Ipsotek 2 Analytics Integration App-note

7 December 2021

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Cathexis makes a best attempt to ensure that the equipment and license requirements of the third-party equipment are adequately specified. However, it is possible that the requirements of the third-party equipment may change over time, including the interface hardware/firmware and licensing. The reader is urged to clarify the latest requirements directly with the third-party equipment supplier.

1. Introduction

This document will detail the integration of the Ipsotek 2 Analytics suite with the CathexisVision software. Alarms are generated in the Ipsotek 2 Suite and then exported to CathexisVision. Functionally this integration will entail the triggering of standard CathexisVision Events, based on the triggers from the Ipsotek software.

Note:

1. If you need information regarding the regular operation of an Ipsotek device, please consult the relevant Ipsotek documentation.
2. There is a General Integration section in the main ***CathexisVision Manual***. It has important information about creating an integration database, as well as a general introduction to the Integration Panel. **Read over this section**.

1.1 Integration Purpose

The CathexisVision integration of the Ipsotek 2 Analytics Suite allows for local and remote monitoring from within the CathexisVision interface. Alarms will be generated in the Ipsotek 2 Suite and then exported to CathexisVision, including facial recognition detection information and events from the FaceVACS-VideoScan software. All device objects may be linked to cameras, allowing associated footage to be databased according to the configuration of CathexisVision events and alarms which trigger on information received from the device. All messages from the device (even those not configured to trigger a CathexisVision alarm or event) are also databased.

1.2 Requirements

1.2.1 CathexisVision Requirements

- CathexisVision 2018.3 and later.
- Supported for Windows, Ubuntu and Fedora.

1.2.2 Ipsotek Requirements

- The Ipsotek interface will only run on **Internet Explorer**.
- **VIConfigure software Version 10.1.115.1**. This comes with the Ipsotek 2 device, or can be requested directly from the manufacturer.
- **FACEVACS-Video Scan software**. Ipsotek software uses the FACEVACS-VideoScan engine to perform facial recognition.

Note:

1. For information regarding the regular operation of a Ipsotek device, please consult the relevant documentation.

2. There is a General Integration section in the main ***CathexisVision Manual***. It has important information about creating an integration database, as well as a general introduction to the Integration Panel. **Read over this section.**

1.2.3 License Requirements

License	Name	Description
CIPT -2000	Ipsotek v10 device license	This licenses the Ipsotek v10 device in CathexisVision. This license is the "base" license to integrate with the analytics system. It is applied to the server to which the analytics device is connected. It will allow for the connection of a single Ipsotek v10 device.
CIPT-1001	Ipsotek v10 camera license	This licenses a single camera for use with the Ipsotek v10 integration in CathexisVision. These licenses apply to the cameras in the analytics system. The CIPT-1001 will license a single camera, and may be added on a camera-by-camera basis.

Note: In this integration, individual devices will each require a license and for each connected camera.

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.

1.3 Integration Components and Features

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.

1.4 Integration Features

- CathexisVision communicates with the Ipsotek 2 software via TCP.
- Device message types are Alarm and Camera status events.
- Camera objects support overlays which display zone state, partition state and the zone name.
- Device object events can be used to trigger CathexisVision system events.
- Facial recognition detection information and events received by CathexisVision once FaceVACS-VideoScan software is running (no specific setup needed for communication).

1.4.1 Device Objects

- This integration has Camera, Device and Communication Channel.
- Device objects are automatically created as soon as communication between the CathexisVision unit and device is established.
- Camera objects are created once CathexisVision receives information from the relevant cameras (configured in Ipsotek software).
- Camera objects support overlays.
- Objects may be linked to cameras to associate device events with video footage.

Object Type		Abilities
Camera	**Object Properties**	Following object properties are indicated in CathexisVision: • Name. • Camera number. • Device IP. • VI Host IP. • Description. • Preset. • Enabled. • In alarm. • State. • Licensed.
	States	• Alarm. • Disabled. • Enabled.
	Overlays	• Ipsotek 2 overlays pulled through. • Overlays display Ipsotek 2 analytics and/or snapshot of Ipsotek 2 camera event-related information. • Overlay location, text size, text colour and background colour are configurable.
Device	**Object Properties**	Following object properties are indicated in CathexisVision:

	• Name. • IP. • State.
States	• Alarm. • Offline. • Online. • Possibly Rebooting.

1.4.2 Device Events

Event Element	Features/Abilities
General	• Events triggered on the device are sent to CathexisVision. • Device event types are Alarm and Camera Status.

1.4.3 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. • 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	• Alarm. • Camera Status.
Sort Options	• Device event time.
Easy Search	• Camera. • Name. • Priority.
Filter	• Time. • Camera. • Name. • Priority.
Export	Database entries may be exported in CSV and PDF format.

1.4.4 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. The table below highlights some features.

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. • Show a device event notification.

2. Ipsotek Setup

The Ipsotek device (software) needs to be set up to communicate with the CathexisVision software. Below is a brief guide to do this. For further information or more detailed instruction, please consult the manufacturer.

2.1 FACEVACS-VideoScan Facial Recognition

FaceVACS-VideoScan is a facial recognition software developed by Cognitec who are partnered with Ipsotek. If FaceVACS-VideoScan software is set up, CathexisVision will be able to receive facial recognition detection information and events.

No specific setup is required for communication between FaceVACS-VideoScan and CathexisVision.

2.2 Open and Login to VIConfigure

To open VIConfigure: **Open Service Manager** / Right-click on **VHost** / **Configure**.

Unless otherwise configured, the default username and password for VIConfigure:

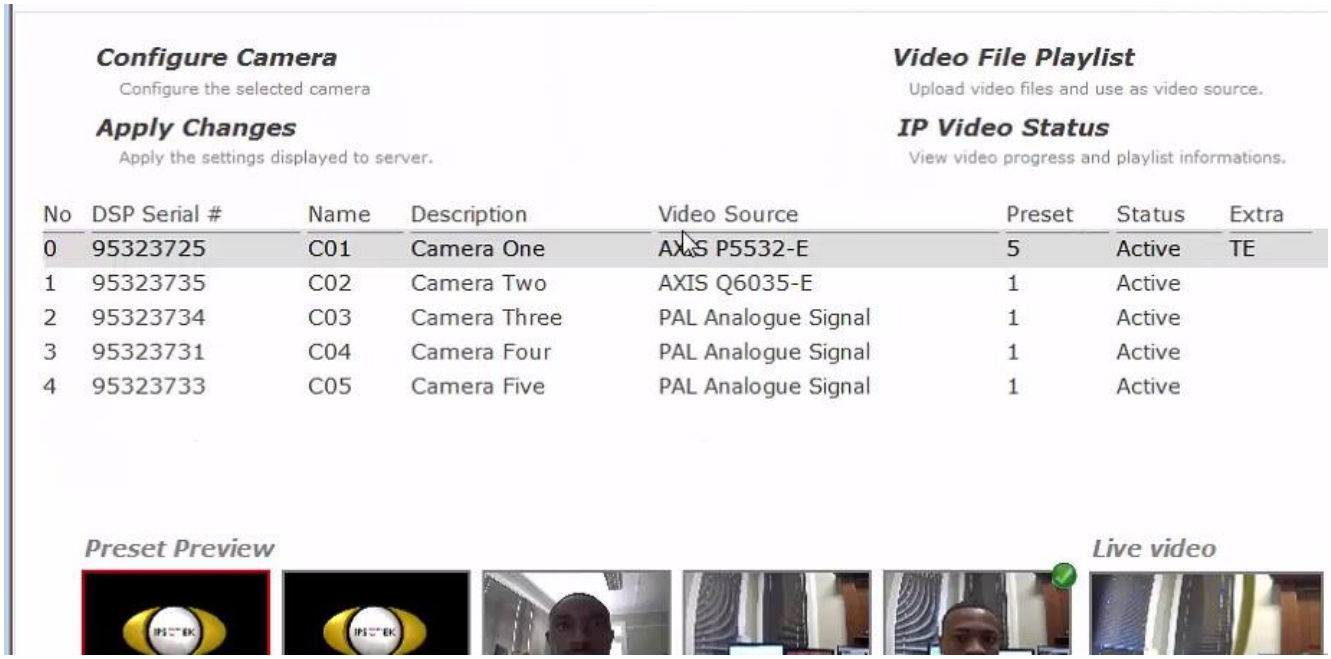
Username: admin
Password: admin

2.3 Add Cameras and Configure Analytics Rules

In the VIConfigure Software, open the Cameras and Presets page by clicking on the camera icon.

Here, configure cameras and the associated analytics rules which will be sent to CathexisVision. Consult Ipsotek documentation for information on configuring cameras and analytics rules.

