 If required, select the **Notes** tab and add text as required.

16 Select **Export**. If **Specify Filenames** was not selected, export begins.

17 If **Specify Filenames** was previously selected, enter a file name as required in the **Filename** textbox, then select **Export**.

18 When the export completes, select **Finish**.

Video redaction

You can also use the Clip Builder to obscure confidential or restricted information that appears in a video clip. For example, you can obscure a person's face or a vehicle's license plate.

In the Clip Builder, you can highlight a section of the video that contains confidential information. When you export the video, any objects that appear within the highlighted region are blurred. In the image below, note that the rectangular region around the car appears blurred, while the rest of the video is unaffected.

Figure 34: Video redaction on a moving vehicle

When you highlight a region, you must set the start and end frames. These frames define the period of time that the highlighted region remains on screen. To obscure a moving object, you must also reposition the highlighted region, so that the object remains obscured while it moves across the screen. To reposition the highlighted region, click and drag the region across the Clip Builder window. You can adjust the playback speed from the playback controls, so that it is easier to obscure a fast-moving object.

Figure 35: Configuring video redaction

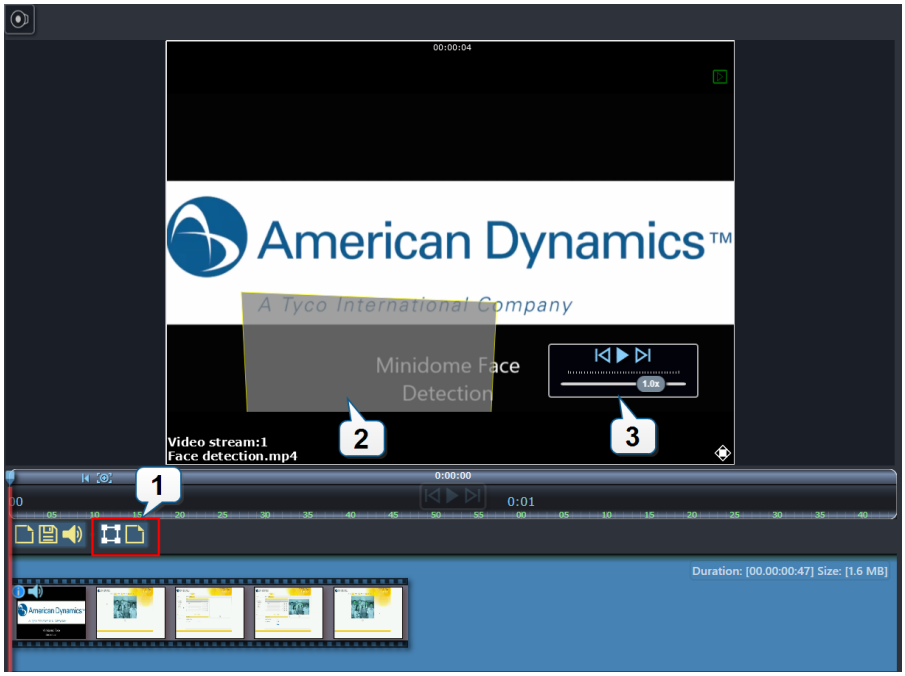


Table 15: The region highlighter controls

Number	Description
1	Region Highlighter controls
2	A highlighted region
3	Playback controls

Configuring video redaction in Clip Builder

1 Select 

2 Expand the **Clips** folder.

3 Right-click the clip that you want to edit.

4 Select **Clip Builder**.

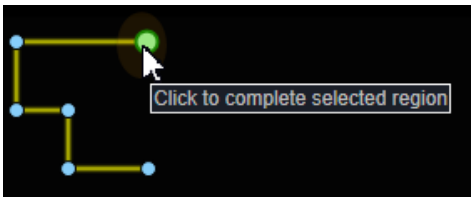
The clip opens in the Clip Builder window.

5 Edit the clip as required using the toolbar buttons.

6 Select  to enable the region highlighter controls.

7 Highlight the region to be redacted.

- Left-click the screen to mark the corners of the region.
- A region must contain at least three points.
- (Optional) Right-click a point to delete it.
- (Optional) Drag a point to reposition it.
- To complete the highlighted region, click the first point of the region. The first point is highlighted in green.
- After you complete the shape, the region's border changes to green.



8 (Optional) Edit the highlighted region's start frame.

Note:
By default, the region's start frame is the position in the video where you create the highlighted region. If required, you can set the start frame at a later point in the video. However, you cannot set the start frame at a point before the current start frame.

a Drag the Playhead to navigate to the desired position.

b Right-click the highlighted region and select **Set start frame**.

9 (Optional) Complete the following steps to highlight a moving object.

a Adjust the playback speed on the playback controls. The default setting is 1.0x.

b Click the highlighted region to begin video playback.

c Drag the highlighted region across the screen as required.

d Release the highlighted region to pause video playback.

10 Set the highlighted region's end frame.

a Drag the Playhead to navigate to the desired position.

b Right-click the highlighted region and select **Set end frame**.

Note:
The borders of an end frame are red.

11 (Optional) Delete a highlighted region.

a Drag the Playhead to navigate to the desired position.

b Right-click the highlighted region and select **Delete**.

12 Click 

The Build Menu appears.

13 Click **Build** to build the clip with Clip Builder.

- Drag the clip from the thumbnail bar to the incident list or to the clip list.

14 (Optional) Click **Direct Action** to build the clip with Direct Clip Action.

The Direct Clip Action window appears.

a Click **Save** to save the clip to the clips list.

b Click **Save to Incident** to save the clip to an incident.

Face Redaction

You can use the Clip Builder to automatically redact faces from video clips. You can redact all faces or non-selected faces.

Note:
Automatic Redaction requires a TycoAI analytic server on the victor system which has GPU capacity.

Redacting all faces

To create a clip where selected faces are automatically redacted, complete the following:

1. Select the **Clip List** icon. The **Clips** folder opens.
2. Right click on the clip you want to redact. The actions list displays.
3. Select **Clip Builder**.
4. The clip opens in the **Clip Builder** window.
5. Select the **Redact/Blur** icon. The **Redact/Blur** options appear.
6. Select the **Automatic** icon. The **Automatic Redaction Configuration** window opens with three options as follows:
   - Redact all faces
   - Redact all except selected faces
7. Select **Redact all faces**.
8. Select the **Save** icon. The Clip Builder **Save** options display.
9. Select the **Build** icon. The new clip builds.
10. Select the **Save** icon. The Clip Builder **Save** options display.
11. Select the **Direct Action** icon. The **Direct Clip Action** window opens with **Camera Options Summary**. Click **Save**.
12. In the **Clip Name** field, enter a name for the new clip.
13. Click **Save**. A save progress bar appears.
14. When the save is complete, click **Finish**. The new clip will appear in the Clips folder.
15. Double click the new clip in the **Clips** folder.The **Clips Player** opens with the new video clip showing the selected faces redacted.

Redacting non-selected faces

To create a clip where non-selected faces are automatically redacted, complete the following:

1. Select the **View Clips List** icon. The **Clips** folder opens.
2. Right click on the clip you want to redact. The actions list displays.
3. Select **Clip Builder**.
4. The clip opens in the **Clip Builder** window.
5. Select the **Redact/Blur** icon. The **Redact/Blur** options appear.
6. Select the **Automatic** icon. The **Automatic Redaction Configuration** window opens with three options as follows:
   - Redact all faces
   - Redact all except selected faces
7. Select **Redact all except selected faces** to select faces you do not want to redact.

   Note:
   To use an image for redaction, click the **Upload Image** icon. The image will appear in the **Automatic Redaction Configuration** window.
8. Select the **Save** icon. The Clip Builder **Save** options display.
9. Select the **Build** icon. The new clip builds.
10. Select the **Save** icon. The Clip Builder **Save** options display.

11 Select the **Direct Action** icon. The **Direct Clip Action** window opens with **Camera Options Summary**. Click **Save**.

12 In the **Clip Name** field, enter a name for the new clip.

13 Click **Save**. A save progress bar appears.

14 When the save is complete, click **Finish**. The new clip will appear in the Clips folder.

15 Double click the new clip. The Clips Player opens with the video clip showing the non-selected faces redacted.

victorPlayer

victorPlayer is a proprietary media player developed by American Dynamics. It is a portable application and is required to play .img files from Intellex recorders. victorPlayer can also be used to playback clips in the following formats:

- .ISO (from VideoEdge NVR recorders)
- .ZIP (from HDVR/exacqVision recorders)
- .IMG (From Intellex Recorders)

victorPlayer can also be included with exported clips and presentations.

The primary purpose of victorPlayer is to facilitate clip playback.

victorPlayer has various options during clip playback. In addition to the standard surveillance playback controls, you can perform the following actions:

- Toggle Full Screen
- Clear Video
- Restart Playback
- Verify Clips (Standard and using Key files)
- Perform Still Image Capture by right-clicking the playback window.

Playing a saved clip with victorPlayer

The following steps assume that **victorPlayer** is available on the local machine. If it is not available, it can be exported as part of victor Client's clip export feature. For more information on exporting clips, refer to Playing a saved clip with victorPlayer.

1 Launch **victorPlayer**, select required language then select **OK.**

2 Saved clips are displayed in the clip list.

3 Drag and drop the required clip into the surveillance window. The clip will begin playback.

Note:
To view more than one clip at one time, select **View Surveillance** from the **View** menu to open additional surveillance panes.

Playing external clips with victorPlayer

In addition to using **victorPlayer** to play clips from the clip list, **victorPlayer** can also play external video clips.

1 Launch **victorPlayer** select required language then select **OK.**

2 Select **File**.

3 Select **Open**. **Select clip file to open** dialog displays.

4 Browse to the clip to be opened.

5 Select **Open.**

6 Drag and drop the required clip into the surveillance window. Clip will begin playback.

Note:
To view more than one clip at one time, select a layout with more than one video pane. You can select **View Surveillance** from the **View** menu to open an additional surveillance pane.

Configuring victorPlayer

You can configure **victorPlayer's** Overlay and Layout settings as required.

Overlay settings can be configured by selecting **Overlay Settings** from the **View** menu, selecting required elements then selecting **OK**.

To save your current layout, select  then choose a location and select **Save**. To load a previously saved layout select **Load** from the **Layout** menu, locate the saved layout and select **Open**.

Verifying Clips

Exported clips can be checked for authenticity by using the **Verify Clip** tool. The tool checks whether the clip has been tampered with. In addition to verifying exported clips in victor Client, clips can also be verified in **victorPlayer**.

Note:
• Only exported clips can be verified.
• The clip validator also offers the ability to **Validate with Key File** (NVR Only). This verification method checks for integrity using a key file generated on the NVR to verify exported and archived clips which were signed using a private key.

Verifying an exported clip

1 Select 

2 Select the **Verify** icon, 

3 Browse for and select the clip to be validated.

4 Select **Open**.

5 If prompted, enter the passphrase associated with the clip. This is the passphrase entered at the time the clip was initially created.

6 Select **Validate**. Clip Validator displays informing whether clip is valid.

Verifying clips in victorPlayer

1 Start **victorPlayer**.

2 Drag and drop the clip to be verified into the Surveillance window.

3 Right-click on the video pane and select **Validate Clip**.

Note:
If the clip has been exported from an HDVR/exacqVision or NVR unit, you will be prompted to enter a Passphrase

4 Select **Validate**.

The Clip Validator dialog displays informing whether clip is valid.

Note:
• Right-clicking the video pane also offers the ability to **Verify Clip Using key File** (NVR Only)

• This verification method checks for integrity using a key file generated on the NVR to verify exported and archived clips which were signed using a private key.

Vault

The vault feature provides the ability to protect media items (audio and video) from VideoEdge NVR (v4.2+) recorders.

Vaulting an item applies a rule to a specific segment of media, tagging it as protected and preventing it from data culling. Media can typically be vaulted from the following locations:

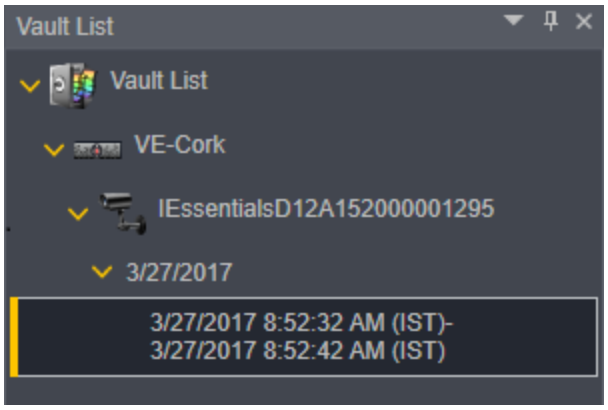
- Direct Export (Clips)
- Event Viewer - through Export Clip
- Activity List - through Right Click Investigate
- Search Result List - through Clip Export
- Map Viewer - through Export Clip

Note:
The Vault option is disabled when unsupported recorders are selected, and a warning message is displayed when both unsupported and supported recorders are selected.

Vault List

All vaulted items are listed in the vault list. You can access the vault list from the **New Tab** menu.

Figure 36: Vault list



From the vault list you can perform the following actions:

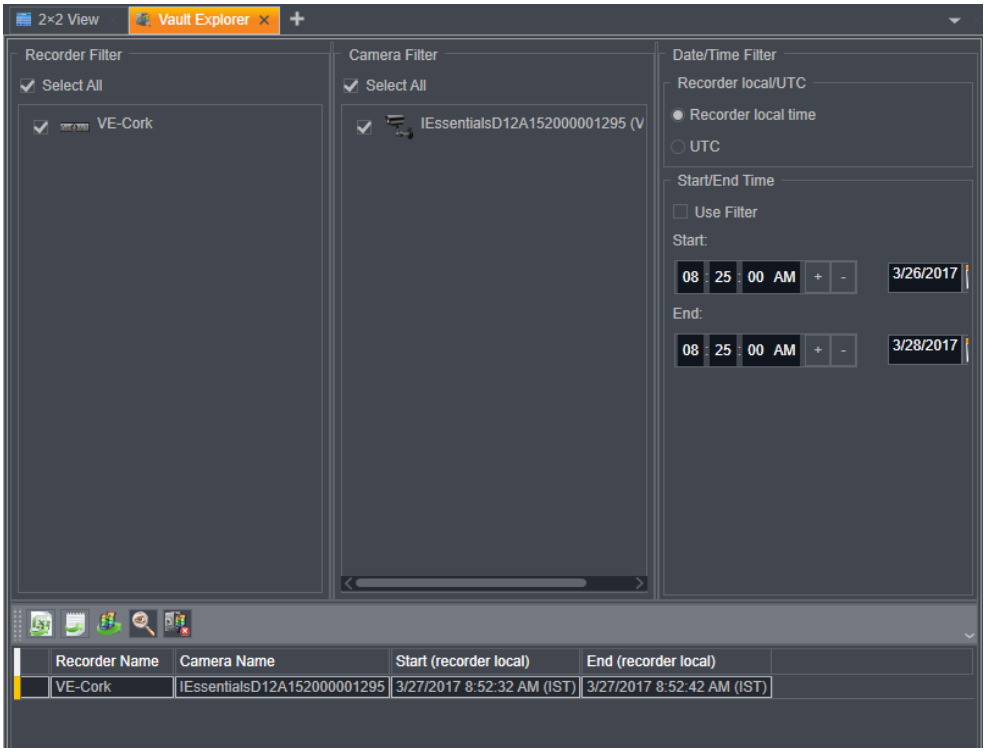
- Drag items into a surveillance pane in which the items are treated as cameras.
- Double-click items to launch investigator mode, paused at the item's start time.
- Drag items into the Search and Retrieve wizard and use the vault criteria as a basis for a search. This selects the camera and date and time.
    - If a subsequent vaulted item belonging to the same camera is dragged into the search and retrieve wizard, it replaces the original selection and changes the search time frame accordingly.
    - If the vault item belongs to a different camera, a Yes/No dialog displays offering the option to override the timeframe and have both cameras selected.
    - You can also drag cameras and/or dates from the vault list into the wizard. This means one camera can contain multiple vaults. In these instances the time range is changed to have a start time of the earliest vault time and an end time of the latest.

Hovering on each level of item in the Vault list displays a summary of what is contained in the level below.

Vault Explorer

The Vault Explorer provides a means to filter vaulted items by Recorder, by camera, and by date/time range.

Figure 37: Vault Explorer



It lists all recorders containing vaulted items, branching for each camera with vaulted data. After you filter the vaulted media, you can perform the following actions from the Results section:

Icon	Description
	Export the Results grid as an Excel file.
	Export the Results grid as an .xps file.
	Export selected Vault media using Direct Clip Action
	View the Vault media in Investigator Mode
	Unprotect vaulted items. **Note:** Unprotected items are removed from the vault.

Using the Vault Explorer

1 Select 

2 Select **Vault Explorer**.

3 **Recorder Filter Section** - Select the checkbox for each of the recorders to filter by. Cameras that are associated with the selection and have vaulted media display in the Camera Filter section.

4 **Camera Filter Section** - Select the checkboxes for each camera to filter by.

5 Configure the **Date/Time Filter** settings:

   a **Recorder local/UTC** - Select either Recorder Local or UTC.

   b **Start/End Time** - Select **Use Filter** if required.

   c Select **Start** and **End** time and dates.

Maps

The Maps feature provides users with a dynamic view of physical security objects within a visual representation of their environment. Physical objects are represented by icons to form an integrated, unified view allowing monitoring and reaction to state changes in real time.

Viewing Maps

After you create and save a map, you can view it from the New Tab page.

Note:
When viewing a map, drag any icon onto any surveillance pane to view its associated video.

1 From the **Navigation bar**, click the **New Tab** icon, then click **Map**.

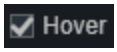
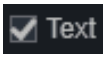
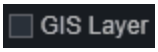
2 Select the map that you want to view. Map opens.

3 Use the toolbar buttons to manipulate the map.

Map toolbar buttons

Table 16: Map toolbar buttons

Element	Details
	**Refresh -** When viewing a map, if the toolbar displays orange, this means that the map has been edited and saved since it was opened. Select  to update.
	**Zoom controls -** displays current zoom level percentage along with **Fit to Window** and **Zoom Out/In** buttons.
	**Hide Icon Types** - opens the Hide Type editor which allows selection of icon types to hide, e.g. Cameras or Recorders.
	**Show All Icons from All Layers** - shows and highlights all icons from all visible layers. **Note:** icons that are on layers that have been hidden using the Map Layers editor will not be displayed.
	**Show All Shapes from All Layers -** shows all configured areas from all visible layers. Right-click to display FoV, Shapes or Text only. **Note:** areas that are on layers that have been hidden using the Map Layers editor will not be displayed.
	**Activity List -** opens a map specific Activity List that displays the 100 most recent activities relating to objects on the map. Icon will display with a red border when there are unread items in the Activity List. Right-click and select **Clear** to clear the activity list. Select the padlock icon to freeze the Activity List for 30 seconds
	**Map in Map -** opens a thumbnail window in the lower-right corner of the map screen. The window contains a thumbnail image of the map, and the current zoom level is shown as a transparent green rectangle. Click and drag the green rectangle to reposition the map view within the map window.

