American Dynamics

From Tyco Security Products

victor Unified Client

Elpas Integration User Guide

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Introduction

Elpas Integration Overview

The Elpas Integration product provides integration between Elpas Visibility and Security Management System and victor Unified Client. This product combines real-time location data with traditional access control and video monitoring.

Elpas is a Radio Frequency Identification (RFID) and Real Time Location System (RTLS) solution developed by Elpas. This solution provides real-time location data as well as geographic and event based alarm data. This Elpas data is then transferred to the victor server. In the Elpas Integration, an event is triggered when someone wearing an Elpas tag enters a monitored area. In this example, an event is activated automatically bringing up video of the monitored area.

Once an event is activated, any action configured with the event such as popup video, unlock door, send email or activate another event automatically occurs.

Elpas Integration Components

The victor Elpas Integration product introduces the following objects into the victor database to facilitate the integration between Elpas and victor Unified Client.

- Elpas ELC object - This object represents the Elpas controller.
- Elpas IR Receiver object - This object represents the Elpas Infrared Receiver.
- Elpas LF Exciter object - This object represents the Elpas Low Frequency Exciter.
- Elpas Tag object - This object represents the Elpas Tag.

Elpas Integration Utilization

The Elpas Integration can be used for the following applications:

- Infant Tracking - Elpas tags on infants provide tracking of the location of all infants in a maternity wing of a hospital. If an infant is taken near a restricted door, an alarm will sound and can be tied to the video and access events. If attempts are made to remove the tag, this can also provide an alarm with the location of the tag.
- Asset Tracking - Quickly view the current location of important assets and receive alarms if a tag is removed.
- Wireless Panic - Provide employees the ability to wirelessly initiate duress events. When a panic button is pressed, and event is displayed in victor with the location of the individual.

Terminology

The following table lists terms and definitions related to the victor Elpas Integration product.

Term	Definition
Elpas ELC	Enhanced Local Controller. A user programmable RTLS appliance that provides distributed, server-less, location awareness .
Elpas IR Receiver	Infrared Receiver. A device typically placed in the ceiling that receives infrared data from tags.
Elpas LF Exciter	Low Frequency Exciter. A device used for adding real-time location visibility typically placed near doors.
Elpas Tag	Active RFID Tags. A device that delivers real time location tracking and visibility of people and assets.
Eiris	Eiris Visibility and Security Management software is used to configure and setup the Elpas system. It is used to set rules for the Elpas system, but is not required for the operation of the victor Elpas Integration product.

Licensing the Elpas Integration

The Elpas Integration is a license option for a victor server. You must purchase the license to use the software.

Only the server is licensed. You can have as many client connections as victor is licensed for.

You can access the License Manager on the victor server to determine if your license includes the Elpas Integration.

Accessing the License Manager

1. Click **Start**> **All Programs**> **Tyco**> **Licensing**. The License Manager opens.
2. Click the **victor** tab. If the Elpas Integration is listed under Licensed Features, you have a valid license. If you do not have a license for the Elpas Integration, contact American Dynamics to purchase a license.

2

Installation

Overview

victor Unified Client must be installed before you install the Elpas Integration. For information on how to install victor, see the *victor Installation and Configuration Guide*.

The Elpas Integration must be installed on every victor server and client system.

The Elpas Integration has the same hardware, software, and disk space requirements as victor Unified Client. If the target computer can install victor, then it satisfies the Elpas Integration requirements.

You need to perform the basic installation process described in the following pages on each computer in your victor system.

NOTE Please be advised that the Elpas Integration installation will temporarily shut down and restart the CrossFire Services. Therefore, the Elpas installation should be planned accordingly.

Before You Begin

Prior to installing the Elpas Integration, you should ensure the following:

- If you are installing Elpas Integration on a corporate network, be sure to coordinate with your corporate network administrator.
- You must have the appropriate Windows permissions and be in the local Administrators group, or have equivalent privileges.

NOTE See the Microsoft Operating System documentation or your system administrator for more information.

Installation

The Elpas Integration installation temporarily shuts down and restarts the CrossFire services. Therefore, the Elpas integration should be planned accordingly.

