American Dynamics

From Tyco Security Products

victor Simplex Integration User Guide

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American Dynamics
6600 Congress Avenue
Boca Raton, FL 33487 U.S.A.

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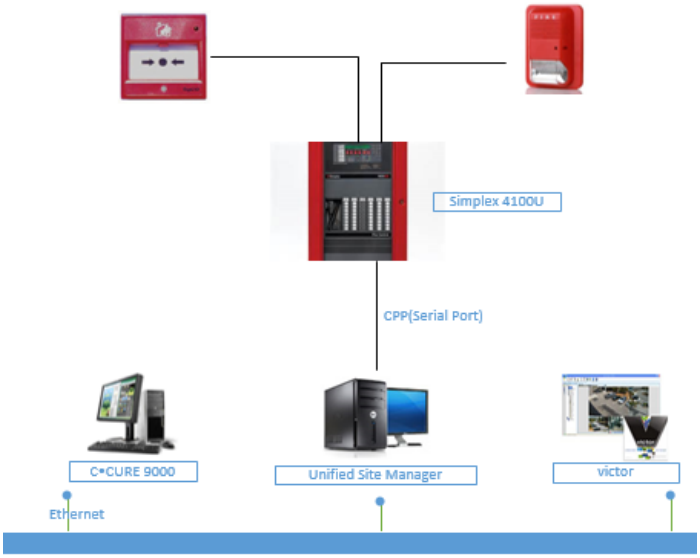
Simplex Overview

The SimplexGrinnell 4100 Fire Panel is a high-end, next generation distributed network system that combines superior fire protection and information management with lower costs of installation, maintenance, and ownership.

The victor Simplex Fire Alarm Interface provides advanced, seamless integration with the 4100 Fire Detection and Alarm Panel from SimplexGrinnell, allowing customers to monitor their important fire devices from victor Unified Client.

Architecture

The objective of the Simplex 4100 Fire Alarm Interface is to provide a standard interface between the Simplex 4100 product family control equipment and victor Unified Client via a RS-232 serial port. This interface provides automatic synchronization between the Simplex 4100 database and the victor Unified Client database. The interface listens to Simplex 4100 unsolicited messages such as: Fire, Trouble, Supervision, Priority 2 and communicates them to victor Unified. victor will then process these messages and according to their configuration will direct them to users as object state changes, activities, events, and alarms.



Features

The goal of the victor Simplex integration is to provide a standard, single interface between Simplex 4100 hardware and American Dynamic's victor Unified Video Management product. Supported features include:

- Communication:
  - Create Panel
  - Acquire Data: Panel, Card, Point

- Status:
  - Panel: Online, Offline, Unknown
  - Point: Fire alarm need acknowledgement, Fire Alarm acknowledgement, Trouble need acknowledgement, Trouble acknowledgement, Priority need acknowledgement, Priority acknowledgement, Supervisory need acknowledgement, Supervisory acknowledgement, Disable need acknowledgement, Disable acknowledgement
- Fire Status Bar: Point Alarm, Fault, Priority2, Supervisory, Disable (Isolate)
- Event Banner: Communciation Offline, Point Alarm, Fault, Priority2, Supervisory, Disable (Isolate)
- Command: Panel - Reset(restart), ACK ALL, Silence/Resound; Point Commands: Panel - Reset (restart), ACK ALL, Silence, Point - Enable, Disable
- Fire Object Group
- Analog Value Chart
- Event Setup
- Health Dashboard

The Simplex 4100 install must be run on both victor Application Server and all victor Unified Client machines. Prior to running the Simplex 4100 installer, the correct version of victor must be installed.

Minimum Requirements

Hardware

The Simplex 4100 Integration has the same hardware requirements as the victor Unified Client and victor Application Server. Therefore, if the machine can successfully run victor then it will satisfy the Simplex 4100 Integration requirements. This integration requires approximately 50MB of available hard disk space.

Software

- victor Application Server: v4.8+
- victor Unified Client: v4.8+

Operating Systems

32-bit operating systems:

- Windows 8
- Windows 7 Enterprise

64-bit operating systems:

- Windows Server 2012 R2
- Windows Server 2008 R2
- Windows 7 Enterprise
- Windows 8

Before You Begin

You should perform the following pre-installation procedures:

- You must have appropriate Windows permissions.
- You must have membership in the local Administrators group or equivalent privileges.
- Ensure the network you are installing on is working properly.