Element	Details
	**Layers -** opens Map Layers editor allowing selection of map layers to show/hide.
	**Save to Incident** - saves a screen capture of the map to an Incident. Map screen captures are saved to the Images folder.
	**Hover Mode -** select to enable hover mode. When enabled, hovering over objects will display additional information. For example, hovering over a camera will open a pop-up surveillance pane within the map view, displaying live video from the camera. Other cameras can be dragged and dropped into the pop-up windows.
	**Auto hide -** this works in conjunction with Hover Mode. When auto hide is enabled the surveillance pane will close automatically when the mouse is moved off the icon that initiated surveillance pane. If hover mode is disabled, auto hide cannot be selected. This works in both edit and view mode.
	**Health Mode -** select to enable health mode. When enabled, icons will be highlighted with their health status. When enabled with hover mode, hovering over icons will display the objects health dashboard within the map view.
	**Show Text shapes -** select to show all text shapes on the map. This option is selected by default.
	**Show GIS Map Layer** - select to enable the geographic information system (GIS) map layer. Object icons can be added to the GIS map in the same way as for other maps.

Map Controls

When viewing maps, you can move the map around, control zoom level and view object details.

Zooming the Map

Control Zoom Level by any of the following methods:

- Click on the area of the map you wish to zoom, then scroll mouse wheel up to zoom in or scroll mouse wheel down to zoom out.
- Select  to zoom in, or select  to zoom out.
- Hold **Shift** Key while clicking and dragging the cursor to draw a rectangle. When the mouse button is released, the drawn region will zoom to fill the window.
- Select  to fill map to window.

Note:
Zoom Level is indicated by percentage on the map toolbar

Moving the Map

In zoomed mode, click and drag a point on the map to move the map in the direction of the drag.

Centering the Map

In zoomed mode, double-click on the map and it will center on that point.

Monitors on Maps

Monitors can be added as icons to maps either from the device list or from the icon editor within the map.

Monitor icons are sensitive to dragging and dropping of all objects with a 'view' mode (e.g., cameras) - any object supporting a 'view' mode can be dropped onto a monitor icon and the associated views will be displayed on the physically associated monitor.

Navigating maps within maps displayed on the same tab

When a map icon which has 'display in the same tab' enabled is selected within a map, the new map will open in the same tab as the existing one.

If the properties are set to 'display in the same tab' the active maps can be navigated on the same tab.

1 View the map.

2 Select the map icon within the map. The new map will open in the same tab.

3 The name of the current map will be displayed in map toolbar. You can navigate to the previous map by selecting the name form the drop down menu or using the left and right arrows.

GIS Map controls

When you enable the GIS map layer, a smaller map window appears in the bottom corner of the GIS map. Use this smaller map to adjust zoom settings and the default mouse drag interaction for the GIS layer.

Figure 38: GIS Map controls

Number	Description
1	Zoom controls - Drag the slider or click and to adjust the zoom settings. Click to reset zoom to 100%. The current zoom level is displayed above the slider.
2	Mouse drag behavior - Configure mouse drag behavior on the GIS map. If you enable mouse zoom, then dragging your mouse will zoom to the selection area. If you enable mouse panning, dragging the mouse will move the 1. Click to open the interaction type menu. 2. Select to enable mouse zoom. Or Select to enable mouse panning.
3	Zoom level - Use the zoom controls to adjust the zoom level. The rectangle will automatically resize to show the position and zoom level of the GIS window.

Virtual Matrix and Maps

A new region located at the top of the map will expand to reveal the active virtual matrix configuration. This configuration of monitors will detect mouse movement over the individual panes. When a camera is dropped onto a pane, the actual pane in the video wall will render video from that camera.

Note:
Virtual Matrix needs to be enabled to use this feature.

Select  to display the virtual matrix when in map view.

Finding objects on maps

If an object is configured as part of a map, the object's right-click menu can be used to find the object on a map. Any maps in which the object is configured will open, and the object's icon will flash. If a camera is on a map, the Find on Map feature will also be available in the right-click menu on the Surveillance window.

1 Right-click the object. If the Find on Map feature is available, it will be listed in the right-click menu.

2 Select **Find on Map**. Maps open displaying the location of the object as an annunciating icon.

Incident management can be used to manage information relating to an incident or event, for example a robbery or disturbance. Information in the form of clips, still images, report data, report charts, user entered notes, spreadsheets or external files can be compiled into a single package which can then be exported using a template to provide a report on the incident for review. Some objects can be saved directly to an Incident.

Select the Save to Incident icon to save an object to an Incident.

Figure 39: The Save to Incident icon

Note:
• With the exception of notes and images, the review of external files requires a compatible third-party application.
• To use the Incident Management feature, you must purchase a victor Client license that includes the Incident Management component.

Incident Management consists of a three stage process:

1 Create an Incident
2 Populate the Incident
3 Generate a Presentation or Generate a Report

Incident Expiry

You can assign an expiry rule to an incident. An expiry rule has an assigned duration. If the period of time since you last modified an incident ever exceeds the expiry rule's duration, then the incident expires. victor automatically deletes expired incidents.

Creating an Incident

You can create new Incidents from the New item menu,  , in the Navigation bar, or you can create new Incidents from the Incident list. When you create an incident, you must assign an expiry rule to the incident. You can configure custom expiry rules from the Clip Preferences section of the Settings menu.

1 Select one of the following options:
- Create an Incident from the New item menu.
  a. Select 
  b. Select **Incident**.
- Create an Incident from the Incident List
  a. From the Navigation bar, select 
  b. From the **Incidents** list, right-click the **Incidents** folder and select **New Incident**.

2 Enter the incident name in the **Title** field.

3 Select the **Incident Saving Location** from the available list.

Note:
Local path restricts access to the workstation.

4 Select an expiry rule from the **Expiry** list.

5 (Optional) Select  to expand all items in the incidents tree.

6 (Optional) Enter a Filter criteria in the field. Click to  clear the filter.

7 Click  to save the Incident to the Incident List.

Sorting the Incident List

1 From the Navigation bar, select 

2 Click  to open the order menu.

3 Select the order criteria:

a Select **Order by Creation Date**, **Order by Last Modified Date**, **Order by Name**, or **Order by Size**.

b Select **Ascending Order** or **Descending Order**.

c Select **Show Local Incidents**, or select **Show Remote Incidents**, or select both.

d Select **Show Unlocked Incidents**, or select **Show Locked Incidents**, or select both.

e Select **Show Last Week's Incidents**, **Show Last Month's Incidents**, or **Show All Incidents**.

Note:
Order preferences are stored between sessions.

Renaming an Incident

1 From the Navigation bar, select 

2 Right-click the required Incident from the list.

3 Select **Rename Incident**.

4 Edit the name as required.

5 Click **Ok**.

Deleting an Incident

1 From the Navigation bar, select 
The Incident List opens.

2 Right-click the required Incident from the list.

3 Select **Delete Incident**.
A dialog box displays stating the Incident will be deleted and all of its components.

4 Click **Yes**.

Populating an Incident

After you create an Incident, you populate it through the Incident List or you can use the Save to Incident button. You can also use Windows explorer to import files into an Incident. Drag the required file onto the Incident from the explorer window or from the desktop. Incidents can contain the following items:

- Notes
- Clips
- Images
- Spreadsheets
- Imported files
- Reports
- Maps
- Heat maps

Items that you add to an incident are called Incident components. Incident components are copies of the original item. When you modify an incident component, it does not affect the original item. For example, if you edit an incident's clip, it does not affect the version of that clip from the Clip list.

Note:
When you add an item to an incident, the incident's expiry rule overwrites the item's expiry rule.

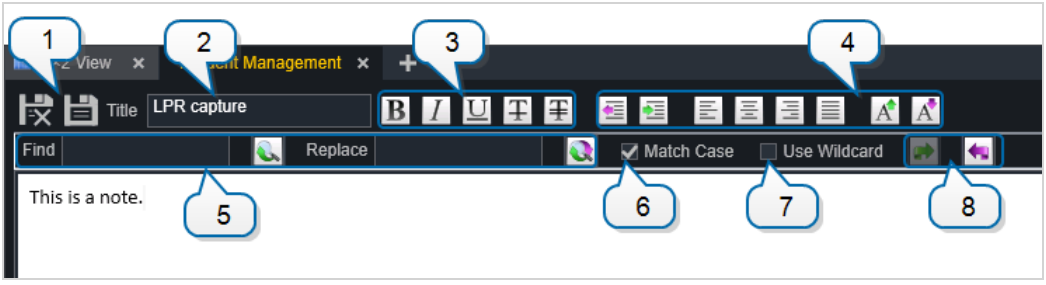
Populating an Incident using the Incident List

The Incident List displays all created incidents and can be used to populate the created incidents with notes, clips, images, spreadsheets and imported files.

Adding a note

1. From the Navigation bar, select 
   The Incident List opens.
2. Right-click the required Incident from the list.
3. Select **Add Note**.
   The Incident Management Text Editor opens.
4. Create the Note as required using the Incident Manager Text Editor.
5. Select **Save**.

The Incident Management text editor



Item	Description
1	Save & Close / Save
2	Note Title (Incident name by default)
3	Font tools - • Bold • Italic • Underline • Strikethrough • Double strikethrough
4	Paragraph tools - • Remove Indent • Add Indent • Left alignment • Center alignment • Right alignment • Full justify • Increase font size • Decrease font size
5	Find / Find and Replace
6	Match Case (Use to refine results from Find / Find and Replace action
7	Use Wildcard (use of a Like Operator) allows pattern matching for string comparison: Characters in *pattern* vs Matches in *string* **?** - Any single character ***** - Zero or more characters **#** - Any single digit (0-9) **[***charlist***]** - Any single character in charlist **[!***charlist***]** - Any single character not in charlist
8	Redo and Undo

Importing a note

Note:
To import a note into an Incident, the note must be in rich text format.

1 From the Navigation bar, select 
The Incident List opens.

2 Right-click the required Incident from the list.

3 Select **Import Note**.
A Windows Explorer window opens.

4 Navigate to the required file directory.

5 Select the note.

6 Click **Open**.

Adding a clip

1 From the Navigation bar, select 
2 Right-click the required Incident from the list.
3 Select **Add Clip** to open the Clip Picker window.
4 Select the required clip.

Note:
Selecting the dropdown arrow next to a clip will expand the clip to display the associated devices.

5 (Optional) Enter text in the **Notes** field as required, select 
6 (Optional) Select the **Video Clip Details** tab to view information regarding the selected clip.
7 Select **Save**.

Importing a clip

1 From the Navigation bar, select 
The Incident List opens.
2 Right-click the required Incident from the list.
3 Select **Import Clip**.
A Windows Explorer window opens.
4 Navigate to the required file directory.
5 Select the clip.

Note:
• Only clips in native (.ISO, IMG, ZIP and MP4) format are supported.
• Media files in unsupported formats cannot be added to the clips list, but they can be added to the Incident List as a third-party file. These media files can be included in an incident export, and are playable on third-party video players.
• When a clip is imported into an Incident, clip notes are imported separately as note files. Imported clip notes have the same name as their parent clip.

6 Click **Open**.

Note:
Clips can also be imported by dragging a clip from Windows Explorer onto a clips folder or onto an incident folder.

Importing a clipboard image

Note:
A clipboard image is one which is currently copied to the workstation clipboard, for example a screen shot.

1 From the Navigation bar, select 
The Incident List opens.
2 Right-click the required Incident from the list.
3 Select **Import Clipboard Image**.
4 Edit the text in the Image **Name** field.
5 Click **Ok**.

Importing an image

1 From the Navigation bar, select 
The Incident List opens.
2 Right-click the required Incident from the list.
3 Select **Import Image**.
A Windows Explorer window opens.
4 Navigate to the required file directory.
5 Select the image.
6 Click **Open**.

Importing a spreadsheet

1 From the Navigation bar, select 
The Incident List opens.
2 Right-click the required Incident from the list.
3 Select **Import Spreadsheet**.
A Windows Explorer window opens.
4 Navigate to the required file directory.
5 Select the spreadsheet file.

Note:
Only Excel format spreadsheets are supported.

6 Click **Open**.

Importing a file

1 From the Navigation bar, select 
The Incident List opens.
2 Right-click the required Incident from the list.
3 Select **Import File**.
A Windows Explorer window opens.
4 Navigate to the required file directory.
5 Select the file.
6 Click **Open**.

Populating an Incident using the Save to Incident Button

The Save to Incident button can be used during several functions within the client to populate the created incidents with clips, images, reports, Dynamic Views, maps and heat maps.

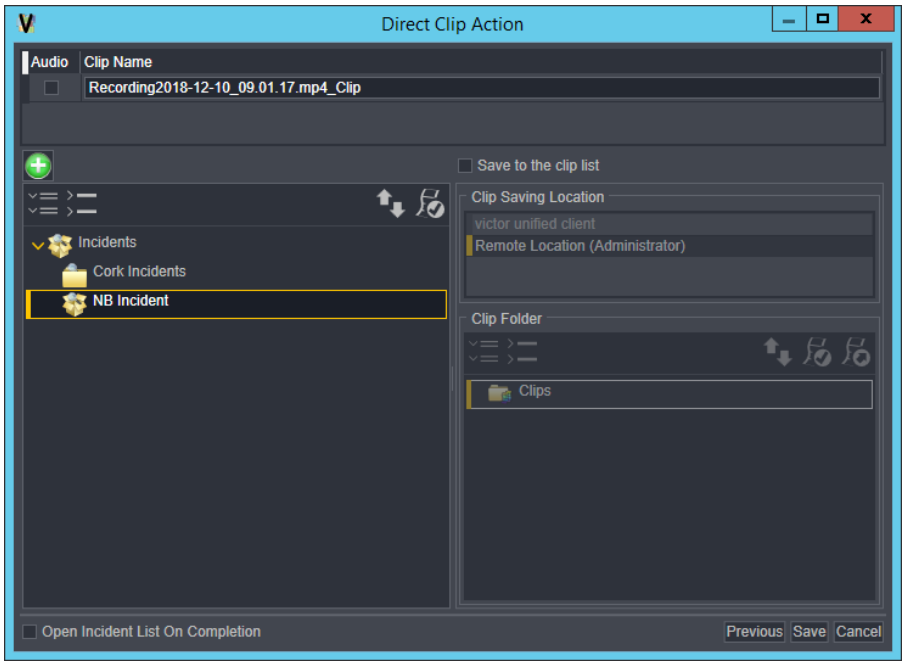
When selected, the Save to Incident button will launch a configuration window allowing you to specify which incident the item should be added a long with several other options.

Note:
Reports, journal entries, maps and heat maps can only be added to an incident using the Save to Incident button.

Saving a clip to an Incident

During clip creation, clicking Save to Incident will launch a new page in the Direct Clip Action window to associate that clip with a new or a pre-configured incident.

Figure 40: The Direct Clip Action window



1 Prepare the clip using the Clip Creation tools.

2 When the Direct Clip Action window opens, click **Save to Incident**.

The Save to Incident page displays in the Direct Clip Action window.

3 Edit the **Clip Name** as required.

4 (Optional) Create a new incident.

a Click 

b Enter the incident name in the **Title** field.

c Select the **Incident Saving Location** from the available list.

d Select the Incident's **Expiry** rule.

e Select an **Incident Folder** from the available list.

f Click  to add the Incident to the Incident List.

5 (Optional) Select  to expand all items in the Incidents tree.

6 Select the required Incident.

7 (Optional) Select the **Save to the clip list** checkbox.

a Select the **Clip Saving Location** from the available list.

b Select the **Clip Folder** from the available list.

8 (Optional) Select the **Open Incident List on Completion** checkbox.

9 Click **Save**.

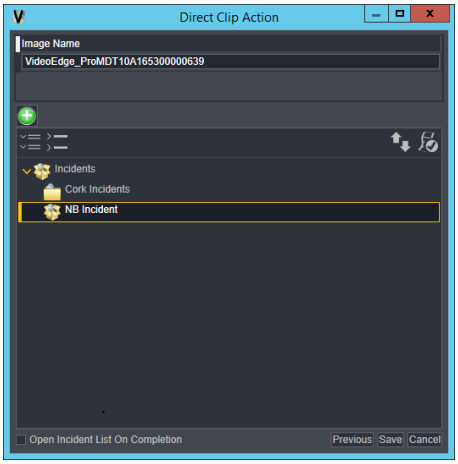
10 Click **Finish**.

Saving an image to an Incident

During still image capture, clicking **Save to Incident** will launch a new page in the Direct Clip Action window to associate that image with a new or a pre-configured incident.

1 Prepare the image using the Still Image Capture tools.

2 When the Still Image Capture window opens, click 
The Direct Clip Action window opens.



3 Edit the **Image Name** as required.

4 (Optional) Create a new Incident.

a Select 

b Enter the incident name in the **Title** field.

c Select the **Incident Saving Location** from the available list.

d Select an **Incident Folder** from the available list.

e Click 
The Incident will appear in the Incident List.

5 (Optional) Select  to expand all items in the Incidents tree.

6 Select the required **Incident**.

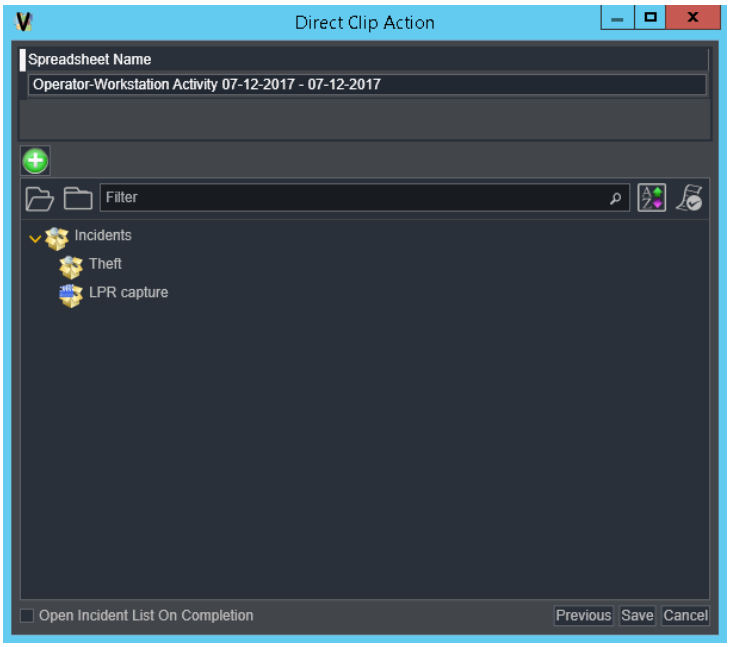
7 (Optional) Select the **Open Incident List on Completion** checkbox.