Running the Installation Program

1. Double-click on **setup.exe**. A Tyco CrossFire Service Alert appears indicating that Tyco CrossFire services will be shutdown.
2. Click **OK** to continue the install. The Welcome dialog box opens.
3. Click **Next**. The License Agreement dialog box opens.
4. Click on the **I accept the terms of the license agreement** radio button, and then click **Next**.
   You can also click Print to print a hard copy of the license agreement for your records. A copy of the license agreement is sent to the default printer configured in your printer settings.
   The Database Server dialog box opens if you are installing the Elpas integration on a victor server computer. The dialog box automatically selects the victor database server/instance and catalog. This dialog box allows you to choose the authentication method.
5. Click **Next**. The Ready to Install the Program dialog box opens.
6. Click **Install**. The Installing victor Elpas Integration dialog box opens.
7. When the installation is complete, the InstallShield Wizard Completed dialog box opens. To automatically start the CrossFire Services after the installation, click in the **Start the Tyco CrossFire services** check box.
8. Click **Finish**.

EMC Redundancy Configuration

If you install VideoEdge using EMC Redundancy, you must edit the **Elpas.Common.Server.DriverService.exe.config** file to replace the five instances of localhost to the alias server name that was configured in EMC AutoStart.

Replacing the instances of localhost

1. Shutdown the Server Configuration Application and stop the following services:
   - **CrossFire Framework Service**

- **CrossFire Server Component Framework Service**

2. Locate the **Elpas.Common.Server.DriverService.exe.config** file in **C:\Program Files(x86)\Tyco\CrossFire\ServerComponents**.
3. Right-click on the file and select **Copy**.
4. Paste the copy of the file into a separate area to keep as a backup file should you need it.
5. Open the **Elpas.Common.Server.DriverService.exe.config** file in **C:\Program Files(x86)\Tyco\CrossFire\ServerComponents**.
6. Change the five instances of localhost to the alias server name that was configured in EMC AutoStart. For example:

Before:

```
<host>
<baseAddresses>
<add
baseAddress="net.pipe://localhost/ServerComponentFramework/IRemoteServerCo
mponentList"/>
</baseAddresses>
</host>
```

After:

```
<host>
<baseAddresses>
<add
baseAddress="net.pipe://CCUREAlias/ServerComponentFramework/IRemoteServerC
omponentList"/>
</baseAddresses>
</host>
```

7. Save the file.
8. Restart the CrossFire Server services.

Starting the Server Application Services

Before you can configure a Elpas Integration object, the CrossFire Framework Service, CrossFire Server Component Framework Service, and Elpas Driver Service must be running.

If you did not select the **Start the Tyco CrossFire services** check box during the installation, you must manually start the services.

Manually starting the Server Services

1. From the Start Menu, select **Start**>**All Programs**>**Tyco**>**Server Configuration**. The Server Configuration Application opens.
2. Click the **Services** tab.
3. If the Status is displayed as **Stopped** for the **CrossFire Framework Service** under **Framework Services**, click **Start**.
4. If the Status is displayed as **Stopped** for the **Crossfire Server Component Framework Service** under Framework Services, click **Start**. Proceed to Step 5 after the **CrossFire Framework Services** each display a status of **Running**.
5. If the **Elpas Driver Service** is not displaying **Running**, click in the **Enabled** checkbox, and click **Start**. When the **Crossfire Framework Service**, **CrossFire Server Component Framework Service**, and the **Elpas Driver Service** each display a status of **Running**, you can configure Elpas objects in victor.

Uninstall the Integration

This section describes how to uninstall the Elpas Integration from the server computer and Client computers in your security system.

The uninstall process removes all software components that were installed on the computer by the Elpas Integration installation Once the uninstall process completes, the computer will be in a clean state.

Uninstalling this integration does not automatically remove objects that were configured in the victor Unified Client. Before you proceed with this uninstall, you MUST manually remove the objects from victor to avoid potential issues with functions, such as partition deletion.

Unless you intend to reinstall the integration and continue using it, ensure that the objects are deleted before removing the integration.

The Elpas integration uninstall procedure shuts down and restarts the CrossFire services. Therefore, the Elpas integration uninstall should be planned accordingly.

