

Weigh-Comm Weighbridge Integration App-note



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1. Introduction

The document provides instructions for the integration the Weigh-Comm Weighbridge solution with CathexisVision.

The CathexisVision Weigh-Comm Weighbridge International integration allows CathexisVision to communicate with the Weigh-Comm weighbridge device via either a TCP connection or a serial connection. Device objects can be linked to cameras, providing operators with the associated footage. Events are databased and can be searched according to various filters. Operators can configure the device to trigger standard CathexisVision events, allowing for a range of actions.

Note:

- 1. For information regarding the regular operation of the Weigh-Comm Weighbridge system, please consult the manufacturer's documentation.
- There is a General Integration section in the main *CathexisVision Setup Manual*. It contains information about creating an integration database, as well as a general introduction to the Integration Panel. Read this section.

1.1 Requirements

1.1.1 General Requirements

- CathexisVision 2023.1 or later
- Cathexis NVR 32-bit and 64-bit versions
- Windows 10 Pro

1.1.2 License Requirements

The CathexisVision Weigh-Comm Weighbridge integration license requirements are as follows:

License	Name	Description
CWCW- 1001	Weighcomm Weighbridge	These licenses apply to the weighbridge system. The CWCW-1001 will license a single weighbridge and may be added on a weighbridge -by- weighbridge basis.
CWCW- 2000	Weighcomm Weighbridge device	This license is the "base" license to integrate with the weighbridge system. It is applied to the server to which the weighbridge device is connected. This licence will allow for the connection of a single integration device.
CWCW- 3000	Weighcomm Weighbridge bundle	This license includes one CWCW-2000 weighbridge device license, and also provides support for unlimited CWCW-1001 weighbridge licenses.

Note: In this integration, individual weighbridges will require a license for each.



1.1.3 Third-Party Device Information

This integration was tested on:

Third-party hardware name	Avery Weigh-Tronix
Hardware model number	E1105
Firmware as tested	App. 768C App Basic, version V3.0.02 Nov 24 2009 08:57
Third-party software license required	No Weigh-Comm license required

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

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

CathexisVision receives event messages from the Weigh-Comm Weighbridge device which can be used to trigger a CathexisVision system event.

1.3.1 Device Objects

Object Type	Abilities
	This integration has Weighbridge and Communication Channel objects.
	Device objects cannot be commanded as an action of a CathexisVision system event.
General	Only Weighbridge objects support overlays.
	Events on the software can be used to trigger CathexisVision system and map events.
	Objects may be linked to cameras to associate device events with video footage.



Weighbridge	Object Properties	 Name ID Online Licensed
Communication Channel	Object Properties	 ID Name Channel Status Details Creation Type Creation Time Idle time (min)

1.3.2 Device Events

The CathexisVision Weigh-Comm Weighbridge integration generates Device events (logs), which are triggered on the device and reflected in CathexisVision.

Event Element	Features/Abilities
---------------	--------------------

General		Events triggered on the device are sent to CathexisVision.
		• Time
Device Event	Message	• ID
Types	Wiessage	Weighbridge
		Weight

1.3.3 Metadatabase

A unique metadatabase 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	
	 All device events are databased. Database entries include the footage from cameras linked to device 	
General	objects.Multiple cameras may be linked to multiple weighbridge objects.	
	Device event metadata 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	Standard	



Sort Options	Time
	Time
Easy Search	Weighbridge
	Weight
	Time
Filter	Weighbridge
	Weight
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	 Device objects may be set to trigger a map action if the user left-clicks on map. The weighbridge device object may be set to trigger a map action if an On Event 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. 	

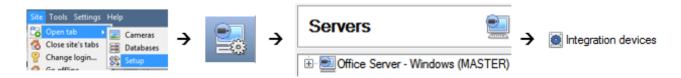


2. Device Addition

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.

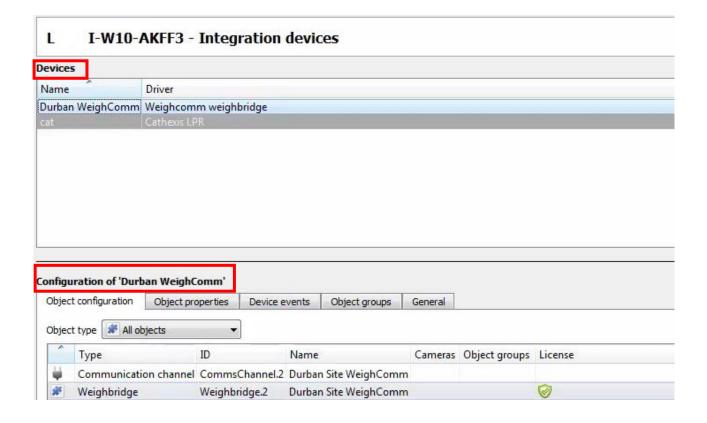
2.1 The Integration Devices Panel

To get to the Integration Panel, follow this path: Site / Open tab / Setup / Configuration icon / Server / Integration devices.



There are two sections in the Integration Panel:

- The **Devices** list shows the integration devices attached to the integration database.
- The **Configuration** section enables editing/reviewing the device selected in the **Devices** section.

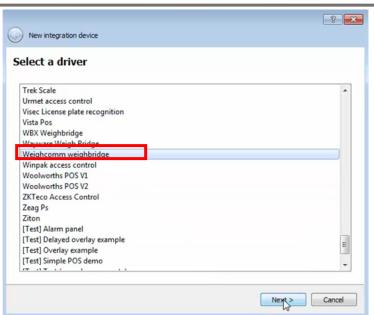


2.2 Add a New Device

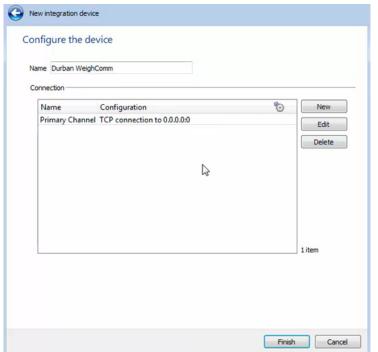


- 1. In the Integration Panel, navigate to the **Devices section.**
- 2. Click on the **New device** button on the right-hand side. This will open the addition dialogue.

