Morley ZS5 SE Fire Panel Integration App-note

20 January 2022

Contents

1. Introduction

This document will detail the integration of the Morley ZS5 SE Fire Panel, with the CathexisVision software. Functionally this integration will entail the triggering of standard CathexisVision Events, based on the triggers from the Morley device.

Note:

1. For information regarding the regular operation of a Morley device, please consult the relevant manufacturer's documentation.
2. There is a General Integration section in the main ***CathexisVision Setup Manual***. It has vital information about creating an integration database, as well as a general introduction to the Integration Panel. **Read over this section.**

1.1 Requirements

1.1.1 General Requirements

- CathexisVision 2018 Service Pack 3, or later.
- Morley ZS5 SE Fire Panel.
- Morley ZS5 SE software version: 857-M10A.
- RS485 Card (P/N 795-004-001).
- Pager Unit that supports an RS232 output (P/N 795-067-001).

1.1.2 License Requirements

The Cathexis Morley Fire Panel integration license requirements are as follows:

License	Name	Description
CMOR-2000	Morley Fire Panel Device License	This is the only license required to integrate with fire panel system. It is applied to the server to which the fire panel system is connected.

Note: In this integration, a single license will cover multiple linked devices.

A NOTE ON CAMERA CHANNELS

The CathexisVision software packages have **limits on camera channels**. A multi-sensor camera is physically a single device (camera) but it requires a camera channel for each one of the internal cameras. The same applies to an encoder: a 16-channel encoder will account for 16 camera channels on the CathexisVision software, even though it is a single device. Even when a camera or device only uses a single IP license, the camera channel limit will still apply.

1.2 Integration Components

All CathexisVision integrations have two component levels: **Device** and **Object**.

Device	The device is CathexisVision software's interface, which handles all the interaction between CathexisVision and the integrated hardware. When an integration is added to the CathexisVision system, a device is added. The messages received from the device are called Device Events.
Objects	Objects are the individual pieces of hardware that comprise the integration. There may be multiple "object types" under the objects group. For example, the main controller and door nodes of an access control system are both objects. They are different types of objects.

1.3 Features and Abilities

This section indicates the features/abilities of the Morley Fire Panel when integrated with CathexisVision.

- A Pager unit connects to the Morley device via a RS485 connection in order to communicate with CathexisVision.
- CathexisVision communicates with the Morley device (via the pager unit) via either direct on-board RS232 serial cable connection, or over the network via an ESP device which converts IP to RS232.
- Address objects support overlays.
- Device objects can be used to trigger events.

1.3.1 Device Objects

Objects populate once CathexisVision receives event information from the Morley panel. However, objects may be manually created in order to link video with the object and configure access rights, before an event occurs. When creating an object, it is crucial that the Address ID of the object match the address of the related panel, and be in the correct format. If an event occurs and the ID does not match or is incorrectly formatted, the event will populate a new object without a video link.

Object Type	Abilities
General	• Objects populate once device events are received. • Objects may be manually created, but the Address object ID needs to be correct in order to link video to the event. • Objects cannot be commanded. • Address objects support overlays. • Objects may be linked to cameras to associate device events with video footage.

Address	**Object Properties**	The following Address Object properties are indicated in CathexisVision: • Name of address object.
Communication Channel	**Object Properties**	N/A

1.3.2 Device Events

The CathexisVision Morley integration generates Fire Alarm device events.

Event Element	Features/Abilities
General	• Events occurring on the Morley device are received in CathexisVision. • Device event types are Fire Alarm events.
Fire Alarm	• Date. • Time. • Fire alarm name/ID. • Details e.g. Location.
CathexisVision System Events	• CathexisVision events may be triggered using the device events generated by the Morley Fire Panel. • Besides usual system event actions, it is not possible to control the Morley device.

1.3.3 Metadatabase

A unique meta-database is created on the CathexisVision server for this integration. It is fully searchable with configurable filters based on device event information (as above) and time stamping. The filtered event/s and the associated video will then be available for review in a new window from which an archive can be created and exported.

Database Element	Features/Abilities
General	• All device events are databased as access, security, and informational event messages. • Database entries include the footage from cameras linked to device objects. • Multiple cameras may be linked to multiple objects. • Device event meta-data is displayed where applicable. • Databased device events may be viewed in the embedded video player, which includes the usual CathexisVision video review tools.
View Options	The meta-database may be viewed by the following options: • Fire Events.

	• Other Events. • All.
Sort Options	The meta-database may be sorted by: • Device event time.
Easy Search	The meta-database may be searched specifically for: • Event type. • Address. • Room Name. • Panel. • Message.
Filter	The meta-database may be filtered according to: • Time. • Message. • Address. • Panel.
Export	Database entries may be exported in CSV and PDF format.

1.3.4 Maps

The CathexisVision GUI provides for configurable site maps that feature multi-layered, hierarchical, interactive interfaces providing representation and control of a site and its resources.

Map Element	Features/Abilities
General	Device objects can be embedded in a site map, which offers multiple action options when messages are received from the device, the device triggers an event, and/or the user manually initiates a map action.
Map Action Triggers	• All device objects may be set to trigger a map action if the user left-clicks on map. • Some device objects may be set to trigger a map action if a state change message is received from the device. • All device objects may be set to perform a map action if *any* event occurs on the device. • Device objects, which can be configured to trigger CathexisVision events, may also be set to perform a map action when specific CathexisVision events are triggered.
Map Actions Options	When triggered (see above), objects may perform the following map actions (where applicable): • Connect to a site. • Perform an animation. • Go to a camera preset. • Load a map. • Set a PTZ relay output. • Show a popup menu.

	• Set a relay output. • Show an HTML block. • Show a block of text. • Show a device popup menu.

USEFUL LINKS

*To view **tutorial videos** on CathexisVision setup, visit https://cathexisvideo.com/resources/videos*

*Find answers to Cathexis **Frequently Asked Questions**:*
https://cathexis.crisp.help/en/?1557129162258

2. Configure Device for Communication

2.1 Device Connection with CathexisVision

CathexisVision cannot request information from the Morley device, and can only receive information once device events are generated. CathexisVision connects to the Morley device via a Pager unit, which communicates with the Morley device via a RS485 connection. This Pager unit is essential to this integration. Please ensure that it is supplied.

CathexisVision communicates with the Morley device (via the Pager unit) in two possible ways:

1. Direct on-board RS232 serial cable.
2. Over the network via an ESP device which converts IP to RS232.

Please consult the relevant Morley Pager documentation for details on connecting the Morley device and the Pager.

2.2 Connection Recommendation for Failover

If the system uses Failover, Cathexis recommends that the IP-to-RS232 ESP connection is used. This is because if the device is connected directly to the server via serial cable connection, and the server dies, the connection will fail with it as it is a hardware connection. If the device is connected via IP-to-RS232 ESP connection, the ESP will maintain a fixed IP address, meaning the failover server will be able to assume the failed server's role and continue sending data over the network.

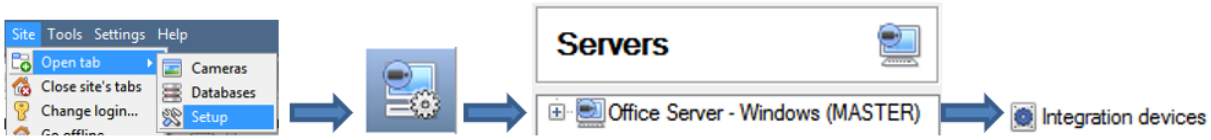
Please note that during failover, the integration database cannot be failed over.

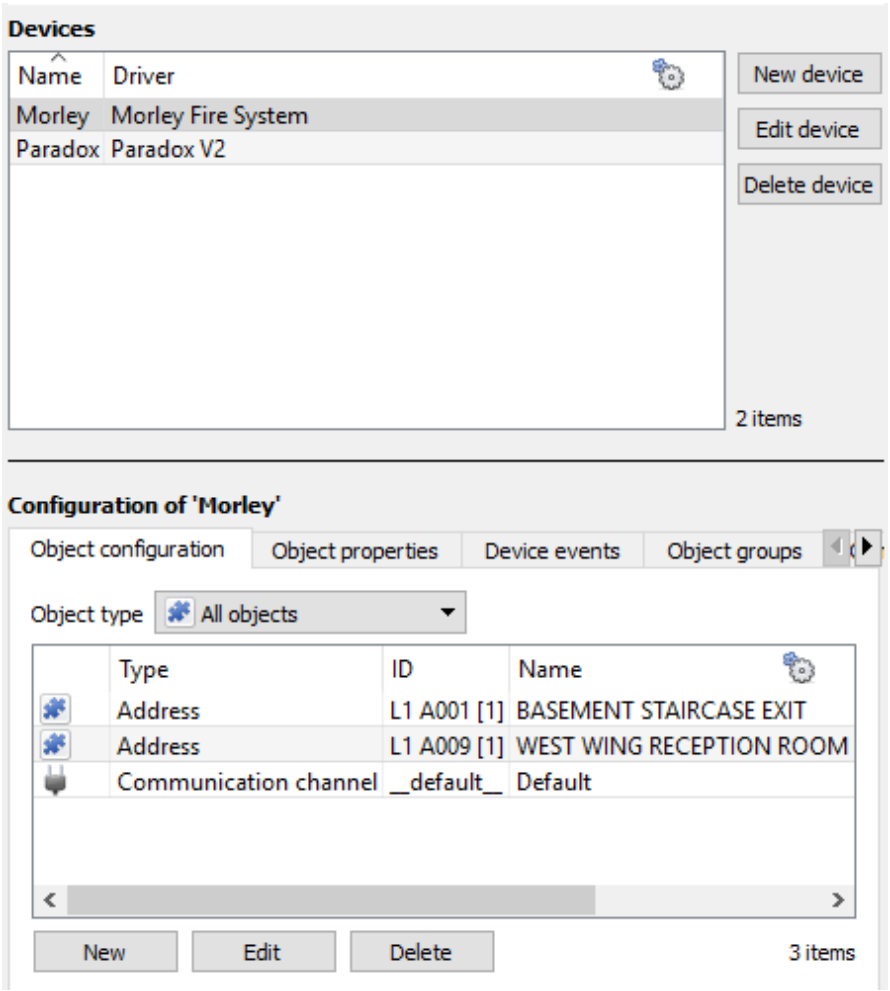
3. Configure Integration in CathexisVision