Adding the Simplex Integration to victor

The Simplex Integration Driver can be installed on the victor Application Server. The Driver can be downloaded from http://www.americandynamics.net

Procedure 2-1 Install the Simplex Integration Driver

Step	Action
1	Right-click **Simplex_4100_Integration.exe** and click **Run as administrator** to launch the installer. The Setup dialog opens. **Note:**If the correct version is not installed on your system, a message is displayed stating that a supported version of victor is needed.
2	The Welcome to Simplex 4100 Installation window displays. Click **Next**.
3	Select **I accept the terms in the license agreement**, and then click **Next**.
4	Click **Next**. The Database Server window displays.
5	If you have more than one database on your machine, select the required database from the drop-down list.
6	Select the Windows authentication credentials of current user button to connect using your current login credentials. Or Select the Server authentication using the Login ID and password below button, then enter a Login ID and Password to connect using different login credentials.
7	Click **Next**. The Ready to Install window displays.
8	Click **Install** to begin installation.
9	Click **Finish**.

- End -

Introduction

This section describes the basic steps of how to start victor services and provides an overview of the main Graphical User Interface (GUI).

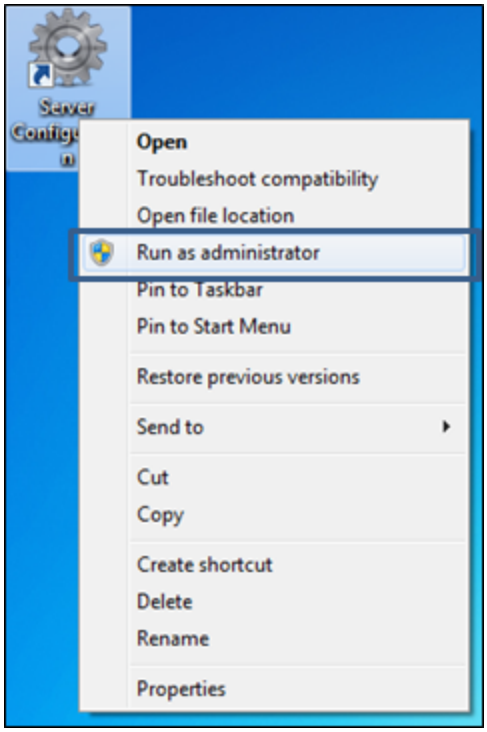
It is important to read this section as it provides useful user information on a number of basic/common tasks which are not repeated throughout the manual and are not related to specific object types or scenarios.

Server Configuration Application

The Server Configuration Application provides an interface for administration of victor Application Server.

It is accessible directly from the desktop via the Server Configuration Application icon or via the Windows Start Menu (All Programs > Tyco > victor > Server Configuration).

The Server Configuration Application should be run as an administrator. Depending on your security settings, you may need to right click on the desktop icon (or Windows Start Menu entry) and select **Run as Administrator**.



Services

The **Services** tab of the Server Configuration Application lists all applicable victor Application Server services. In order for victor Application Server to function, both Framework Services (CrossFire Framework Service and CrossFire

Server Component Framework Service) must be running. Extension Services for all hardware types connected must also be running. 'Software House CrossFire Simplex Driver Service' should be running along with any services relating to licensed video integrations.

Note:
Crossfire Framework Services must be started first to allow Extension services to run

Procedure 2-1 Start Services

Step	Action
1	Double click the **Server Configuration Application** Icon on the desktop. The **Server Configuration Application** displays. **Note:** Depending on security settings, you may need to right click the icon and select Run as Administrator.
2	Select the **Services** tab.
3	Select **Stop** for all Framework Services. Status changes to Stopped.
4	Select **Stop** for Extension services as required.
5	Select Start Service for **Crossfire Framework Service** in the Framework Services section. Wait until **Status:Running** displays in Green.
6	Select Start Service for **Crossfire Server Component Framework Service** in the Framework Services section. Wait until **Status:Running** displays in Green.
7	Select **Start** checkbox for all required extension services.
8	Select **Start Service** for all required extension services. The status changes to **Running**.
9	Confirm that all Services have changed state to **Running**.
10	Exit the Server Configuration Application.

- End -

Configuring and viewing Simplex Panels is located on the **Setup** tab.

Procedure 2-1 Adding Simplex Panels

Step	Action
1	Select the **Setup** tab.
2	Select **Fire Panels** then **New Simplex Panel**.
3	Enter a **Name** and optionally a **Description**. The **Enabled** check box will be selected by default.
4	Enter a **Job Number**. This field cannot be empty. The maximum length for this field is 8 characters.
5	Select a radio button for the **Communication Type**.
	Note: **ComPort** - This options uses a serial cable to connect the panel and the victor server. **TCP** - This options uses third party hardware such as Lantronix to convert ComPort to an IP Address.
6	If necessary, modify other information within the headings of the panel editor.
7	Save and Close. The Simplex Panel appears on the **Device List** within the Fire Panels folder.