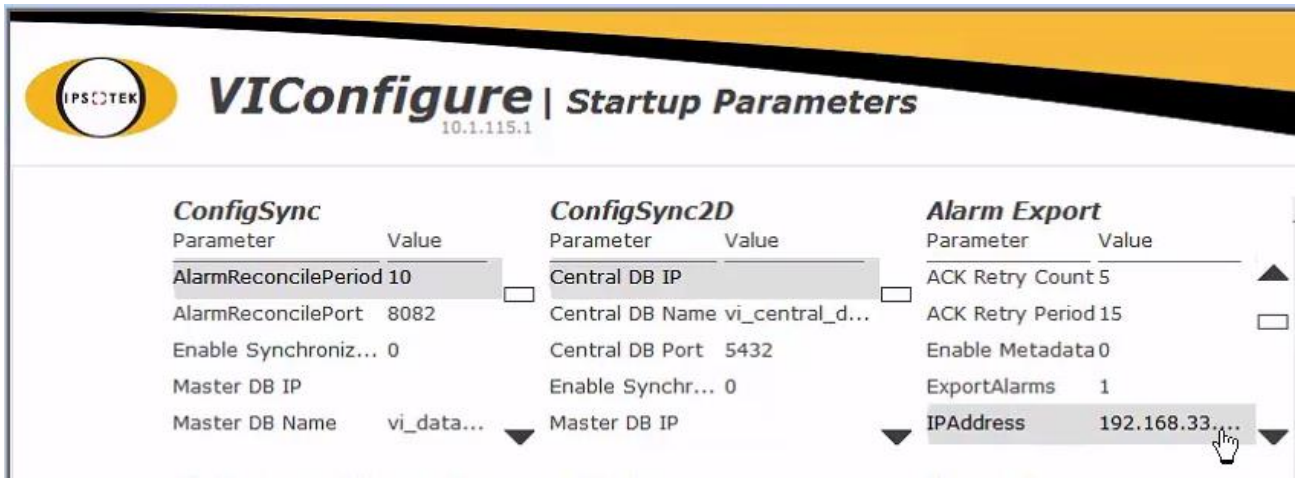
Note: Once cameras are added here and information is retrieved by CathexisVision, camera objects will populate automatically. If they do not appear, then cameras will need to be enabled and re-enabled in the VIConfigure software. For more help, consult manufacturer.



2.4 Alarm Export

Alarm information from the Ipsotek system needs to be exported to CathexisVision. This is done in the VIConfigure software, where the IP address of the CathexisVision unit must be defined.

In VIConfigure, navigate to: **Server Management** / **Startup Parameters**.



Under **Alarm Export** (top right), click the down-arrow to locate the IP address field and Port Number fields.

1. Enter the **IP address** of the CathexisVision server to which you will be adding your Ipsotek device.
2. Set the **port number**.
   Note: the same number must be entered when adding the Ipsotek device to CathexisVision.

After this, click on **Done** at the bottom of the page.

2.5 Reboot Server

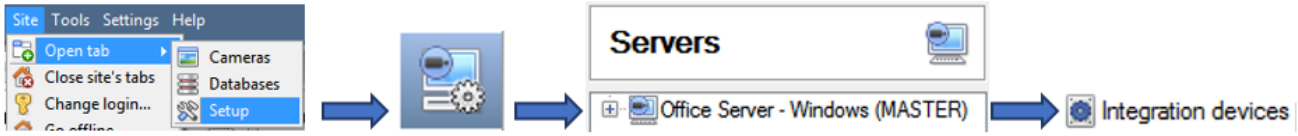
The VIConfigure software will return to the Server Settings window. Click **Reboot** (bottom right). Click Yes when prompted to continue.

Close the VIExplore software and open CathexisVision.

3. Device Addition and Configuration

3.1 Integrations Devices Panel in CathexisVision

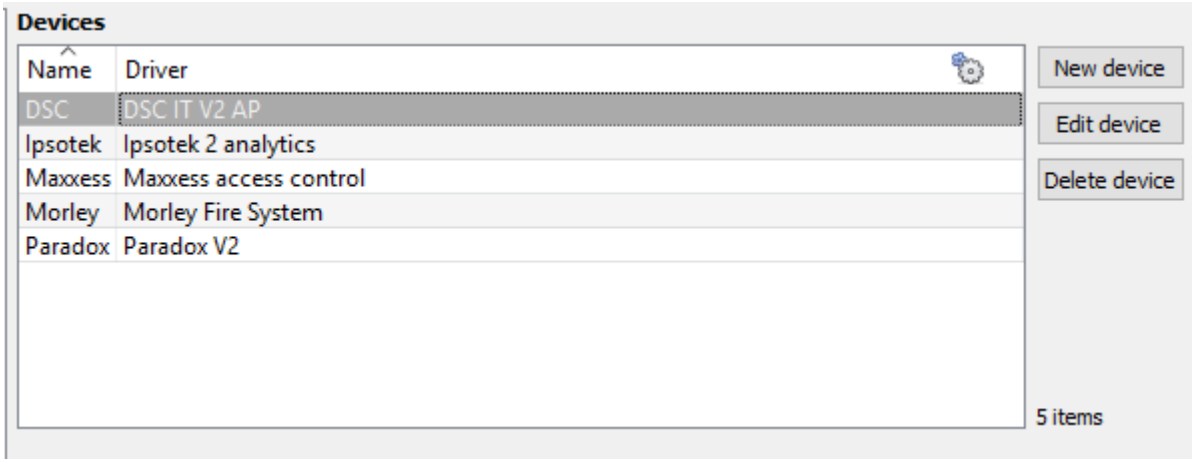
CathexisVision integrations are managed in the Integration Devices panel, under the Setup Tab of the servers to which they are added. To get to the Integration Panel follow this path:



There are two sections in the Integration Panel:

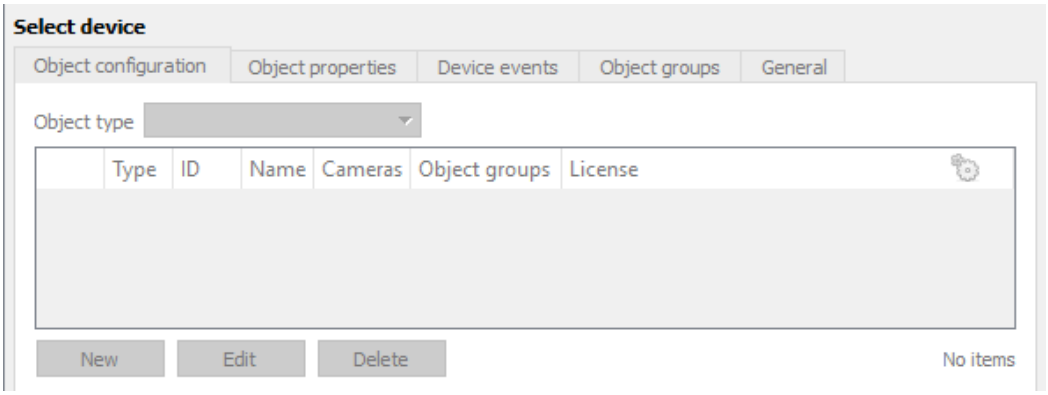
3.1.1 Devices List

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



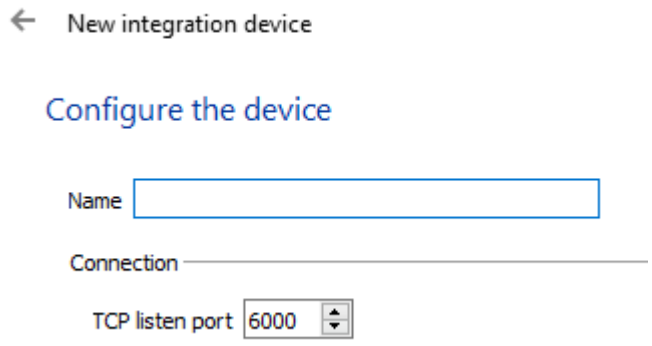
3.1.2 Configuration Section

The **Configuration** section enables the user to edit or review the device selected in the **devices** section.



3.2 Add Device

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



Give the device a descriptive **name.**

Set the **TCP listen port**.

Note: Make sure that the TCP port number entered here is identical to the port number entered under in the Ipsotek VIConfigure software under **Server Management → Configure Startup Parameters → Alarm Export → Port No**. This was described in the previous section.

Click **Finish** when done.

4. Configuration the Device in CathexisVision

Now that the device has been added to the CathexisVision system, it needs to be configured. As in the section above, these configurations take place in the Integrations Panel of Configure Servers in the Setup Tab.