3.1 Add a New Device in CathexisVision

Integrations are added on a server-by-server basis. They are managed in the Integration Devices panel, under the Setup Tab of the servers to which they are added. To get to the Integration Panel follow this path:

3.1.1 The Integrations Panel





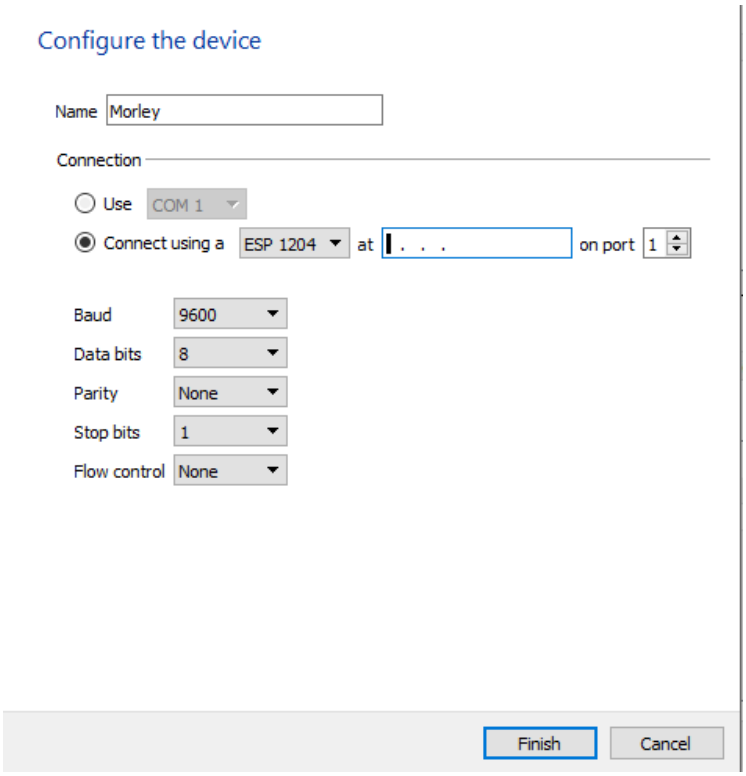
There are two sections in the Integration Panel:

The **Devices** list will list the integration devices that are attached to the server.

The **Configuration** section enables the user to edit/review, the device which is selected in the **Devices** section.

3.1.1.1 Device Addition

1. Once in the Integration Panel, in the Devices section, click on New Device. This will open the addition window.
2. Select the **Morley** from the list.



Give the device a descriptive N**ame.**

Select either ESP or Serial **Connection**.

If ESP, enter the **IP address** of the ESP device.

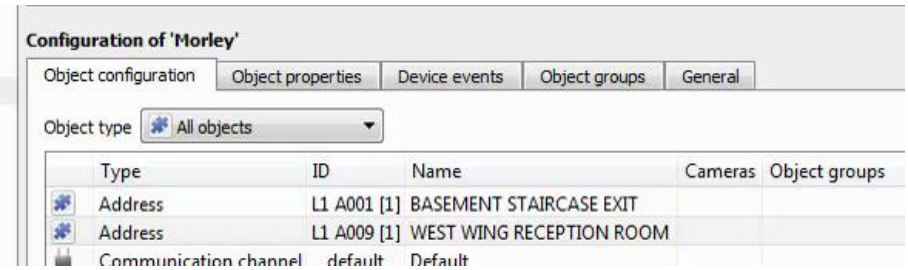
Enter the Morley Fire Panel settings for **Baud, Data bits, Parity, Stop Bits**, and **Flow Control**.

3.2 Configuration Section (Tabs)

The configuration section is divided up into a number of tabs. These tabs are: **Object configuration, Object properties, Device events, Groups,** and **General.**

Note: Objects populate once CathexisVision receives event information from the Morley panel. However, objects may be manually created in order to link video with the object, before an event occurs. When creating an object, it is crucial that the Address ID of the object match the address of the related panel, and be in the correct format. If an event occurs and the ID does not match or is incorrectly formatted, the event will populate a new object without a video link.

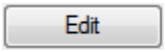
3.2.1 Object Configuration Tab



The object configuration tab shows all individual objects that comprise the integration.

3.2.1.1 Object Configuration Buttons

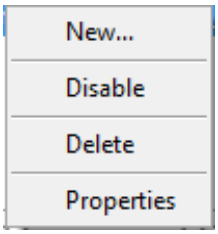
Add a new object by clicking on New.



Click Edit to change an existing object.

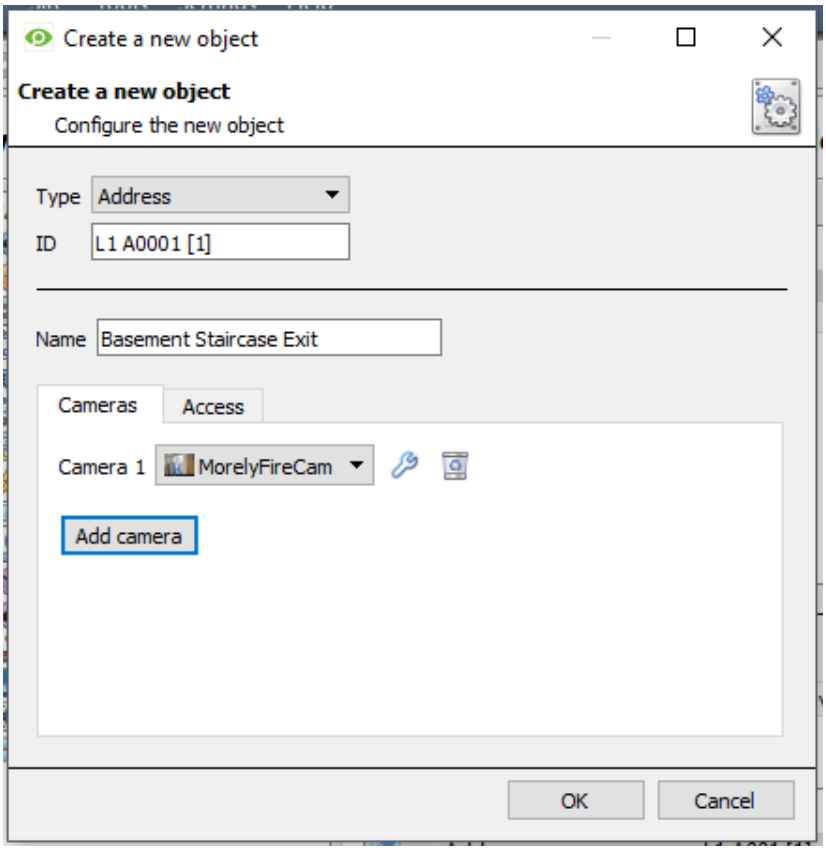
Click Delete to remove an existing object from the CathexisVision configuration.

3.2.1.2 Object Configuration Right-click Options



New will open up the dialogue to add a new object.
Disable/Enable allows manually enabling/disabling individual nodes.
Delete will permanently remove this object from the list.
Properties will open up the object properties. Edit the object from here. (Specifically, assign cameras to this object, as well as define user access levels for it.)

3.2.1.3 Create/Edit Object



Select the **object Type**.

Enter the **ID** of the panel you are creating an object for.

The ID needs to be in the correct format. See below.

Give the object a descriptive **Name**. This does not need to match the panel settings.

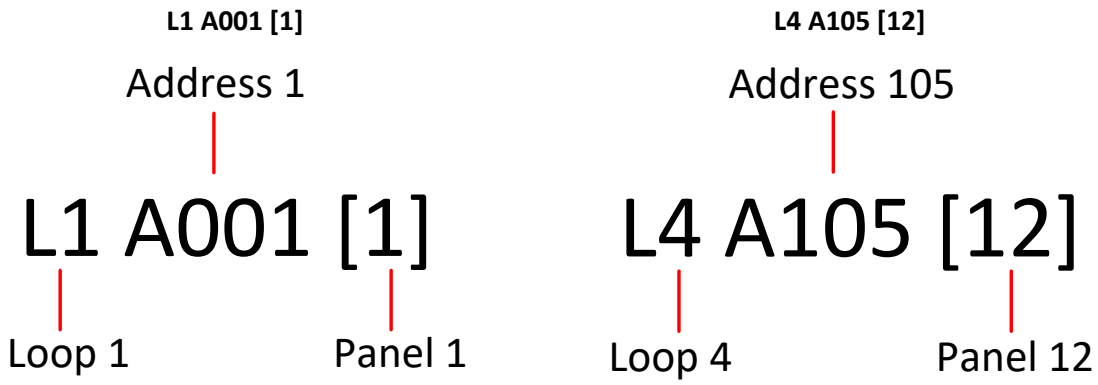
Use the **Cameras Tab** to **Add** cameras to the object, and the **Access Tab** to define **access rights** to the object. See below.

ID Format

When creating an object, it is crucial that the Address ID of the object match the address of the related panel, and be in the correct format. If an event occurs and the ID does not match or is incorrectly formatted, the event will populate a new object without a video link.