8 Click **Save**.

9 Click **Finish**.

Saving a report to an incident

Generated reports can be saved to an incident using the Save to Incident button. Reports can be saved as spreadsheets or images (if visualized).



Note:
Reports and data visualization will display results in the date and time of the local client.

1 Execute the report using the Report Search tools.

2 Select one of the following options:

- Save a report spreadsheet to an incident.

  a. When the report is generated, click  in the Reports and Data Visualization window. The Direct Clip Action window opens.

  b. Edit the **Spreadsheet Name** as required.

- Save a visualized report image to an incident.

  a. Click  to visualize the report.

  b. Select **Customize**.

  c. Click  to open the Direct Clip Action window.

  d. Edit the **Image Name** as required.

3 (Optional) Create a new incident.

a Select 

b Enter the incident name in the **Title** field.

c Select the **Incident Saving Location** from the available list.

d Click 

The Incident appears in the Incident List.

4 (Optional) Select  to expand all items in the Incidents tree.

5 Select the required **Incident**.

6 (Optional) Select the **Open Incident List on Completion** checkbox.

7 Click **Save**.

8 Click **Finish**.

Saving a Dynamic View to an incident

Dynamic views can be saved to an incident using the Save to Incident button. Dynamic views are saved as spreadsheets.

1 Navigate to the required dynamic view.

2 Select the entry you want to include in the generated spreadsheet.

3 Click 

The Direct Clip Action window opens.

4 Edit the **Spreadsheet Name** as required.

5 (Optional) Create a new incident.

a Select 

b Enter an individual **Title** in the field.

c Select the **Incident Saving Location** from the available list.

d Click 

The Incident appears in the Incident List.

6 (Optional) Select  to expand all items in the Incidents tree.

7 (Optional) Enter a Filter criteria in the field. Click to  clear the filter

8 Select the required **Incident**.

9 (Optional) Select the **Open Incident List on Completion** checkbox.

10 Click **Save**.

11 Click **Finish**.

Saving a map to an incident

Maps can be saved to an incident using the Save to Incident button. Maps are saved as images.

1 Navigate to the required map.

2 Right-click the entry that you want to view.

3 Click **View**.

The map opens in a new tab.

4 Click 

The Direct Clip Action window opens.

5 Edit the **Image Name** as required.

6 (Optional) Create a new incident.

a Select 

b Enter an individual **Title** in the field.

c Select the **Incident Saving Location** from the available list.

d Click 

The Incident appears in the Incident List.

7 (Optional) Select to expand all items in the Incidents tree.
8 Select the required **Incident**.
9 (Optional) Select the **Open Incident List on Completion** checkbox.
10 Click **Save**.
11 Click **Finish**.

Adding a heat map to an incident

Heat maps can be saved to an incident using the Save to Incident button. Heat maps are saved as images.

1 Generate the required heat map.
2 Click
The Direct Clip Action window opens.
3 Edit the **Image Name** as required.
4 (Optional) Create a new incident.
   a Select
   b Enter an individual **Title** in the field.
   c Select the **Incident Saving Location** from the available list.
   d Click
The Incident appears in the Incident List.
5 (Optional) Select to expand all items in the Incidents tree.
6 Select the required **Incident**.
7 (Optional) Select the **Open Incident List on Completion** checkbox.
8 Click **Save**.
9 Click **Finish**.

Image Editor

The Image Editor allows the user to crop, highlight, and mark images to better illustrate the suspect or issue. victor Client supports the following image editing features:

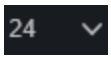
- Crop image
- Add text to image
- Add an object to image (Available objects: Line, rectangle, ellipse)

Edited images can be saved to incident folder. The incident will contain both the original image and the modified image. Users can view or revert to the original image by selecting the relevant option from the context menu.

Clip Builder toolbar icons

The following table details the different icons that you can access from the Clip Builder toolbar.

Note:
You must configure the **Line color**, **Line style**, **Line thickness** and **Fill object** settings before you add an object to an image. You cannot modify these settings for existing objects.

Element	Name	Action
	Undo	To undo an action, click 
	Redo	To redo a recently undone action, click 
	Cursor mode	Click  to set your mouse pointer to cursor mode.
	View Full Image	Click  to view the full image within the image editor window.
	Crop image	1. Click  2. Click, hold and drag the mouse cursor to highlight the area to be cropped. 3. Release the mouse button to crop the image.
	Add text	1. Click  2. Click on a point in the image where you want to add text. 3. Enter text. 4. Click **Ok**.
	Font style	1. Click the Font style box. 2. Select a font style.
	Font size	1. Click the Font size box. 2. Select a font size.
	Add an ellipse	1. Select **color** from the dropdown menu. 2. Select line style from the dropdown menu. 3. Drag the line thickness slider to set line width. 4. (Optional) Select the Fill checkbox to make the shape a solid object. 5. Click  6. Click and drag the ellipse to the desired shape. 7. Release the left mouse button to create the ellipse.
	Add a rectangle	1. Select **color** from the dropdown menu. 2. Select line style from the dropdown menu. 3. Drag the line thickness slider to set line width. 4. (Optional) Select the Fill checkbox to make the shape a solid object. 5. Click  6. Click and drag the rectangle to the desired shape. 7. Release the left mouse button to create the rectangle.
	Add a line	1. Select **color** from the dropdown menu. 2. Select line style from the dropdown menu. 3. Drag the line thickness slider to set line width. 4. Click  6. Click and drag the line to the desired shape. 7. Release the left mouse button to create the line.
	Add an arrow	1. Select **color** from the dropdown menu. 2. Select line style from the dropdown menu. 3. Drag the line thickness slider to set line width. 4. Choose **Add Arrow**.
	Line color	1. Click the Line color box. 2. Select a line color.
	Line style	1. Click the Line style box. 2. Select a line style.

Element	Name	Action
	Line thickness	Move the slider to adjust the line thickness for an object.
	Fill object	Select the **Fill** button to create a solid rectangle or an ellipse, instead of a shape outline. **Note**: This option can only be selected for an Ellipse or Rectangle with a Solid Line style.

Editing an image

1. From the Navigation bar, select 
2. Expand the required incident, then expand its **Images** folder.
3. Right-click the image that you want to edit.
4. Select **Open Image**.
5. Edit the image as required using the toolbar buttons.
6. Select **Save**.

Reverting to an original image

The original version of an image is stored in victor Client, alongside the edited version of that image. To revert to the original image at any time, select this option from the context menu.

1. Expand the **Images** folder from the required incident.
2. Right-click the required image.
3. Click **Revert to Original Image**.
4. Click **OK**.

Viewing an original image

1. Expand the **Images** folder from the required incident.
2. Right-click the required image.
3. Click **Open Original Image**.

   The original version of the image opens in the Image Editor.

   Note:
   When you open the original image, the image editing features are disabled.

Opening an image externally

1. Expand the **Images** folder from the required incident.
2. Right-click the image that you want to open externally.
3. Select **Open Externally** from the context menu. The image opens in Windows Photo Viewer.

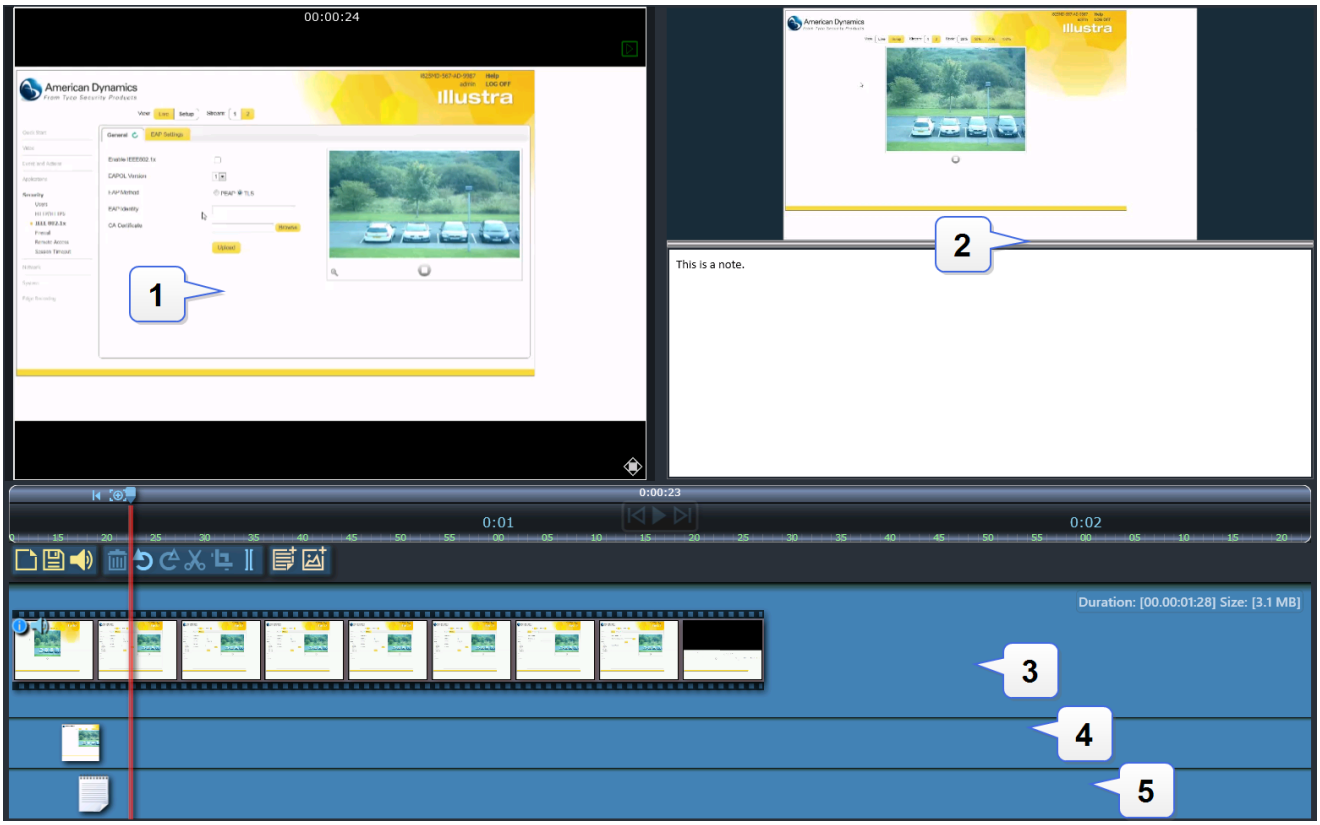
Presentation Builder

Use the Presentation Builder to combine video clips, images, and documents into an Incident Presentation. Video clips can be imported, edited and combined into a single playable video stream. Presentation Builder supports the following clip editing features:

- Clip splitting
- Clip cropping
- Clip cutting

Images and documents can be added to the Presentation timeline, and can be viewed during playback. The Presentation can be played back within the Presentation Builder, or it can be exported for playback in the Incident Player.

Figure 41: The Presentation Builder



Number	Description
1	Video appears in the main window
2	Images and documents appear in the auxiliary windows
3	Video timeline
4	Image timeline
5	Document timeline

Creating an incident presentation

1 From the Navigation bar, select 

2 Right-click the Incident that you want to edit in the Presentation Builder.

3 Select **Create Presentation**.

The Presentation Builder opens.

Note:
To edit an existing presentation, select **Load Presentation**.

4 Add Incident content to the Presentation Builder.

a Drag video clips from the **Clips** folder to the timeline.

b Drag images from the **Images** folder to the timeline.

c Drag documents from the **Notes** folder to the timeline.

Note:
• Objects can also be dragged onto the Auxiliary windows. Objects added in this way will appear on the timeline at the position of the playhead.
• During playback, the most recent image and note are displayed in the Auxiliary windows. As objects appear on the timeline, video playback will pause.

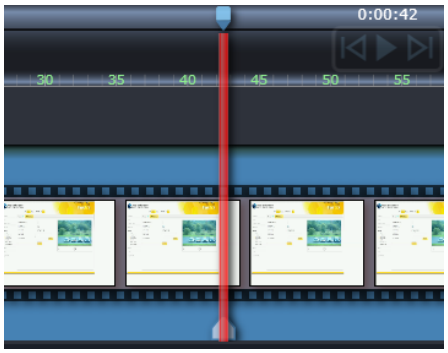
5 (Optional) Reposition objects along the timeline as required.

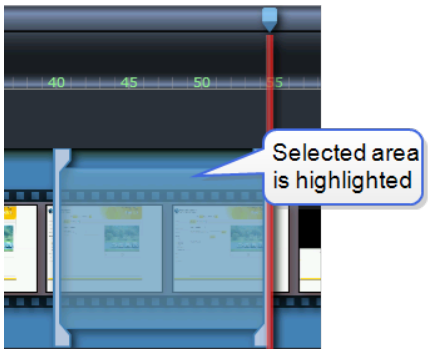
6 Edit the clip as required using the toolbar buttons.

7 Click 

The Incident Presentation is saved.

Presentation Builder toolbar buttons

Action	Description	Steps
Set a marker	Places a marker at the selected position in the video timeline.	1. Click and drag the playhead to the desired position on the video timeline. 2. Click the button at the top of the playhead. A marker appears at the bottom of the timeline. 
Select	Highlights a section of the video clip.	1. Set a start marker. 2. Set an end marker. The section of the video clip between the two markers is selected.

Action	Description	Steps
		
Split	Split the clip into two separate clips.	1. Drag the playhead to the section of the video timeline where you want to split the clip. 2. Click  to split the clip.
Remove	Remove footage from the clip.	1. Select a section of the video clip. 2. Click  to remove the footage from the clip.
Crop	Retains the selected video and removes any video Crop footage from the clip. **Note:** Cropping a clip does not remove video from other clips on the same timeline.	1. Select a section of the video clip. 2. Click  to crop any unselected footage from the clip.
Delete	Removes the selected video from the timeline.	1. Select a section of the video clip. 2. Click  to delete the selected footage from the clip.
Add clips	Adds the selected clip to the timeline.	1. Open the **Clips** folder from the **Incident Management** page. 2. Drag a clip from the **Clips** folder to the timeline bar.
Add note	Adds a note to the documents timeline.	1. Click and drag the playhead to the desired position on the video timeline. 2. Click  The Incident Management Text Editor opens. 3. Edit the note as required. 4. Click  to save the note and close the editor. The note is added to the timeline at the playhead position. The note is also added to the Incident **Notes** folder.
Add screen capture	Take a screenshot from the video feed and add it to the image timeline.	1. Navigate to the desired point in the video feed. 2. (Optional) Use video Zoom controls if required. 3. Click  to take a screen capture. The screen capture is added to the timeline at the playhead position. The screen capture is also added to the Incident **Images** folder.
Adjust volume	Increase or decrease clip playback volume.	Select  , then drag the audio slider to adjust clip playback volume.
Toggle audio	Enable or disable the clip audio stream. The **Toggle audio** button will show current audio status.	Select the **Toggle audio** button to disable audio. Select the button again to enable audio.

Action	Description	Steps
	 = audio enabled  = audio disabled	**Note:** While audio is disabled any incidents that you export will not contain audio.

Locking an Incident

You can lock and unlock incidents from the incident context menu. Locked incidents are read-only; you cannot edit the incident, and you cannot change the incident contents. However, you can still view the incident contents and you can export the incident.

1 From the Navigation bar, select 

2 Right-click the incident that you want to lock.

3 Select **Lock Incident**.

Note:
If the incident is already locked, the context menu displays the **Unlock Incident** option instead.

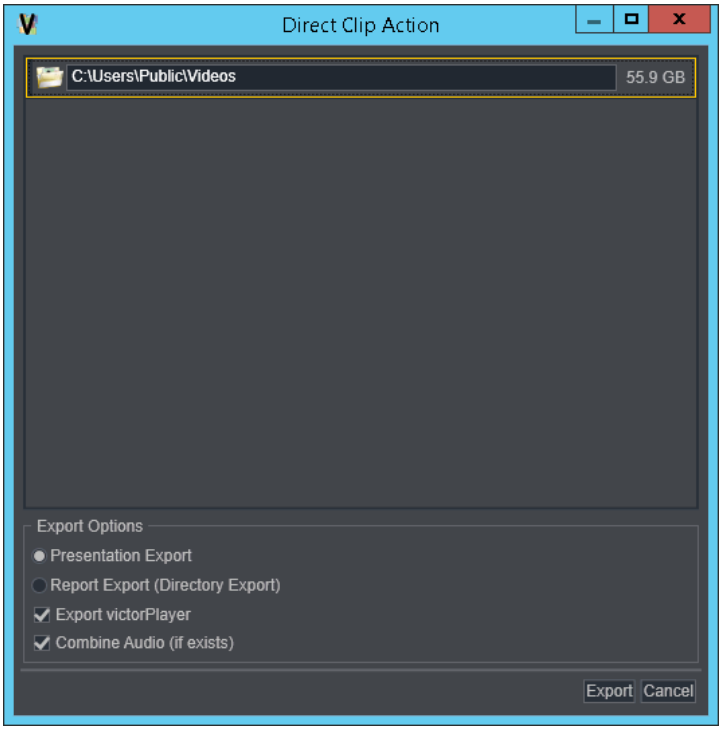
Exporting an Incident

Once an incident has been populated with all the required components, it can then be exported for viewing on other PCs. Incidents can be exported as Report Exports or Presentation Exports. Presentation exports contain an embedded security signature, which is used to verify that the exported mp4 package has not been modified. Report exports are generated using a Microsoft Word template file. The following templates are supplied as default:

- BOLO (Be On the Look Out) Report - Includes a date and timestamp, actions required and associated images which have been added to the incident, i.e. still images for example a headshot.
- Media Clip Report - Includes a date and timestamp, summary of the incident, hyperlinks to the associated media clips, journal reports, files, lists of actions required, and images.
- Blank Template - Doesn't include a date and timestamp but includes all items in the incident.

User-created report templates can also be created and stored for future use.

Figure 42: Exporting an incident



Note:
• An Incident Presentation must be created and saved before a Presentation Export can be selected.
• Files, spreadsheets and clips are listed as hyperlinks within the blank template.

1 From the Navigation bar, select 

2 From the Incident list, right-click the incident to be exported.

3 Select **Export Incident**.

The Direct Clip Action window opens.