Uninstalling the Integration

NOTE The uninstall procedure described is on a Windows 7, 32-bit computer. For other supported operating systems, please refer to your operating system guide for information about removing programs from your computer.

1. Close all open applications.
2. From the Windows **Start** menu, select **Control Panel**>**Programs and Features**.
3. In the list, right-click on the Elpas Integration.
4. Click **Change**. A Tyco CrossFire Service Alert appears indicating that Tyco CrossFire services will be shutdown. The Welcome dialog box opens.
5. Click **Next**. The Synchronize or remove installation dialog box opens.
6. Click **Remove** and click **Next**. The Ready Remove dialog box opens.
7. Select from the following:
   - Leave the **Drop database tables** check box unchecked and the databases used in the Elpas integration configurations will be kept. Select this option to keep the existing configurations if you plan to reinstall the Elpas integration at a later date.

- Click in the **Drop database tables** check box to select it, and the databases used in the Elpas integration configurations will be deleted.

8. Click **Remove**. The Removing dialog box opens.

NOTE If there are files in use that need to be updated by the unistall, the **Files in Use** dialog box opens. You will need to close the applications listed, and then go back and click **Retry** to continue with the uninstall.

9. The InstallShield Wizard Completed dialog box opens when the uninstall is complete. Click in the **Start the Tyco CrossFire services** check box to automatically start the services. Selecting this check box means you do not have to manually start the Tyco CrossFire services.
10. Click **Finish**.

3

Configuration

Configuring an Elpas ELC

The Elpas ELC object represents the Elpas Enhanced Local Controller in the victor database. The Enhanced Local Controller is a user programmable appliance that provides distributed serverless, location awareness.

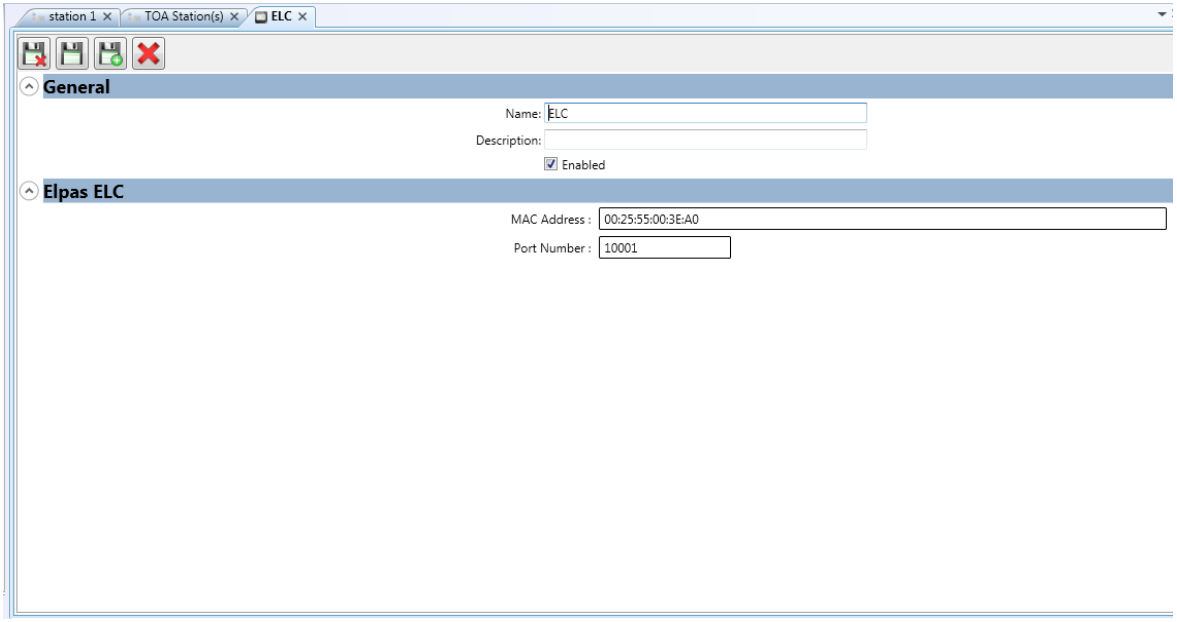

Figure 1: Elpas ELC editor

Adding an Elpas ELC

1. On the **Setup** tab, select **Elpas ELC** and then click **New**. The Elpas ELC editor opens. For more information about the fields of this editor, refer to "Fields of the Elpas ELC editor" on the facing page.
2. Enter a **Name**.
3. Enter a **Description**.
4. Enter the **MAC Address**.
5. Enter the **Port Number**.