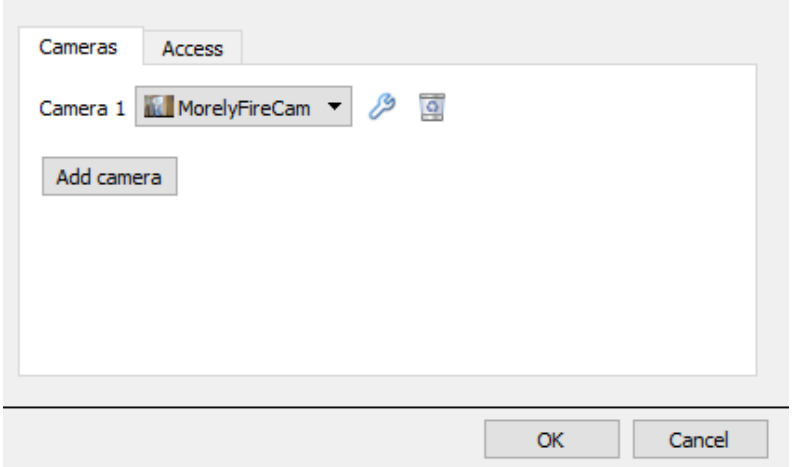
Note: Ensure that the **format matches the examples** below, including the **spacing** between text.

ID Format Examples:



Properties: Cameras Tab

Adding a camera to an object will mean that, whenever there is an event on that object, the recording from that camera will be related to the time and date of the object event, in the Integration database.



To add a camera, click on **Add Camera**, and select the relevant camera from the drop-down menu.

To delete a camera, click on the trash icon.

Note: Multiple cameras may be associated with individual objects.

Note: If ***continuous recording*** is not set up, on associated cameras, this will run the risk of objects triggering while the cameras are not recording. To only record cameras, when an object triggers, set up **Events** that trigger a recording, when one of these objects is activated.

Properties: Access

Access protects sensitive objects, by only allowing certain user levels access to them.

Under **View,** set the access levels.

Note: If *Use default access rights* is checked, must make sure that those default rights have been correctly defined. Click on **Configure default access** to do this.

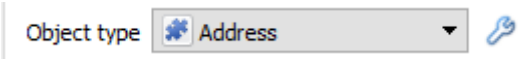
3.2.2 Configure Overlays

Overlays are supported for Address objects.

Overlay display time is configured in the General Tab of the configurations section.

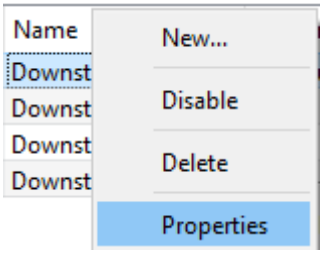
Overlays may be configured globally for **all Address objects**, or they may be configured for a single Address object. See below for how to open the overlay configuration window for global or specific overlay configuration. Thereafter, the overlay configuration window looks the same for both options.

3.2.2.1 Configure Global Overlays

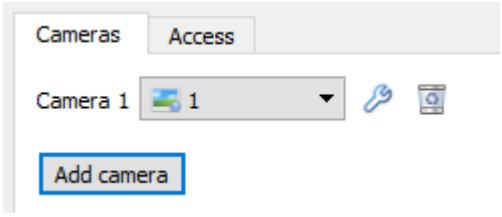


Select the Reader object from the Object type drop-down menu and click the Settings icon.

3.2.2.2 Configure Overlays for Single Object



Right-click object and select **Properties** to edit the object.

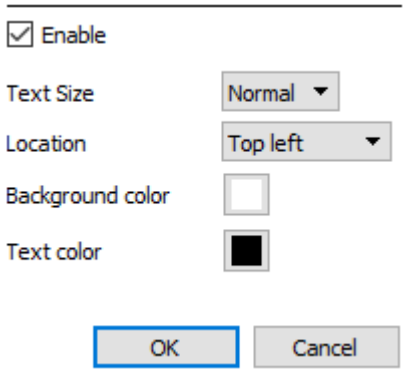


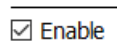
Add a camera to the object, and then click the settings icon that appears next to the camera name.

Note: This option only appears for **Reader** objects.

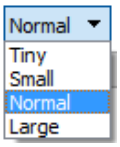
Overlay Configuration Window

Note: This window looks the same for both global and specific object overlay configurations.

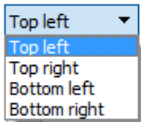




Check the box to **Enable** overlays.



Select the text size of the overlay from the drop-down menu.

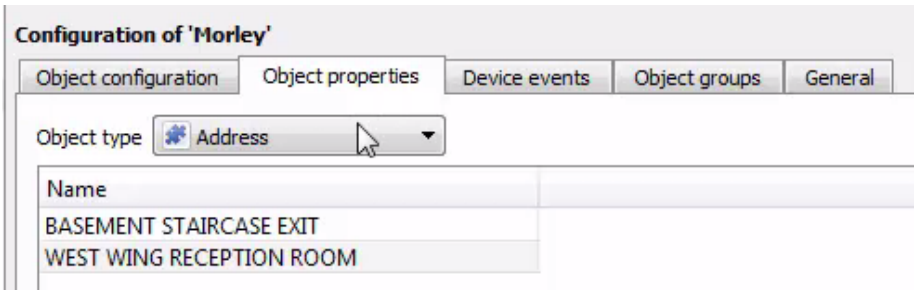


Select the **Location** of the overlay from the drop-down menu.

Choose the **Text Color** of the overlay text. Clicking the color box will open a color chart.

Choose the **Background colour** of the overlay. Clicking the color box will open a color chart.

3.2.3 Objects Properties Tab

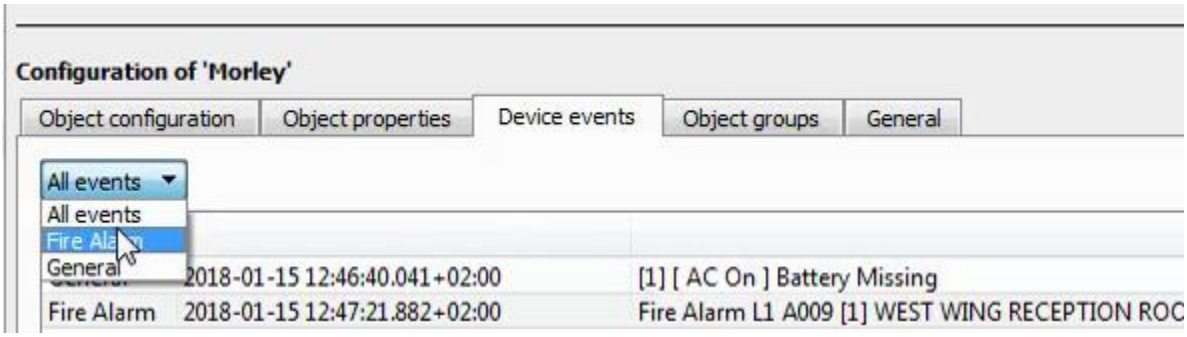


The Object properties tab shows the object properties, sorted by object type.

In the case of the Morley device the user may view by **Address** or **Communication Channel.**

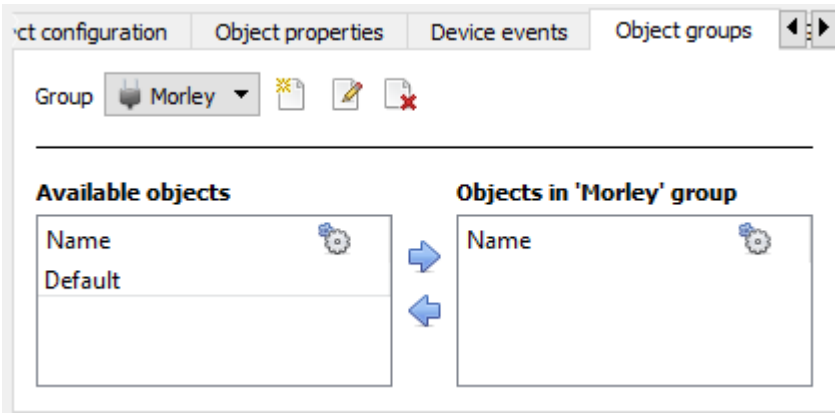
Note: Device objects will populate once device events are received to CathexisVision.

3.2.4 Device Events Tab



This will list all events sent from this device. It can be used to monitor the functioning of the integration and the events on site.

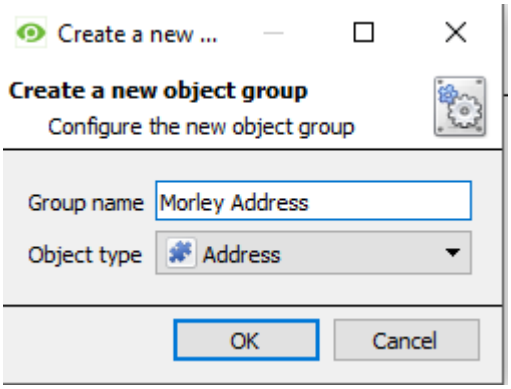
3.2.5 Groups Tab



The user can create groups of the same type of object.

Tip: This is useful when setting up Events, because events can be triggered by an object group. (E.G. A group will trigger, if any of the devices in that group is triggered.)

3.2.5.1 Create a Group

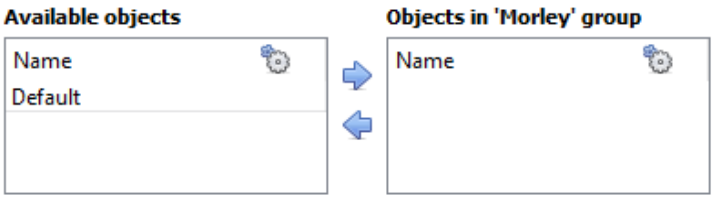


To create/edit a group click on / .