- End -

Note: Panel commands can be accessed on the context menu by right-clicking the required panel in the **Device List** and selecting either: **Ack All**, **Restart**, or **Silence**.
Ack All - This command acknowledges all events.
Restart - The Restart (reset) command will be sent to the panel.
Silence - This commands sends the Silence command to the panel.

Procedure 2-2 Editing Simplex Panels

Step	Action
1	On the **Setup** tab, select **Fire Panels**. From the drop-down list click **Show All**. A list of all configured Simplex Panels displays.
2	Right-click the panel you want to edit and select **Edit**.
3	Make the edits as required.
	Note: The information in the General section of the panel editor cannot be edited while the object in Enabled.
4	Save and Close.

- End -

Procedure 2-3 Deleting Simplex Panels

Step	Action
1	On the **Setup** tab, select **Fire Panels**. From the drop-down list click **Show All**. A list of all configured Simplex Panels displays.

2 Right-click the required Simplex 4100 Panel, and click **Delete**.

Note: To remove a Simplex 4100 Panel it must be Disabled. If the Panel is Enabled an error message will appear.

3 Click **Yes**.

4 A dialog box appears confirming the permanent removal of this object from victor. Click **Yes**.

- End -

Procedure 2-4 Viewing All Simplex 4100 Panels

- On the **Setup** tab, select **Fire Panels**. From the drop-down list click **Show All**. All configured Simplex 4100 Panels displays in an Object List.

- End -

Procedure 2-5 Viewing Online Simplex 4100 Panels

Step	Action
1	On the **Setup** tab, select **Fire Panels**.
2	Select **Online**. All configured Simplex 4100 Panels that are currently Online display in an Object List.

- End -

Procedure 2-6 Viewing Offline Simplex 4100 Panels

Step	Action
1	On the **Setup** tab, select **Fire Panels**.
2	Select **Offline**. All configured Simplex 4100 Panels that are currently Offline display in an Object List.

- End -

Procedure 2-7 Accessing Detailed Hardware Information

Step	Action
1	Detailed hardware information is available for all configured Simplex 4100 hardware.
2	Right-click an object in **Object List** view and click **Edit**. The hardware information appears.

- End -

Viewing Configured Points

Note: Point commands can be accessed on the context menu by right-clicking the point and selecting either: **Enable** or **Disable**.
Enable - This command enables the Fire Point.
Disable - This command disables the Fire Point.

Procedure 2-8 View All Simplex Points

Step	Action

- On the **Setup** tab select **Fire Points**, and click **Show All** from the drop-down menu. A list of configured Fire Points appears.

Note: Selecting **In Alarm** from the **Fire Points** drop-down menu displays those Fire Points in the state of alarm.

- End -

Procedure 2-9 Viewing Simplex 4100 Points for a Card

The Points and Pseudo Points associated with a Simplex 4100 Card can be viewed from the Device List.

Step	Action
1	Open the **Device List** pane.
2	Expand the **Fire Panels** icon. A list of configured fire panels appears.
3	Expand the Simplex 4100 Panels file.
4	Expand the required Panel. A list of **Cards** and **Pseudo Cards** appears.
5	Right-click on a card and click View Points. A list of points associated with that card appears in an Object List.

- End -

Procedure 2-10 Acquiring Data from a Simplex 4100 Panel

The Simplex 4100 Panel can acquire data from Simplex hardware.

Step	Action
1	From the **Device List** tree, select **Fire Panels** and then right-click the Simplex Panel required.
2	Click **Acquire Data**. A **Data Acquisition** dialog box appears. **Note:**If necessary, click **Cancel** to stop data acquisition. If the Simplex 4100 Panel is offline, an error dialog will appear to show related error message.
3	After successful communication, a **Panel Basic Information** dialog box appears displaying the acquired Simplex Panel information.
4	Click **Next**. The **Configure Card** dialog box appears. **Note:**By default, cards in the **Interested Cards** list for the current Simplex panel are highlighted.
5	On the **Physical Card** and **Pseudo Points** tab, select the data to be acquired.
6	Click **Next**.
7	Progress is displayed in the **Data Transfer Progress** dialog box. At the conclusion of the import process, the information is presented.
8	To merge information to the database, click **Save to Database**. or Click **Detail...** to view a dialog box with failed import information.