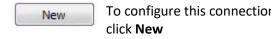




3. Select the **Weigh-Comm weighbridge** driver from the list, and click Next.



- 4. Give the device a descriptive **name**.
- 5. The Weigh-Comm device can connect in 2 ways:
 - Serial connection
 - TCP connection



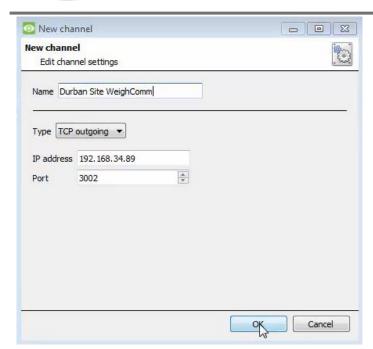
A New Channel window will appear.



6. Select the desired connection type from the dropdown.

A TCP connection has been selected for the purposes of this document.





- 7. Give the channel a **descriptive name**.
- 8. Enter the device **IP address** and **port number.**

Note: The IP and port number shown here were used for testing purposes.

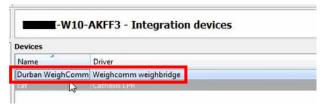
9. Click OK.

You will return to the **Configure the device** window.

10. Click Finish.

2.3 Select Device

The newly added device will show in the Devices section.



Click on the device name to select it.



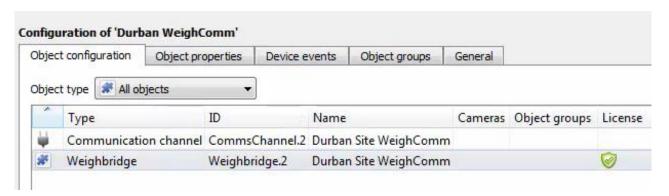
3. Configuration Section (Tabs)

The configuration section is divided into five main tabs. These tabs are: **Object configuration, Object properties, Device events, Groups,** and **General.**

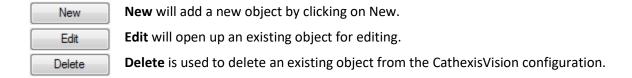
3.1 Object Configuration Tab

The object configuration tab is the tab where all the individual objects that comprise the integration may be viewed.

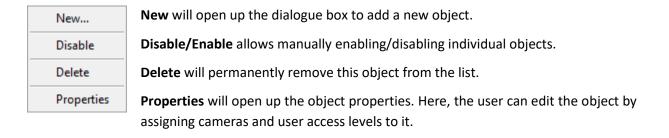
The Weigh-Comm Weighbridge integration has two object types: Weighbridge and Communication channel.



3.1.1 Object Configuration Buttons



3.1.2 Right-click Options



3.1.3 Edit Object

Open object editing window by selecting object and clicking Edit button, or right-click Properties.



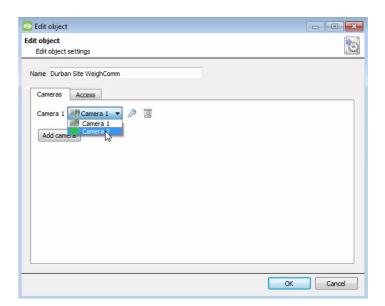
This window is where cameras are added to objects, overlays are configured, and access rights to the integration are added. These are dealt with in two tabs: **Cameras** and **Access**.

3.1.3.1 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 Add camera, and select the relevant camera from the drop-down menu.



- To **delete** a camera, click the trash icon.
- The spanner icon allows users to edit/configure overlays. This is addressed below in 3.1.4.

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

3.1.3.2 Properties: Access

Access can be used to protect sensitive objects, by allowing only certain user levels access to them.



There will be a list of objects, for which access level may be set.

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



3.1.4 Configure Overlays

Overlays may be configured globally for all objects, or individually for selected objects (**Weighbridge objects**).

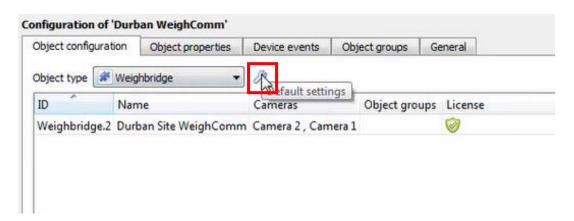
The path to follow for opening the configuration window for global or individual overlays is different, however the overlay configuration process is the same.

Overlays may be configured for weighbridge objects only.

3.1.4.1 Configure Global Overlays

Global overlays may be configured for **Weighbridge** objects. If global overlays are configured for Weighbridge objects, then configuration will then apply to *all* Weighbridge objects.

Navigate to the global overlays setup by first opening the **Object configuration tab**. Choose an object type.





1. Select the spanner icon next to the drop-down menu to configure the global overlays for the chosen object.

A new window will open.





- 2. **Enable**: Check the box to enable overlay configuration.
- 3. Define the **Text size** by selecting from the drop-down menu.
- 4. Define the **Location** of the overlay by selecting from the drop-down menu.
- 5. Chose the **Text colour** and **Background colour** of the overlay stream.
 - Click the colour boxes to bring up a colour chart.

Note: Click to reset values.

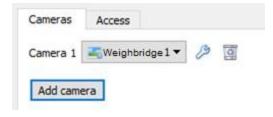
3.1.4.2 Configure Individual Overlays

For individual devices, there is a choice to use the global overlay settings (above), which apply to all objects, or to configure the settings for an individual device.

For example, the overlays for the camera on one weighbridge might be configurated to show up with yellow text, while another weighbridge displays in red.



 Right-click an item in the list and select
 Properties to edit the object.



2. Add a camera to the object, or, select a camera from the drop-down menu.



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



4. **Uncheck the 'Use defaults'** box to configure the overlays.





- 5. **Enable**: Check the box to enable overlay configuration.
- 6. Define the **Text size** by selecting from the drop-down menu.
- 7. Define the **Location** of the overlay by selecting from the drop-down menu.
- 8. Define the **Text colour** and **Background colour** of the overlay stream.
- Click the colour boxes to bring up a colour chart.

Note: Click to reset values.