4 (Optional) Edit the export directory.

a Hover over the export directory field. Option icons display.

b (Optional) Select  to add additional directory locations for exporting the Incident multiple times.

c Select one of the following options:

- Select  to choose an export directory using windows explorer.
- Enter the directory location in the field.

d Select  to remove an export location.

5 Select one of the following options:

- Presentation Export
- Report Export

6 (Optional for Presentation Export) Select **Export victor Player**.

7 (Optional for Presentation Export) Select **Combine Audio (if exists)**.

8 (Report Export only) Configure the Report.

a Select **Export**.

b Select the required template from the **Available Templates** dropdown.

c (Optional) Select  to expand all items in the Incidents tree.

d (Optional) Enter a Filter criteria in the field. Click to  clear the filter.

e Select the required components of the incidents to export. Click  and  to include or exclude items from the report. Items can also be removed by selecting the item and clicking 

f Click  and  to change the order each component will appear in the report.

g (Optional) Click **Preview** to view a preview of the generated report.

9 Click **Export** to export the files and generate the report.

A folder will be created in the export location containing the generated report and associated files.

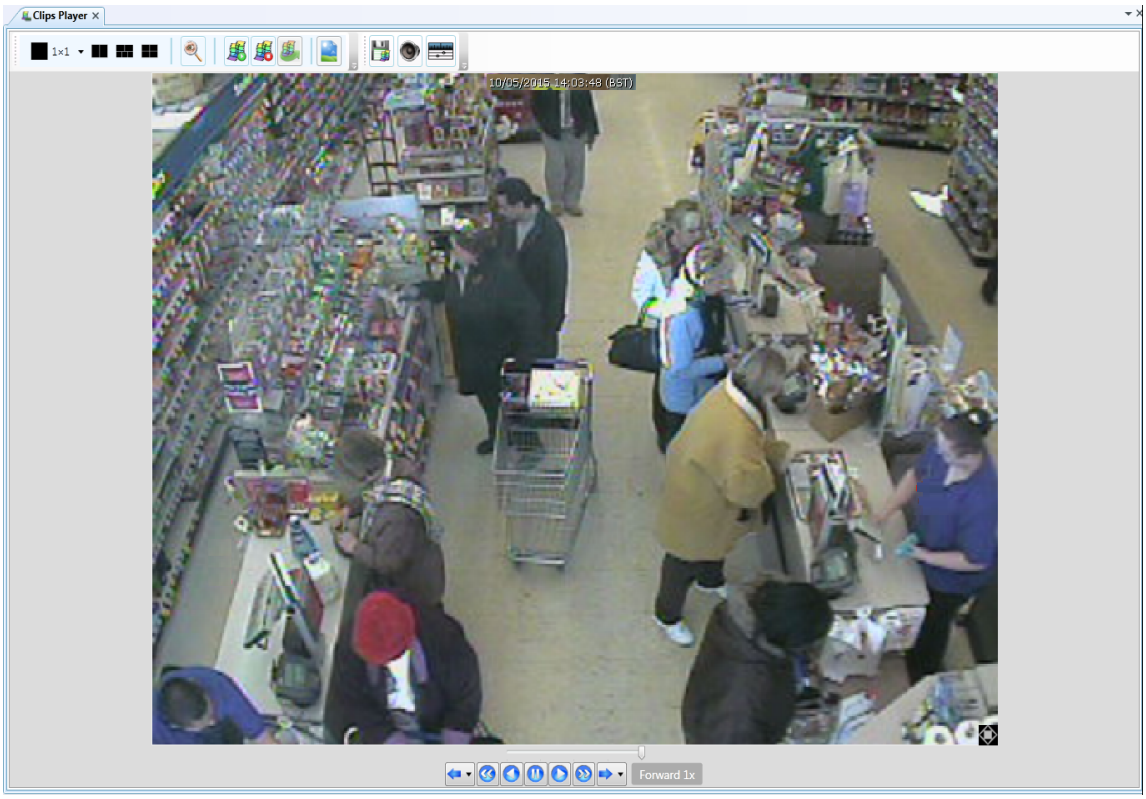
10 Select one of the following options:

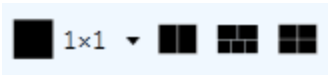
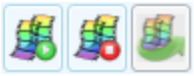
- Click **Finish**.
- Click **Open Folder** to open the Incident export location.

Viewing Incident components

You can view Incidents and their components from the Incident List. The method of viewing will depend on the selected file type:

- **Clips** - Double-click or right-click the clip file, and then select Playback Clip to view the clip. The clips player launches providing playback control.



Item	Description
	Layout selection
	Launch Investigator Mode
	Clip Creation and Export tools
	Cropped Still Image Capture
	Save Clip
	Enable / Disable Audio
	Launch / Close Timeline view
	Clip Progress Indicator
	Playback Controls

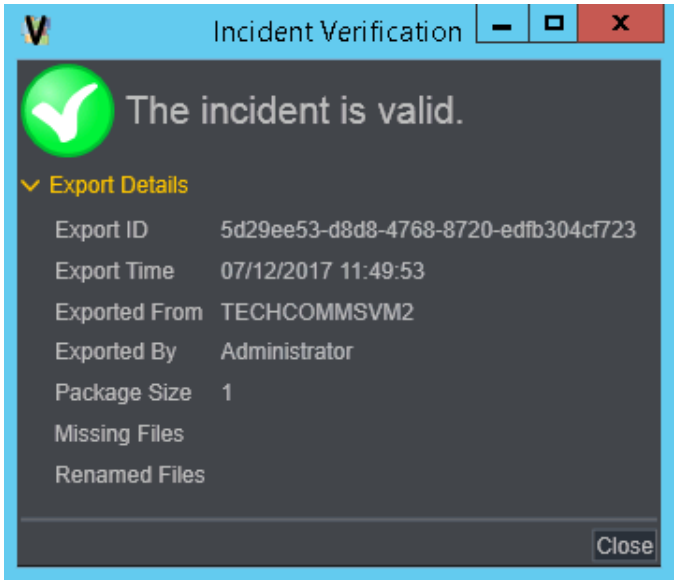
- **Images** - Double-click or right-click > Open Image to view the image. Images will be opened in the default application assigned in Windows.

- **Notes** - Double-click or right-click > Open Note to view the note. Notes will be opened in the Incident Management Text Editor.
- **Spreadsheets** - Double-click or right-click > Open Spreadsheet to view the spreadsheet. Spreadsheets will be opened in the default application assigned in Windows.
- **Files** - Double-click or right-click > Open File to view the file. Files will be opened in the default application assigned in Windows for the selected file type.

Note:
When a default application has not been assigned for Images, Spreadsheets and other file types, you will be prompted to select an application through Windows.

Verifying an Incident

Securely exported incidents contain a unique Export ID that is used to verify that the exported mp4 package was not modified. Securely exported Incidents can be verified in victor Client to check if the package contents were modified or deleted since the original export.



Note:
• The Incident Verification window displays incident metadata, and informs if the Incident is valid.
• Filenames for missing or renamed files are shown in the Incident Verification window.
• Renaming an exported incident package will not invalidate the package. The original filename is displayed in the metadata section of the Incident Verification window.

1 From the Navigation bar, select 

2 Select the **Verify** icon,  . Browse dialog displays.

3 Browse and select an Incident Package to be validated.

4 Select **Open**.

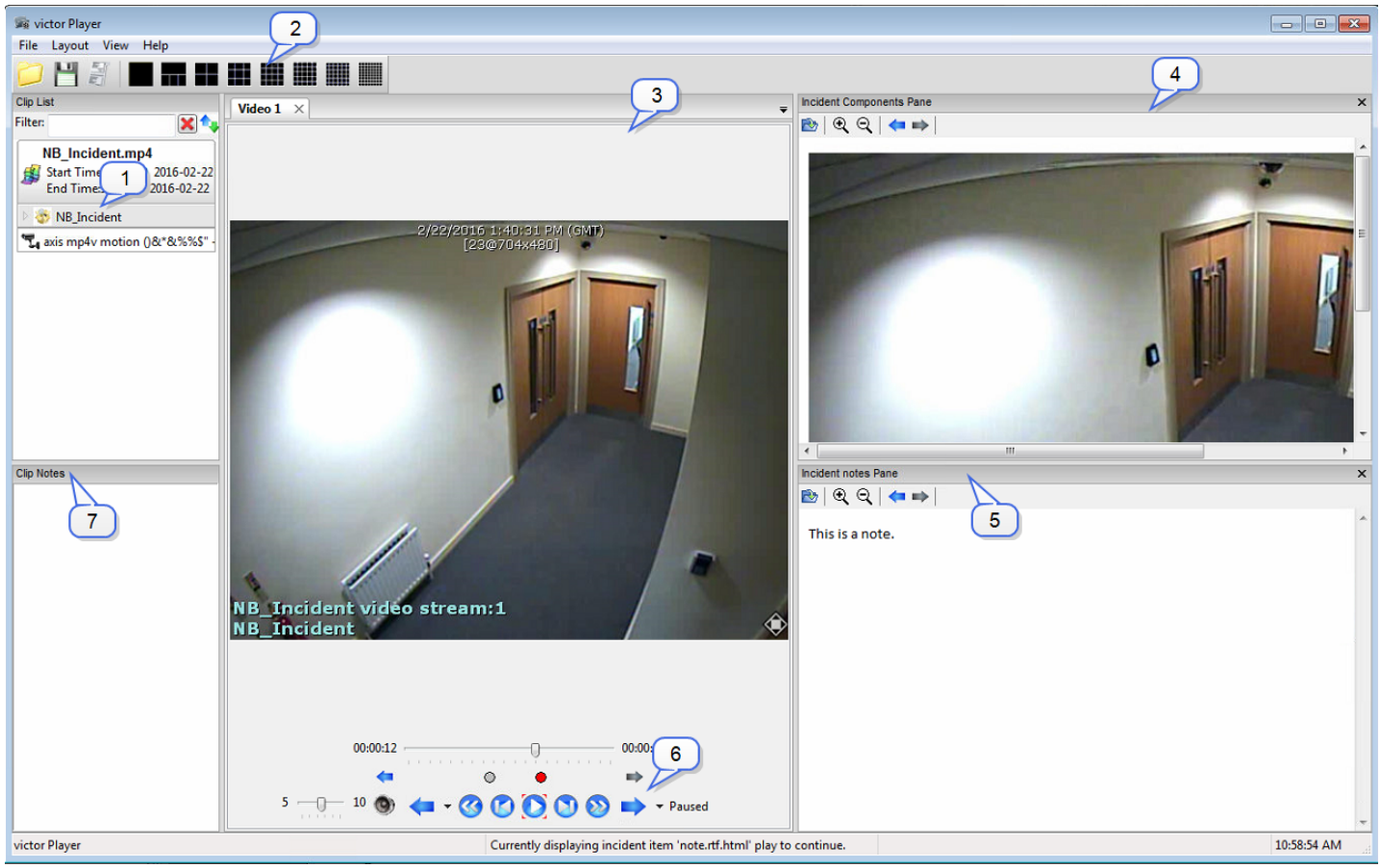
The Incident Verification window opens and the Incident is validated.

5 (Optional) Expand the Export Details

6 Select **Close**.

Playing Incident Presentations

Incident presentations can be played in **victor Player**. Video clips are displayed in the Surveillance Window, clip notes are displayed in the Notes Pane, and components such as images are displayed in the Components Pane.



Item	Description
1	Clip List
2	Layouts
3	Surveillance Window
4	Components Pane
5	Notes Pane
6	Playback Controls
7	Clip Notes

Playing an Incident Presentation

The following steps assume that **victor Player** is available on the local machine. If it is not available, it can be exported as part of victor Client's presentation export feature. For more information on exporting presentations, refer to "Playing an Incident Presentation".

1 Launch **victor Player**.

2 (Optional) Launch the presentation

3 Select one of the following options:

- Double-click 
- Drag and drop the presentation icon onto the surveillance window.

4 (Optional) Customize the Surveillance Window.

a Select a Surveillance Window layout.

b Drag video clips from the clip list to the panels in the Surveillance Window.

Note:
Customizing the Surveillance Window terminates presentation playback.

5 (Optional) Enable the Auxiliary Panes.

a Select **View**.

b Select **Hide/Show Incident Window**.

6 (Optional) Double-click a presentation component to open that file in an external application.

Note:

The auxiliary panes also include an **Open Externally** icon,  . Select this icon to open an incident note or component in an external application.

Dynamic Views

Object lists (Dynamic Views) are generally displayed using the **Show All** option from the Navigation bar, or from an object type's contextual menu. These lists generally contain object Names and Descriptions. Depending on the type of object being displayed, more information may be available by right-clicking the column headers and displaying extra detail

Sorting and filtering objects

You can sort objects within Dynamic Views by selecting field names.

1 Select 

2 Select the required object type.

Note:

You can also open a Dynamic View from the Devices list. Select  , right-click an object type, then select **Show All**.

3 To **Sort** objects:

- Select a Column Header to sort by. Objects sort alphabetically.

4 To **Filter** Objects:

a Select the filter icon  from the required column header for which the data is to be filtered.

b Select the filter criteria from the dropdown menu. Dynamic View updates to reflect the selected filter.

Applying a custom filter

You can apply custom filters to Dynamic Views to help find specific information or limit the scope of a list.

1 Open the Dynamic View.

2 Select the filter icon  from the required column header for which the data is to be filtered. Dropdown menu displays

3 Select **Custom**. Custom Filter Selection window displays.

4 Select **Add Condition**.

5 Select the operator from the **Operator** dropdown menu.

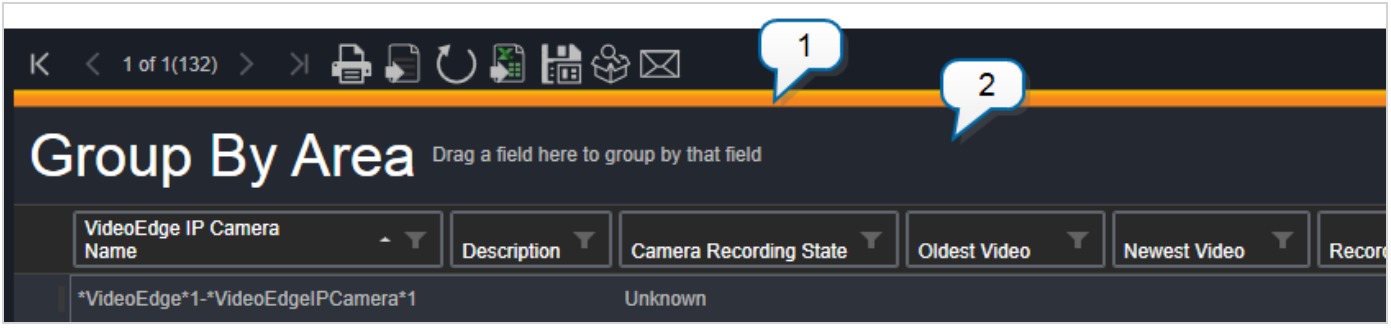
6 Select the operand from the **Operand** dropdown menu.

7 Select **Ok**. The Dynamic View updates to reflect the filter criteria.

Grouping Dynamic View information

You can group Dynamic View information by field names using the **Group By Area**. This is the solid bar under the Dynamic View Controls.

Figure 43: The Group By Area



Number	Description
1	Select this bar to expand the Group By Area.
2	Drag column headers to this section to group the Dynamic View information.

Procedure 4 Grouping Dynamic View information

1 Open the Dynamic View.

2 Select the Group By Area. **Group By Area** displays.

3 Drag column headers into the area.

The Dynamic View updates to reflect the grouping.

4 (Optional) Drag column headers out of the area to remove them from the Group By Area.

5 Use the controls in the Group By Area to manipulate the view.

Exporting object lists

You can export Dynamic Views in .XPS and Excel format.

1 Open the Dynamic View, sort and filter as required.

2 To export as an .xps document:

a Select the **Export the Grid** icon, .The **Save As** dialog displays.

b Navigate to the Save in folder.

c Edit the **File name** as required.

d Select **Save** to save the .xps file.

3 To export as an Excel document:

- Select the **Export the grid to Excel** icon, .

If Excel is installed, it automatically loads the file. If Excel is not installed, a Windows dialog displays - select from the options displayed.

Saving a Dynamic View

After you configure a Dynamic View to display as required, you can save the view for later retrieval.

1 Configure the Dynamic View as required.

2 Select the **Save the current grid configuration** icon, 
The Create/Save dialog opens.

3 Enter a name for the view in the **Name** textbox.

4 (Optional) Enter a description for the view in the **Description** textbox.

5 Select the **Default** checkbox if you require this view to be the default for displaying the dynamic views of this object type.

Note:

To display a dynamic view that is not set as default, select  , then select **Dynamic View**. Right-click on the view and select **Show the view**.

Additional Functions

Additional functions can be accessed from dynamic views depending on the objects that are being displayed. This includes the option to create a new object or assign properties to an object selected in the dynamic view. Some objects can also be saved to an Incident folder, or sent as email attachments.

By selecting multiple instances in the dynamic view you can batch edit shared properties. The properties displayed will be dictated by the dynamic view in use.

Icon	Name	Description
	Set Properties	Assign object properties
	Save to Incident	Save the object to an Incident
	Send by email	Send the object by email

Note:
• You must configure Email Preferences before you can send dynamic views as email attachments. You can configure Email Preferences from the Settings menu.
• The report is attached to the email as an .xps file.

Setting object properties

1 Display the Dynamic View. Sort and Filter as required.

2 Hold the **Ctrl** key and select the required object instances from the dynamic view.

3 Select  to open the **Set Properties** window.

4 Edit the properties as required.

5 Select **Save**.

Saving an object to an Incident

1. Display the Dynamic View. Sort and Filter as required.
2. Hold the **Ctrl** key and select the required object instances from the dynamic view.
3. Click 
   The Direct Clip Action window opens.
4. Select the Incident from the Incident List.
5. (Optional) Select the **Open Incident List On Completion** checkbox.
6. Select **Save**.

Sending an object by email

Note:
You must configure Email Preferences before you can send dynamic views as email attachments.

To configure Email Preferences, select  , then select **Settings**.

1. Display the Dynamic View. Sort and Filter as required.
2. Hold the **Ctrl** key and select the required object instances from the dynamic view.
3. Click 
   An email popup appears.

Note:
The report is attached to the email as an .xps file.

4. Edit the email contents as required.
5. Select **Send**.

Operators

Operators are users of the client. victor operators can sign in or sign out of victor Client. Operators can also switch user.