- End -

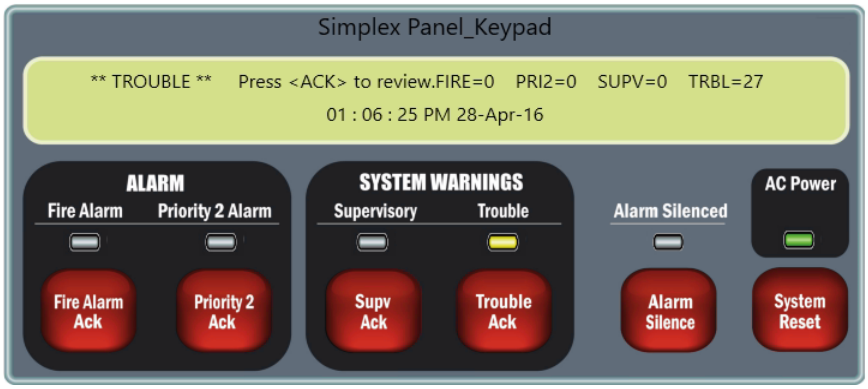
Procedure 2-11 Viewing Data Acquisition Reports

Step	Action
1	Open the **Device List**.
2	Expand the Fire Panels icon. A list of configured fire panels appears.
3	Expand the Simplex 4100 Panels file. A list of configured fire panels appears.
4	Right-click the required Fire Panel.
5	Click **View Data Acquisition Reports**. A detailed list of data acquisitions associated with that fire panel appears in the **Object List**.
6	Right-click on a report and click **View Details** to display details referring to that data acquisition report.

- End -

Virtual Keypad

The Simplex 4100 Virtual Keypad is a simulation of the Simplex Keypad. It is a read-only keypad, whereby the virtual LED lights update in synchronization with the Simplex Keypad when the panel status changes.



The messages displayed in the text field indicate the number of points that have Alarms and System Warnings. The LED lights on the Virtual Keypad are color coded to indicate the status of the fire panel. The table below describes the alarm definition for each color.

Status	Virtual Keypad LED Light	Color Definition
Alarm	Fire Alarm	Gray: No Fire Alarm.
		Flashing: Fire Alarm requires acknowledgment.
		Red: Fire Alarm acknowledged.
	Priority 2 Alarm	Gray: No Priority 2 Alarm.
		Flashing: Priority 2 Alarm requires acknowledgment.
		Red: Priority 2 Alarm acknowledged.
System Warnings	Supervisory	Gray: No Supervisory Warning.
		Flashing: Supervisory Warning requires acknowledgment.
		Yellow: Supervisory Alarm acknowledged.
	Trouble	Gray: No Trouble Warning.
		Flashing: Trouble Warning requires acknowledgment.
		Yellow: Trouble Warning acknowledged.
Alarm Silenced	Alarm Silenced	Gray: Alarm Silenced Off.
		Yellow: Alarm Silenced On.
AC Power	AC Power	Gray: Power Off.
		Green: Power On.

Procedure 2-1 Accessing the Virtual Keypad

Step	Action
1	Open the **Device List**.
2	Expand the Fire Panels icon. A list of configured Fire Panels appears.
3	Expand Simplex Panels and then expand the requied panel.
4	Double-click the keypad to open the Virtual Keypad.
	- End -

Fire Point Groups

Fire Point Groups allow grouping of Fire Points into logical groups. They can then be used for further configuration, for example, added to a Map or restricted in a Role.

Procedure 2-1 Create Fire Object Groups

Step	Action
1	Select the **Setup** tab.
2	Select **Fire Obejct Groups** then New.
3	Enter a **Name** and optionally a **Description**.
4	Ensure the **Enabled** checkbox is checked.
5	Select  then select a Fire Point to add to your group.
6	Repeat step 5 until all Fire Points have been added. To remove a point, select it then select  .
7	Save and close.

- End -

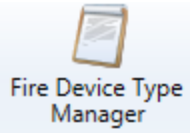
Procedure 2-2 Configure a Fire Group on a Map

Step	Action
1	On the Setup tab, select Fire Object Groups. Click New. The Fire Object Group editor appears.
2	Configure this group then save and close.
3	Add this Fire Group to a map by clicking  to add an icon on the map layer.
4	Select **Simplex Object Group**. The icon will appear on the map. Click and drag the icon to the location you want it on the map. Right-click the icon and select **Drop on map**.
5	The **Icon Editor** appears. Click **Select object** to choose the group for the map. The Object selector appears.
6	Select the group and click **OK**.
7	Right-click the icon for the Fire Group and select **Polygon shape** from the drop-down menu and click **Add**. Move the shape to the area you want linked with the Fire Group.
8	Save and close.

Note: Refer to the Maps section for more information regarding victor Maps.