Note: Once a group has been created, the object type of the group cannot be edited.

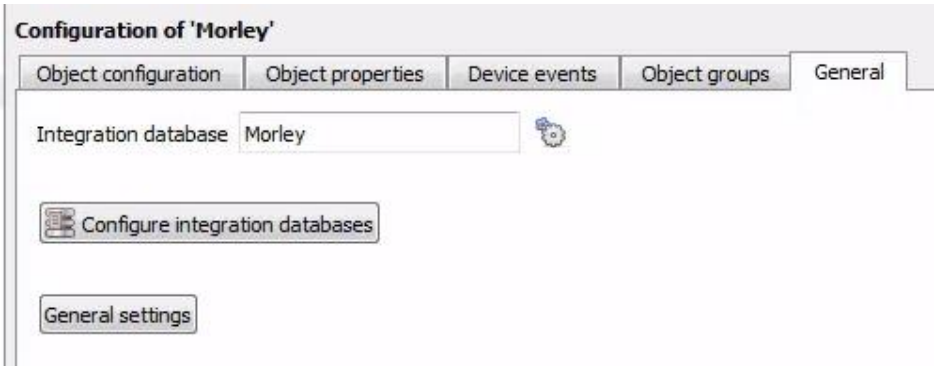
Give the group a descriptive **Group name.**

Click on the drop-down menu to select the **Object type** for grouping.



Available Objects will then be listed. To add/remove these objects to the group select them (multiple at a time), and click on / .

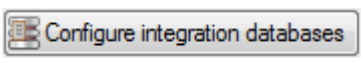
3.2.6 General Tab



Currently the General Tab deals with the **Integration database**. Here it is possible to select an existing database, or configure a new database for the integration.

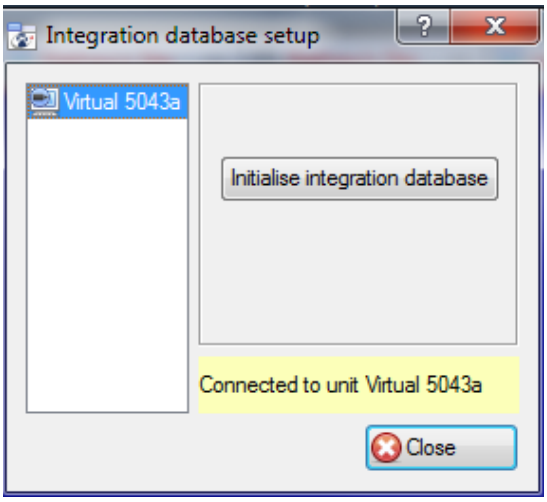
Important Note: Each integrated device needs to be attached to an Integration database. Without setting up/adding a database here the integration will not function properly within the CathexisVision system.

3.2.6.1 Configure a New Database



If there is no database created yet, clicking on this button will take open the integration database setup.

Initialise the Integration Database



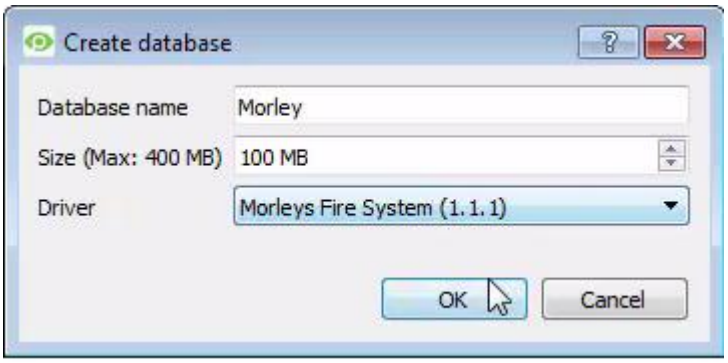
The first time an integration database is added, the database needs to be initialised. This will add a broad database, within which all integration device databases will be added.

Select the unit to which the database will be added from the list, and click Initialise integration database. Choose a partition on which the database will be created, and select how much space it will take up.

Add a New Devices Database

After initialisation, add the database for the integration being added.

Click on the New button, at the bottom of the Create database window.



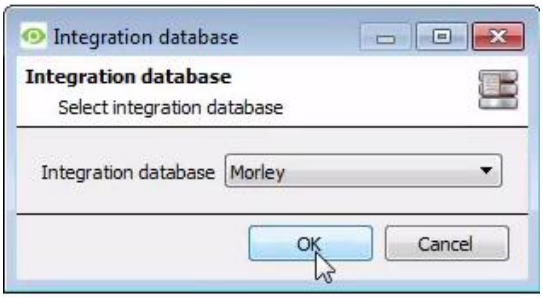
Give the Integration database a descriptive **Database Name**. E.g. Morley.

Allocate a **Size** to the new device database.

Choose the relevant device **Driver**.

Click on **OK** to create the database.

Select the Integration Database

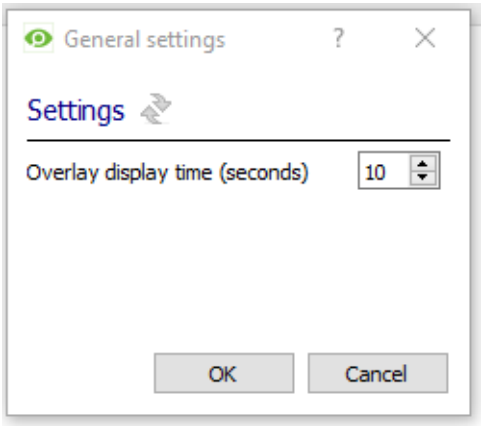


Integration database -- select integration database --

Once a database has been created the user may select it by clicking on the settings icon, and selecting it in the dialogue that appears.

Only databases which relate to the device being added should appear.

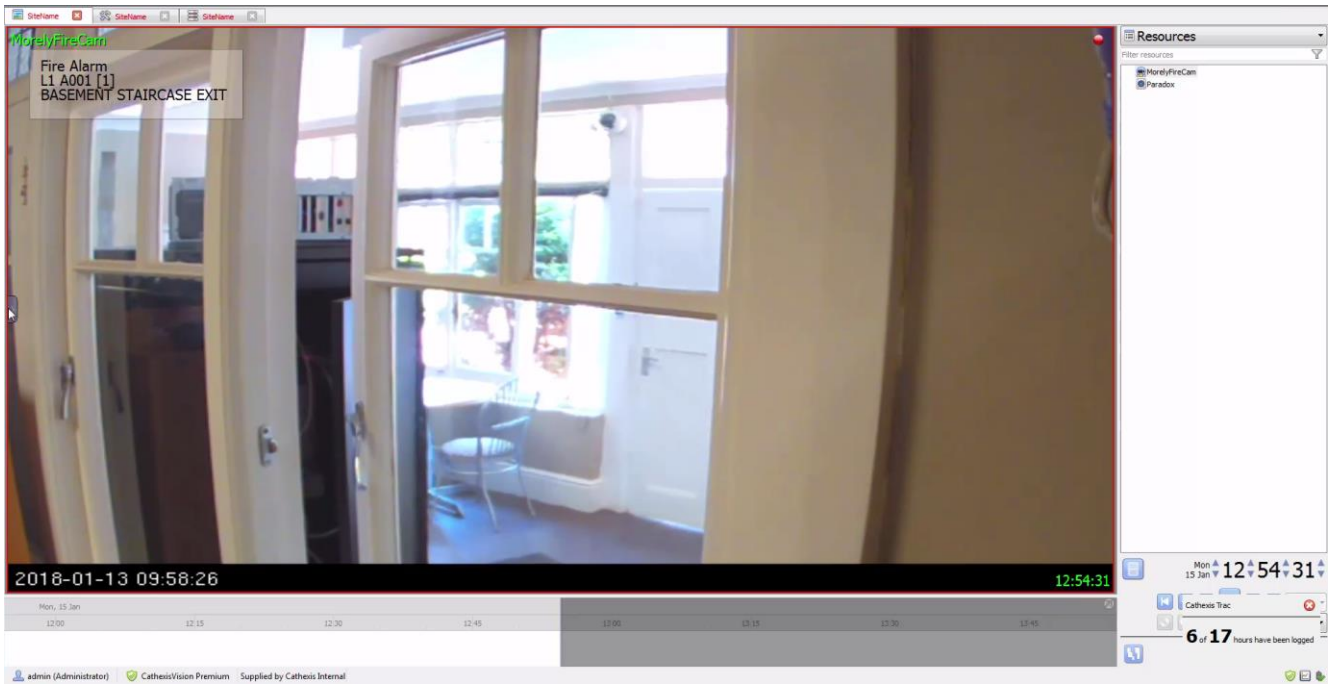
3.2.6.2 General Settings



Click **General Settings** button to set overlay display time (in seconds).

4. Camera Tab Overlay Setup

If applicable, the device overlays can be enabled on the relevant camera.



Note: Cameras must have already been added to the relevant objects.

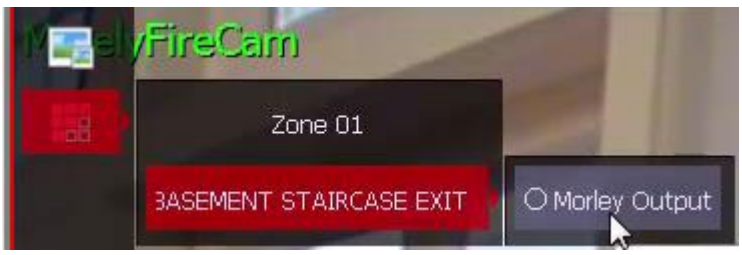
4.1 Video Feed Options Panel

Click the arrow to the left of the screen, to pop out the video feed options panel.