6. Click  to save and close.

Editing an Elpas ELC

1. On the **Setup** tab, select **Elpas ELC** and then click **Show All**. A list of all configured Elpas ELC objects opens.
2. Right-click the Elpas ELC object you want to edit and click **Edit**. The Elpas ELC editor opens.
3. Make the edits you require and then click  to save and close.

Deleting an Elpas ELC

1. On the **Setup** tab, select **Elpas ELC** and then click **Show All**. A list of all configured Elpas ELC objects opens.
2. Right-click the Elpas ELC object you want to delete and click **Delete**. A dialog box opens stating **This will permanently remove the Object(s) from victor. Do you wish to continue?**
3. Click **Yes**.

Fields of the Elpas ELC editor

The following tables explain the fields of the Elpas ELC editor.

General section

Field	Description
Name	Enter a unique **Name** up to 50 characters long for the Elpas ELC. If you enter the name of an existing object, the system will not save the object, and will display an error message indicating there is a conflict.
Description	Enter a text **Description** of the Elpas ELC that will help you identify the object. The text is for information only and can be used to identify location, model or purpose of the object.

Field	Description
Enabled	Select the **Enabled** option to put the Elpas ELC object online. Clear the **Enabled** check box to disable the Elpas ELC.

Elpas ELC section

Field	Description
MAC Address	Enter the **MAC Address** of the associated ELC. This can be found on the back of the ELC as well as in Eiris.
Port Number	UDP **Port Number** in which the driver shall accept incoming UDP messages from this ELC. The Port Number is found in Eiris. The range is 1-65, 535.

Configuring an Elpas IR Receiver

The Elpas IR Receiver object represents the infrared receiver in the victor database. The Infrared Receiver is a device that receives infrared from tags typically placed near doors.

Creating an Elpas IR Receiver

1. On the **Setup** tab, select **Elpas IR Receiver** and click **New**. The **Elpas IR Receiver** editor opens. For more information regarding the fields of the Elpas IR Receiver editor, refer to "Fields of the Elpas IR Receiver editor" on the next page
2. Enter a **Name**.
3. Enter a Description.
4. Check the **Enabled** check box to put the receiver online once you are finished configuring.
5. Enter the **Address** of the associated IR Receiver. This is the 6-Character Hexadecimal Address located on the back of the IR Receiver and can also be found in Eiris.
6. Click  to save and close.

Editing an Elpas IR Receiver

1. On the **Setup** tab, select **Elpas IR Receiver** and click **Show All**. A list of all configured Elpas IR Receivers appears.
2. Right-click on the Elpas IR Receiver that you want to edit and click **Edit**. The Elpas IR Receiver editor opens.
3. Make the editor you require. Refer to "Fields of the Elpas IR Receiver editor" on the next page
4. Click  to save and close.

Deleting an Elpas IR Receiver

1. On the **Setup** tab, select **Elpas IR Receiver** and then click **Show All**. A list of all configured Elpas IR Receivers opens.

2. Right-click the Elpas IR Receiver you want to delete and click **Delete**. A dialog box opens stating **This will permanently remove the Object(s) from victor. Do you wish to continue?**
3. Click **Yes**.

Fields of the Elpas IR Receiver editor

The following tables describe the fields of the Elpas IR Receiver editor and its values.

General section

Field	Description
Name	Enter a unique **Name** up to 50 characters long for the Elpas IR Receiver. If you enter the name of an existing object, the system will not save the object, and will display an error message indicating there is a conflict.
Description	Enter a text **Description** of the Elpas IR Receiver that will help you identify the object. The text is for information only and can be used to identify location, model or purpose of the object.
Enabled	Select the **Enabled** option to put the Elpas IR Receiver object online. Clear the **Enabled** check box to disable the Elpas IR Receiver.