3.2 Object Properties Tab

The Object properties tab allows the device object properties to be viewed and sorted by type.

In the case of the Weigh-Comm Weighbridge system, there is the option of viewing by **Weighbridge** and **Communication channel.**

3.2.1 Weighbridge Objects

Weighbridge objects will populate once device events are received from the relevant weighbridge.



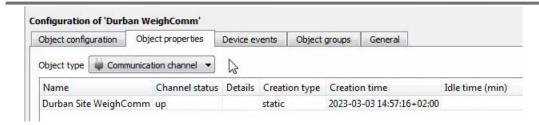
In the Object properties tab:

- a green tick indicates that the object is online/licensed.
- A red cross indicates that an object is offline/not licensed.

3.2.2 Communication Channel

The communication channel object represents the TCP or serial connection used by the integration device.

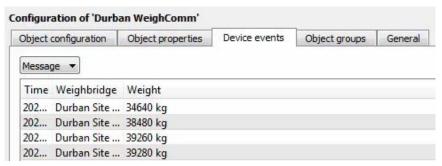




3.3 Device Events Tab

The Device events tab lists real-time events happening on this device. Installers can ensure that the integration is functioning and monitor the Events happening on site.

Return to CathexisVision and navigate to the Integration Panel. Open the Device events tab.



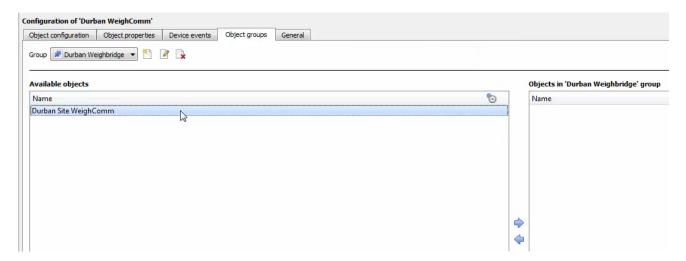
Use the drop-down menu to sort the events. This integration only has a Message event type.



Selecting an event type will populate the relevant event fields in the tab.

3.4 Groups Tab

Groups of the same type of object can be created.



Tip: This is useful when setting up events, because events can be triggered by an object group. (E.g., a group will trigger an event if any of the doors in that group are triggered.)



3.4.1 Create a Group



1. To **create** a group, click on this icon.

A new dialogue box will open.



- 2. Give the group a descriptive **Group name.**
- Click on the drop-down menu to select the Object type.

Note: Only objects of this type can be added to the group.

4. Click OK.

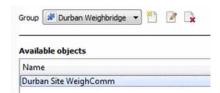
Note: Once a group has been created, the group's object type may not be edited.

- To edit a group, click on this icon.
- To **delete** a group, click on this icon.

The next step is to add individual objects to the group.

3.4.2 Add or Remove Objects

After creating a group, a list of all the available objects for that group will be displayed in the Available objects panel, on the left-hand side. Objects can then be chosen from this list, and added to the group.



- To add these objects to the group, select them from the list, and click on the right arrow.
- To **remove** these objects from the group, select them and **click on the left arrow**.

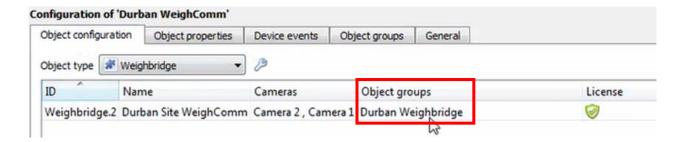
Note: Multiple objects may be selected at a time.



Once individual objects have been added to the group using the arrows (above), they will appear in the section on the right-hand side.



The object group information will also reflect in the Objection configuration tab:



3.5 General Tab

The General tab of the Configuration section (Integration panel) deals with the integration database. Setup must be completed here, before the Databases tab can be used to search events and view associated footage.

From the General tab, the user must:

- Select an existing database, or
- Configure a new database.

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.



3.5.1 Configure a New Database

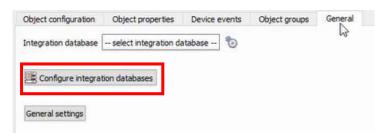
- The first time an integration database is added, the general integration database will need to be initialised.
- Once the general integration database has been initialised, then a database for a *specific integration* can be created.



If an integration database has not yet been created, click the **Configure integration databases** button from the General tab. This opens the integration database setup.

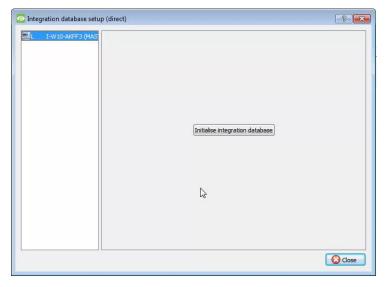
3.5.1.1 Initialise the Integration Database

If an integration database has not yet been created, follow the steps below.



1. Click the **Configure integration** databases button from the General tab.

This opens the Integration database setup window.



- 2. **Select the unit** to which the database will be added, from the list on the left.
- 3. Then, click **Initialise integration** database.





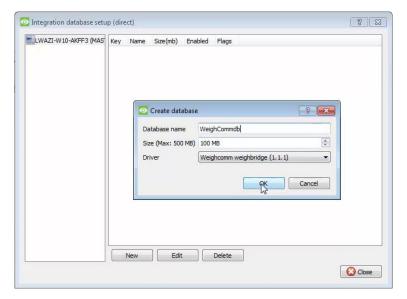
- 4. Choose the **partition** on which the database will be created.
- 5. Select disk space allocation.
- 6. Click OK.



3.5.2.2 Configure Integration Database

If the general integration database has already been initialised, or after initialising (3.5.2.1), create a new integration database for the current integration.





Click configure integration database.

Select the unit that the database should be added to from the list on the left, and click **New** to create a new integration database.

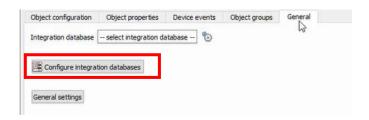
Give the database a name.

Set the database Size.

Select the **Weigh-Comm** weighbridge driver from the drop-down menu.