Once popped out, the Video feed options panel will present a number of options specific to the settings configured for that video feed.

4.2 Select the Overlay

Clicking the overlay icon will bring up the overlay options for this video feed.



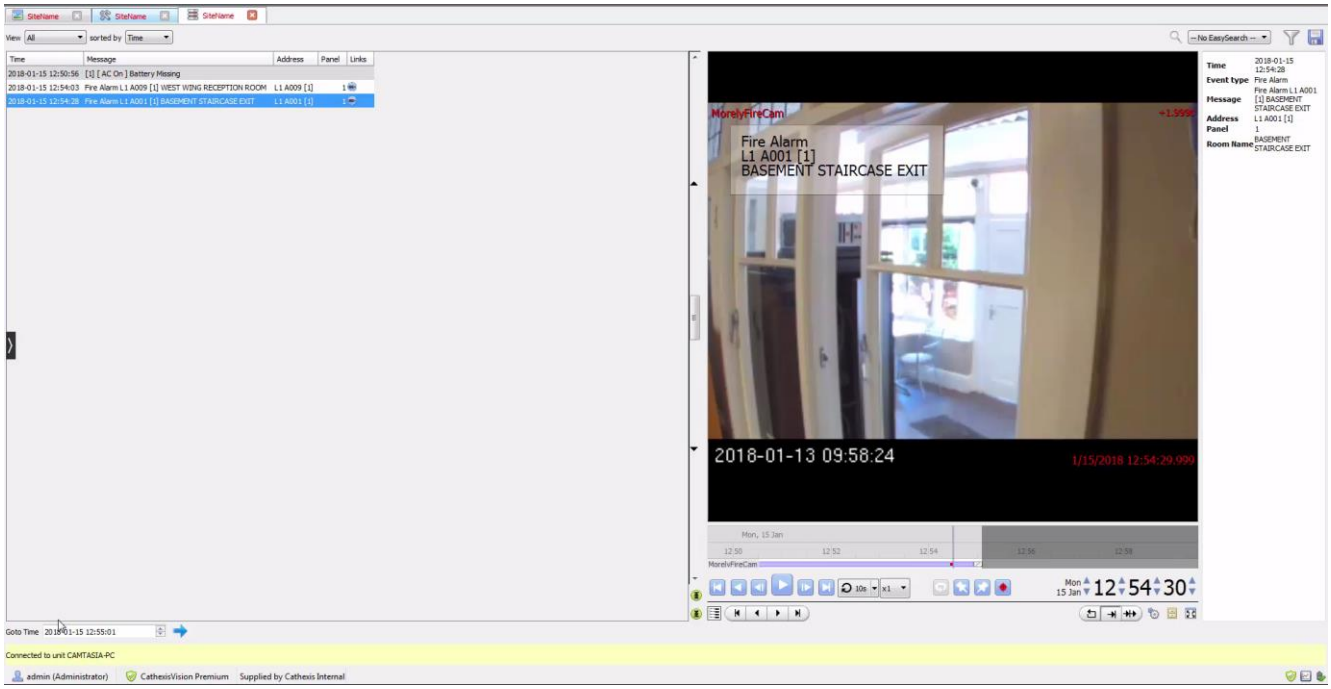
Select the desired overlay and it will appear over the video feed, as above.

5. Database

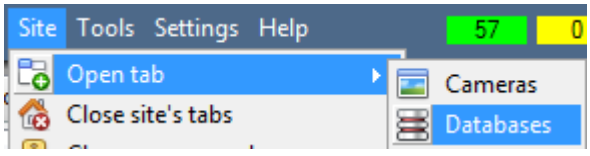
The Database tab allows the user to navigate the databased entries, for each individual database. In the database tab, each database is presented as a table. It has built in filters, and the ability to navigate by timestamp. If a database entry has an associated recording the user can launch this recording, from within the database tab.

Most integrations will have a different database presentation, and unique filters, due to the different parameters sent to CathexisVision by the integrated device.

The integration database is information rich. This is an example of some of the information that is included:

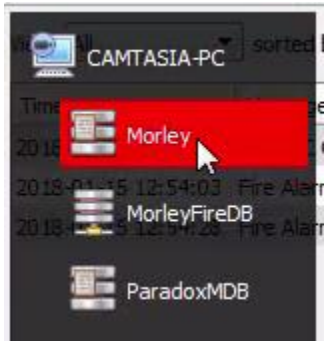


5.1 Navigate to the Database



To view the information stored in the Integration database, follow the path to the left.

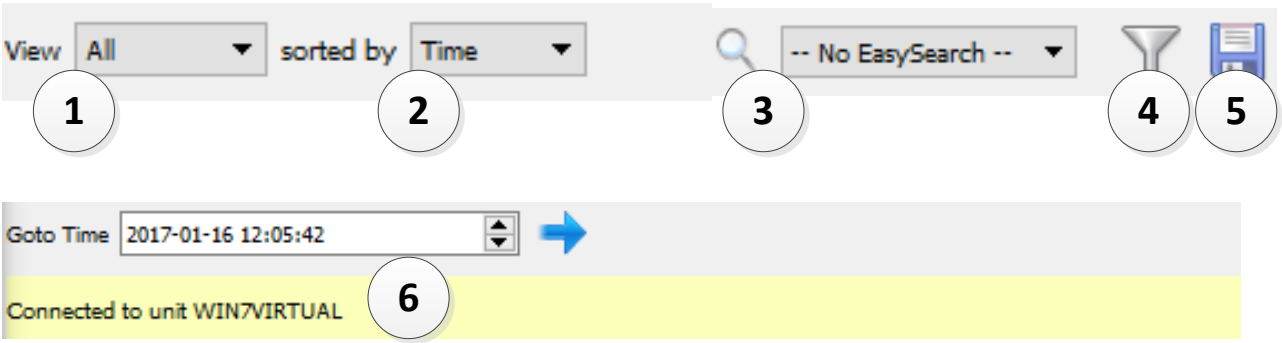
This will open the Databases Tab.

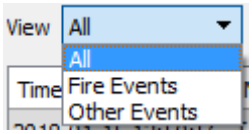
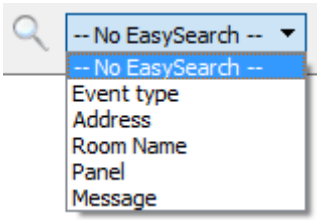
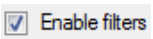
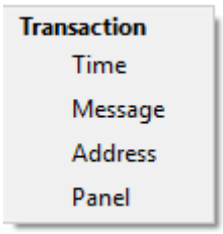


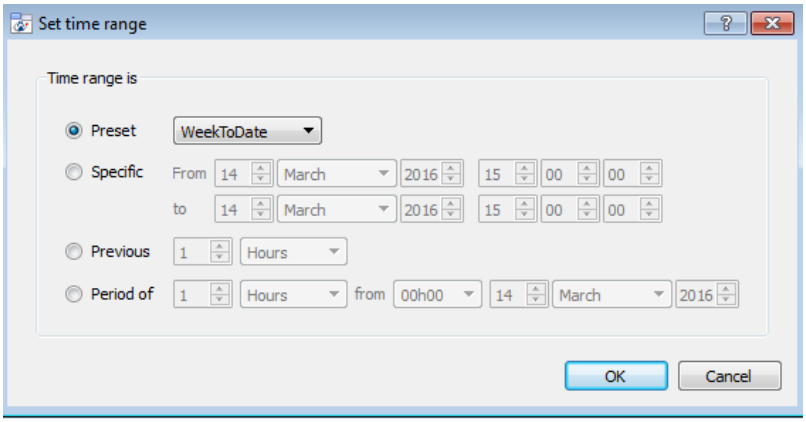
Once in the databases tab, select the relevant integration database. The databases are ordered under the NVRs that they are attached to.

Hover over the arrow on the left-side of the camera image to bring up the database panel on the left.

5.2 Database Interface



① **View**	The way the database is presented may be changed. Some integration databases have multiple view options. The **Morley** database allows viewing by: 
② **Sorted By**	Events may be further sorted based on the following parameters: **Time.**
③ **Easy Search**	The easy search option allows for a quick search of the database within one of the following options: 
④ **Filter** 	Filter offers a more advanced manner of sorting information in the Integration Database table. Once the filters dialogue is open, the following options are available: 1. To **enable** filters check this box:  2. To **add** a new filter click on  . The filter icon  will change to  when filters are active. 3. To **delete** an added filter click on  . **Filter options**:  A **Time range,** within which the search will be conducted, may also be set. To set a **Time range**, click on the blue hyperlinked text which specifies time (e.g., *in the Week to date*).