Fire Device Type Manager

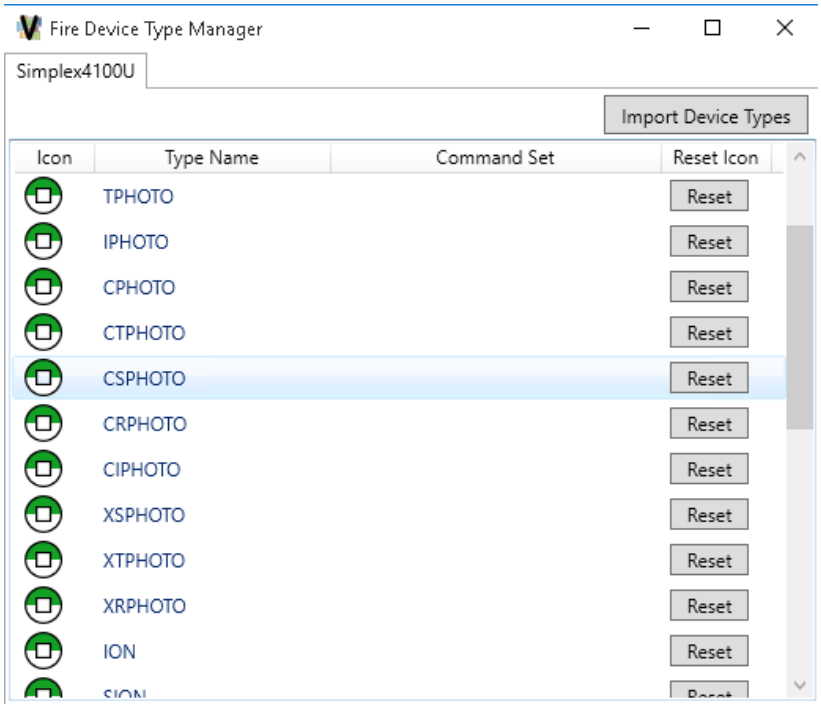
The **Fire Device Type Manager** lists all currently supported device types, their default icon and the command set supported. Fire Device Type Manager also allows for importing of device type configurations. The **Fire Device Type Manager** can be opened from the **Setup** tab.



Procedure 2-1 Import Device Type Configuration

Step	Action

1 On the **Setup** tab, select **Fire Device Type Manager**. The Fire Device Type Manager opens.



2 Select **Import Device Types**.

3 Select ... then navigate to and open your import file.

4 If required, check the **Overwrite existing device type details** checkbox to overwrite existing configuration.

5 Select **Import**.

- End -

Fire Analog Value Pollings

Analog Value Pollings provides the analog value trend over a specified time period for one specific point. Analog Value Pollings also allows for comparison of several points in one chart.

Procedure 2-1 Create Polling Group

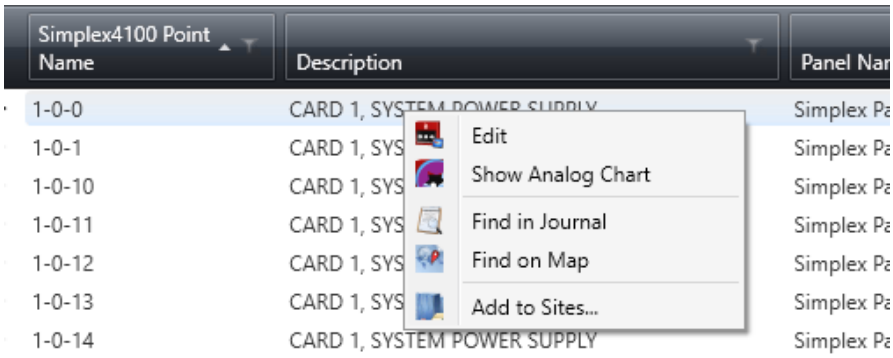
Before the analog value trend can be analyzed, a polling group of points must be created.

Step	Action
1	Select **Setup**.
2	Select **Fire Analog Value Pollings** then select **New** from the drop-down menu. The New Fire Analog Value Polling editor opens.
3	Enter a **Name** for the polling group.
4	If required, enter a **Description** for the polling group.
5	Check the **Enabled** checkbox to enable polling.
6	Enter an **Interval** in seconds. This is the time interval that victor polls your points.
7	Select  then select a Fire Point to add to the group.
8	Repeat step 7 for each point to add to the group.
9	Save and Close.