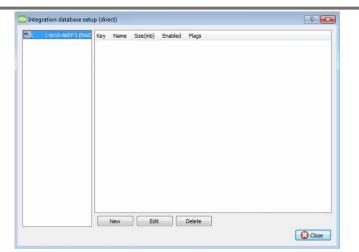
3.5.1.2 Add a New Devices Database

After initialisation, the database can be added to the integration.



 To add a new database, click the Configure integration databases button from the General tab.





This opens the integration database setup window.

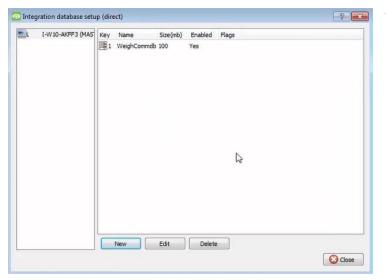
New

2. Click the New button.

A dialogue will appear for creating the integration database.



- 3. Give the database a descriptive **Database Name**.
- 4. Allocate a Size to the new device database.
- 5. Select the device **Driver (Weighcomm weighbridge),** from the drop-down list.
- 6. Click **OK** to create the database.



The newly created database will appear in the Integration database setup panel.

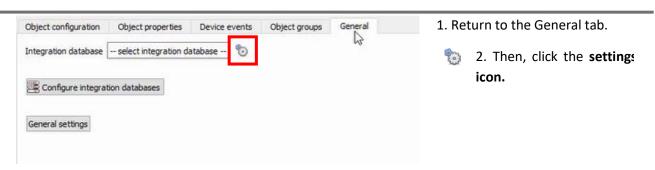


7. **Click Close** to retuthe General tab.

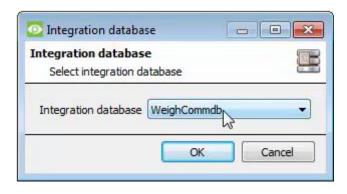
3.5.2 Select the Weigh-Comm Weighbridge Integration Database

Once a **Weigh-Comm** database has been created, it must be actively selected.





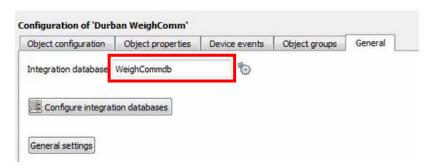
A dialogue will appear. Only databases which relate to the device being added should appear.



- 3. Select the Weigh-Comm database from the drop-down menu.
- 4. Then click OK.

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

Once selected, the database will reflect in the General Tab as shown below.



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. Events

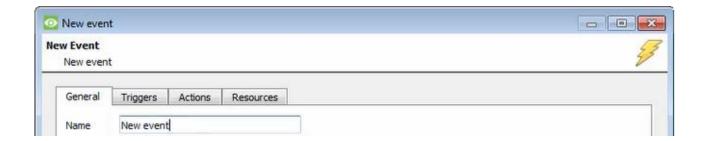
A CathexisVision event has a trigger, which causes an action. Set integrated devices to act as triggers, or as actions. This document will detail the **Weigh-Comm Weighbridge International** specific aspects of events. There is a comprehensive guide to CathexisVision Events in the **CathexisVision Setup Manual**.

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

4.1 Event Window

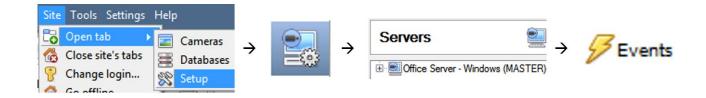
Events in CathexisVision are set up via the Event Window. This has four tabs:

- 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/are defined.
- In the **Actions Tab** the action/s which the event takes is/are defined.
- In the **Resources Tab**, the various site resources, which can be used as part of an event, are defined.



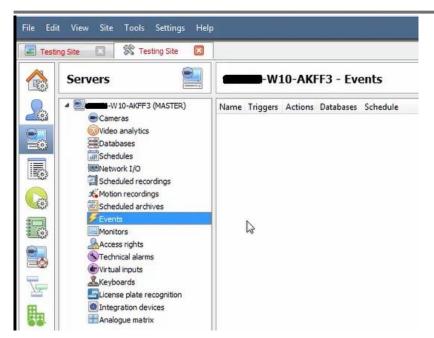
4.2 Creating an Event

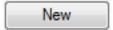
To create an event using the Weigh-Comm Weighbridge device, navigate to Events by following the sequence: Site Menu / Open Tab / Setup / Servers / Master Server / Events. This is shown below.



This will allow the user to enter the Events management area:







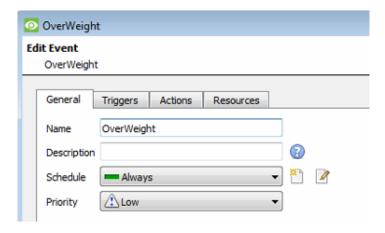
Once in Events management area, click the **New** icon at the bottom of the screen. Alternatively, right-click and select **New**.

This will open up the **New Event window**.

The new event window has four tabs which can be used to set up the event: General, Triggers, Actions, and Resources.

4.3 General Tab

Create a new event under the General tab by filling in the fields.



- Give the event a descriptive Name.
- Set up a **Schedule** if desired by clic the icon.
- Select a Priority.
- A description may be entered. Or, modify the **Description** if relevant according to the instructions below.

Note for group triggers: For an 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.



4.4 Triggers tab

A trigger is a user-defined input, for example, the user may choose to define the trigger as a door opening on an access control system.

Once the user defines the *trigger*, it can be used to cause a subsequent *action*.

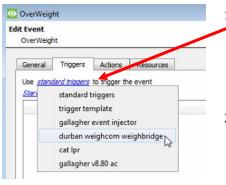


The user will need to click on the hyperlinks (depicted alongside) to set up the trigger.

The subsections below provide instructions.

4.4.1 Set the Device as the Trigger

For a new event, the trigger type will default to "standard triggers". The user will need to change this to the Weigh-Comm Weighbridge system.



1. To change the event trigger, **click on "standard triggers"** (the hyperlink after the word "Use").

This will open a drop-down menu with more options.

2. To set **Weigh-Comm** as the trigger, **select the device name** from the drop-down menu.

4.4.2 Trigger Types (Trigger Using)

It is useful to think of this as a master trigger type.