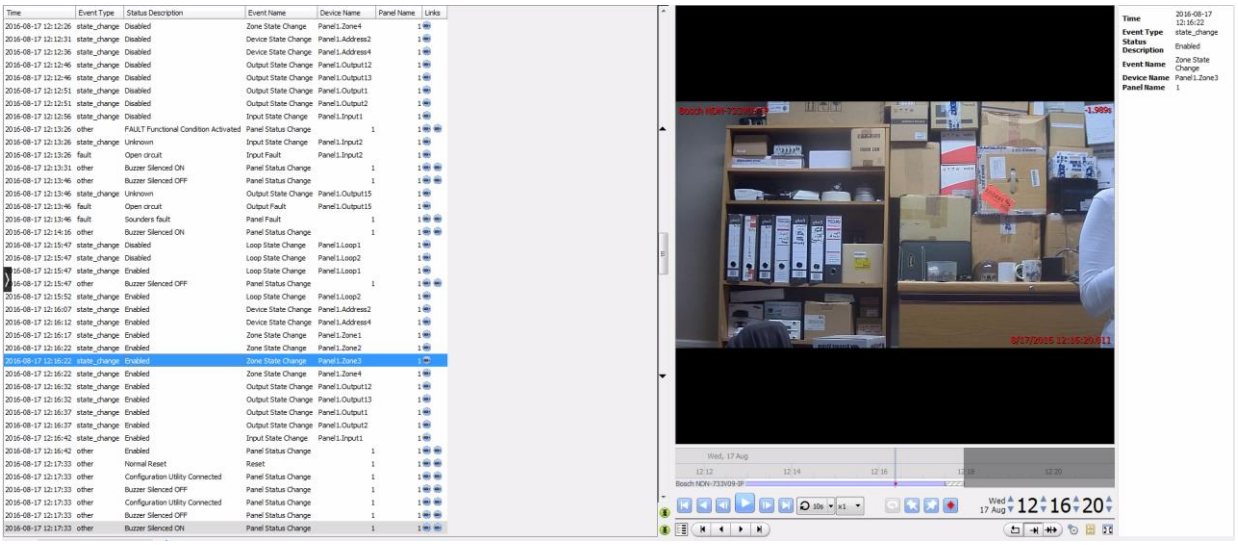
	This will bring up the following dialogue box, where the time range can be defined:  **Note**: 1. Multiple filters may be run simultaneously. Filters with the same perameters may be run more than once. 2. To change a filter click on the blue hyperlinked text.
⑤ **Export**	Generate meta-database reports in **PDF** or **CSV** format. See below.
6 **Go to Time**	This navigates to a specific point in time, down to the second. To navigate to a timestamp set the time using the time and date boxes. Then click on the arrow icon.

5.3 Viewing Recording

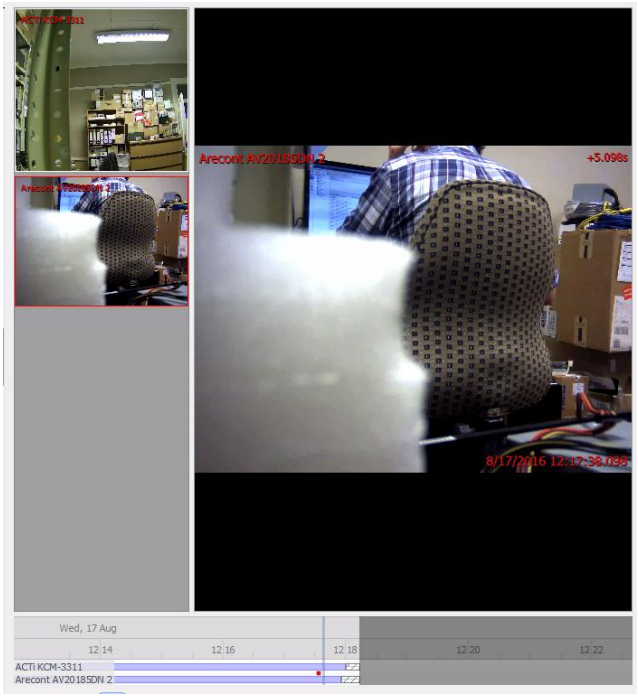
If cameras have been attached to device objects in the Integration setup and if there are available recordings for those cameras, then each Integration database entry will have a corresponding recording.

This integration uses the new video option where the video player is embedded in the database view. This player uses the same timeline features as the CathexisVision cameras tab.

To view an associated recording, simply left-click on a database entry which has the icon in the **Links** column. Then click play in the video player.



5.4 Reviewing Multiple Cameras



If multiple cameras were added to the recorded object during the integration setup, these are displayed on the left of the video player screen as thumbnails.

Select a camera thumbnail to review it.

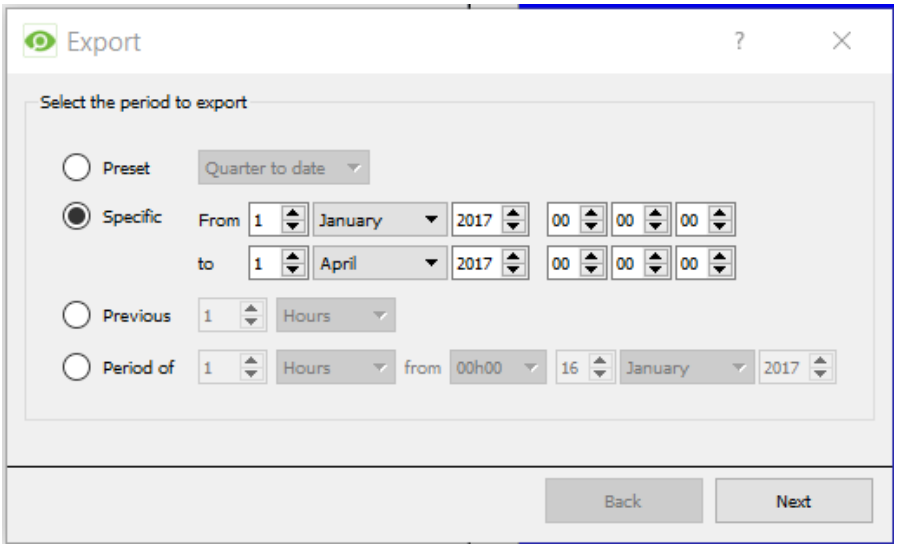
5.5 Device Event Metadata

When a database entry is selected, its event information will be displayed on the right of the video player:

Time	2018-01-15 12:54:28
Event type	Fire Alarm
Message	Fire Alarm L1 A001 [1] BASEMENT STAIRCASE EXIT
Address	L1 A001 [1]
Panel	1
Room Name	BASEMENT STAIRCASE EXIT

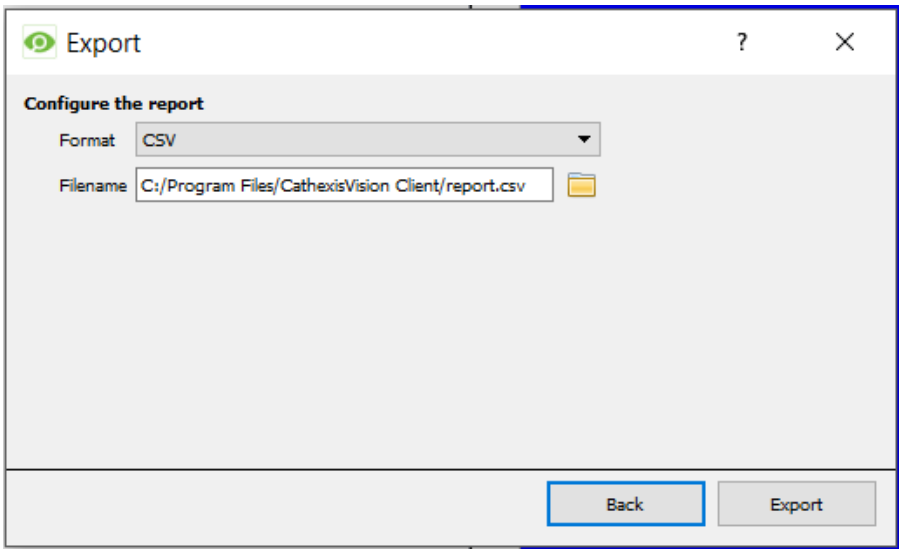
5.6 Generate Meta-Database Reports

Click the save icon to open the Export window.



Select the **Period** to export, and enter the required details.

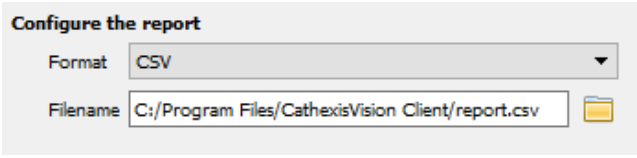
Click **Next**.



Select the **Format** to export the report in; either CSV or PDF.

See below for the two options.

5.6.1 Export CSV

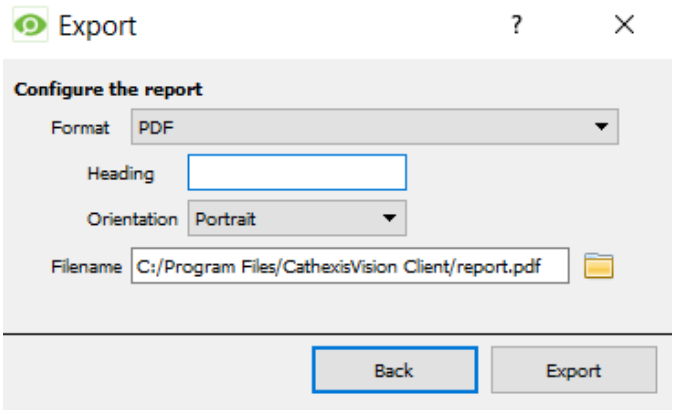


Select CSV **Format**.

Edit the **Filename** by either entering it straight into text field (replacing **report.csv).**

Or, click the folder icon to choose a new **save folder** and **filename**.

5.6.2 Export PDF



Select PDF **Format**.

Give the PDF a **Heading**.

Select either Landscape or Portrait **Orientation** of the PDF.

Edit the **Filename** by either entering it straight into text field (replacing **report.csv).**

Or, click the folder icon to choose a new **save folder** and **filename**.