- End -

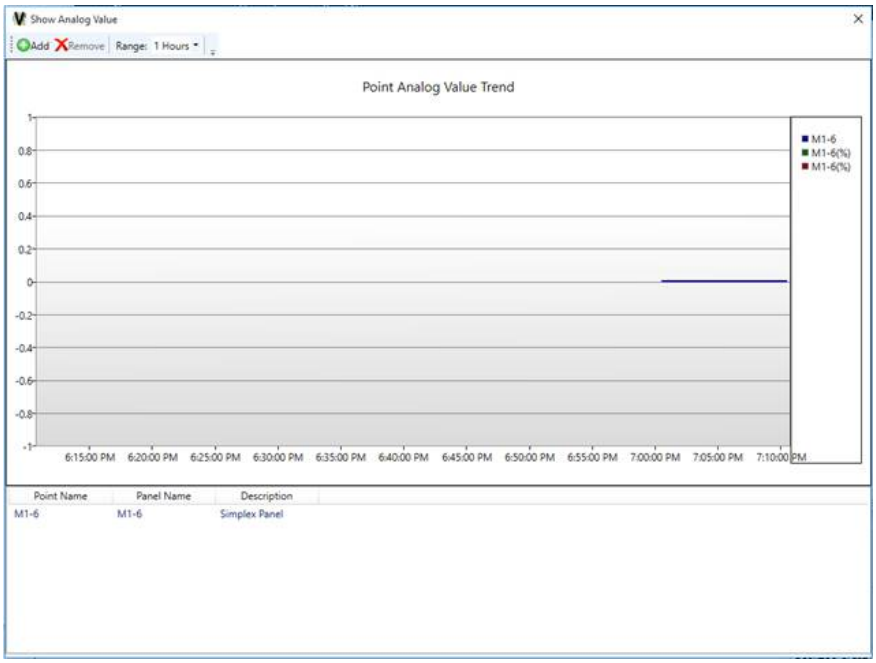
Procedure 2-2 View Analog Value Trend

After a point has been added to a polling group, a chart of its analog value chart can be created from the points right click menu.



A point that has been added to a polling group can also be added to an existing chart for comparison of trends.

Step	Action
1	Select **Setup**.
2	Select **Fire Points** then **Show All** from the drop-down menu.
3	Right click on the fire point to show analog value trend for and select **Show Analog Chart**. An analog value chart for the selected fire point displays.



4 Select a time period from the **Range** drop-down to show the analog value trend over the specified period of time.

5 To add another fire point for comparison, select Add then select the fire point.

- End -

victor supports the creation and configuration of multiple Fire Status Bars. These bars can be configured to display required information, including: Zone Alarm, Point Alarm, Evacuate, Fault, Isolates, Pre Alarm, Alert, Sounders, Priority 2, Warning, Test Mode, Information, Supervisory, and Output State. In addition, Fire Status Bars give global options such as: Home, Reset, Silence/Resound, ACK ALL.

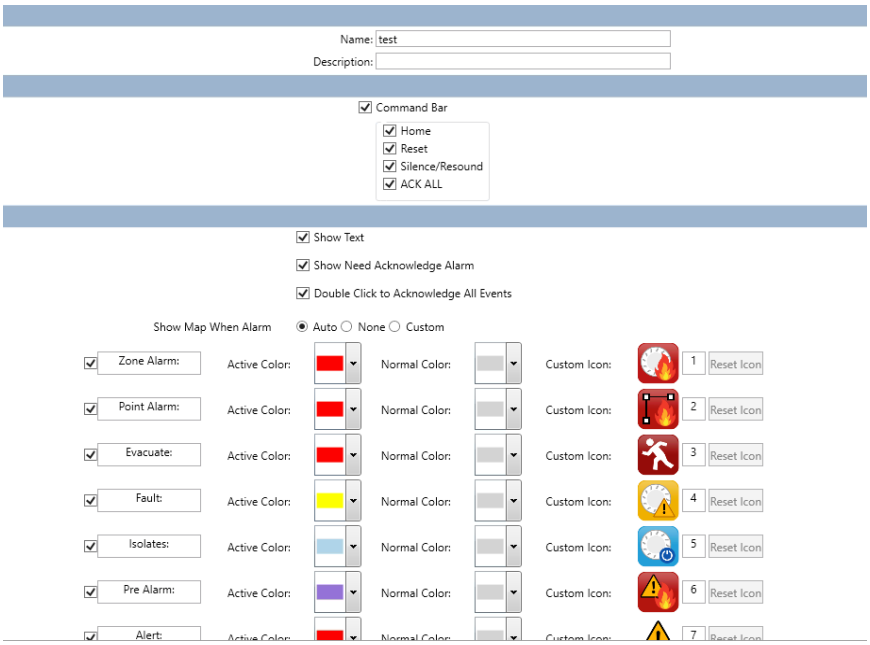
Fire Status Bars can be added to custom Layouts, and as such, assigned to Operators.