Select the relevant device from the devices list.

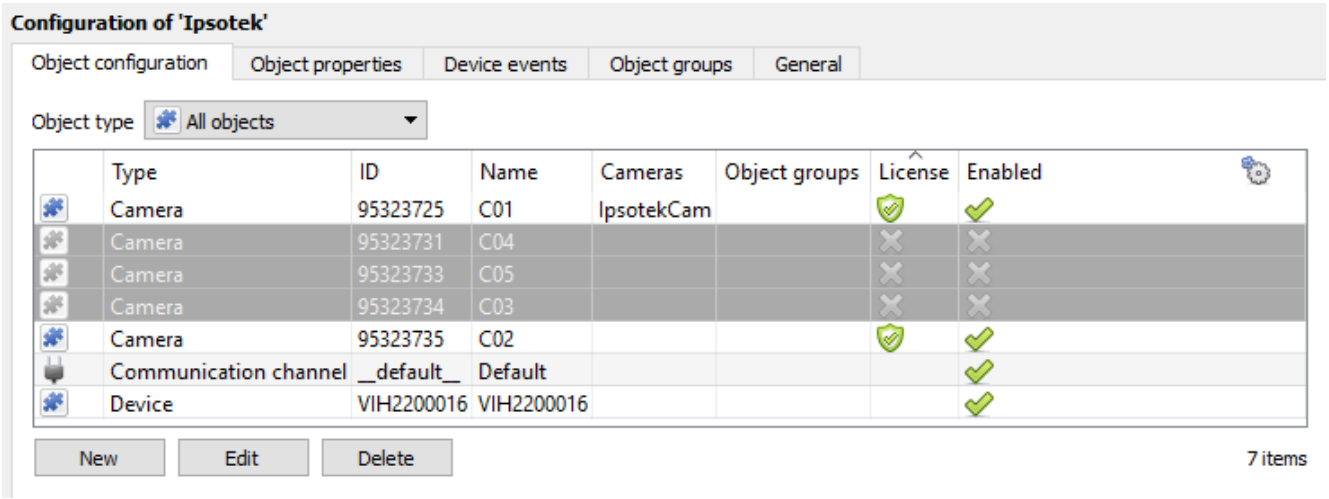
The configuration section is divided up into a number of tabs. These tabs are: **Object configuration, Object properties, Device events, Groups,** and **General.**

Note: Camera objects will populate once they have sent information to CathexisVision. If they are not present after adding them you will need to disable and re-enable them in the Ipsotek software. This is done by going:

VIConfigure → Cameras and Presets → **Right-click** on a selected camera and **toggle** the status between enabled and disabled.

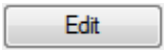
4.1 Object Configuration Tab

The object configuration tab is the tab where you may view all the individual objects that comprise the integration. The Ipsotek 2 integration objects are **Camera**, **Device** and **Communication Channel**.



4.1.1 Object Configuration Buttons

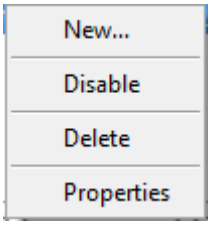
Add a new object.



Change an existing object.

Remove an existing object.

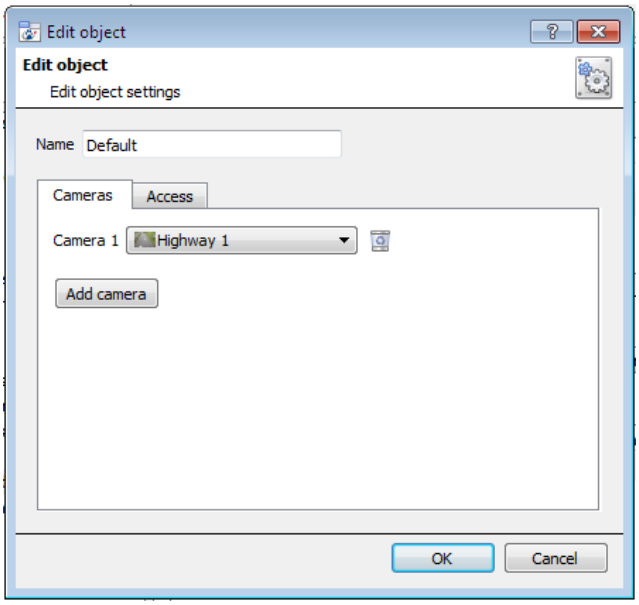
4.1.2 Object Configuration Right-click Options



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

Note: One license is required per camera object, which is created automatically when a camera is configured in the VIConfigure software and CathexisVision receives this information. For this reason, there is an additional **right-click option** for **camera objects** to prioritise existing licenses for certain panels.

4.1.2.1 Properties: Cameras



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.

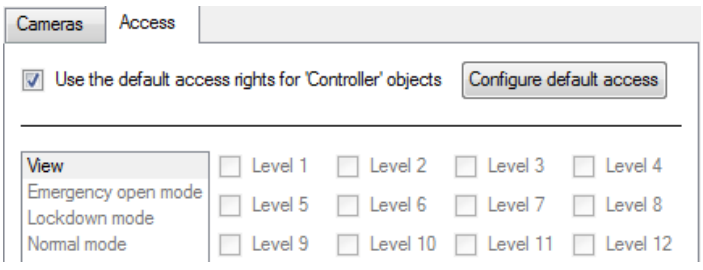
To add a camera, click on "Add Camera", and select the relevant camera from the drop-down menu.

To delete a camera, click the trash icon.

Note: While you can add multiple cameras here, only the first camera added with the object will be linked in the integration database.

Note: If you do not have ***continuous recording*** setup, on associated cameras, you will run the risk of Ipsotek objects triggering while the cameras are not recording. To only record cameras, when an object triggers, you will need to setup **Events** that trigger a recording, when one of these objects is activated.

4.1.2.2 Properties: Access



Access allows you to protect sensitive objects, by only allowing certain user levels access to them.

You will see a list of objects, whose access level you may set.

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

4.1.3 Configure Overlays

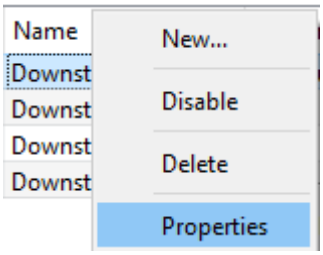
Overlays are supported for Camera objects in CathexisVision and can display **Analytics and Snap shot overlays.** Information is pulled from the Ipsotek device and overlayed on the relevant camera.

Overlays can be configured globally for **all Camera objects**, or they may be configured for a single Camera object. See below for how to open the overlay configuration window for global or specific overlay configuration. Thereafter, the overlay configuration window (for both analytics and snap shot overlays) looks the same for both options.

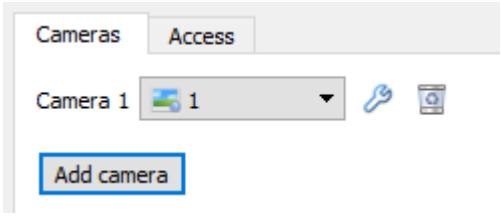
4.1.3.1 Configure Global Overlays

Select the object from the Object type drop-down menu and click the Overlay Settings icon . The settings configured here will be applied to all Camera Objects.

4.1.3.2 Configure Overlays for Single Object



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



Add a camera to the object.

Then click the settings icon that appears next to the camera name.

Note: This option only appears for Camera objects.

Untick Use defaults to configure overlays specific to this object only.

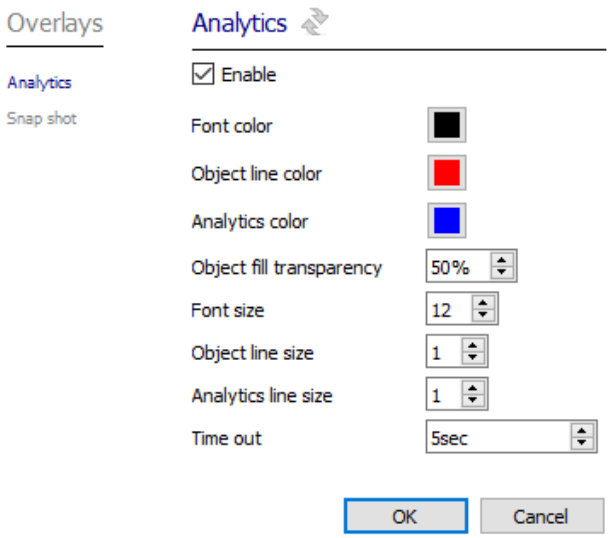
4.1.3.3 Overlay Configuration Window

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

The Overlay configuration window has two sections; Analytics and Snap shot. These will be dealt with below.