1. **Click on** the **hyperlink** after the words "Trigger using".

This will open a drop-down menu.

2. **Click an option** from the menu to select.

See the table below for descriptions of the options on the drop-down menu.

MENU OPTION	DESCRIPTION OF TRIGGER TYPE
Any [device]	This will trigger if anything happens on any device i.e., any weighbridge.
Specific [device]	This will trigger on the specific object chosen, e.g., TCP weighbridge Line 2.
Communication Channel	This will trigger if anything happens on the Communication channel.
Any device event	This will trigger, initially, when any event occurs on the integration.



4.4.3 While/When and Any/All

The third row of hyperlinks further specifies when the event triggers. The user will choose to trigger either based on a *device event* occurring, or, based on an *object property*.



To change these settings, click on the blue hyperlinks in the *third* row as shown in the image on the left.

The user can choose the option to:

- **start actions when** any of the properties meet user-configured *criteria*, or any user-configured *device events* occur, or
- **perform actions while** any/all of the properties meet user-configured *criteria*.

Start actions when	any of the following device events occur any of the properties meet the following criteria
Perform actions while	any of the properties meet the following criteria all of the properties meet the following criteria

4.4.4 Define the Trigger ("Any Device Event" Option)

After using the hyperlinks to set up how the trigger will be defined, the user may proceed to creating a new *device* event.

One of these options is to select *any of the following device events occur*.



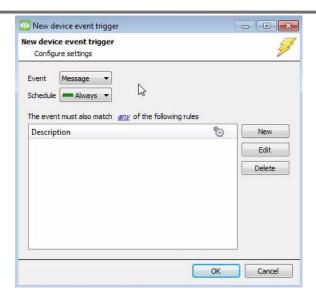
Pictured alongside is the **Triggers tab** where a user selects *any of the following device events occur*.

Clicking on New will bring up the New device event trigger dialogue box.

4.4.4.1 New Device Event Trigger

The user will then need to configure the new device event trigger.





- 1. Select the **type of Event** where applicable.
- 2. Choose a schedule.
- 3. Choose whether <u>any</u>, or <u>all</u> constraints need to be fulfilled to set off a trigger.
- 4. Use the **new/edit/delete** buttons on the right-hand side to add a device event rule (a constraint). Follow the instructions below.

4.4.4.2 New Device Event Rule

Note: From within the **New device event trigger** window (above), it is necessary to set further constraints. Multiple constraints can be set. If constraints are not defined, every device event will trigger this event.



equals

less than

not equal to

greater than

less than or equal to

greater than or equal to

1. To configure a New device event rule, **click on New** in the New device event trigger window.

This will bring up a further window, called **New device event rule**.



2. To change the constraint, **click** on the **first hyperlink** ('Weighbridge' in this example).

This will bring up the full list of available constraints. In the Weigh-Comm Weighbridge integration the following constraints are available:

Weighbridge and Weight

- 3. Click an item to select it.
- To modify the way this constraint will be treated, click on the second hyperlink (which is "equals" in the example).

This will display a drop-down of further options.

5. Click an option to select.

Next, the constraint must be defined. Follow the instructions below to do this.



Defining a Constraint: Drop-Down Menu or Written Description

When all available options are known to CathexisVision, a drop-down menu will appear alongside the chosen constraint.



5. **Click an item** from the drop-down menu to select.

Or, if the variables for a constraint are *not* predefined, fill them in manually.

Note: Descriptions are case sensitive and must be identical to how they appear in the Object Properties tab.

4.4.5 Define the Trigger ("Properties Meeting Criteria" Option)

If the user has defined the trigger by choosing according to *properties meeting criteria*, the **New object property trigger** dialogue box will open.

- In these instances, further constraints do not need be set, since they are being added one at a time.
- This option is better if a few triggers have been selected.
- This is also true for groups, since a group may only be made up of one object type.

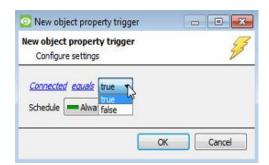
4.4.5.1 New Object Property Trigger: Configure Settings



- 1. **Select the event type** by clicking the first hyperlink.
- Further define the rule by clicking the second hyperlink.

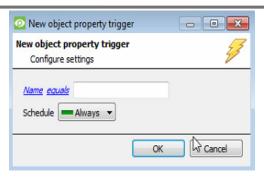
Defining a Constraint: Drop-Down Menu or Written Description

When all available options are known to CathexisVision, a drop-down menu will appear alongside the chosen constraint.



3. **Click an item** from the drop-down menu to select.

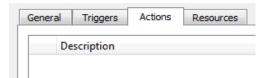




4. If the variables are not pre-defined, fill them in manually.

Note: Descriptions are case sensitive and must be identical to how they appear in the Object Properties tab.

4.5 Actions Tab



Having defined the triggers that will initiate an event, the user will need to define the Actions.

Select the Actions tab from the New event window.

4.5.1 Adding an Action



1. To add an action, click New in the Actions tab.

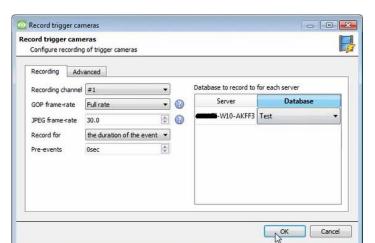


A list of **available actions** will appear. The drop-down contains all the available **action types**.

2. Select an option, for example, Record trigger Camera.

4.5.1.1 Record Trigger Camera

If the user has selected a new action to record trigger camera, the following setup steps are required:

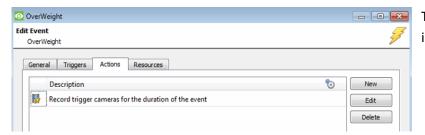


Click the drop-down menus to see more options and click to select the appropriate option.

- Edit Recording channel, frame rate, and recording duration as necessary.
- Choose the database to which the video recordings will be saved.
- Set **Pre-events** to determine the length of time recording will begin before the event.