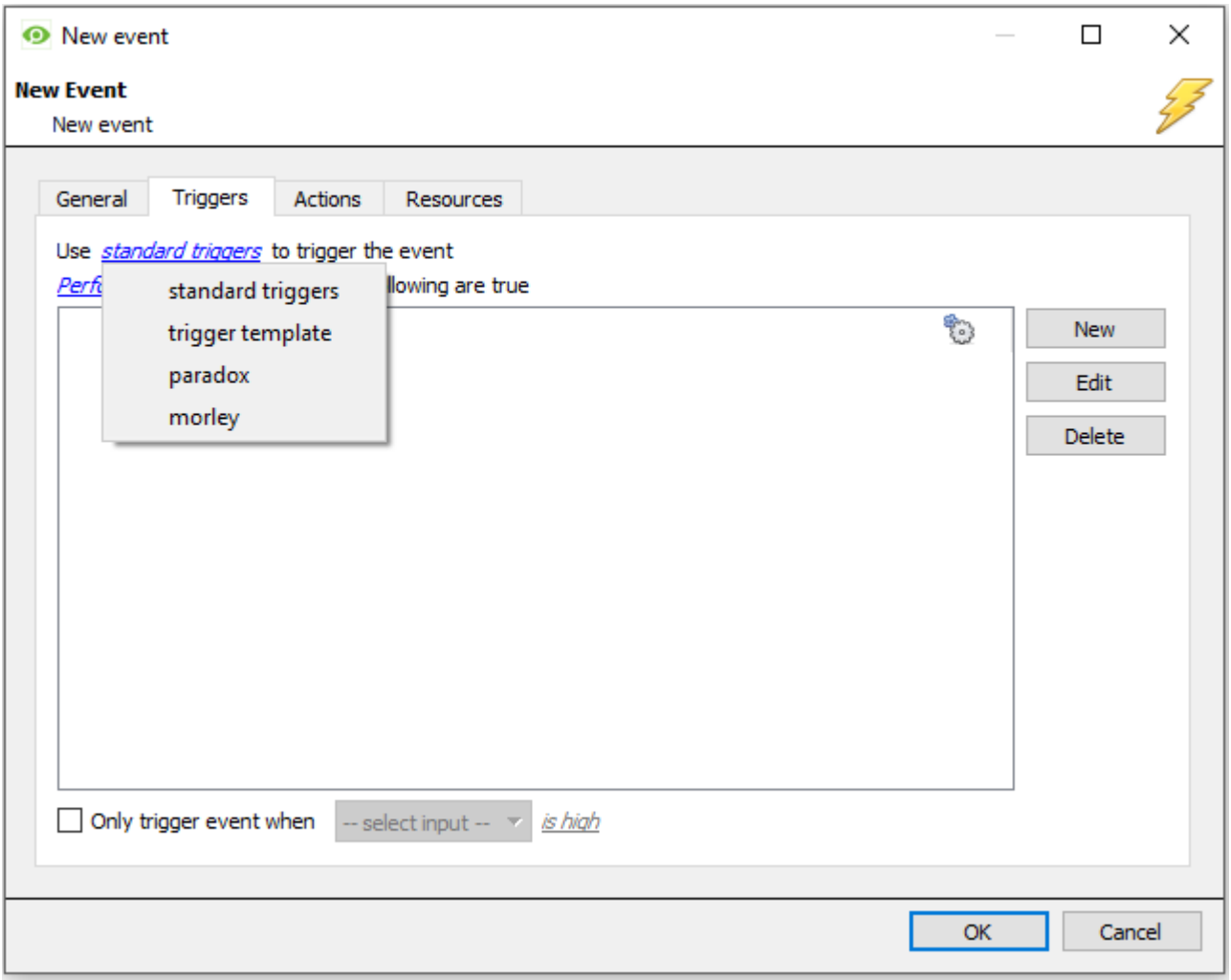
6. Events

A CathexisVision Event has a trigger, which causes an action. Integrated devices may be set to act at triggers, or as actions. This document will detail the Morley specific aspects of Events. There is a comprehensive guide to CathexisVision Events in the main setup manual.

Most of the data that CathexisVision receives from a device is presented in the Events interface. This is done in order to give the user a full range of options. As a result, some of the options presented in the interface may be *impractical* for being used as an event trigger, or action.

6.1 Event Window

Events in CathexisVision are setup via the Event Window. This has 4 tabs. In the **General Tab** an event is given a name, description, schedule, and priority. In the **Triggers Tab** the trigger/s for the event is defined. In the **Actions Tab** the action/s which the event takes is defined. In the **Resources Tab** the various site resources which can be used as part of an event are defined.



6.2 Navigate and Create New Event

To create an event using the Morley device, enter the Events management area:

Once in Events management click on New. This will open up the New Event window.

6.3 Select Trigger Source

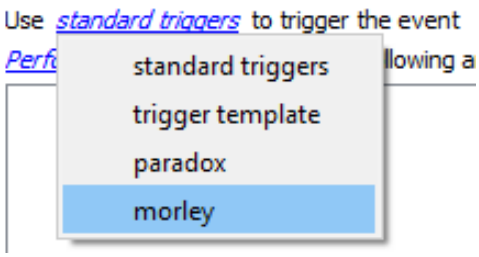
A trigger is the user defined input that tells the event to start. The trigger causes the subsequent action (which the user will also define). A CathexisVision event needs to have a trigger source defined so that it knows where to look for triggers to trigger the event.

An event can use one of three sources of triggers to trigger an event:

1. Standard triggers. This is the default trigger source unless changed.
2. Trigger template. This is created in the new events window. See Setup manual.
3. **Integration device**.

This section will deal with using the integration device as a trigger source to trigger the event.

6.3.1 Set the Device as the Trigger Source



If creating a new event, the trigger source will default to: Use *standard triggers* .

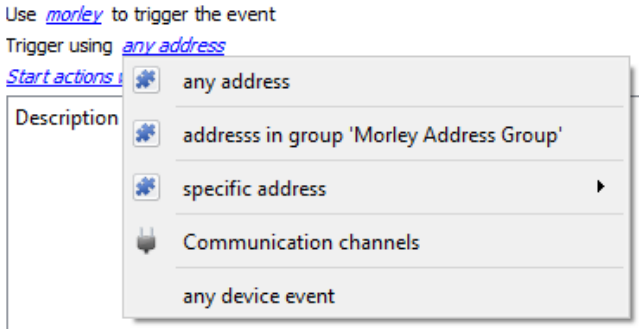
To set the trigger source as the Morley device, click on the hyperlink, and select the relevant device name from the drop-down menu.

6.4 Select Master Trigger

Once the device has been set as the trigger source, a master trigger needs to be selected. A master trigger is selected from the trigger types available within trigger source, and it defines the type of triggers used to trigger the event.

After the integration device has been set as a trigger source, select a master trigger by clicking the hyperlink after Trigger Using.

There are a number of types of master triggers that can be selected:



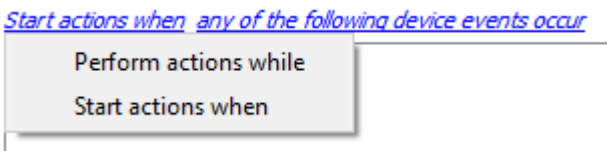
1. **Any 'device object type.'** In this example, the device object type is the address object. Using this as the master trigger will use any address object to trigger the event.
2. **Object in [group].** In this example, any address objects added to the Morley Address Group will be used as the master triggers.
3. **Specific [device object type].** In this example, a specific address object can be used as the master trigger. Using a specific device object will only trigger using the selected object, and will not include events from other device objects.
4. **Communication channels.** The communication channel is set as the master trigger, meaning only events occurring on communication channel objects will be used to trigger events.
5. **Any device event.** Using any device event as a master trigger means that any event that occurs on the device will be used to trigger this event.

Note for group triggers: For the event to be databased under the name of a specific object, and not the name of the triggering group, modify the Description field in the **General Tab** of the Event setup.

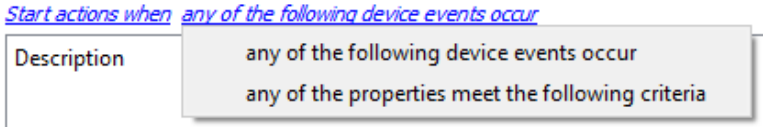
Click on the question mark icon to see a list of available descriptions. Here is an example which send the triggering object's name to the database, for the event:

6.5 Event Conditions

Once the trigger source and master trigger has been selected, conditions for the event must be configured.



Click on the first hyperlink to define if the event will perform actions **while** a trigger is active, or **when** a trigger becomes active.



Click on the second hyperlink to define if the event should perform actions either if any of the device event triggers occur (configured below), or if any of the object properties match the triggers configured.

6.6 New Device Event Trigger

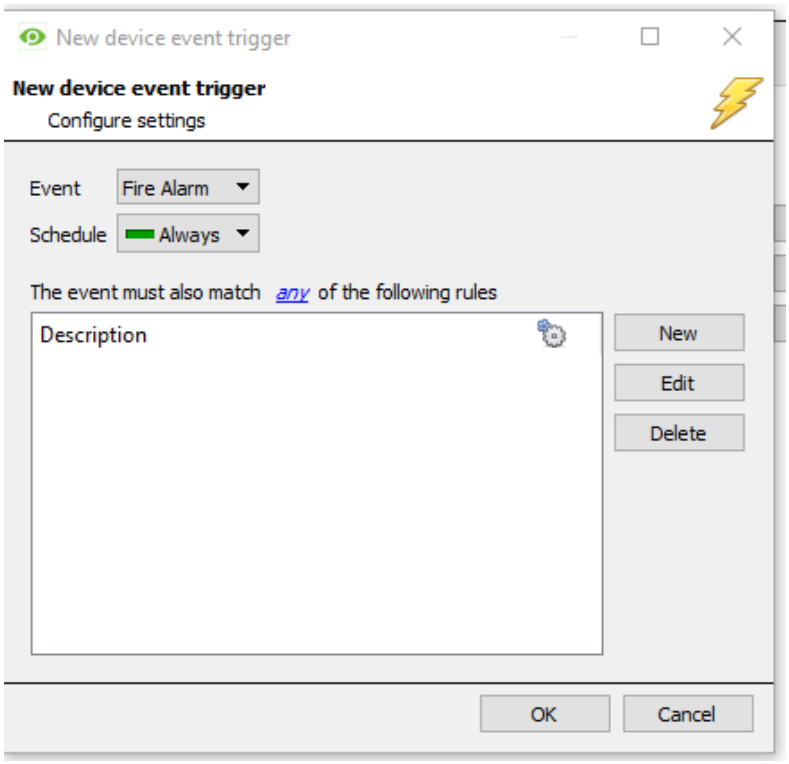
After selecting a master trigger type and setting the conditions for the event, it is time to add device event triggers.