Analytics Overlay

Configure Analytics overlays to overlay Ipsotek analytics over the camera in CathexisVision.



Select the Analytics tab on the left of the window. Click **Enable** to enable overlays.

Choose **Font/Object line/analytics colour** of the overlay.

Clicking the colour block will open a colour chart.

Enter the **Object fill transparency** percentage.

Set a **Font Size**.

Set an **Object Line Size**.

Set an **Analytics line size**.

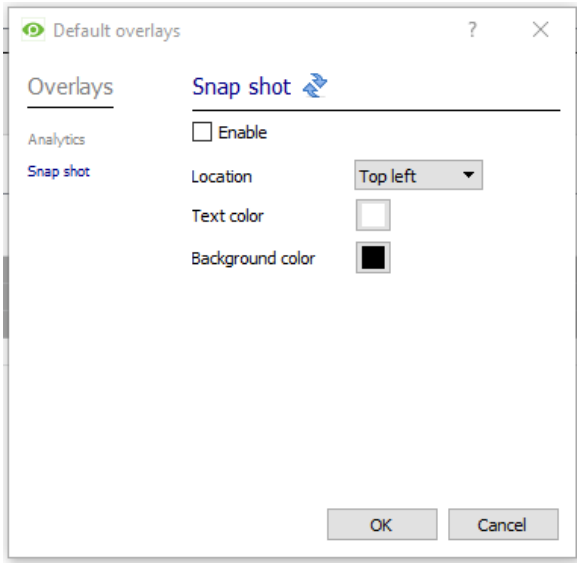
Set a time (in seconds) after which the **overlay will time-out**.

Move to **Snap Shot** tab or click **OK** if done.

To see the way this overlay looks on the camera, consult the **Camera Tab Overlay Setup** section.

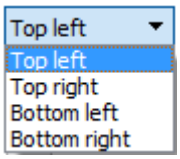
Snap Shot Overlay

Configure snap shot overlays to overlay event-related snapshots on the CathexisVision camera associated with the Ipsotek camera object/s.



Select the Snap shot tab on the left of the window. Click **Enable** to enable overlays.

Select the **Location** of the overlay:



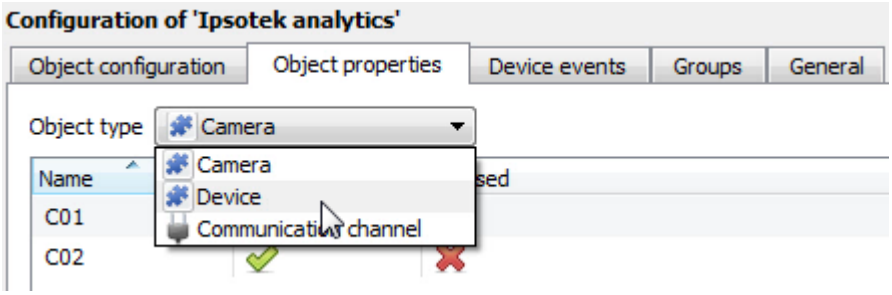
Choose the **Text Color** of the overlay text.

Clicking the colour block will open a color chart.

Choose the **Background colour** of the overlay.

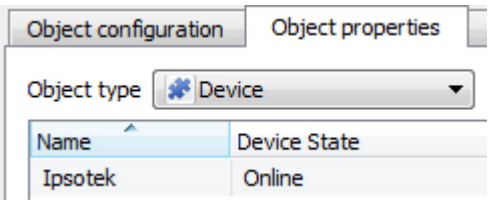
Clicking the colour block will open a colour chart.

4.2 Objects Properties Tab



The Object properties tab allows you to view the objects, sorted by type. In the case of the Ipsotek device you will have the options of viewing by **Camera, Device,** or **Communication Channel.**

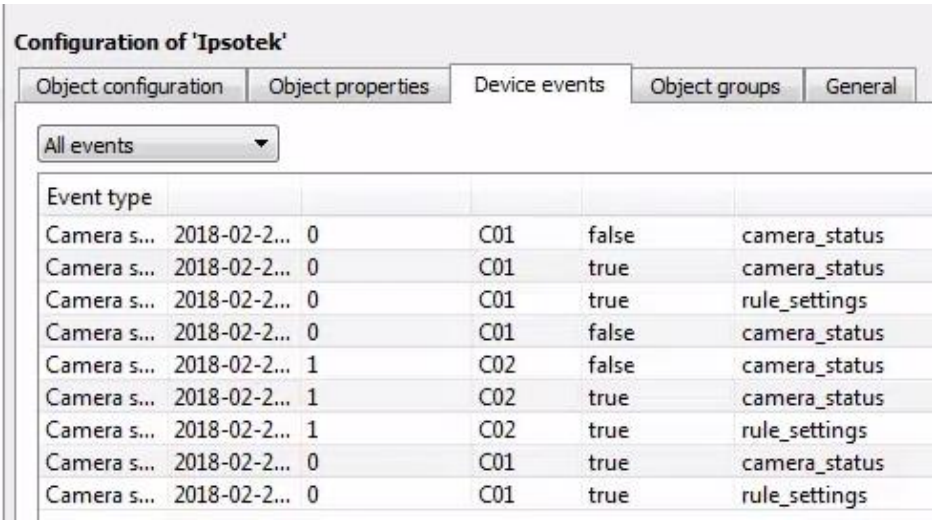
4.2.1 Device Heartbeat Monitoring



If CathexisVision loses connection to an Ipsotek device, the **Device State** will change from **Online**, to **Possibly Rebooting.** If the device stays disconnected the state will change to **Offline**. The user will need to check on this device, or reboot it manually to get the connection back up.

Note: This will only be present in CathexisVision 2015.3 and onwards.

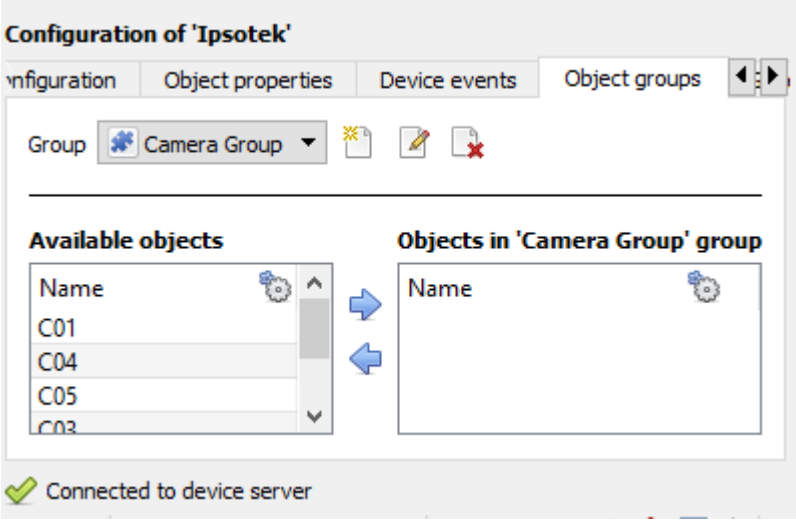
4.3 Device Events Tab



This will list real time events happening on this device. It is an excellent way for installers to see that the integration is functioning, and to monitor the live events happening on site. Ipsotek provides two types of event: **Alarm** and **Camera Status.**

Note: **Camera status events** will be sent through automatically. **Alarm events** are those sent through by the Ipsotek device. These are Ipsotek alarms, and will need to be setup by the user, using the Ipsotek software.

4.4 Object Groups Tab

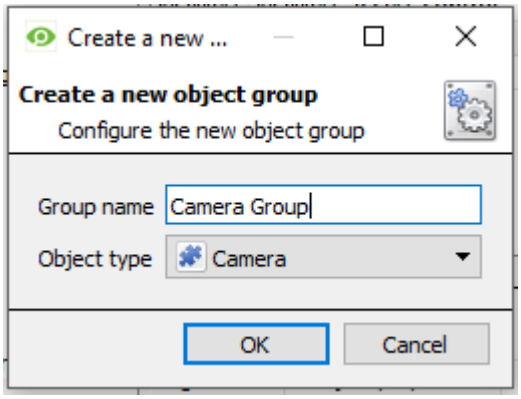


You can create groups of the same type of object.

Tip: This is very useful when setting up Events, because events can be triggered by an object group.

E.G. A group will trigger, if any of the PIRs in that group is triggered.