Logging in to victor Client

1. Double-click the **victor Client** desktop icon on the client machine. Client Sign In window displays.
2. Select Authentication Method the operator uses from the dropdown - Windows or Basic.
3. Enter **Username** (Windows Username of the installer account if this is the first login).
4. Enter **Password** (Password of the Installer Account).

   Note:
   Blank Password are not accepted.

5. Select **Domain** and **victor Application Server** as required.
6. Select **OK** to log in.

Logging out of victor Client

When finished using victor Client, you can log out. This effectively frees up a license on your system, allowing another operator to log in.

1. Select  from the Quick action bar, then select **logout**. Operator logout dialog opens.
2. Select **Log out**.

Switching Operator

You can switch the current operator without exiting victor Client or logging out of Windows.

Note:
When switching operator, if an invalid username or password is entered, the client will be disconnected and the user presented with the Login window.

1. Select  from the Quick action bar, then select **login**. Client Sign In window displays.
2. Select the **Authentication Method** for the operator - Windows or Basic.
3. Enter **Username** (Windows Username of the installer account if this is the first login).
4. Enter **Password** (Password of the Installer Account).

   Note:
   Blank passwords are not accepted.

5. Select **Domain** and **victor Application Server** as required.
6. Select **Options**. To retain the current layout select the **Keep current layout** checkbox.
7. Select **OK** to log in.

Events

An event can be considered as anything significant that happens within your victor system.

You can create and implement system events to detect, monitor and record specific activity on the system.

A typical use may be to use a map action to alert a user of motion detection on a camera covering a sensitive area.

In this scenario, you can configure an event to perform the following actions:

- Alert the user by visually triggering a Video Action associated with the event displaying video from other cameras in the area
- Trigger a map action that shows the location of the of the camera in alarm state
- Create a high priority Journal entry that requires operator acknowledgment

Event Types

Within the victor environment, there are two main event types: **Sensor** based and **Health** based.

Sensor Based Events

These events, when triggered typically display predefined Event Actions. These are system actions, tied to events which are set to display when events are triggered. Examples of Event Actions can be video Salvos or Map actions.

The following general steps are involved in configuring a Sensor based event:

1. Add a trigger to the sensor device (For example, set motion detection on a camera).
2. Create the Event Action to be executed when the Event triggers.
3. Create the Event.
4. Associate the Event Action with the Event.
5. Associate the Event with the Trigger.

Health Based Events

System Health events do not typically involve video actions as their primary use is not security based. Instead they are used to warn users of potential issues with system failure. A typical use may be to inform a user that an alarm has been received warning of CPU overheating.

Acknowledge and Clear options

You can configure Acknowledge and Clear options for individual events. These options determine if an event requires a user to enter extra information before they can acknowledge or clear the event.

Options are:

- Require a Log Message to be entered when acknowledged
- Require a Log Message to be entered when Cleared
- Username and password required to acknowledge
- Username and password required to clear

Note:
These credentials can be from any user who has permission to acknowledge and clear the event.

Log Messages

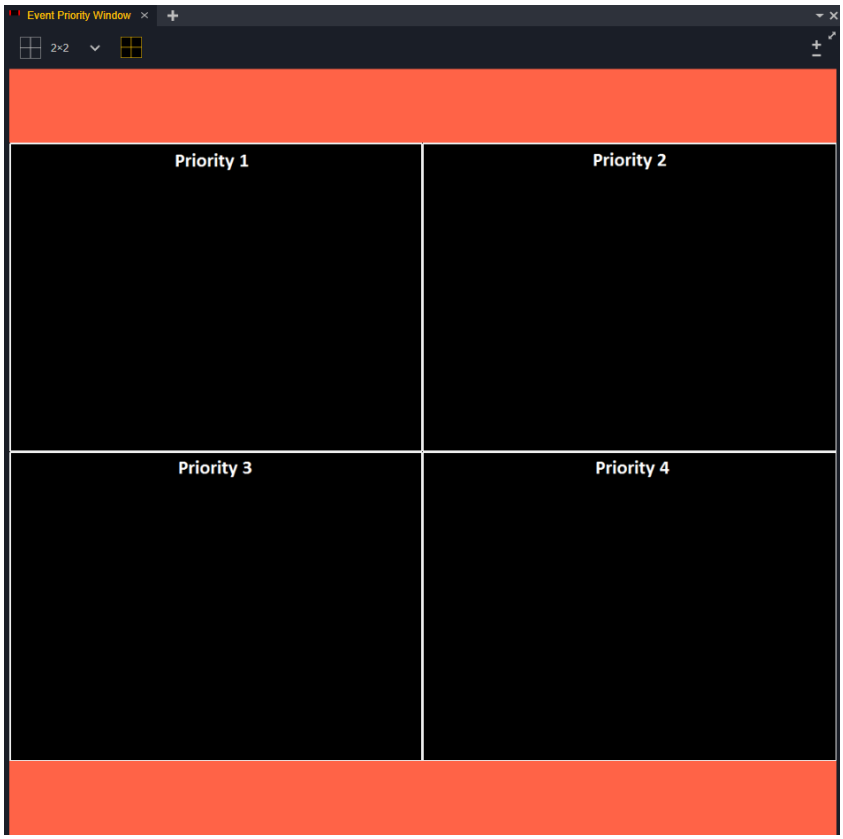
Log messages are typically used to clear and acknowledge events, but you can manually enter messages to be written to the journal at any time.

You can also select Log messages from a Predefined Message Log which can contain up to 3000 user defined messages.

The Event Priority Window

The Event Priority Window is a surveillance window which is used to view camera Call Up Actions associated with Events. The surrounding red border distinguishes the Event Priority Window from standard surveillance views.

Figure 44: The Event Priority window



It is a 2X2 configuration. Call up video is displayed according to the priority of the event it is associated with. Highest priority displays in the top left pane of the window, descending in priority to Top right, Bottom left and Bottom right.

New events having a higher priority than those already displayed on will ‘Bump’ the lower priority windows. This will lead to lowest priorities dropping off when more than four streams attempt to display.

Video streams cannot be viewed in the Event Priority window unless triggered by an event.

The window must be open when the event triggers in order to view the camera call up; the event does not cause the window to open.

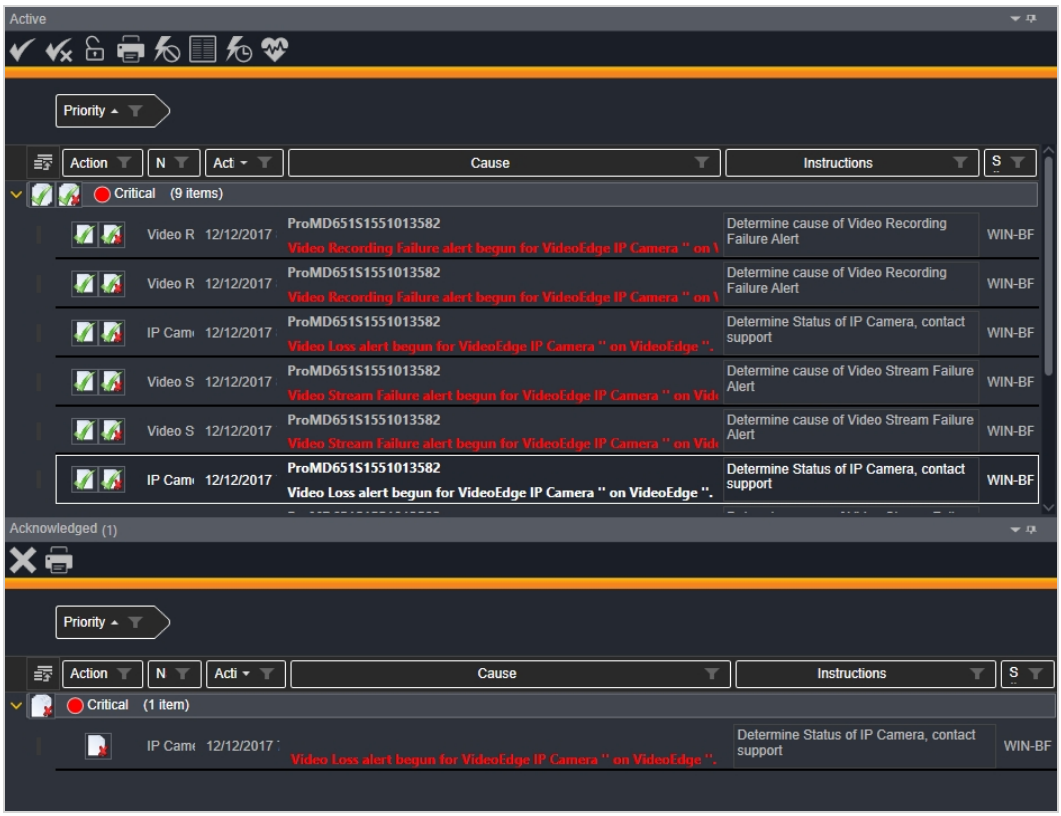
Event Viewer

The Event Viewer is a dynamic display of system event activity, accessible from the Quick action bar, and from the New Tab page. It is a real time list that displays active and acknowledged events.

From the event viewer you can perform the following actions:

- Acknowledge system events
- View Event procedures
- Clear system events
- Sort events according to priority
- View event details including instructions, causes and activation time
- Review associated video
- Group events by type

Figure 45: The Event Viewer window



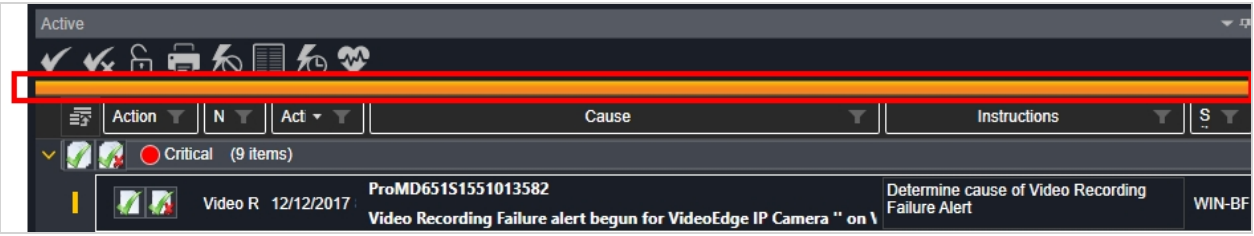
Note:
• When there are 2000+ events in either the Active or Acknowledged panes, paging buttons are displayed
• When paging buttons are in use, **Acknowledge All** and **Clear All** buttons work on a per page basis
• By default, 2000 events per page are displayed, this can be changed to 500 or 100 by selecting the Page Size dropdown

Sorting the Event Viewer list

You can use the Event Viewer's grouping area to sort groups by more than one priority.

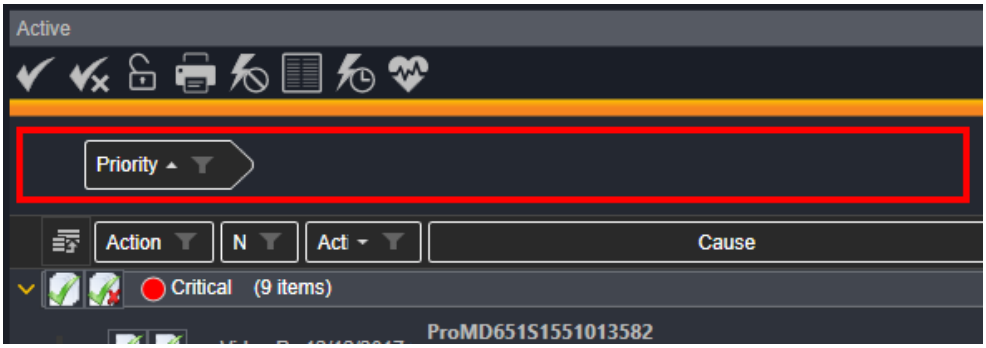
Using the grouping area of the event viewer, you can 'Multi Level Group' on any of the columns displayed. This means you can sort groups by more than one priority. To open the **Group By** area, select the divider that is underneath the object list controls. This divider is highlighted in the image below.

Figure 46: The grouping divider



When you select the grouping divider, the area expands. You can drag column headers into the grouping area.

Figure 47: The Group By area



1 Select , then select **Event Viewer**.

2 Select the **Group By** area.

3 Click and drag a column header into the **Group By** area. Groupings update accordingly.

4 Multi-Group the items by adding more column headers.

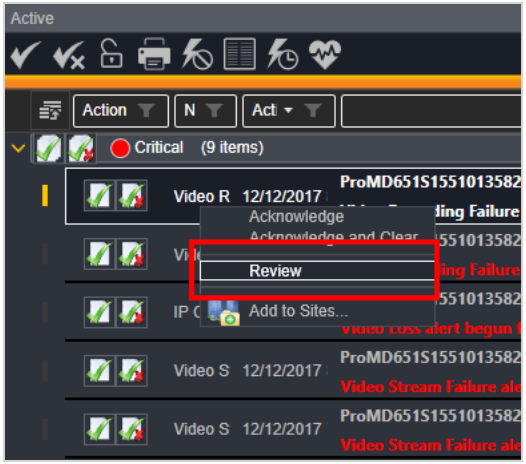
Note:
By default, events are sorted by Name.

5 (Optional) Select a header's filter icon to further filter the Event Viewer list.

Review associated video

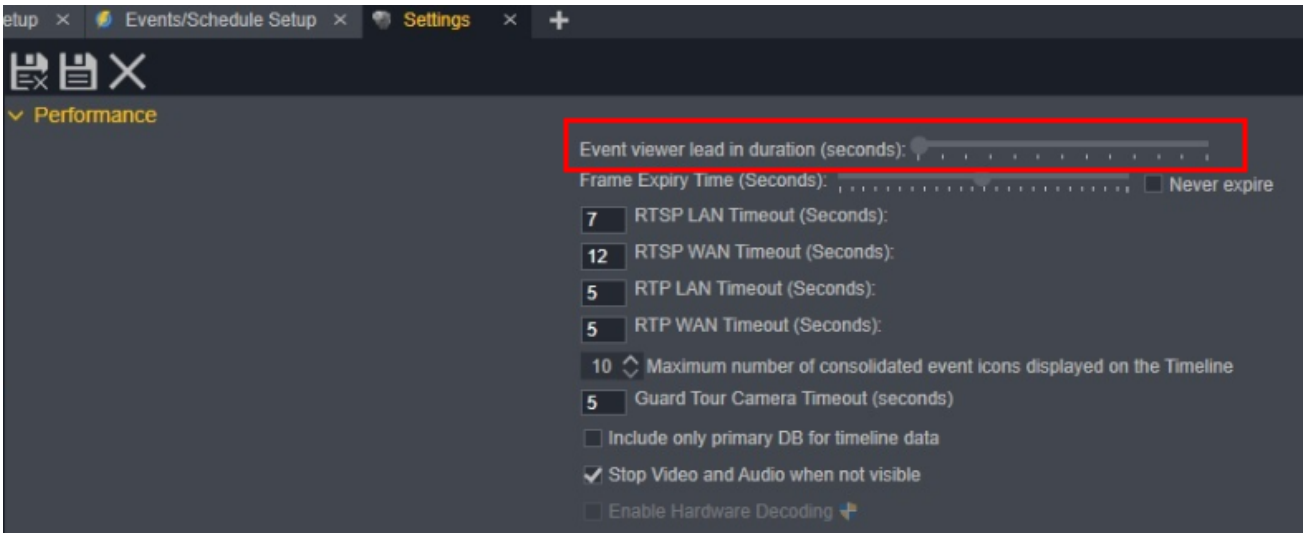
If an active or acknowledged Event has associated video, this can be reviewed by right-clicking on the Event and selecting **Review**. An Investigator Mode pane will open displaying associated video.

Figure 48: Review associated video



When you review an event from the Event Viewer, video playback starts at the time that the event occurs. To start playback before the Event occurs, you can set a **lead in duration** from 1 second to 60 seconds. You can adjust the lead in duration from the Video Preferences menu on the Settings page.

Figure 49: Settings for lead in duration



Acknowledge/Clear events

From the Event Viewer, depending upon role permissions, you can acknowledge and clear events individually or by group. In addition, if a procedure is associated with the event, you can open the procedure from the Event Viewer. Depending upon event settings, you may be required to enter username and password or log a message to acknowledge and clear events. Actions relating to various buttons on the Event Viewer are detailed below.

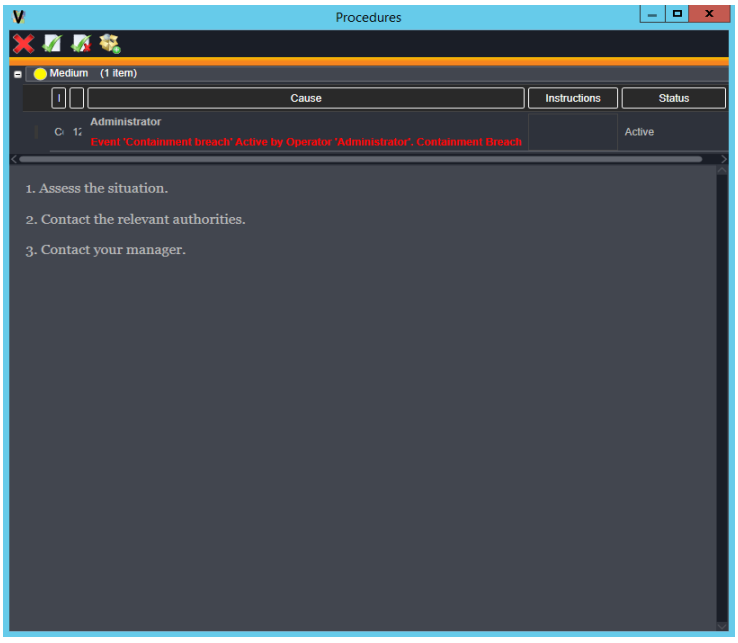
Button	Event Viewer Area	Action
	Top Level List (Active Pane)	Acknowledge all events
	Top Level List (Active Pane)	Acknowledge and clear all events
	Top Level List (Active Pane)	Freeze/Unfreeze pane
	Top Level List (Acknowledge Pane)	Clear all events
	Top Level List (Active and Acknowledged Panes)	Print
	Top Level List (Active Pane)	List only events with permission to action
	Top Level List (Active Pane)	View events as a flat list. Select this button again to switch to the default event view
	Top Level List (Active Pane)	Include or exclude the source local time. in the events list
	Top Level List (Active Pane)	Exclude or include health events in the event list

Button	Event Viewer Area	Action
	Event Group (Active Pane)	Acknowledge all activations in event group
	Event Group (Active Pane)	Acknowledge and Clear all activations in event group
	Event Group (Acknowledged Pane)	Clear all activations in event group
	Event (Active Pane)	Acknowledge individual event
	Event (Active Pane)	Acknowledge and clear individual event
	Event (Active Pane)	Open the event procedure menu
	Event (Acknowledged Pane)	Clear individual event
	Event (Active Pane and Acknowledged Pane)	Open the Event Assessment pane.