Click on New in the Triggers tab to add a new trigger.

Note:

1. Multiple triggers can be added to an event.
2. Multiple rules can be set to inform a trigger.

This will bring up the dialogue box below.



Choose what type of device Event will be the trigger. The Morley device offers **Fire Events.**

To add/edit/delete rules that will inform the event trigger (a constraint on the device event type being used as a trigger) use the **New, Edit,** and **Delete** buttons on the right-hand side.

Multiple rules may be set to inform a trigger.

Note: If constraints are not defined, every single device event will trigger this event.

6.6.1 Any/All Rules

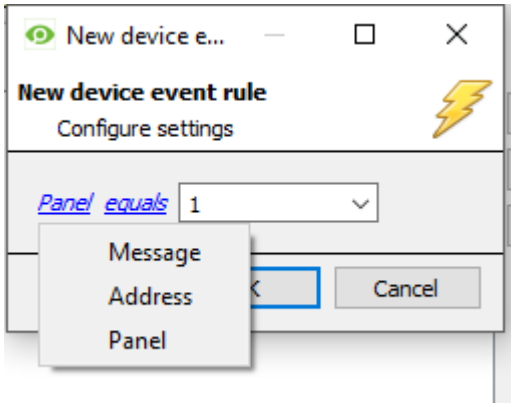
Multiple triggers may be selected, and defined according to whether **all/any** of the triggers need to be active to start an event. Choose if any, or all constraints need to be fulfilled to set off a trigger.

6.7 New Trigger Rule

Rules must be set for the trigger. These are conditions under which the trigger will become active in order to start the event. In the new device event trigger window (above), click **New** to add rules to the trigger.

Note:

1. Multiple rules may be set to inform the trigger.
2. Event rule options may differ according to which trigger source and which master trigger type was selected.

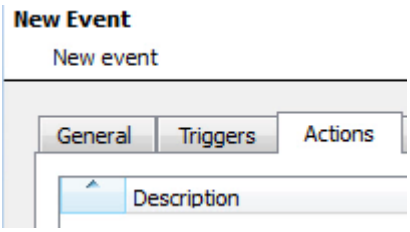


To change the constraint, click on the first hyperlink, this will bring up the full list of available rules.

To modify the way this rule will be treated click on the second hyperlink (*equals* in the example) this will show the rules options.

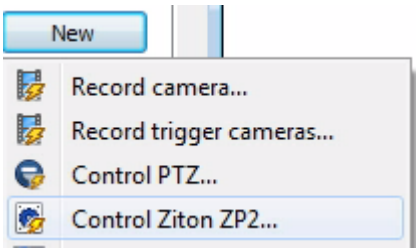
Note: When all available options are known to CathexisVision, a drop-down menu will be available. When these variables are not pre-defined, they will need to be filled in manually. The information pulled through to the events is information sent to CathexisVision from the Morley device, see the Morley settings for the strings needed here.

6.8 Actions



Once the event triggers have been configured, the event needs to be set to perform one or more actions.

6.8.1 New Action



To create a new Event Action, click on New.

6.8.1.1 Control Device

With many integrations, there will be the option to control the integrated device, as one of the actions, however it is not possible to control the Morley device.

7. Maps

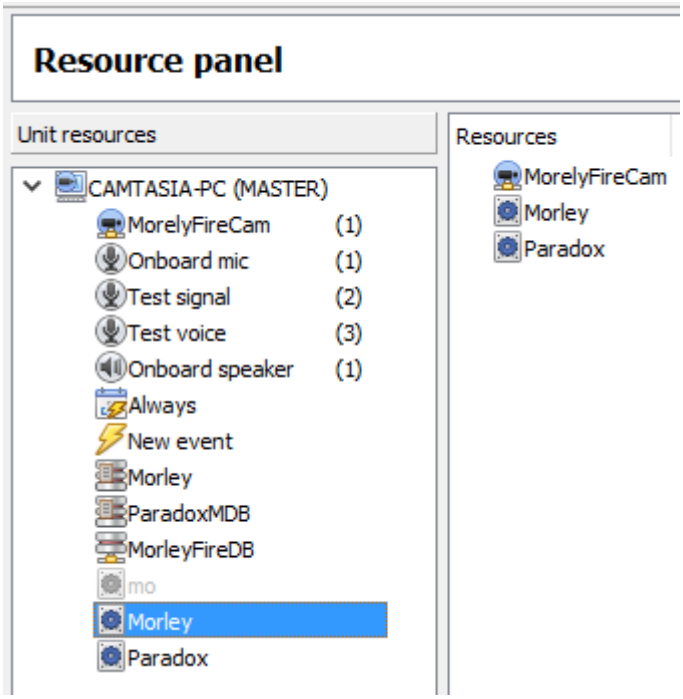
It is possible to add the Morley device to a site map, which will allow for a number of action options when objects are triggered. These options include the animation of triggered zones and connecting to site cameras when zones are triggered, etc.

Note: This section will only deal with the specifics of the Morley device. For more information on using the CathexisVision Map Editor and Map Tab, please consult the dedicated and detailed Map Editor Operation Manual.

7.1 Add the Device as a Resource

To configure the map, the device must be added as a resource to be added to the map.

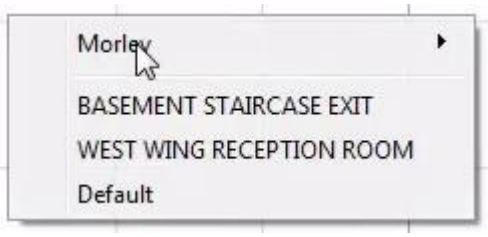
1. Navigate to the **Resource Panel** by following **Site / Open Tab / Setup / Resource Panel.**
2. Drag the device from the **Unit Resources** list into the **Resources** list, on the right.



7.2 Add the Device in Map Editor

Once the Morley device has been added as a **Resource**, it will be available to drag onto the map area from the **Site Resources** list in the Map Editor software.

7.2.1 Adding Device Objects

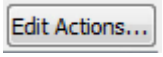


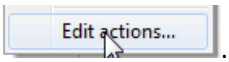
Drag the device from the Site Resources list onto the map area.

Select one of the associated objects.

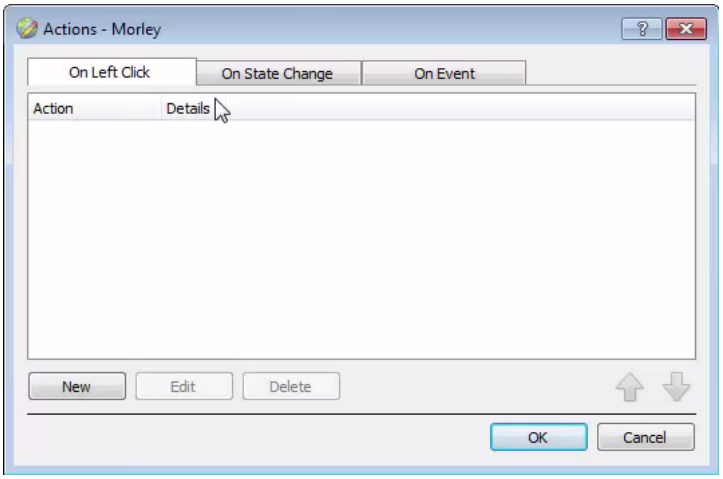
Note: To add multiple objects, repeatedly drag-and-drop the device resource from the Site Resources list onto the map area to bring up this option.

7.2.1.2 Adding Device Actions

To add actions to the device objects, either select the object on the map and click 

or right-click the map object and select 

.



Actions may be set for **Left-Clicks** and **Events**.

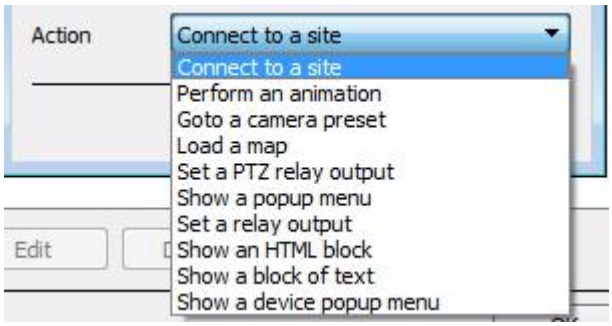
Click the New button in the relevant tab of the action window.

Once set, the list of actions will be displayed here.

Note: Multiple actions may be added to the map objects.

Note: State change action is not supported for Morley device.

Action Options



Action options are the same for all tabs, except for the Device Events Tab, which has the added option to Show a Device Event Notification.

Click **OK** in the Action window once all required actions have been set for the various map objects.

Once finished, save the map.

Important note: The map **must not be saved** in the default folder or Work folder of the installation directory. Instead, create a new directory when saving.

7.3 Map Tab

Upload the saved map to CathexisVision. Once the map is open, all objects added to the map area in the Map Editor will be visible on the map, and all actions set will be available.

8. Conclusion

This app-note was designed to deal specifically with this integration. For further information about the CathexisVision software please consult the main manual (http://cathexisvideo.com/).

For support, please contact support@cat.co.za.