4.4.1 Create a Group

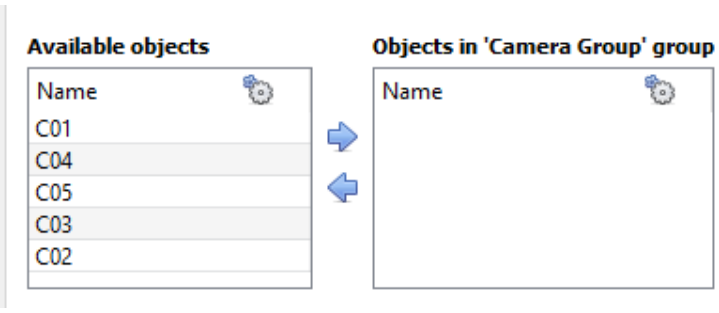


To create/edit a group click on / .

Note: Once a group has been created, you may not edit the object type of the group.

Select what **object type** to include in the group.
Give the group a descriptive **Group name.**

Click on the drop-down menu to select the **object type** that you would like to group.



You will then see a list of Available Objects.

To add/remove these objects to the group select the items and click on / .

Multiple items may be selected at one time.

4.5 General Tab

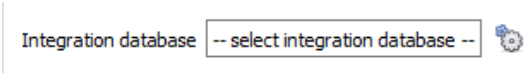
The General tab deals with creating the integration database and configuring any general settings applicable to the integration.

4.5.1 Integration Database

Here, the user will either be able to select an existing database or create a new one.

Important Note: Without setting up/adding a database, the integration will not function properly within the CathexisVision system.

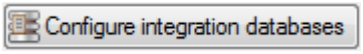
4.5.1.1 Select an Existing Integration Database



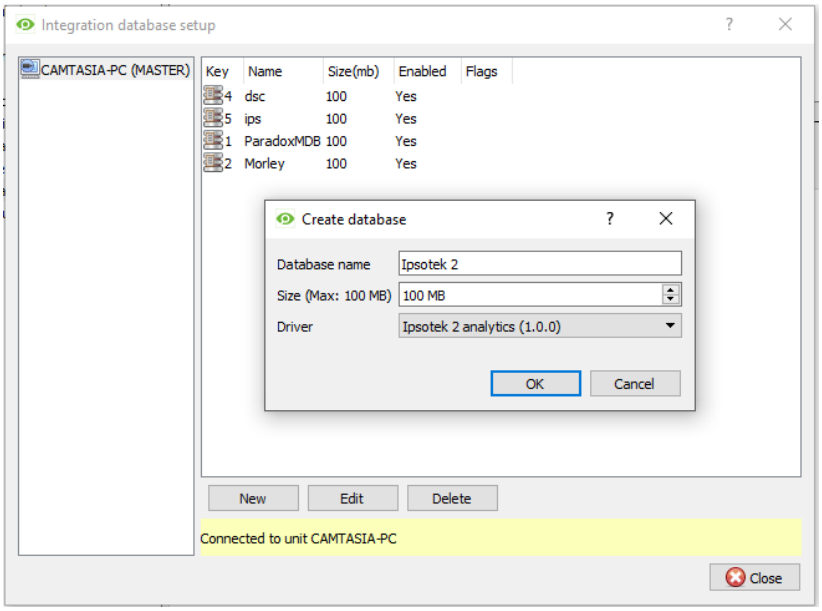
To select a database, click on the settings icon and select the relevant database.

Only databases which relate to the device should appear.

4.5.1.2 Configure a New Database



If there is no database created yet, clicking on this button will take open the integration database setup.
Click **New** to create a database.



Give the database a **Name**.

Select the **Size** of the database. The max is 1000MB.

Select the **Ipsotek 2 Analytics** driver.

Click **OK** when done.

Select the newly created database by clicking the settings icon and selecting it from the drop-down menu.

Note: The information on setting up an integration database may be found in the **Integration Devices General Settings** section of the CathexisVision Setup Manual.

4.5.2 General Settings

The General Settings button does not apply to the Ipsotek 2 integration.

5. Camera Tab Overlay Setup

Once all the relevant settings have been configured, the camera object overlays can be pulled through over the relevant camera feed.

Note:

- Cameras must have already been added to the objects and overlays must be configured/enabled.
- Overlays are configured in the Integrations Panel of the Configure Servers section of the Setup Tab.

5.1 Overlay Display Details

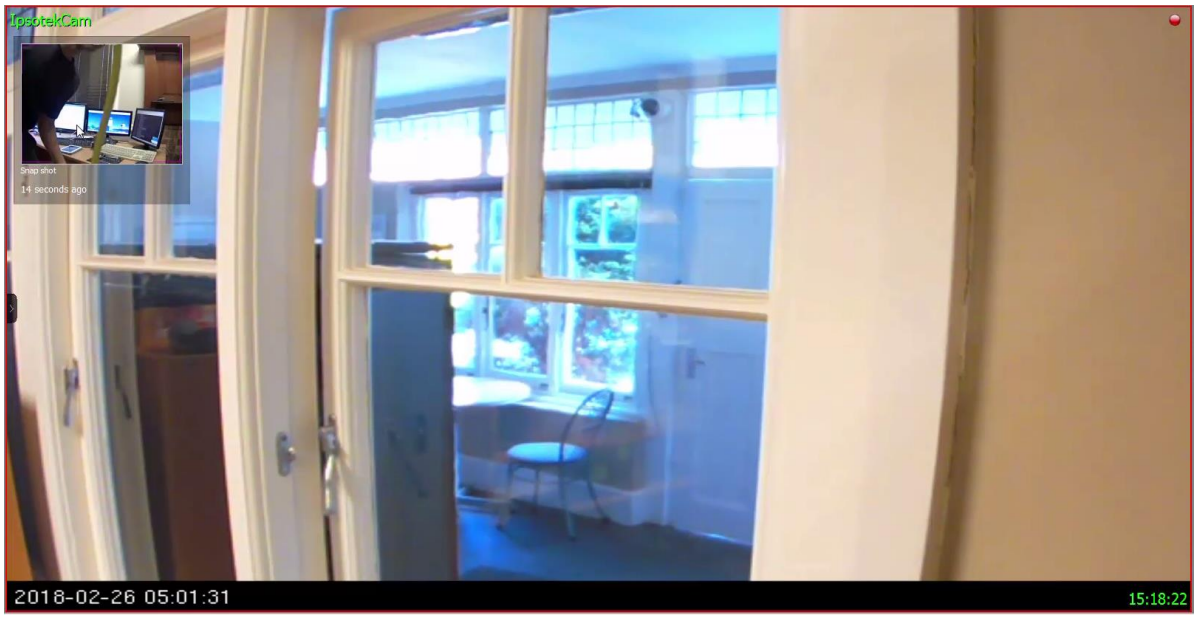
Overlays are supported for zone objects and will display Zone state, Partition state and Zone name. The **location, text colour and background colour** of the overlay can be configured for all overlays, or individual overlays. The **time for which overlays are displayed** (before disappearing) can be configured/changed by editing the zone object/s.

5.1.1 Overlay Options

Overlay information is received from the Ipsotek device. The Ipsotek integration supports two overlay options; analytics and event-related snapshots. Below are examples of these overlays.

5.1.1.1 Analytics Overlay

5.1.1.2 Snap Shot Overlay



5.2 Bring up Overlay

To bring up the **overlay**, **click the arrow** to the left of the screen. This will pop out the **Video feed options** panel.