Elpas IR Receiver section

Field	Description
Address	The 6-Character Hexadecimal **Address** of the associated IR Receiver. This Address is located on the back of the IR Receiver and can be found in Eiris.

Configuring an Elpas LF Exciter

The Elpas LF Exciter object represents the Elpas Low Frequency Exciter in the victor database. The Low Frequency Exciter is a device used for adding real time location visibility. It is typically placed near doors.

Adding an Elpas LF Exciter

1. On the **Setup** tab, select **Elpas LF Exciter** and click **New**. The Elpas LF Exciter editor opens. For more information regarding the fields of this editor, refer to "Fields of the Elpas LF Exciter editor" on the next page.
2. Enter a **Name**.
3. Enter a **Description**.
4. Check the **Enabled** check box to put the Elpas LF Exciter online after you have configured the object.
5. Enter the **Address** located on the back of the LF Exciter board.
6. Enter the **LF ID** of the associated LF Exciter board.
7. Click  to save and close.

Editing an Elpas LF Exciter

1. On the **Setup** tab, select **Elpas LF Exciter** and click **Show All**. A list of all configured Elpas LF Exciters appears.
2. Right-click the object you want to edit and click **Edit**. The Elpas LF Exciter editor opens. For more information regarding the fields of this editor, refer to "Fields of the Elpas LF Exciter editor" on the next page.
3. Make the edits you require and then click  to save and close.

Deleting an Elpas LF Exciter

1. On the **Setup** tab, select **Elpas LF Exciter** and click **Show All**. A list of all configured Elpas LF Exciters appears.

2. Right-click the object you want to delete and click **Delete**. A dialog box opens stating **This will permanently remove the Object(s) from victor. Do you wish to continue?**
3. Click **Yes**.

Fields of the Elpas LF Exciter editor

The following tables describe the fields of the Elpas LF Exciter editor and their values.

General section

Field	Description
Name	Enter a unique **Name** up to 50 characters long for the Elpas LF Exciter. If you enter the name of an existing object, the system will not save the object, and will display an error message indicating there is a conflict.
Description	Enter a text **Description** of the Elpas LF Exciter that will help you identify the object. The text is for information only and can be used to identify location, model or purpose of the object.
Enabled	Select the **Enabled** option to put the Elpas LF Exciter object online. Clear the **Enabled** check box to disable the Elpas LF Exciter.

Elpas LF Exciter section

Field	Description
Address	The 6-Character Hexadecimal **Address** of the associated LF Exciter. This address is located on the back of the LF Exciter.
LF ID	The 6-character Hexidecimal **LF ID** of the associated LF Exciter. The LF ID is set via the DIP switches on the LF Exciter. It can be obtained in Eiris via the Extended Properties Tab in the LF ID(Hex) field.

Configuring an Elpas Tag

The Elpas Tag object represents the **Elpas Tag** in the victor database. The active RFID tags are a device that delivers real time location tracking and visibility of people and assets.

Adding an Elpas Tag

1. On the **Setup** tab, click **Elpas Tag** and select **New**. The Elpas Tag editor opens. For more information about the fields of the editor, refer to "Fields of the Elpas Tag editor" on the next page.
2. Enter a **Name**.
3. Enter a **Description**.
4. Check the **Enabled** check box to put the Tag online after configuration is complete.
5. Enter the **TagID** of the object.
6. Click  to save and close.

Editing an Elpas Tag

1. On the **Setup** tab, click **Elpas Tag** and select **Show All**. A list of configured Elpas Tags appears.
2. Right-click the object you want to edit and click **Edit**. Make the edits you require. For more information about the fields of the editor, refer to "Fields of the Elpas Tag editor" on the next page.
3. Click  to save and close.

Deleting an Elpas Tag

1. On the **Setup** tab, select **Elpas Tag** and click **Show All**. A list of all configured Elpas Tags appears.
2. Right-click the object you want to delete and click **Delete**. A dialog box opens stating **This will permanently remove the Object(s) from victor. Do you wish to continue?**
3. Click **Yes**.

Fields of the Elpas Tag editor

The following tables describe the fields of the Elpas Tag editor and the values of the fields.