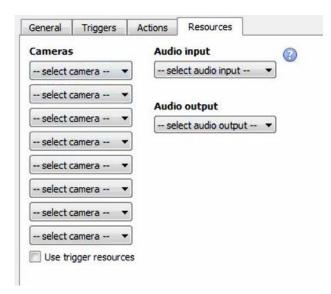


4. Click OK.



The configured action will appear in the tab.

4.6 Resources tab



In the Resources tab, users can select the cameras, audio input, and audio output to be used.

The default is to select "Use trigger resources."

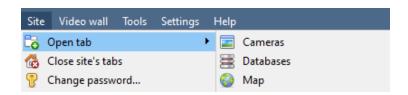


5. Camera Tab Overlay Setup

Once all the relevant settings have been configured, the weighbridge system *overlay* can be pulled through over the appropriate camera feed.

Note: Cameras must have already been added to weighbridge objects, and overlays need to have been configured.

5.1 Navigate to the Cameras Tab



To see the camera feeds, go to the Cameras tab by following this path.

Site / Open tab / Cameras

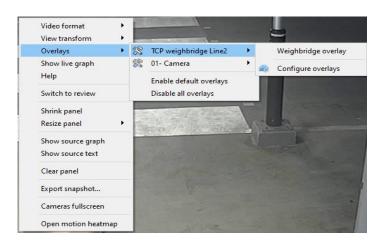
5.2 Video Feed Options Panel



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

The Video feed options panel will present options specific to the settings that have been configured.

Right-clicking will also bring up the overlay option as shown below.



Through the right-click option, one can select the overlay and it will appear over the video feed, as above.

5.2.1 Select the Overlay



- 1. Clicking this icon will bring up the overlay options for this video feed.
- 2. Select the device and enable the overlay.



5.3 Enable Overlays from the Database



1. Click this arrow on the central panel of the database.







- 2. Select the overlay icon on the left side of the camera player screen.
- 3. A red dot indicates that the overlay is enabled.

Durban Site WeighComm 53520 kg The overlays will appear as configured by the user.

For this integration the overlay is configured to show the Device name and the weight of the selected database entry.



6. Database

The database tab allows one to navigate to 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, this recording can be launched from within the Databases 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

View the information stored in the Integration database, first navigate to the Databases Tab:



 Follow the path on the left: Site / Open tab / Databases.



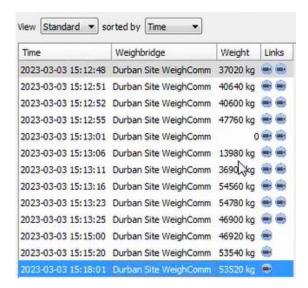
Select the Weigh-Comm integration database from the database panel that opens on the lefthand side.

The databases are ordered under the NVRs to which they are attached.



To open and close this list, click on the arrow in the centre of the list.

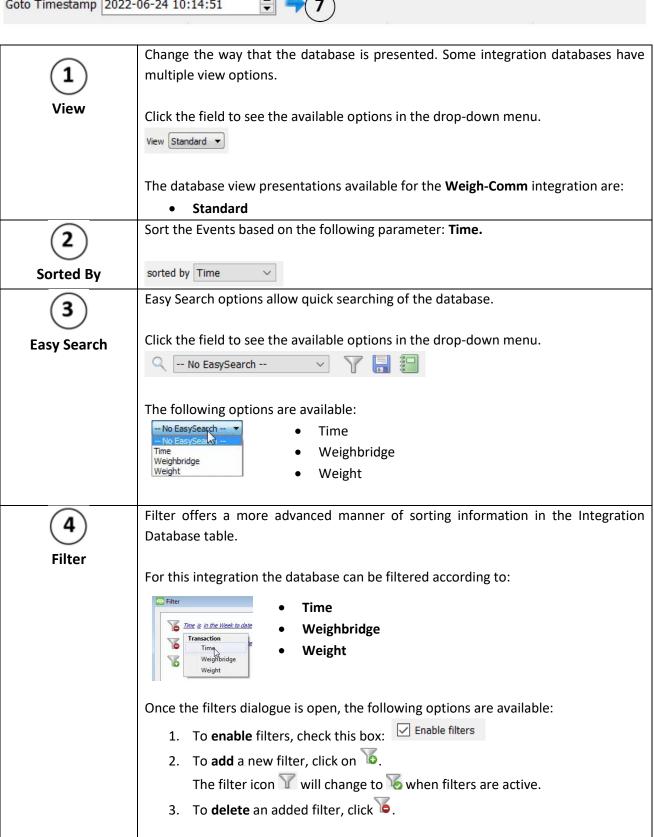
Below is an image of a Weigh-Comm database.



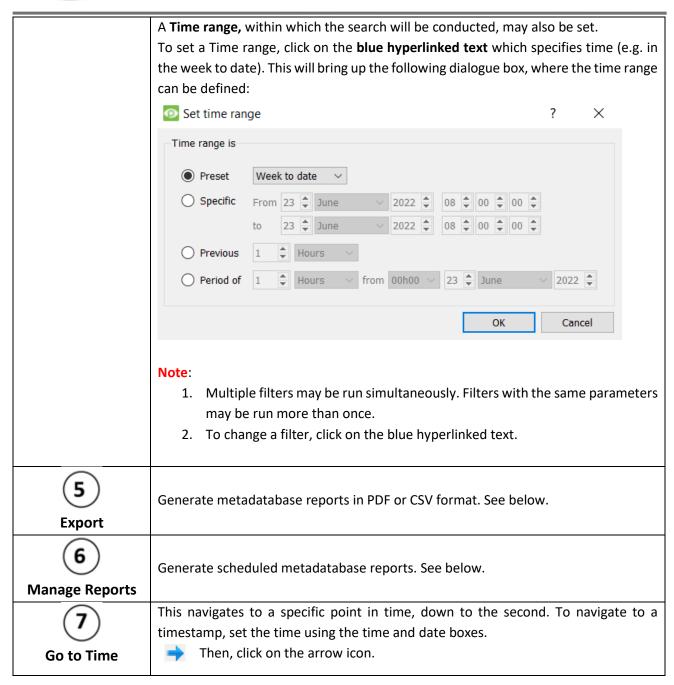


6.2 Database Interface



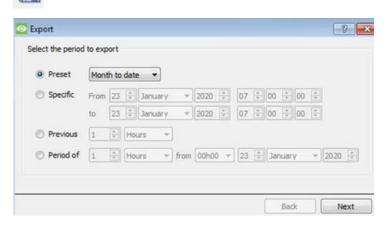






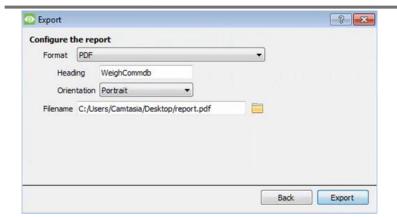
6.2.1 Generate and Export Metadatabase Reports

1. Click the save icon to open the Export window.



- 2. Select the **Period** to export, and enter the required details.
- 3. Click Next.