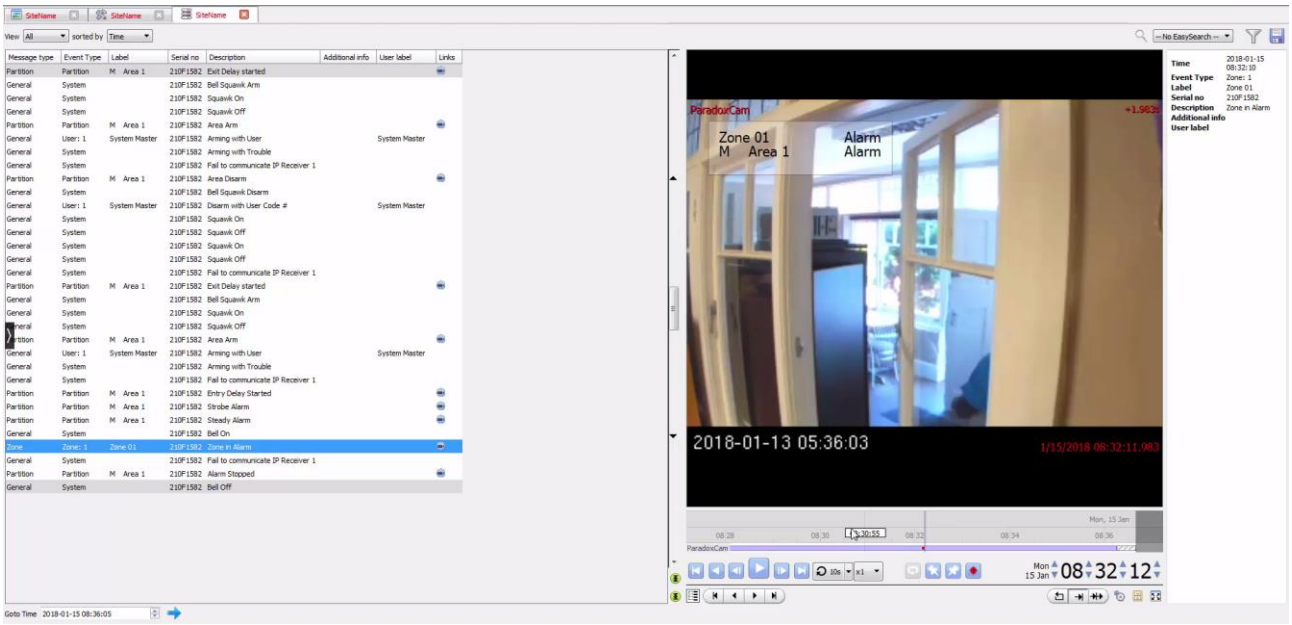
Once popped out, the Video feed options panel will present a number of options specific to the settings configured for that video feed.

5.2.1 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.

6. Database

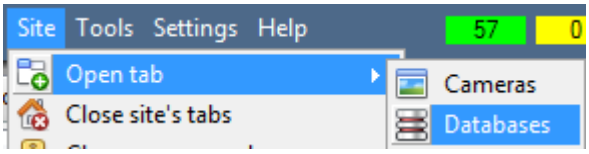


The database tab will allow the user to navigate the records in each individual database. In the database tab, each database is presented as a table. It has built in filters, and the ability to navigate by timestamp. If a database record has an associated recording, the user will also be able to launch this recording, from within the database tab.

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

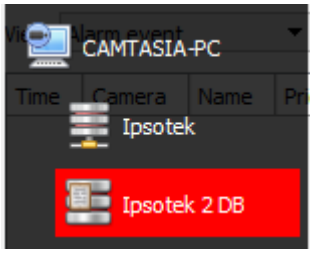
Most integrations will have a different database presentation, and unique filters, due to the different parameters sent to CathexisVision by the integrated device.

6.1 Navigate to the Database



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

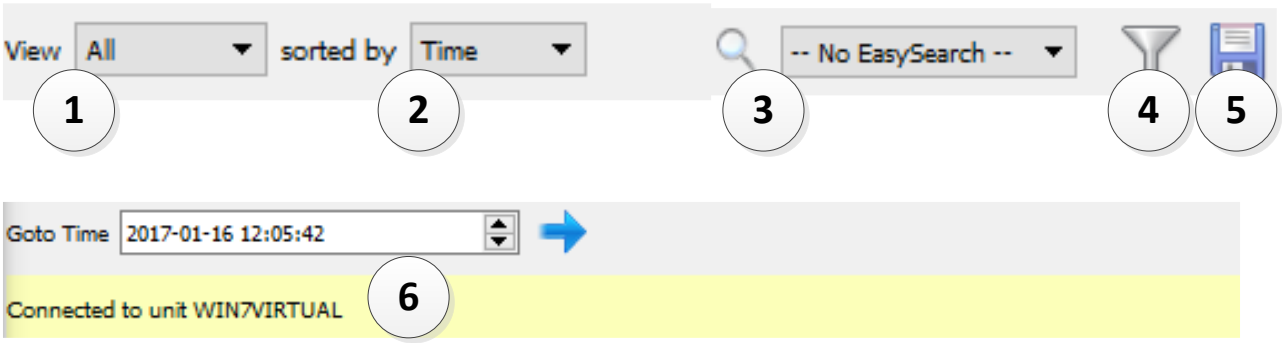
This will open the **Databases** Tab.

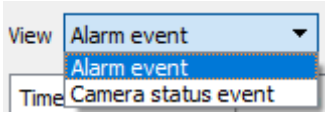
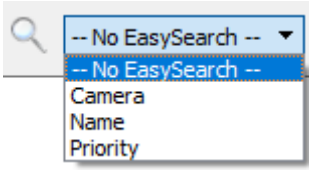
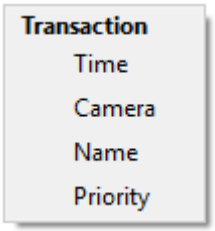


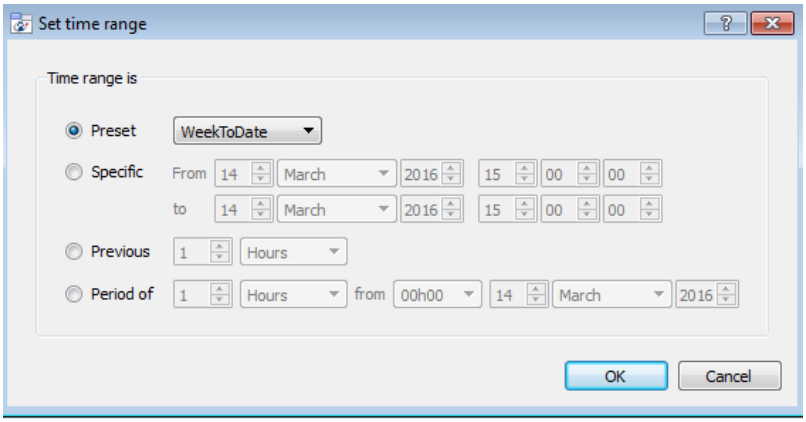
Once in the databases tab, select the relevant integration database. The databases are ordered under the NVRs that they are attached to.

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

6.2 Database Interface

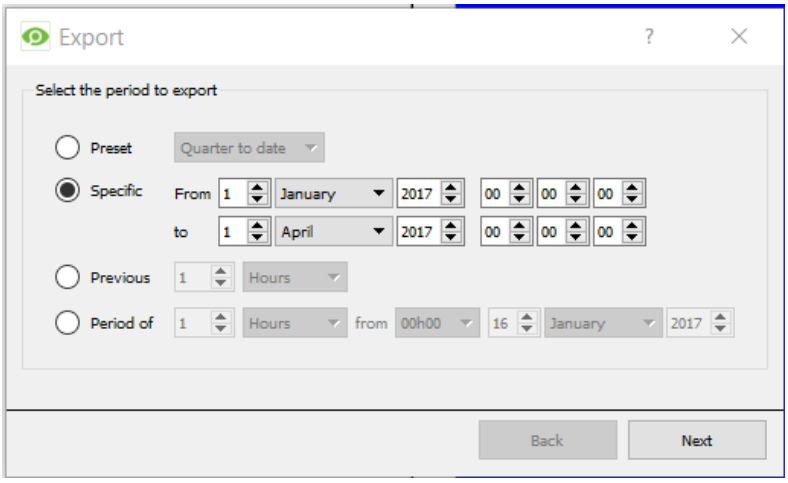


① **View**	The way the database is presented may be changed. Some integration databases have multiple view options. The database allows viewing by: 
② **Sorted By**	Events may be further sorted based on the following parameters: **Time.**
③ **Easy Search**	The easy search option allows for a quick search 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: To **enable** filters check this box: Enable filters To **add** a new filter click on . The filter icon will change to when filters are active. 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 metadatabase 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.

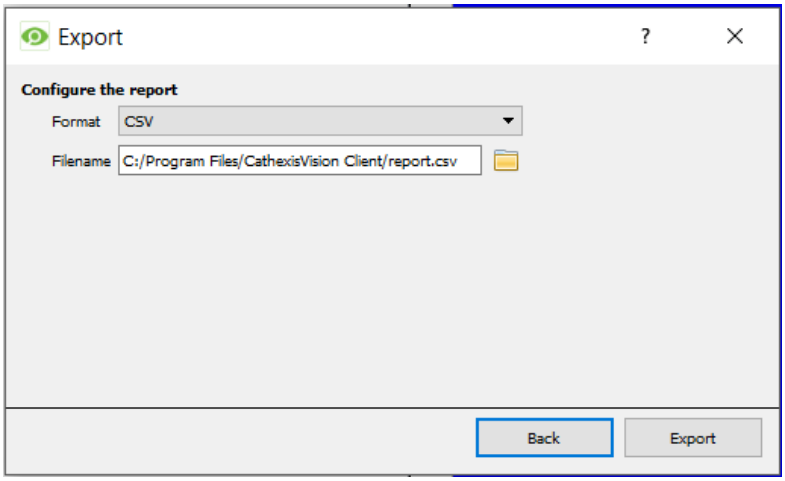
6.2.1 Generate Meta-Database Reports

Click the save icon to open the Export window.