General section

Field	Description
Name	Enter a unique **Name** up to 50 characters long for the Elpas Tag. If you enter the name of an existing object, the system will not save the object, and will display an error message indicating there is a conflict.
Description	Enter a text **Description** of the Elpas Tag that will help you identify the object. The text is for information only and can be used to identify location, model or purpose of the object.
Enabled	Select the **Enabled** option to put the Elpas Tag online. Clear the **Enabled** check box to disable the Elpas Tag.

Elpas Tag section

Field	Description
TagID	The 6-Character Hexadecimal **Tag ID** of the associated tag. This address is located on the back of the Tag and in Eiris.

Scheduling an Event for Elpas

Events can be created and configured from within the client. The **Event Setup** editor can be used to configure alerts for Elpas. For more information regarding configuration of events, alerts, and actions refer to *victor Unified Client Administrations and Configuration Guide*.

Creating an Event

1. On the **Build** tab, select **Events** and then click **New**.
2. Enter a **Name**.
3. Enter a **Description**.
4. The **Enabled** check box is checked by default, uncheck to disable the event.
5. Select the **Priority** from the drop-down list.

NOTE Each priority level is associated with a color which is made prominent in the Event viewer when the event is triggered.

6. Select **Event Breakthrough** if required. The default setting is disabled. Enabling **Event Breakthrough** assigns priority to the event viewer when the event is triggered which overrides anything else the user is viewing.
7. Enter the **Activate Text**. This text will display in the event viewer. If you have the activity list open, this text displays as the event triggers.
8. Enter **Instructions** for the user. These will be conveyed to the user with the event triggers.
9. Select **Play Sound When Active** check box if an audible alarm is required when the event triggers.
10. Select  to open the **Select Sound** dialog box. Navigate to the sound you want and select the file. Select **Open** and then select **OK**.

NOTE
Only .wav sound files are supported.

The files must be located in the ...\\WINDOWS\Media folder. If a custom .wav file is required, copy to this location.

11. Select or deselect check boxes for the **Acknowledge and Clear Options** depending on how you require the event to be acknowledged and cleared.

12. Click  to save and close.

Event Configuration

Using the Event/Action Pairing editor and the Event Setup editor, you can build multiple event configurations quicker and easier than building single event configurations one at a time.

Event/Action Pairing Editor

The Event/Action Pairing editor is used to tie together system events with actions you wish to trigger.

NOTE Event/Action association can only be made in this editor.

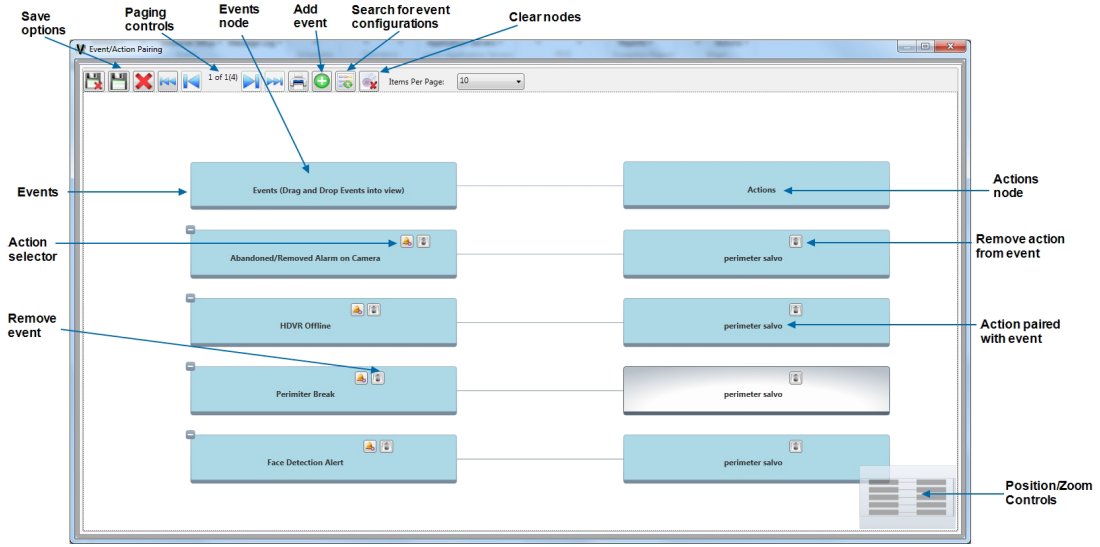

Figure 2: Event/Action editor

Pairing Events and Actions

1. On the **Build** tab, select **Event/Schedule Setup** and then click **Event/Action Pairing**. The Event/Action Pairing editor opens.