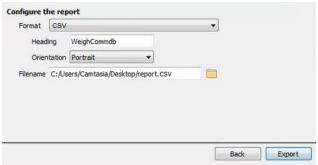




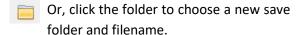
4. Select the **Format** to export the report in; either CSV or PDF.

See below for the two options.

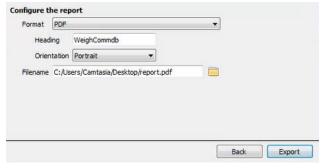
6.2.1.1 Export CSV



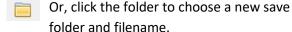
- 1. Select CSV Format.
- 2. Give the CSV a Heading.
- 3. Select either Landscape or Portrait **Orientation** of the CSV.
- 4. Edit the **Filename** by either entering it straight into text field (replacing **report.csv**).



3.2.2.2 Export PDF



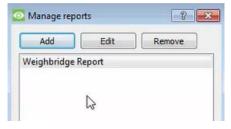
- 1. Select PDF Format.
- 2. Give the PDF a Heading.
- 3. Select either Landscape or Portrait **Orientation** of the PDF.
- Edit the Filename by either entering it straight into text field (replacing report.pdf).



6.2.2 Scheduled Metadatabase Reports



1. Click the report icon to open the scheduled report window.

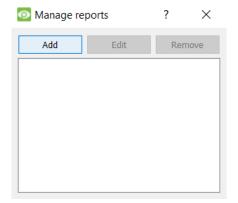


All created reports will be listed here.

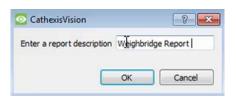
- 2. Click **Add** to create a report.
- 3. Then $\mbox{\it edit}$ to define the reporting schedule. See below for more detail.



6.2.2.1 New Scheduled Report



1. In the Manage reports window, click **Add**.



- 2. Give the report a description.
- 3. Click **OK** when done.



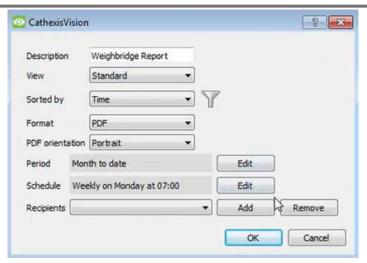
The item will appear in a list.

Once the new report is listed with the other reports, select it for editing to define the reporting schedule.



4. Either right-click the entry and select schedule or **select the entry** and **click the schedule button** at the bottom of the screen

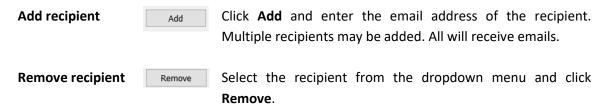




- 5. Edit the **Description** if needed.
- 6. Edit the **View** options.
- 7. Select a **Sorted by** option.
- 8. Select the Format.
- 9. Select the **orientation** of the Format.
- 10. Select the **Period** to be reported on
- 11. Define the **Schedule** for the report.
- 12. Select **Recipients** from the dropdown menu to whom reports will be sent.

Add/Remove Recipients

Use the icons to edit the drop-down menu.



6.2.3 Metadata

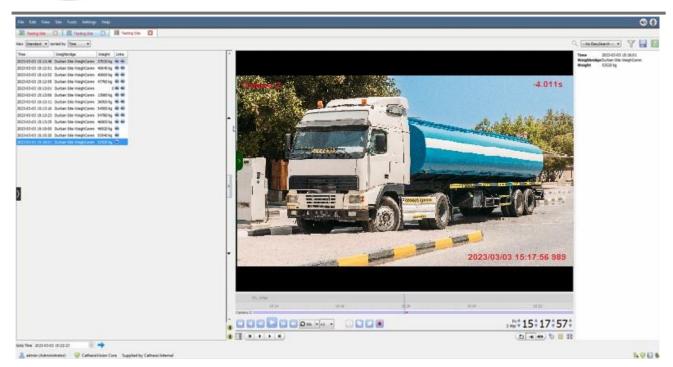


The right side of the database displays metadata about the event entry.

6.2.4 Viewing an Entry's Associated Recording

The video player is embedded in the database view. The player uses the same timeline features as the cameras tab. If cameras are attached to device objects in the integration setup, and these cameras are set up to record continuously, each integration database entry will have a corresponding recording. See the image below.







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. Maps

It is possible to add the Weigh-Comm Weighbridge device to a site map, which will allow for a number of action options when zones/partitions are triggered. These options include the animation of triggered zones and connecting to site cameras when zones are triggered, etc.

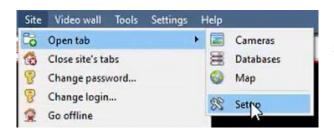
Note:

- This section will only deal with the specifics of the Weigh-Comm Weighbridge Integration. For more
 information on using the CathexisVision Map Editor and Map Tab, please consult the dedicated and
 detailed *Map Editor Operation Manual*.
- The CathexisVision Map Editor is only available on **Windows** operating systems.

7.1 Add the Weigh-Comm Weighbridge Device as a Resource

To configure the map, the Weigh-Comm Weighbridge Device must be added as a resource to be added to the map.