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

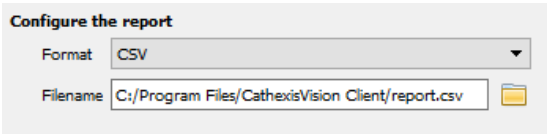
Click **Next**.



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

See below for the two options.

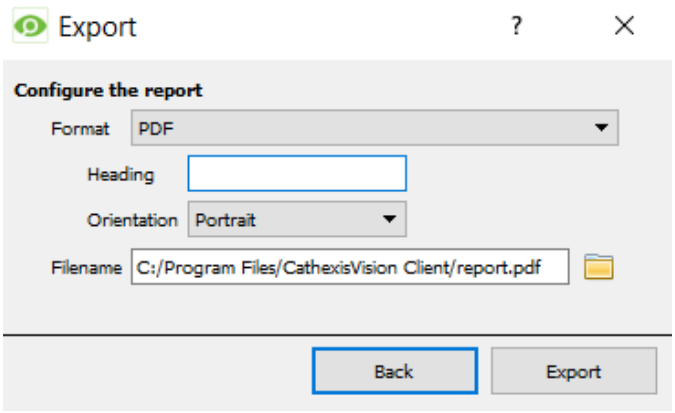
6.2.1.1 Export CSV



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.

6.2.1.2 Export PDF



Select PDF **Format**.

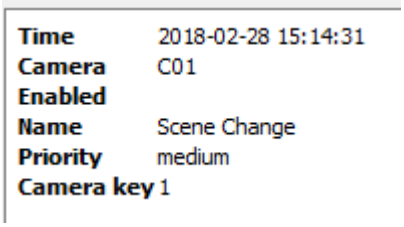
Give the PDF a **Heading**.

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.

6.2.2 Metadata



On the right-hand side of the database, meta-data about the event entry is displayed.

6.2.3 Viewing an Entry's Associated Recording

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

Then click play in the video player.

7. Events

A CathexisVision Event has a trigger, which causes an action. You may set integrated devices to act at triggers, or as actions. This document will detail the Ipsotek 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.

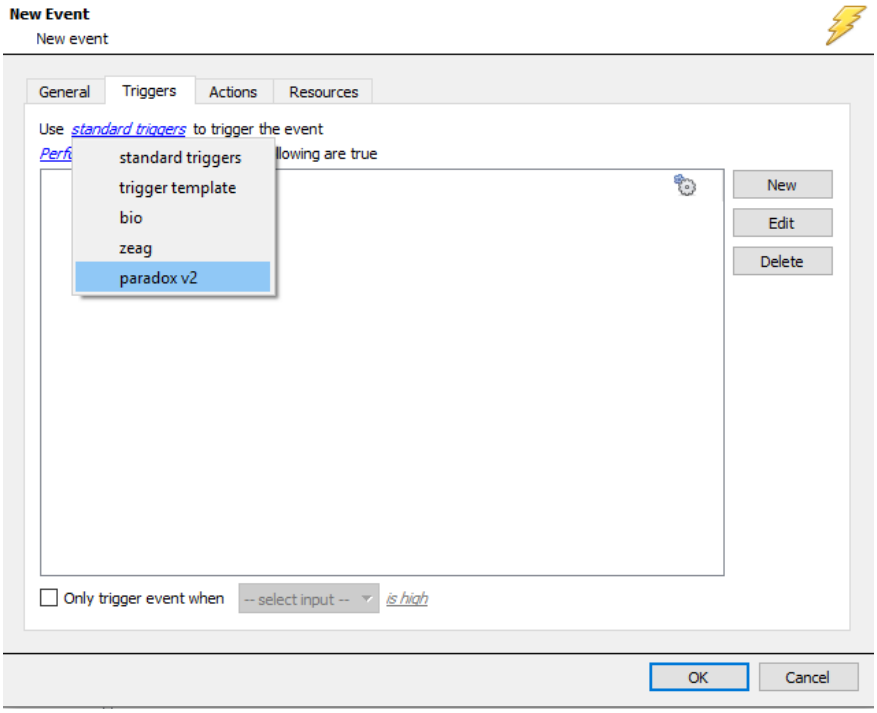
7.1 Creating an Event

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

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

From the New Event window, select the **Triggers** tab.

7.1.1 New Event Window



In this window, define the rules and constraints which will trigger an event on the device.

To **add/edit/delete** a rule use the New, Edit, and Delete buttons on the right-hand side.

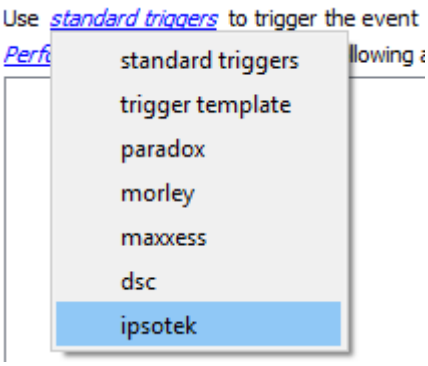
Note: The user may set **multiple constraints**, choosing if any, or all constraints need to be fulfilled to set off a trigger.

7.2 Triggers

A trigger is the input that tells the event to start. The trigger causes the subsequent action (which the user will also define).

7.2.1 Set the Device as the Trigger

Choose the Master Trigger type here.



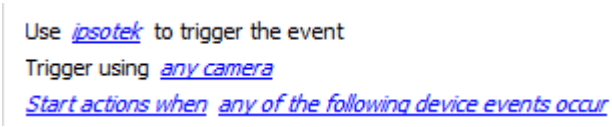
If creating a new event, the trigger type will default to: Use *standard triggers* .

To define which device to trigger the event, **click on the hyperlink** after "use".

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

7.2.1.1 While/When and Any/All

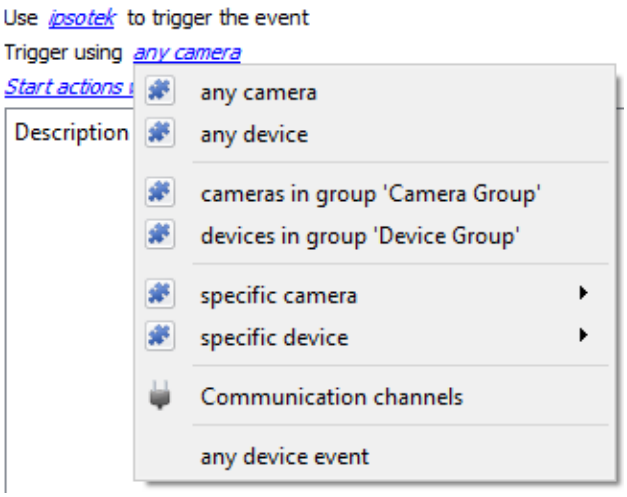
When triggering on an object you will have the option to trigger **while/when** a trigger is active. You will also be able to select multiple triggers, and define whether **all/any** of the triggers need to be active to start an event.



As usual, to change these settings click on the related, blue, hyperlinks.

7.2.1.2 Select Triggering Objects

Choose whether certain device objects or any device event will trigger an event.



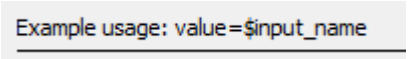
Any camera/device will trigger using any of the integration objects.
Objects in group… If a group has been created, an option to trigger using any of the objects in that group is present.
Specific camera/device will trigger using only a specific panel/reader/wrapper object.
Any device event will trigger when any event occurs on the Ipsotek 2 device.

Note:

1. If object groups have been created, the option to trigger using specific/any group will appear here.
2. Device objects do not generate events. Selecting device objects will display a popup informing the user of this.

Note for group triggers: To database this event 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.

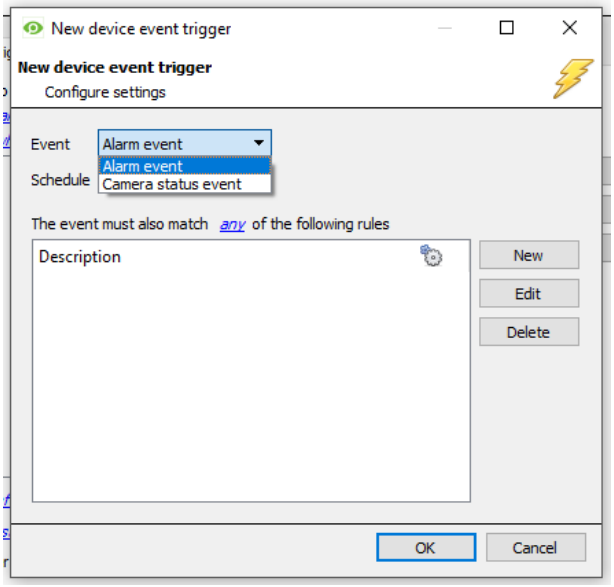


In this example above, replace 'value' with the name the event should be databased under.