Procedure 2-1 New Fire Status Bar

Step	Action

1 Select the **Setup** tab.

2 Select **Fire Status Bars** then **New**. The Fire Status Bars editor appears.



3 Enter a **Name** and optionally enter a **Description**.

4 The commands that appear in the Fire Status Bar are: **Home**, **Reset**, **Silence/Resound**, **ACK ALL** check boxes. Clear the check box if you do not want to view them in the Fire Status Bar.

Note:
Home - Switches to the default layout automatically.
Reset - The Reset command will be sent to the panel.
Silence/Resound - Silence/Resound command will be send to the panel.
ACK ALL - All events in the Fire Status Bar will be acknowledged.

5 If required, clear the **Show Text**, **Show Need Acknowledge Alarm**, or **Double Click to Acknowledge All Events** check boxes.

Note:
Show Text - Text labels on each button of the Fire Status Bar.
Show Need Acknowledge Alarm - A text label showing the number of alarms which have been

acknowledged.
Double Click to Acknowledge All Events - Double click a button on the Fire Status Bar to acknowledge all events of that type.

6 Select the radio button for **Show Map When Alarm**.

Note:
Auto - Opens the map which contains the fire alarm point automatically.
None - No action taken.
Custom - The user can configured the map that appears when the fire alarm occurs.

7 Check or clear the check boxes next to event types you do not wish to display in your Fire Status Bar.

8 Edit text in field to change Text Label on button.

9 Select the **Active Color** from the drop-down. This is the color which this section of the Fire Status Bar will turn to when an alarm of the selected type occurs.

10 Select **Normal Color** from the drop-down. This is the color which this section of the Fire Status bar will be when no alarms of that type are occurring.

11 To change an icon of a alarm type, double click the current icon and navigate to the required image file. Icon can be reset to default by selecting **Reset Icon**.

12 Change the number field to edit location of button on the Fire Status Bar. Buttons are numbered left to right.

13 Save and close.

- End -

Procedure 2-2 Open/View Fire Status Bar

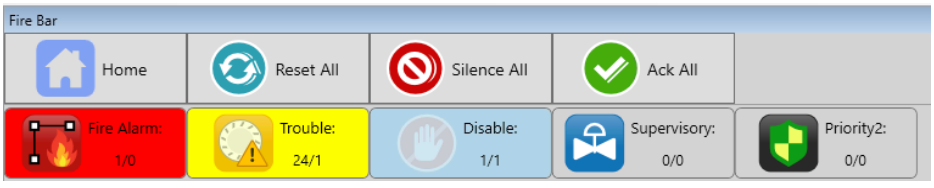
Once configured, Fire Status Bars can be viewed.

Step	Action
1	Select the **Home** tab.
2	Select **Fire Status Bars**
3	Select the Fire Status Bar to open from the list.
4	Once open, the Fire Status Bar will display along the bottom of the victor client window. Like all victor layout components, the Fire Status Bar can be moved to anywhere onscreen and can be changed to a tabbed, floating or dockable window.

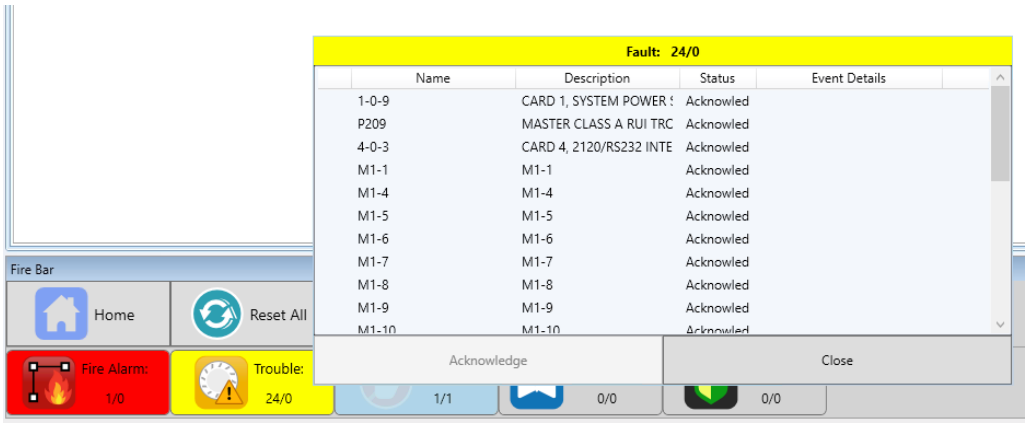
- End -

Actioning Fire Status Bar Alarms/Events

When an alarm or event is raised, the Fire Status Bar will go into alarm.