Open associated procedure

To view a procedure that is associated with an event, select the **Open associated procedure** icon, 

From the **Procedures** menu, you can also acknowledge the event, acknowledge and clear the event, or save the event to an incident.



Creating a Predefined Log Message

Predefined Log Messages can be created which can then be used when required to acknowledge or clear an event without needing to type text.

Messages are identifiable by their labels, which are assigned when they are created. Labels and message fields are mandatory for every message created. Labels can be up to 100 characters in length and messages up to 3000 characters in length.

The language for each message can also be assigned, this means when a user logs a message, the messages available are filtered to provide current language messages only. To log a message in a different language, you must switch language in the client.

1 Select , then select **Predefined Message Log**
New Predefined Message editor displays.

2 Select the **Language** dropdown.

3 Select the language in which the message is to be displayed.

4 Enter label text in the **Label** textbox.

5 Enter message text in the **Message** textbox.

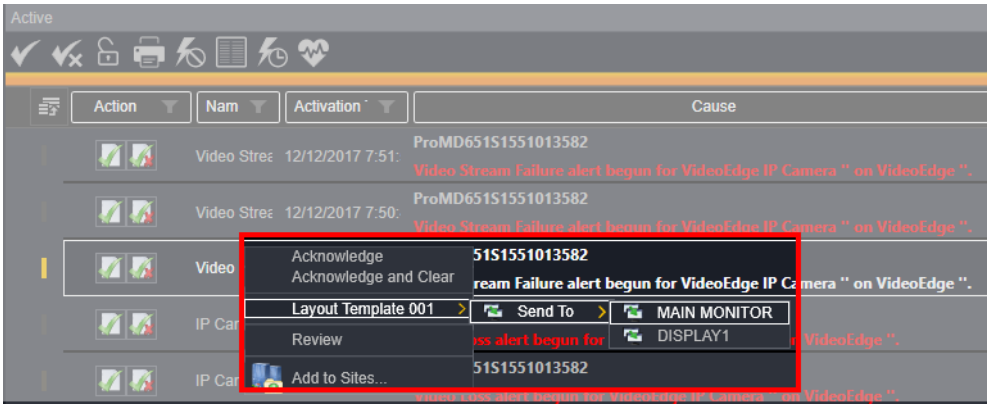
6 Select to add additional messages or to remove selected messages.

7 Select **Save**.

Using a layout template

You can open layout templates from the Event Viewer right-click menu. This enables easy investigation of an incident by opening all required layout components from one click.

Figure 50: Opening a layout template



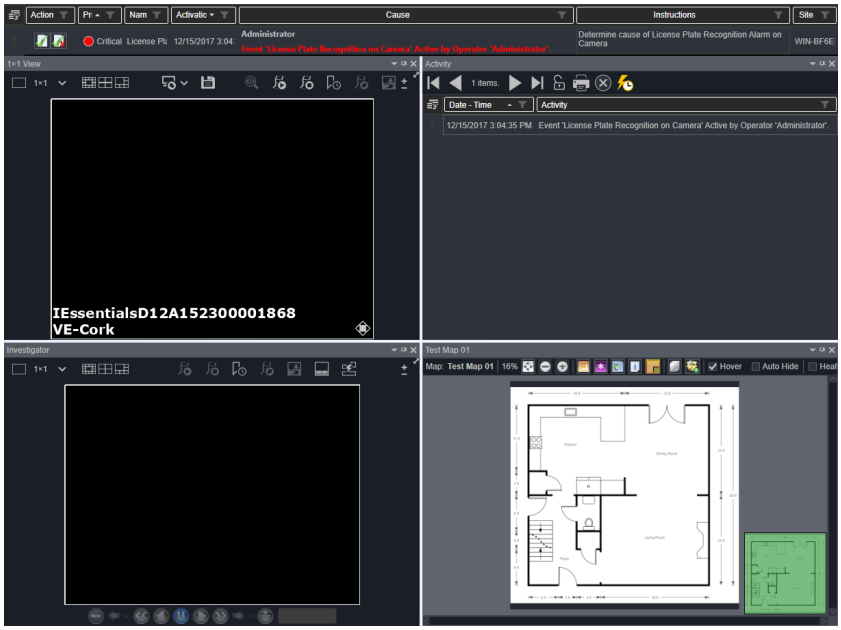
1 Right-click an Active or Acknowledged event in the Event Viewer.

2 Select the Layout Template to load and the monitor to display it on. Layout Template will load.

Assessing an event

When you configure an event, you can assign a Layout Template to that event. After the event triggers, users can click the assess button to analyze the event in a pre-configured Layout Template.

Figure 51: Assessing an event through a layout template



1 Expand an Active or Acknowledged event in the Event Viewer.

2 Select  to assess the event through a Layout Template.

Event Management

The Event Management feature is a central hub where you can create, edit, and manage events. The event hub contains four configuration windows:

- **Alert Actions:** Create new alert actions or edit existing alert actions.
- **Events:** Create new events or edit existing events.
- **Actions:** Create new actions or edit existing actions.
- **Rules:** Create new rules to specify a criteria that must be met for an action to occur.

Configuring Alert Actions using Event Management

1 Click the **System Configuration** icon. The **Configuration** window opens.

2 Select **Event Management**. The **Event Management** window opens on the **Alert Actions** configuration. There are four sections to configure as follows:

- From (Device)
- Trigger (Alert)
- During (Schedule)
- Cause (Action)
- Specific – alert from a specific device

Note:
When a feature is configured, a green status light appears next to the section.

3 Select a device or type of device to configure in the **From (Device)** section using one of the following steps:

a Drag and drop the device into the **From (Device)** section.

b Click the **Add** icon. The **Select Alert Source** window opens. Click **Generic alert from device of any type**. The **Name** list displays all device options. Click the device you want to configure and then click **OK**.

4 Click the forward arrow to navigate to the **Trigger (Alert)** section. The **Name** list displays all trigger options.

5 Select a trigger from the list and click the forward arrow to navigate to the **During (Schedule)** section. The **Name** list displays all schedule options.

6 Select a schedule from the list.

7 **Optional:** To create a schedule, click the **Add** icon. The **Create New Item** window opens. For more information on creating a schedule, see *Schedules*.

8 Click the forward arrow. The **Cause (Action)** window opens.

9 Select an action from the list. The action displays in the **Current Changes** section.

10 **Optional:** To create a new action, click the **Add** icon. The **Create a New item** window displays. For information on creating an action, see *Event Actions*.

11 Click **Save**.

Configuring Events using Event Management

1 Click the **System Configuration** icon. The **Configuration** window opens.

2 Select **Event Management**. The **Event Management** window opens on the **Alert Actions** configuration.

3 Click **Events**. The **New Event** window opens. For more information on creating an event, see *Event Actions*.

Configuring Actions using Event Management

1 Click the **System Configuration** icon. The **Configuration** window opens.

2 Select **Event Management**. The **Event Management** window opens on the **Alert Actions** configuration.

3 Click **Actions**. The **Create a New item** window opens. For more information on creating an action, see *Event Actions*.

Configuring Rules using Event Management

1 Click the **System Configuration** icon. The **Configuration** window opens.

2 Select **Event Management**. The **Event Management** window opens on the **Alert Actions** configuration.

3 Click **Rules**. The **Create a New item** window opens.

4 Click the **Rules** icon. The Rules page opens.

5 In the **General** section, enter a name and description for the Rule in the **Name** and **Description** fields.

6 Select the **Enabled** check box to enable the rule.

7 In the **Action** section, click the **Select Action** icon. The **Object Selector** window opens.

8 In the **Type** list, select the action.

9 In the **Criteria** section, select the criteria type. There are three criteria you can configure:

- Alarm Type
- Schedule
- Bulk Object

Note:
Bulk Object is used to include or exclude specific objects.

10 Configure the rule and then click the **Apply** icon.

Guard Tour Action

You can schedule a Guard Tour using the Guard Tour Action feature.

Configuring a Guard Tour Action

1. Click the **System Configuration** icon and then click **Event Management**.
   The Event Management page opens.
2. To create a new schedule:
   a. Expand the **During (Schedule)** section and click the **Add** icon.
   b. Click a schedule type: Recurring Schedule (Multiple Intervals) or Schedule (Weekly).
   c. Configure the schedule as required. For more information, see "Schedules"
   d. Click the **Save the current object and close the editor** icon.
   The Event Management page opens.
3. To select the alert source:
   a. Expand the **From** section and click the **Add** icon.
   The Select Alert Source page opens.
   b. In the **Name** section, click the schedule type.
   A list of schedule items displays.
   c. Click the new schedule and then click **OK**.
   The Event Management page opens.
4. To configure a trigger alert:
   a. Expand the **Trigger (Alert)** section.
   b. Click **Schedule Start Time** or **Schedule End Time**.
5. To create a Guard Tour Action:
   a. Expand the **Cause (Action)** section.
   b. Click the **Add** icon and then click **Guard Tour Action.**
   c. In the **Name** and **Description** fields, enter an appropriate name and description.
   d. In the **Guard Tour** section, click the **Select from existing Guard Tours** icon.
   The Object Selector window displays.
   e. Click the required Guard Tour, click **OK**, and then click the **Save** icon.
   The new Guard Tour is listed in the Cause (Action) section.
   f. Click the new Guard Tour Action and then click the **Save** icon.

The new Guard Tour Action appears in the Event Management list and will trigger at the configured time.

Support for Exacq external DIO module

Input triggers are supported using event setup and configurations from onboard and external I/O modules that are connected to exacqVision recorders.

Note:
Outputs are currently not supported.

To configure an event for an exacq video input, complete the following:

1. Select the **System Configuration** icon. The **Configuration** page opens.
2. Select the **Event/Schedule Setup** icon. The **Event/Schedule Setup** page opens.
3. From the **Devices** list, select the dry contact input and drag and drop it in the **Event/Schedule Setup** page. Each dry contact input you select will show options as follows:
   - **Alerts:** Alert type to trigger action from
   - **Actions:** Actions to trigger from the alert
4. Configure events. For more information, see Using the Events/Schedule Setup editor.
5. When the events are activated, you can view them in the **Event Viewer** or the **Activity** list:
   - Click the **Number of active alerts** icon to open the **Event Viewer**.
   - Click the **New Tab** icon and then click the **Activities** icon to open the **Activity** list

Note:
You can view a list of all video inputs by clicking the **Show All** icon and then clicking the **Video Inputs** icon.

The Activity list

The Activity list displays a live viewing of activities related to objects that are connected to your victor workstation. To access the Activity list, select the New Tab icon,  , then select **Activity**. If you configure object associations, you can review these associations from the Activity list.

The activity list can display up to 1,500 recent activities. To automatically scroll to the most recent activities, select the **Follow Activity** checkbox. When this option is enabled, if you select an activity from the list, or if you manually scroll through the list, the Follow Activity function disables.

Note:
The activity list provides live viewing only: activities are not stored between sessions, and any activities that occur while the activity list is closed are not displayed.

Figure 52: The Activity list

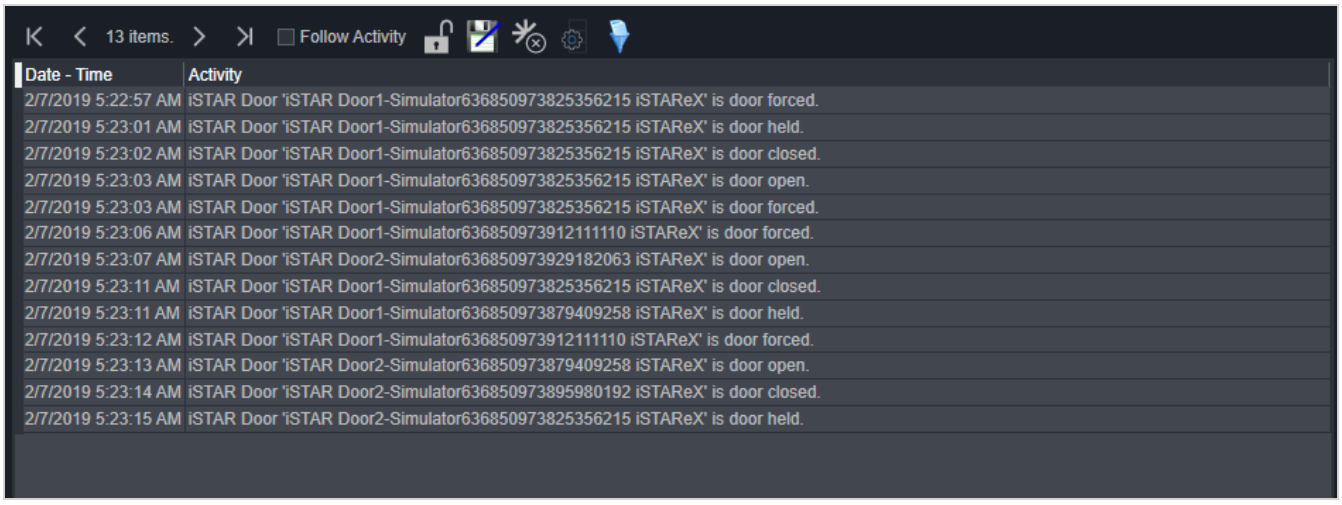


Table 17: Activity list toolbar icons

Icon	Action
	Move to the top of the Activity list
	Move to the bottom of the Activity list
	Page up
	Page down
	Freeze alarm list for 30 seconds
	Export the Activity list as a .pdf file
	Clear the activity list

Icon	Action
	Choose which of the following fields appear in the activity viewer: **Date - Time**, **Activity**, **Site**, and **Source local time**
	Select this icon to choose filtering options for an activity field

Sites

A Site is a user definable list of folders into which you can drag devices and objects.

Sites allows users to organize and group objects into logical folder views instead of the traditional device driven views.

Users can create sites and folders with custom names and organize the objects within according to criteria relevant to that site. For example, a folder can be named ‘East Car Park’ and that folder can be used to group objects related to that particular area (Cameras, Recorders etc.)

The site list is therefore used as a convenient method from where to open objects and views related to a particular physical location. To open the Sites menu, select the Sites icon from the Navigation bar.

Using sites

You can display the site list and fully interact with all objects within folders.

1 Select  to open the Sites list.

2 Expand required site folder.

3 Right-click objects to display their standard context menu.

Reports and Data Visualization

The reporting function is used primarily to display Journal and Audit information on system objects and activity.

Various predefined report templates are available within the client or alternatively, you can use '**Ad Hoc**' reports for more customizable reports which allow search terms to be used.

The Data Visualizer feature allows users to display report data graphically using Charts, Timelines and Report Grids.

You can send reports and data visualizations as email attachments, directly from the reporting module.

You can configure reports to refresh at regular intervals, so that the report displays up-to-date information about system objects and activity. You can also incorporate reports into workspace layouts, to create dashboards that display system information in addition to surveillance information. For more information about Analytic Dashboards, see "Layouts".

Note:
You must configure Email Preferences before you can send reports and data visualizations as email attachments. To configure Email Preferences, select the **Configuration** icon, select **Settings**, then select **Email Preferences**.

Journal Filter

The Journal Filter is used to regulate the amount of data being written to the database (journaled) by blocking/unblocking specific alert types. The feature is accessed from the **Settings** page.

The following message types cannot be blocked and will always be journaled:

- General Purpose Interface Activity
- Operator Login
- State Change
- System Activity
- System Error

The default setting is to record, meaning messages will be written to the database unless they are blocked in the journal filter.

Note:
Motion Detection, Light Change, and Motion Exception Alerts are blocked by default.

Report exceptions are controlled at Object and Type level. Object Exceptions override Type Exceptions - therefore if an alert type is blocked at type level but allowed for a specific object, the object's alert will be written to the database but the block on the type remains valid.

Creating a report

Various predefined report templates are available within the report editor. These can be used to generate reports to retrieve Journal and Audit information on system objects and activity. From the reporting dialog, reports can be saved so they can be executed later.

1. Select 
2. Select the **Report** icon. Reports Editor displays.
3. Select the required date range using the **Date Range** Picker.
4. (Optional) To schedule a recurring report, select a refresh period from the **Refresh** dropdown.

5 If required, select a report **Category** from the dropdown.

6 Select a report **Template** from the dropdown.

Note:
• Available templates may vary depending on which integrations are installed on your system.
• On selection, each template populates the fields below the dropdown with relevant filters (appropriate to report type).

7 Select  and use the Object Selector to apply filters as required.

8 (Optional) Select **New Tab** checkbox to open results in a new tab.

9 Select from the following actions:

- **Execute** to run the report
- **Visualize** to send report results to Data Visualizer
- **Save** to save the report for future use (new dialog displays)

Note:
The **Save** dialog allows the user to provide a Name and Description for the report. It also allows the user to specify whether the report should prompt for new/different filters when it is executed. If checked when the report is executed the standard report dialog will be presented with the saved report information loaded. If the user configures a report with “Custom” as the Date Range, the report will prompt on execution so the user can specify dates.

- **Email** to send the report as an email attachment

Note:
When the **Email** dialog is selected, an email popup displays. If a report was generated, it is attached to the email as an .xsls file. If a report visualization was generated, it is attached to the email as a .png file.

Creating an Ad Hoc report

The Ad Hoc tab contains journal message types that do not have associated report templates. The control that is shown for these types of reports allow you to pick an object, type or to enter a name to filter by.

1 Select 

2 Select the **Report** icon.

3 Select the required date range using the **Date Range** picker.

4 (Optional) To schedule a recurring report, select a refresh period from the **Refresh** dropdown.

5 Select the **Ad Hoc** tab.

6 Select the **Activity Type** from the dropdown menu.

7 Use the Object Selector or the **Name** textbox to enter a search term.

8 Select **New Tab** checkbox to open results in a new tab (optional).

9 Select from the following:

- **Execute** to run the report
- **Visualize** to send report results to Data Visualizer
- **Save** to save the report for future use (New dialog displays)

Note:
The **Save** dialog allows the user to provide a Name and Description for the report. It also allows the user to specify whether the report should prompt for new/different filters when it is executed. If checked when the report is executed the standard report dialog will be presented with the saved

report information loaded. If the user configures a report with “Custom” as the Date Range, the report will prompt on execution so the user can specify dates.

- **Email** to send the report as an email attachment.

Note:
When the **Email** dialog is selected, an email popup displays. If a report was generated, it is attached to the email as a PDF. If a report visualization was generated, it is attached to the email as a .png file.

- **Exit** to exit without saving.