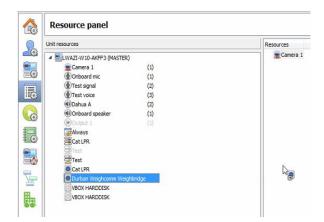
7.1.1 Add the Device in the Resource Panel



Navigate to the **Resource Panel** by following: Site / Open Tab / Setup / Configure resource Panel



Click the Configure Resources icon.



In the site's Resource panel, a list of resources will be displayed.

Select the **Weigh-Comm Weighbridge** integration device. Drag and drop it under **Resources** on the right.

The Weigh-Comm Weighbridge integration device will now be listed as a Resource in the Map Editor.



7.2 Configure Map Editor



Open the **CathexisVision Map Editor** software.



Follow this filepath:

Start / All Programs or Apps / CathexisVision / Map Editor



In the **Resources** panel on the bottom right, **select** the Weigh-Comm Weighbridge Site.

The Weigh-Comm Weighbridge integration device will then be listed as a resource underneath.

7.2.1 Add the Device in Map Editor

Once the AVS Electronics device has been added as a **Resource** in CathexisVision, it will be available to select in the **Resources** panel in the bottom-right corner of the Map Editor.

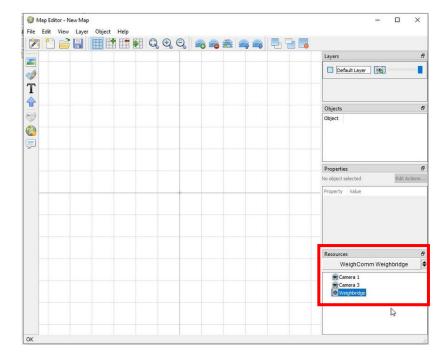


- Select the site from the dropdown menu.
- Once the site is selected, the device as well as any Site Resources which have been enabled in CathexisVision will appear in the list.

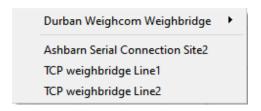


7.2.2 Add Device Objects in Map Editor

The Map editor will appear as below, with the selected site and device appearing in the bottom right.



Drag the Weigh-Comm Weighbridge device from the Site Resources list onto the map area.



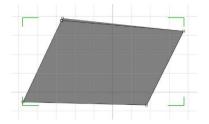
Right click and select one of the associated objects.

Note: To add multiple objects, repeatedly drag-and-drop the Weigh-Comm Weighbridge device onto the map area to bring up this option.

7.2.3 Add a Polygon



On the options bar on the left, click the **Add polygon** icon.



Draw a polygon on the map interface.

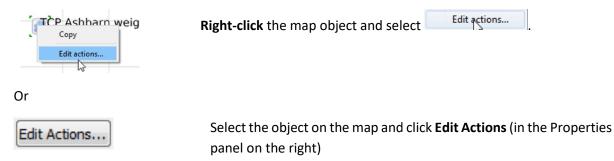




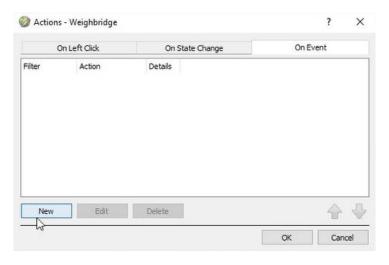
The polygon will now be listed under **Objects** on the right.

7.2.4 Adding and Editing Device Actions

1. To add or edit actions to the device objects, either:



This will open the Actions window.



For CathexisVision integrations, Actions may be set for Left/Right-Clicks, State Changes and Events.

In the Weigh-Comm Weighbridge Integration, Actions may be set for **Events**.

2. To create a new action, select

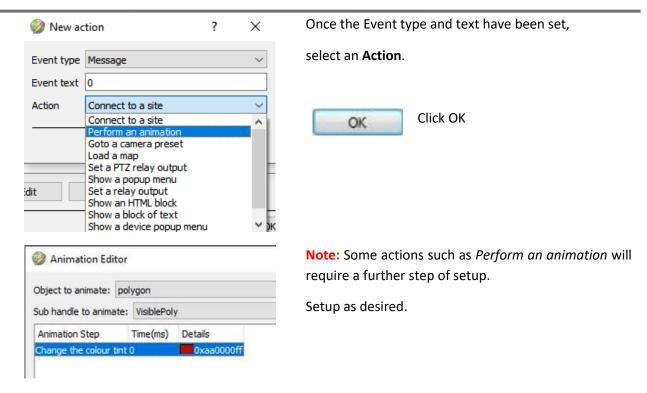
7.2.4.1 On Event



Select the event type of the device object which will trigger the map action.

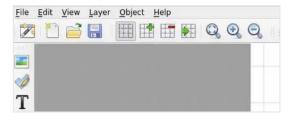
For this integration the **Message** event type is available.





Note: Multiple actions may be added to the map objects. Once finished, save the map.

7.3 Save Map



In map editor click the Save icon.



Give the map a name. Click Save.

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

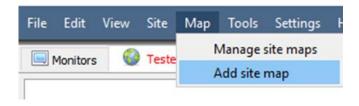


7.4 Load Map to CathexisVision

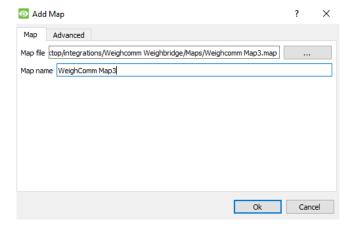
Now the completed and saved map can be uploaded to CathexisVision. Once the map is open, all objects added to the map area in the Map Editor will be visible on the map, and all actions set will be available.



In CathexisVision, go to: Site / Open tab / Map



Then, in the Map tab, go to: Map / Add site map

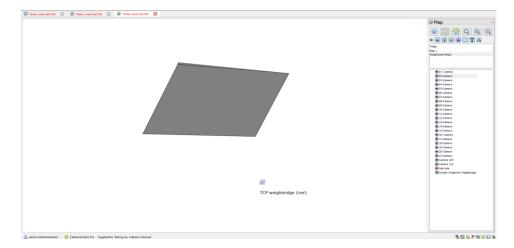


The Add Map window will open.

... Click the icon to retrieve the **Map file** from its location.

Give the map a descriptive name.

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.





6. Conclusion

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

For support, contact support@cathexisvideo.com

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