Alarms and Events can also be actioned directly from the fire status bar. Clicking the alarming Fire Status Bar icon will open a pop up containing alarm/event details.



Select **Acknowledge** to acknowledge alarm or events which are checked. Select **Close** to close the pop up.

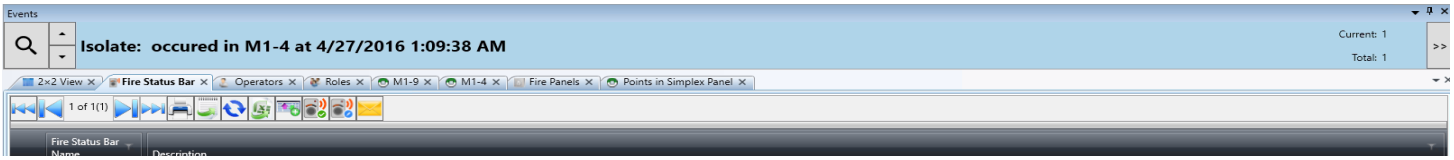
If configured during Fire Status Bar setup, double clicking an alarming fire status bar icon will clear all events of that type.

Action	Meaning
Icon is flashing	Event is occuring.
Icon has stopped flashing	Event is acknowledged.
Icon with no color	No event.
Sound	Event associated with the sound has occured. Sound is played only when the NeedACK number is greater than 0. When ACK ALL is pressed and all alarms are acknowledged, sound will not be played.

Event Banner

The Event Banner gives an overview of the current highest priority event in the system.

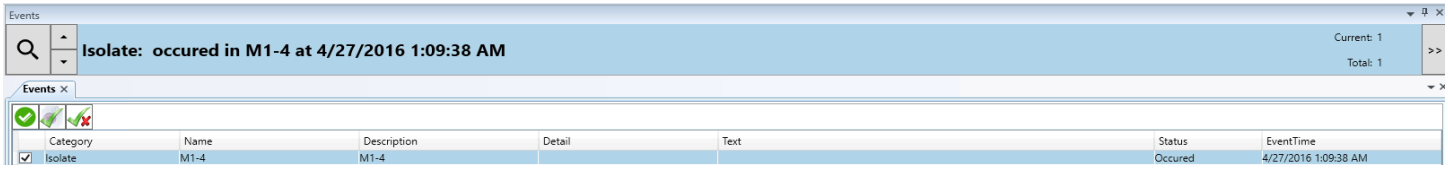
victor default Fire layout displays an Event Banner. To open the Event Banner from another layout, select **Home**>**Event Banner**.



The event banner's color appears the same as the configured color setting for the fire status bar.

Expand Events Banner

By default, the Event Banner shows the current highest priority event in your system. Selecting >> to the right of the Event Banner will expand to show a list of all current Events:



Selecting an individual event from the expanded view allows sending of commands to the device.

Note: Acknowledged events will not show on the event banner by default.

Introduction

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.

Generate / Save Reports

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.

Procedure 2-1 Generate a Fire Report

Step	Action
1	On the **Home** tab, select **Reports and Data Visualisation**. Click **New** from the drop-down menu. The Report editor appears.
2	In the **Category** field, select **Fire** from the drop-down list.
3	In the **Template** field, select a template for the report.
4	In the **Source(s)** field, select  to choose a source of data for the reports. An **Object Selector** appears. Select the **Type** and click **OK**.
5	In the State field, select the check boxes of the various states of alarm in which to run the report.
6	Click  to execute the report. Afterward, the report can additionally be saved or emailed.

- End -

Introduction

System Values allows you to configure of a range of system wide settings from a single editor. **System Values** is available from the **Setup** tab.

Alert Priorities

Alert Priorities allow assigning of a priority level to various alerts from Fire objects. Select the object type from the **Type**drop-down then use the **Assigned Priorities** section to assign relevant priorities.

Database Settings

Various database archive settings can be configured using **System Values** database settings editor. These settings are applied to the victor Application Server Microsoft SQL database.

Database Settings - Fire Setting

Fire Setting section allows setting of various fire only settings:

- **Display acknowledged events in Event Banner** :
  0 - The acknowledged event will not display.
  1 - The acknowledged event will display.
- **Check priority setting for map object annunciation**:
  0 - Disable
  1 - Enable
- **Timeout to return to default layout(s)**:
  0 - Disable
  1 - 3600 - The time to return to default layout.