Creating a VideoEdge Status report

A VideoEdge Status report is a Dynamic View of VideoEdge recorders and their attached cameras. Unlike a VideoEdge dynamic view, the VideoEdge Status Report displays a different set of status fields by default. The purpose of this report is to provide an overview of VideoEdge recorder uptime and the recording statistics for any cameras that are attached to the VideoEdges. You can configure the report to include or exclude different information fields, and you can export the report. See "Dynamic Views" for more information about configuring and exporting dynamic views.

1 Select 

2 Select the **Report** icon.

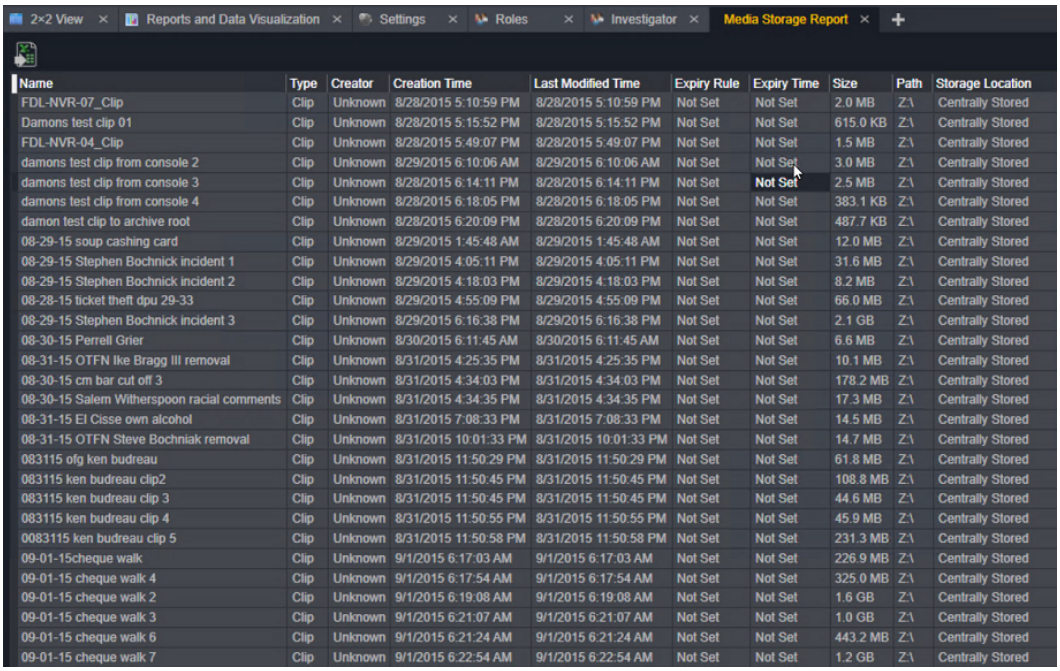
3 Select the **Report Templates** tab.

4 Select **Recorder and Camera Report** to open a VideoEdge Recorder Dynamic View.

Creating a Media Storage report

A Media Storage report shows clip and incident activity across the workstation. The Media Storage report also shows the Expiry Rule and Expiry Time for any clips or incidents that are generated on the system.

Figure 53: A Media Storage report



Name	Type	Creator	Creation Time	Last Modified Time	Expiry Rule	Expiry Time	Size	Path	Storage Location
FDL-NVR-07_Clip	Clip	Unknown	8/28/2015 5:10:59 PM	8/28/2015 5:10:59 PM	Not Set	Not Set	2.0 MB	Z:\	Centrally Stored
Damons test clip 01	Clip	Unknown	8/28/2015 5:15:52 PM	8/28/2015 5:15:52 PM	Not Set	Not Set	615.0 KB	Z:\	Centrally Stored
FDL-NVR-04_Clip	Clip	Unknown	8/28/2015 5:49:07 PM	8/28/2015 5:49:07 PM	Not Set	Not Set	1.5 MB	Z:\	Centrally Stored
damons test clip from console 2	Clip	Unknown	8/29/2015 6:10:06 AM	8/29/2015 6:10:06 AM	Not Set	Not Set	3.0 MB	Z:\	Centrally Stored
damons test clip from console 3	Clip	Unknown	8/28/2015 6:14:11 PM	8/28/2015 6:14:11 PM	Not Set	Not Set	2.5 MB	Z:\	Centrally Stored
damons test clip from console 4	Clip	Unknown	8/28/2015 6:18:05 PM	8/28/2015 6:18:05 PM	Not Set	Not Set	383.1 KB	Z:\	Centrally Stored
damon test clip to archive root	Clip	Unknown	8/28/2015 6:20:09 PM	8/28/2015 6:20:09 PM	Not Set	Not Set	487.7 KB	Z:\	Centrally Stored
08-29-15 soup cashing card	Clip	Unknown	8/29/2015 1:45:48 AM	8/29/2015 1:45:48 AM	Not Set	Not Set	12.0 MB	Z:\	Centrally Stored
08-29-15 Stephen Bochnick incident 1	Clip	Unknown	8/29/2015 4:05:11 PM	8/29/2015 4:05:11 PM	Not Set	Not Set	31.6 MB	Z:\	Centrally Stored
08-29-15 Stephen Bochnick incident 2	Clip	Unknown	8/29/2015 4:18:03 PM	8/29/2015 4:18:03 PM	Not Set	Not Set	8.2 MB	Z:\	Centrally Stored
08-28-15 ticket theft dpu 29-33	Clip	Unknown	8/29/2015 4:55:09 PM	8/29/2015 4:55:09 PM	Not Set	Not Set	66.0 MB	Z:\	Centrally Stored
08-29-15 Stephen Bochnick incident 3	Clip	Unknown	8/29/2015 6:16:38 PM	8/29/2015 6:16:38 PM	Not Set	Not Set	2.1 GB	Z:\	Centrally Stored
08-30-15 Perrell Grier	Clip	Unknown	8/30/2015 6:11:45 AM	8/30/2015 6:11:45 AM	Not Set	Not Set	6.6 MB	Z:\	Centrally Stored
08-31-15 OTFN Ike Bragg III removal	Clip	Unknown	8/31/2015 4:25:35 PM	8/31/2015 4:25:35 PM	Not Set	Not Set	10.1 MB	Z:\	Centrally Stored
08-30-15 cm bar cut off 3	Clip	Unknown	8/31/2015 4:34:03 PM	8/31/2015 4:34:03 PM	Not Set	Not Set	178.2 MB	Z:\	Centrally Stored
08-30-15 Salem Witherspoon racial comments	Clip	Unknown	8/31/2015 4:34:35 PM	8/31/2015 4:34:35 PM	Not Set	Not Set	17.3 MB	Z:\	Centrally Stored
08-31-15 El Cisse own alcohol	Clip	Unknown	8/31/2015 7:08:33 PM	8/31/2015 7:08:33 PM	Not Set	Not Set	14.5 MB	Z:\	Centrally Stored
08-31-15 OTFN Steve Bochniak removal	Clip	Unknown	8/31/2015 10:01:33 PM	8/31/2015 10:01:33 PM	Not Set	Not Set	14.7 MB	Z:\	Centrally Stored
083115 ofg ken budreau	Clip	Unknown	8/31/2015 11:50:29 PM	8/31/2015 11:50:29 PM	Not Set	Not Set	61.8 MB	Z:\	Centrally Stored
083115 ken budreau clip2	Clip	Unknown	8/31/2015 11:50:45 PM	8/31/2015 11:50:45 PM	Not Set	Not Set	108.8 MB	Z:\	Centrally Stored
083115 ken budreau clip 3	Clip	Unknown	8/31/2015 11:50:45 PM	8/31/2015 11:50:45 PM	Not Set	Not Set	44.6 MB	Z:\	Centrally Stored
083115 ken budreau clip 4	Clip	Unknown	8/31/2015 11:50:55 PM	8/31/2015 11:50:55 PM	Not Set	Not Set	45.9 MB	Z:\	Centrally Stored
0083115 ken budreau clip 5	Clip	Unknown	8/31/2015 11:50:58 PM	8/31/2015 11:50:58 PM	Not Set	Not Set	231.3 MB	Z:\	Centrally Stored
09-01-15cheque walk	Clip	Unknown	9/1/2015 6:17:03 AM	9/1/2015 6:17:03 AM	Not Set	Not Set	226.9 MB	Z:\	Centrally Stored
09-01-15 cheque walk 4	Clip	Unknown	9/1/2015 6:17:54 AM	9/1/2015 6:17:54 AM	Not Set	Not Set	325.0 MB	Z:\	Centrally Stored
09-01-15 cheque walk 2	Clip	Unknown	9/1/2015 6:19:08 AM	9/1/2015 6:19:08 AM	Not Set	Not Set	1.6 GB	Z:\	Centrally Stored
09-01-15 cheque walk 3	Clip	Unknown	9/1/2015 6:21:07 AM	9/1/2015 6:21:07 AM	Not Set	Not Set	1.0 GB	Z:\	Centrally Stored
09-01-15 cheque walk 6	Clip	Unknown	9/1/2015 6:21:24 AM	9/1/2015 6:21:24 AM	Not Set	Not Set	443.2 MB	Z:\	Centrally Stored
09-01-15 cheque walk 7	Clip	Unknown	9/1/2015 6:22:54 AM	9/1/2015 6:22:54 AM	Not Set	Not Set	1.2 GB	Z:\	Centrally Stored

1 Select 

2 Select the **Report** icon.

3 Select the **Report Templates** tab.

4 Select **Media Storage Report** to create the media storage report.

5 (Optional) Select the **Export** icon to export the report as a spreadsheet file.

Note:
The Export icon appears in the top-left corner of the Media storage report window.

Show All

To view an object list of all saved or available reports, select the Show All icon,  , then select Report from the History section.

The saved reports are shown in a dynamic view and are by default grouped by Report Template type.

Right-clicking on any report offers the following options:

- **Edit**: Modify the filters for the report.
- **Delete**: Delete the saved report.
- **Execute**: Display a dynamic view with the results of the report.
- **Visualize**: Display a data visualization control with the results of the report.
- **Add to Sites**: Add the report to one or more sites.

Finding an object's journal records

The Find in Journal feature allows you to search for journal records relating to specific objects of interest.

If the **Find in Journal** feature is available for an object, it is typically accessible from the object's context menu.

1 Right-click the required object.

2 Select **Find in Journal**. **Report Selection** dialog displays.

3 Select the required **Report Type** from the dropdown.

4 Select the date range using the **From** and **To** date controls.

Note:
The Search Name will be populated by the name of the object selected. If required, enter the **Operator Name**.

5 Select **Execute** to run the report.

Note:
You can also save or email the report if required.

Logging a General Message

You can write a manual entry to the journal using the Log General Message feature. As well as entering a manual message, you can select and edit any of the predefined messages which may be available. General messages are available as a report type.

1 Select 
2 Select **Log General Message**.
3 To enter a manual message:
   a Enter a message as required.
   b Select  to enter additional messages. Select  to remove messages.
4 To enter a predefined message:
   a Select **Select Message from Predefined Message log** dropdown.
   b Select Predefined Message.
   c Select  to enter additional messages. Select  to remove messages.
5 Select **OK**. Selected messages are journaled.

Creating a Predefined Log Message

Predefined Log Messages can be created which can then be used when required to acknowledge or clear an event without needing to type text.

Messages are identifiable by their labels which are assigned when they are created.

Labels and message fields are mandatory for every message created. Labels can be up to 100 characters in length and messages up to 3000.

The language for each message can also be assigned, this means when a user logs a message, the messages available are filtered to provide current language messages only. To log a message in a different language, you must switch language in the client.

1 Select 
2 Select **Predefined Message Log** from the **Event** section.
3 Select the message language from the **Language** dropdown.
4 Enter Label text in the **Label** textbox.
5 Enter message text in the **Message** textbox as required.
6 Select  to add additional messages or  to remove selected messages.
7 Select **Save**.

Data Visualization

Data Visualizer can be used use to graphically chart most event data available in victor Client. The charts can be used to visualize the data over time, and to compare different events as different data series. Once data has been populated in the Data Visualizer, it can be further manipulated.

A typical use case for data visualizer could be for People or Object counting. This could be achieved by using Data visualizer combined with the VideoEdge Video Intelligence or Deep Intelligence software add-ons to form a useful People Counting solution.

Note:
Video Intelligence and Deep Intelligence are licensed software add-ons to the VideoEdge NVR product. You must obtain a license for each camera before you can use the video intelligence or deep intelligence features.

Report Results

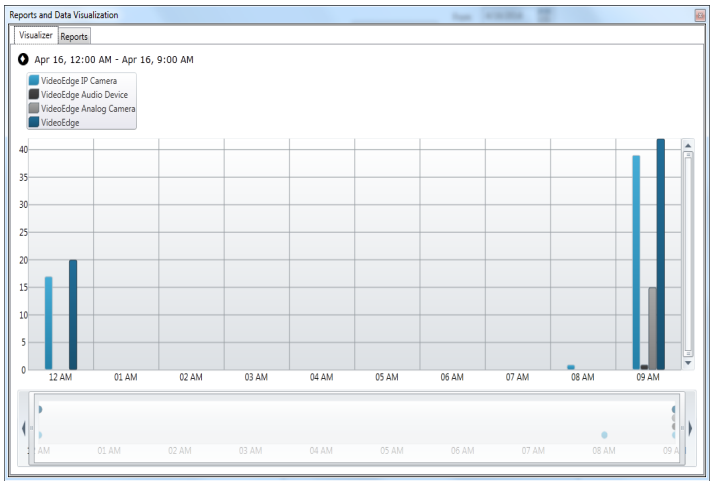
Once search parameters have been entered into the **Reports** or **Ad Hoc** tab (see Data Visualization and Data Visualization), select **Visualize**. Report results will display in the Data Visualizer.

Search & Retrieve Results

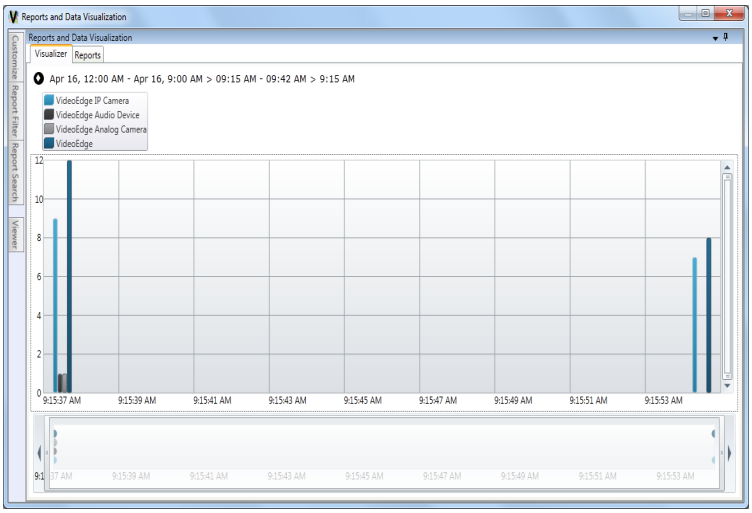
Once a Search & Retrieve has been run, select  to view results in the Data Visualizer.

Drill Down

When results have been populated in the Data Visualizer, the X axis will display time relevant to search criteria and the Y axis will display the number of occurrences. In the example shown below, the search was carried out over a 3 day period, with each column representing 1 day:



From this view, you can further 'drill down' into a time period by double-clicking a column. For example, double-clicking on the 'Apr 08' column will 'drill down' into that day, displaying columns for each hour, as shown below:



You can continue to 'drill down' into more narrow timeframes until the **Drill Down Threshold** of occurrences has been reached. The **Drill Down Threshold** is set from the **Customize** tab of the Data Visualizer and is the limit of number of occurrences that you can drill down to. Once the **Drill Down Threshold** has been reached, double-clicking a column will open a surveillance pane displaying results. If no video is associated, drilling down will return a view of the type.

The Customize tab

The following table details the buttons that are available from the **Customize** tab:

	**Fit Horizontal & Vertical** - fits chart horizontally and vertically
	Fit Horizontal - fits chart horizontally
	**Fit Vertical** - fits chart vertically
	**Toggle Crosshairs** - toggles crosshairs on chart on and off
	**Toggle Gridlines** - toggles gridlines on chart on and off
	**Export to File** - exports current data visualizer view as a .jpg file
	**Export to Excel** - exports current data visualizer view and data in Microsoft Excel format (.xlsx)
	**Export to XPS** - exports data as a .xps file
	**Save to Incident** - adds the report to an Incident folder.

The **Series** section of the **Customize** tab enables customizing of the color of all series displayed in the data visualizer, along with the ability to add a **Mean** line or **Trendline** to the chart.

The **Customize** section of the **Customize** tab enables changing of axis settings to **Log Axis** and **Show Zeros**, along with changing the series **Type** (Line, Column, Bar, Area), which **Trendline** (Linear, Logarithmic, Quadratic, Cubic) is displayed and setting of the **Drill Down Threshold**.

Filter Tab

The **Filter** tab allows for filtering of the chart by **Object Type**, **Object Name** or **Alarm**. Select required option then select **Update Chart** to apply.

Report Search

Selecting the **Report Search** tab opens the report search interface from which reports and ad hoc reports can be run. Refer to The Customize tab for more information.

Video Wall

The Video Wall feature uses Client to Client Communication to enable layout components to be sent between displays attached to different workstations.

Note:
• Client to Client communication is a licensable feature.
• Client to Client communication is not available in victor Express, which is limited to a single client connection.

To send components to a receiving client, the component must be open on the sending client, therefore the role of the sender must allow viewing of the layout component. Similarly the receiver's role must allow viewing of the component.

Typically, components are sent between workstations using the '**Send To**' feature of an object's context menu.

Client to Client Communication

Workstations

Client settings for client to client communication are configured in the workstation editor. These settings determine how a workstation behaves when a client to client request is sent/received.

There are four main settings:

Setting	Description
Local Removal After Sending	This controls whether components sent from a workstation remain open on the sender's workstation. Default is **On**
Turn Off Client to Client Communication	This controls whether a workstation automatically accepts or rejects requests. When selected, receiving workstations will not automatically accept components. Instead, the sender is informed that the receiving workstation is configured to reject and asked whether to force the component. If the component is forced, the receiver is asked whether to accept the request and select **Yes** or **No**. The Sending workstation is informed that the receiver's client to client communication is turned off in 2 ways: • A Reject Dialog displays when attempting to send. • Receiver's Name highlights Red. Default is **Off**
Maximize on Primary Monitor	This controls whether a received component displays Full Screen. Default is **On**
Agent	When Using the Send To feature, users need to navigate to displays from their attached workstations. Configuring a workstation as an Agent means the displays attached to the workstation appear as local displays in relation to sender's workstations so the workstation level is avoided. Default is **Off**

Displays

You can turn off Client to Client communication for individual displays.