2. Click the **Events** node and use the **Object Selector** to select events as required.
3. Select  in the **Event** node and use the **Object Selector** to assign event Actions. Repeat as required.
4. Select  to save and close.

Event Setup

The **Events/Schedule Setup** editor provides a dynamic, visual method of batch linking **Devices**, **Alerts**, and **Actions** as well as setting up event scheduling.

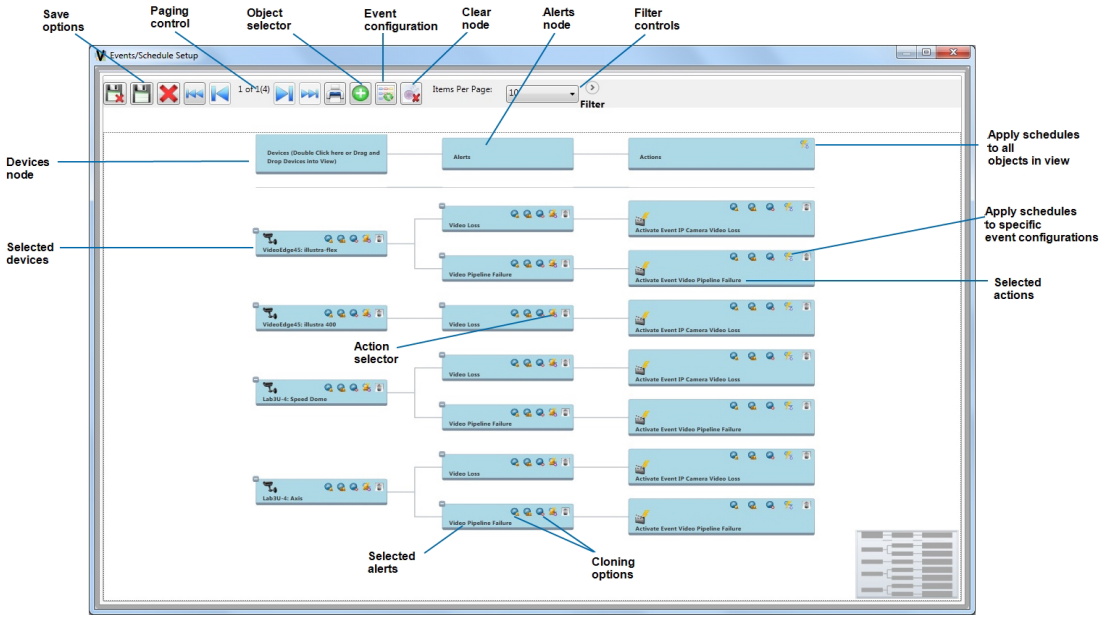

Figure 3: Event/Schedule Setup editor

1. On the **Build** tab, select **Event/Schedule Setup** and then click **Events/Schedule Setup**. The Events Setup editor displays.
2. Double-click the **Devices** node and use the **Object Selector** to select the device, or drag and drop from the **Device List**.

3. Select  in the **Devices** node and use the check boxes in the drop-down list to assign alerts as required. Click **Add Alerts**. These alerts are displayed under the **Alerts** node.
4. Select  in the **Alerts** node and use the **Object Selector** to assign **Actions**. Repeat as required.
5. Use merge and clone options as required to copy configurations:
   - Select  to merge and clone target configuration.
   - Select  to duplicate source configuration to all targets.
   - Select  to remove configuration on source and target.
6. Select  to add or remove schedules as you require. Refer to the *victor Unified Client Administrations and Configuration Guide* for more information on schedules.
7. Following event setup, select  to save and close.