7.2.1.3 Device Event Triggers

After selecting a master trigger type, add a trigger to the event.

Click on the New button in the Triggers tab. This will bring up the dialogue box below:



Select the **Event** type.

Define the **Schedule**.

Click on the blue hyperlink to define whether the ***any*** or ***all*** of the configured device event rules should trigger an event.

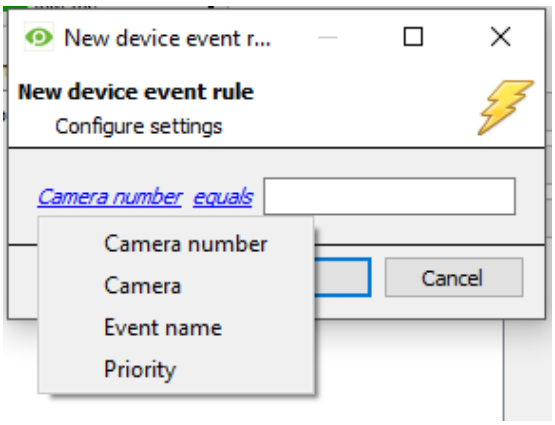
Next, add rules to the device event trigger.

Note: Rules for different event types must be added individually. I.e., switching from Access to Door event types in this window will lose any rules configured for Access events.

Add Rules to Device Event Triggers

If no constraints are set, every device event will trigger this. Once constraints are set, only the constraints chosen will trigger the event. Once the type of device event that will be the trigger is selected, add a new **device event rule.**

To do this, click the New button in the **New Device Event Trigger** window.



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

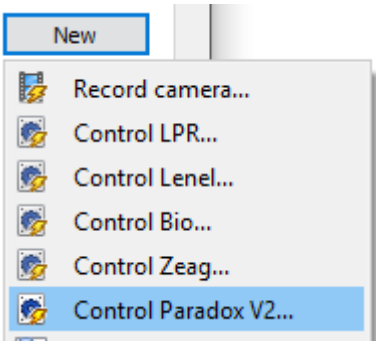
To modify the way this rule will be treated click on the second hyperlink (*equals* in the example) this will display the rules options.

Note: When all available options are known to CathexisVision, they will be visible in a drop-down menu. 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 device, see the device settings for the strings needed here.

7.3 Actions

Once the triggers that are going to initiate the event have been defined, to define some Actions in the **Actions tab** of the **New Event** window.

To set an action for an event trigger, click New and select an action from the available options:



7.3.1 Control Device

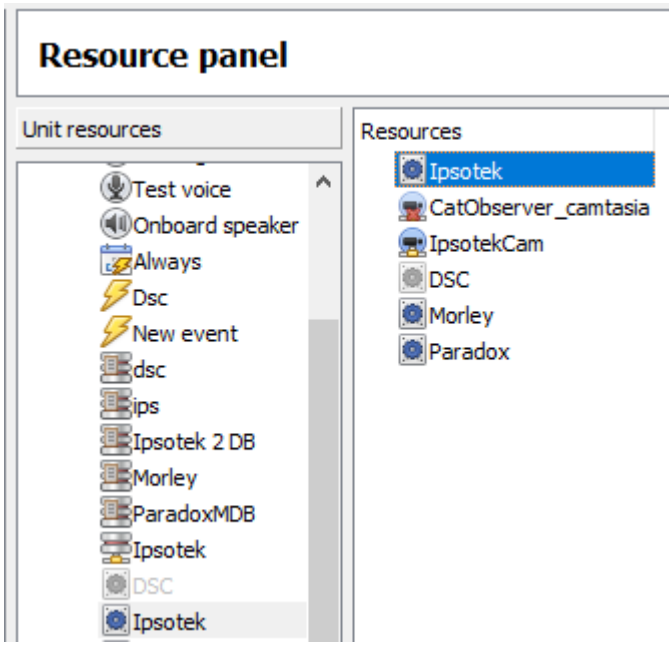
It is not possible to control the Ipsotek 2 device as a CathexisVision system event action.

8. Maps

It is possible to add the Ipsotek 2 device to a site map, which will allow for a number of action options when device events occur. These options include the animation of triggered zones and connecting to site cameras when zones are triggered, etc.

Note: There is a comprehensive guide to configuring and operating maps in the CathexisVision Map Editor Setup and Operation Guide – review this document for more information on maps.

8.1 Add the Device as a Resource



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

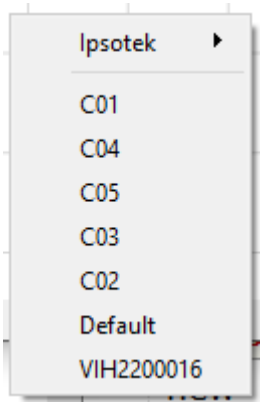
8.1.1 Add the Device in the Resource Panel

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.

8.2 Add the Device in Map Editor

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

8.2.1 Adding Device Objects

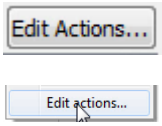


Drag the device from the Site Resources list onto the map area.

Select one of the associated objects.

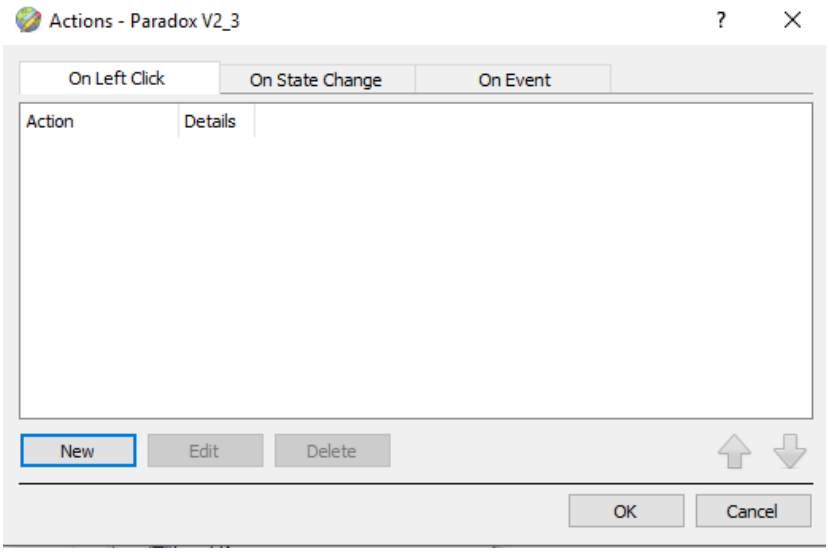
Note: To add multiple objects, repeatedly drag-and-drop the Impro AP Pro device onto the map area to bring up this option.

8.2.1.1 Adding Device Actions



To add actions to the device objects, select the object on the map and click the Edit Actions… button.
Or, right-click the map object and select Edit actions…

Map Action Triggers

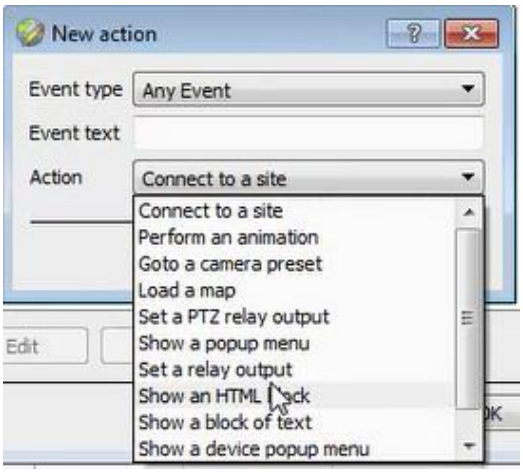


Depending on the object type, actions may be set for **Left/Right-Clicks**, **State Changes** and **Events**.

State change and event triggers will vary depending on the type of object for which actions are being set.

To create a new action, select New.

Action Options



All map action triggers will have the same action options to select from, except for Event map action triggers.

The Event map action trigger has the added ability to show a device event notification.

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

Once finished, save the map.

Note: The map **must not be saved** in the Work folder of the installation directory.

8.3 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.

9. 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.

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*