When selected, this option rejects all client to client requests automatically. The sender is informed that the receiver is configured to reject the request and asked whether to force it. In this case the receiver is asked whether to accept the request and is presented with a Yes/No dialog.

The sending workstation is informed if a receiving workstation is in Reject mode in two ways:

- A 'Rejecting' dialog displays next to the display when attempting to send
- The receivers display name highlights red, indicating client to client communication is turned off for that display

Configuring workstation client to client settings

1. Select  to open the **Devices** list.
2. Expand the **Workstations** list.
3. Right-click the workstation to be edited.
4. Select **Edit**. Workstation editor displays.
5. Expand the **Client to Client Communication** section.
6. Select or Deselect the checkboxes as required to configure the workstation.
7. Select **Save**.

Configuring display client to client settings

1. Select  to open the **Devices** list.
2. Expand the **Workstations** list.
3. Expand the workstation to be edited, then expand the **Monitors** folder.
4. Right-click the display to be edited.
5. Select **Edit**. The display editor opens.
6. Expand the **Client to Client Communication** section.
7. Select/Deselect the **Turn off Client to Client Communication** checkbox as required.
8. Select **Save**.

Sending layout components

You can send layout components from your local client to a display attached to a Remote workstation. It is important to note that the ability of workstations to send and receive components is governed by the roles of the sending and receiving operators.

This procedure describes sending a layout component to a remote workstation directly from a video window however the same steps are employed for every type of layout component.

1. Right-click the video stream to be sent.
2. Select **Send To**.
3. Select the workstation to send the video. (This is not applicable if the workstation is set as Agent).
4. Select display from the sub menu. A Send confirmation / failure displays.

Note:
If the workstation is configured to reject client to client requests, it will highlight red and you the sender receives a message asking if they want to force the action.

Receiving layout components

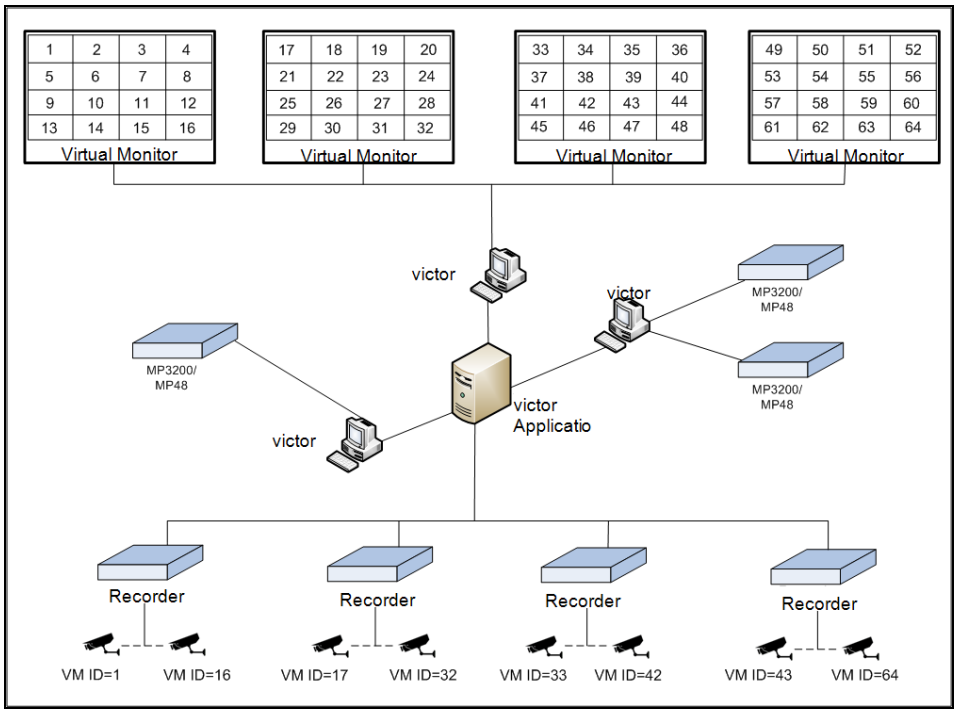
When a layout component is sent to your workstation, depending on how the workstation is configured, you may need to manually accept the request before the component will display. This procedure assumes that **Turn Off Client to Client Communication** is enabled.

If **Turn Off Client to Client Communication** is not enabled, received components display automatically.

1. The **Accept?** Dialog appears, indicating that a component is being sent to your workstation. Dialog prompts **Would you like to Accept?**
2. Select **Yes** to accept and display the component or **No** to reject.

Virtual Matrix

Virtual Matrix allows users to switch video in display panes of surveillance windows using a CCTV keyboard as if the video panes were all monitors attached to a traditional analog matrix.



Activating a virtual matrix

Existing Virtual Matrix profiles can be activated from the Quick action bar.

Note:
Selecting to view a virtual matrix may override the user layout on both local and remote workstations.

1 Select from the Quick action bar. The list of available virtual matrices displays.
2 Select the required virtual matrix profile from the dropdown list. The virtual matrix activates.

Deactivating a virtual matrix

Deactivating a virtual matrix profile only affects the client machine on which it is physically deactivated. Other clients running the virtual matrix are not affected.

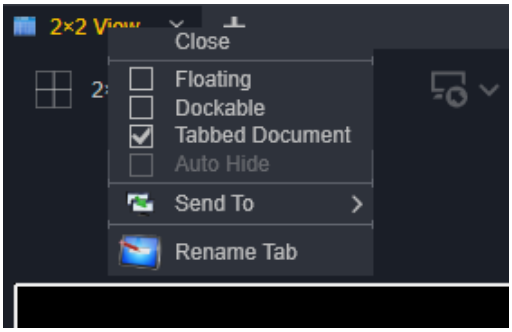
1 Select from the Quick action bar.
2 Clear the active Virtual Matrix's checkbox. The virtual matrix deactivates.

The default victor Client layout consists of the Navigation bar, the Quick action bar, and a 2X2 Surveillance tab. This layout can be completely customized, allowing you to create a workspace that better suits the requirements of individual operators and roles.

Window Types

Various window types are supported within victor Client. To access type changes and behavior, right-click the window title bar. victor Client supports 3 window types:

Figure 54: Surveillance window types



Floating Windows

Creates a window that is independent of the client window. You can move a floating window to anywhere on screen, and you can resize and reshape the window to suit your workspace.

Dockable

Creates a window that can be docked into position within the main client window. When a dockable window is dragged, a guide diamond is displayed (see below), allowing you to quickly dock it on one of the four sides of the workspace. When a docked window is undocked, it will float to the top of other windows. You can also change a tabbed window to a dockable window by dragging the window tab from its current position.

Tabbed

Creates a window that appears in a tab. Tabbed windows are useful for organizing and switching between multiple open windows.

Configuring your workspace

You can create a custom layout to suit your individual workspace.

Docking a window

1 Right-click the title bar or tab of the window.

2 Select **Dockable**.

Note:
Alternatively, you can click and drag the window tab from its current position.

3 Drag the window to the middle area of the screen. The Guide diamond displays.

4 Hover the cursor over the guide diamond arrow which corresponds with the area you want to dock the window in. Area highlights.

5 Release the mouse, Window docks in position.

Resizing a window

You can resize a docked or floating window to provide more or less area in the workspace.

1 If the window is tabbed, right-click the title bar and select **Floating** or **Dockable**.

2 Hover the cursor over the corner side of the window. Grab Handles display ⟺ .

3 Select and drag the cursor to resize the window as required.

Autohiding a window

Autohide is only available in dockable windows that are docked.

When Autohide is enabled on a window, it will only be visible as a tab when it does not have focus. This means that the window is open and can be easily accessed, but the area it occupies is greatly reduced.

1 Right-click the title bar of the docked window.

2 Select **Auto Hide**. The window will reduce to a tab view positioned according to the docked attribute of the window.

3 Select the tab to view the window or remove focus to autohide.

Saving the current layout

Once your workspace has been configured to suit your requirements, you can save the layout for later retrieval.

1 Select the Layout icon, 

2 Select the **Save As** icon, 

3 Enter a **Name** for the new layout.

4 (Optional) Select the **Lock This Layout** checkbox to lock the layout.

Note:
Users of a locked layout are unable to move components added to the layout.

5 Select **OK** to save the layout.

Note:
You cannot delete the default layout.

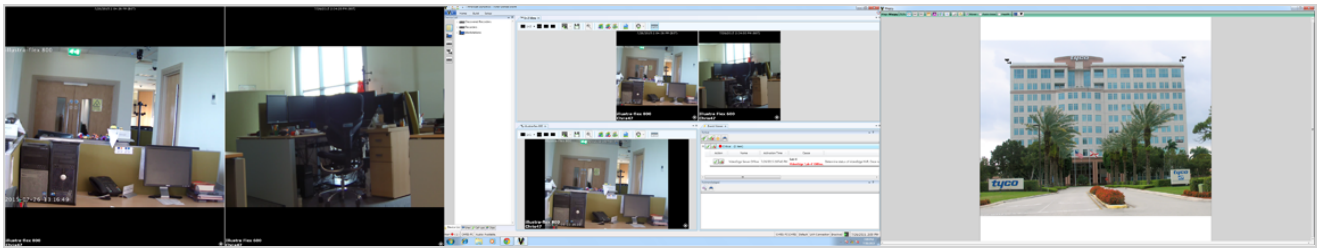
Switching to a saved layout

1 Select the Layout icon, . List of layouts displays.
2 Select the layout from the Layouts list.

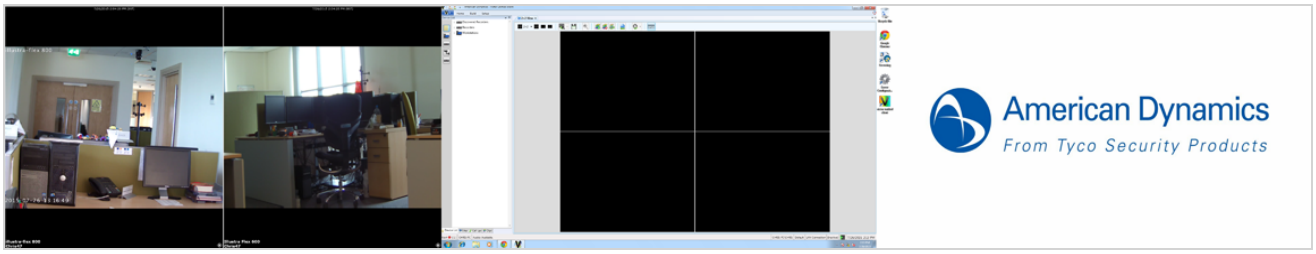
Switch on Primary

Switch On Primary allows you to switch primary layout components to a saved layout, retaining video wall components in their current location. Primary layout components include the main victor Client window and all tabbed, docked and floating windows. Video Wall components include panes that have been 'sent to' your display or video actions that have been activated.

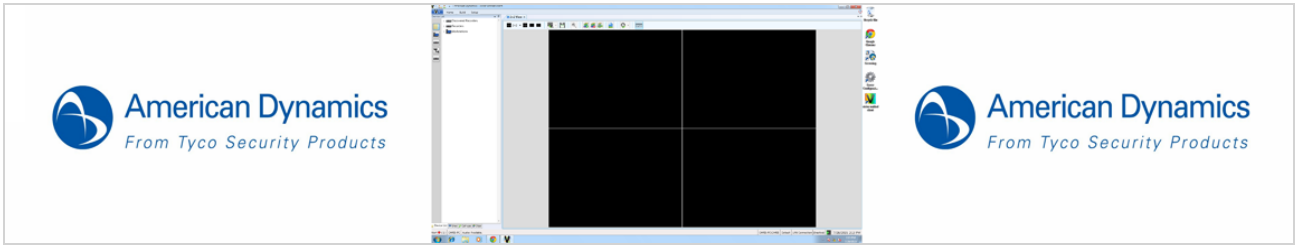
For example. If you configure a layout like this:



Choosing **Switch On Primary** to the Default layout would make your layout this, retaining only Video Wall components:



Whereas choosing **Switch** to the Default layout would remove all layout components:



Note:
All tabbed, dockable and floating windows are considered part of your primary display, regardless of which monitor they reside on.

Layout - Switch on Primary

1 Select
2 Select the **Switch On Primary** tab.

3 Select a layout from the list.

Switching Users

When switching users, selecting **Options** from the **Switch Operator** dialog opens the Options pane. Select the **Keep current layout** checkbox to retain current layout.

Refreshing layouts

Various options are available to refresh layouts from the Layouts menu.

1 Select 

2 Select from dropdown options.

- Select  to refresh the current layout
- Select  to refresh on primary

Renaming tabbed windows

Tabbed windows can be renamed. Any renaming will be saved when the layout is saved.

1 Right-click the tab to be renamed.

2 Select **Rename**. Name dialog displays.

3 Enter a new name for the tab.

4 Select **OK**.

Creating new tab groups

You can create new tab groups for convenient grouping and navigation of windows. To create tab groups, more than one tab must be open.

1 Right-click the tab to start the new group. This will be the first tab listed in the group.

2 Select **New Horizontal Tab Group** or **New Vertical Tab Group** as required. New group is created per the selection.

Note:
• Reorder tabs within groups by selecting and dragging tabs within the group.
• Move tabs between groups by right-clicking the tab and selecting **Move to Previous/Next Tab Group**.

Merging docked windows

You can merge docked windows to create more on-screen workspace. Merged windows are grouped together as a single tabbed screen element.

1 Select the title bar of a docked window.

2 Drag to the center of the docked window to which it is to merge. The docking icon displays.

3 Deselect the window in the center of the docking icon. Windows merge. Navigate the windows by selecting appropriate tabs from the bottom of the merged window.

Viewing a window in full screen mode

You can view surveillance windows and map windows in full screen mode.

1 Right-click the title bar of the window.

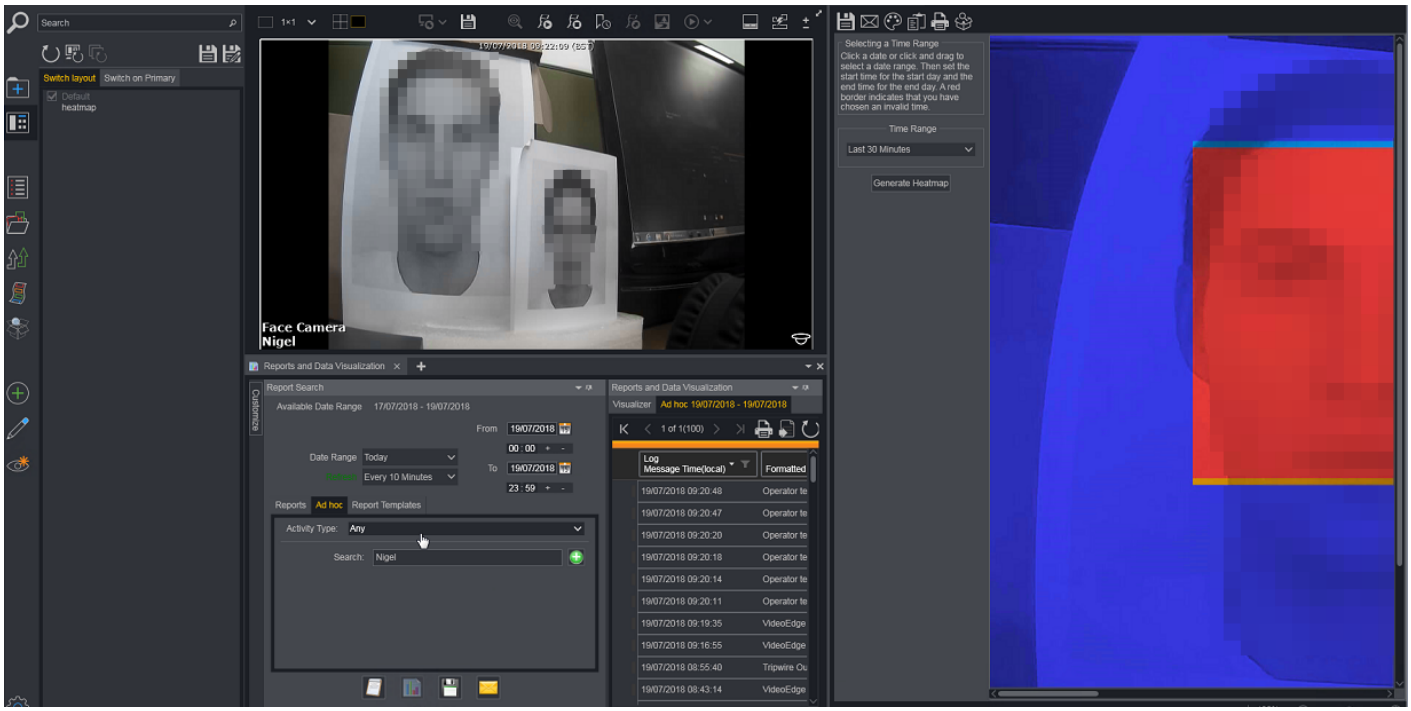
2 Select **Send To** from the context menu.

3 Select the display in which to view the full screen window.

A confirmation message will be displayed to let you know if the operation was successful or failed.

Analytics Dashboard

In addition to saved workspace layouts, you can create layouts that display analytic information, for example, camera heatmaps, reports, and data visualizers. You can create analytic dashboards that combine surveillance windows with other analytics, to create a more advanced monitoring workspace.



For example, you can create a layout that contains the following components:

- A surveillance pane, to display live or recorded video footage
- An analytic heatmap, to display activity levels for the camera from the surveillance pane
- A report window that searches for events from the workstation. You can configure the report to refresh at regular intervals

The analytic heatmap and the report provide additional information that the user cannot obtain from the surveillance window. This information can help the user search for events that occur in the surveillance window.

Web Browser

You can view web pages in victor Client's Web Browser.

Opening the web browser

1 Select  then select **Web**.
2 Enter URL into address bar.
3 Press **Enter**. Web page displays.

Adding Favorites to browser

Favorite sites can be added to the victor Client browser to allow easy navigation.

Note:
Users cannot add favorites to a protected layout such as the default layout. In these cases, the add favorite button is disabled.

1 Select  then select **Web**
2 To add a favorite:
   a Enter URL into address bar.
   b Press **Enter**. Web page displays.
   c Select **Favorites**.
   d Select **Add to Favorites**.
3 To navigate to a favorite:
   a Select **Favorites**.
   b Select the required address from the drop down menu.
4 To remove a favorite:
   a Select **Favorites**.
   b Right-click the favorite to be removed.
   c Select **Remove**.

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