



# Grekkom Ngaro Integration App-note

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# 1. Introduction

This document details the integration of Grekkom Ngaro software with CathesisVision software. The Grekkom Ngaro software monitors camera activity and then sends any notable alerts to CathesisVision. CathesisVision creates events and database entries for the duration of alarms.

## 1.1 Requirements

- CathesisVision 2020.4 and later
- Win 10-64bit and later, Win Server 2008 R2 and later.
- Minimum 4GB of RAM required.

## 1.2 Model and Firmware

- This software integration was developed and tested on Ngaro Server 1.2.3 using the SDK2015.

## 1.3 License requirements

The Cathesis Grekkom Ngaro software integration license requirements are as follows:

License Code	License Description
CGNA-1001	Grekkom Ngaro Analytics object
CGNA-2000	Grekkom Ngaro Analytics device
CGNA-3000	Grekkom Ngaro Analytics bundle

**Note:** in this integration, individual devices will require a license for each device.

### A NOTE ON CAMERA CHANNELS

The CathesisVision software packages have **limits on camera channels**. A multi-head 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 CathesisVision software, even though it is a single device.

## 1.4 Integration Components

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

- Device** The device is CathesisVision software's interface, which handles all the interaction between CathesisVision and the integrated hardware. When an integration is added to the CathesisVision 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 can be multiple "object types" under the objects group.

### USEFUL LINKS

To view **tutorial videos** on CathesisVision setup, visit <https://cathesisvideo.com/resources/videos>

Find answers to Cathesis **Frequently Asked Questions**: <https://cathesis.crisp.help/en/?1557129162258>


## 2. Device Addition and Configuration

This section will detail the procedure for setting up the two systems to effectively communicate with each other.

### 2.1 Add a New Device in CathesisVision

Integrations are added on a server-by-server basis.

#### 2.1.1 Connecting to Ngaro

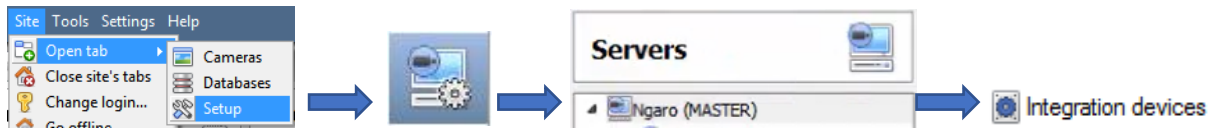
<input type="radio"/>	210	CATHESIS		154.117.154.82	29000	Activo	10000	10000	10	<i>por defecto</i>
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The user needs to first configure a new device on the Ngaro server with the following parameters:


ID	This is the device ID that will be used in the CathesisVision software.
Name	A name for the Device.
Type	Configured as "Control".
IP address	The public IP used in the CathesisVision software.
Port	This is the local port that will be used by the CathesisVision software.
Status	Select "Activo".
X	Uses 10000 as default (it is not needed).
Y	Uses 10000 as default (it is not needed).
Z	Uses 10 as default (it is not needed).
Zone	Uses value per default (it is not needed).

Integrations in CathesisVision 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:

## 2.1.2 The Integration Devices Panel



### 2.1.2.1 Device Addition

1. Once in the Integration Devices panel, click on . This will open the addition dialogue.
2. Select the **Grekkom Ngaro** driver from the list.

3. Give the device a descriptive **name**.
4. Enter the **IP address** of the device (the public IP where the Ngaro software is installed).
5. Enter the **port number** (the port configured in the Ngaro server in order to establish communication between the Ngaro server and the CathexisVision software).\*
6. Enter the **local server** settings.\*\*
7. Click **Finish**.

**\*Note:** the configured port is forwarded in the router in order to send the communications to the private IP where the Ngaro server is installed.

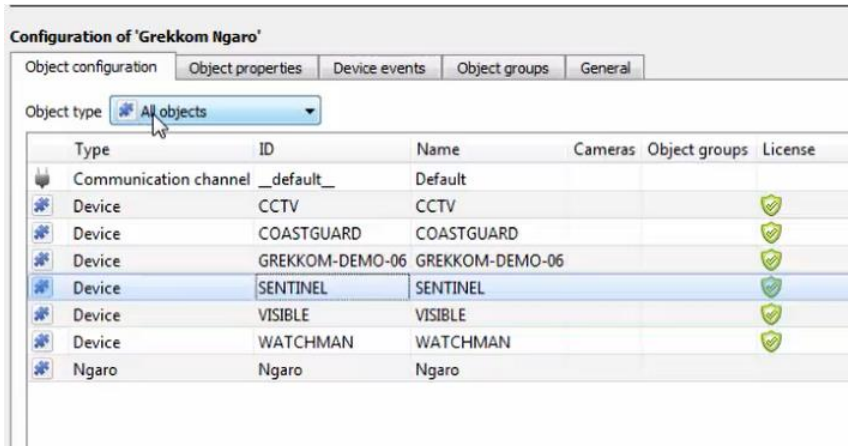
**\*\* Local port** – the port configured in the Ngaro server when adding CathexisVision as a device in order to establish a communication between the CathexisVision software and the Ngaro server. Ngaro sends all alarms and events through this port. **Note:** the configured port is forwarded in the router in order to send the communications to the private IP where the CathexisVision software is installed.

**Device ID** - this is the ID used to identify the device.

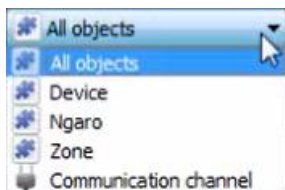
## 2.2 Configuration Section (Tabs)

The configuration section is divided up into several tabs. These tabs are: **Object configuration**, **Object properties**, **Device events**, **Object groups**, and **General**.

### 2.2.1 Object Configuration Tab



In the object configuration tab, the **individual objects** that comprise the integration can be viewed.

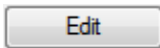


Select the **Object type** dropdown to view the objects that comprise the integration. Select one of the object types from the menu to view only objects of that type in the list area.

#### 2.2.1.1 Object Configuration Buttons



To add a new object, click **New**.



To edit an existing object, click **Edit**.

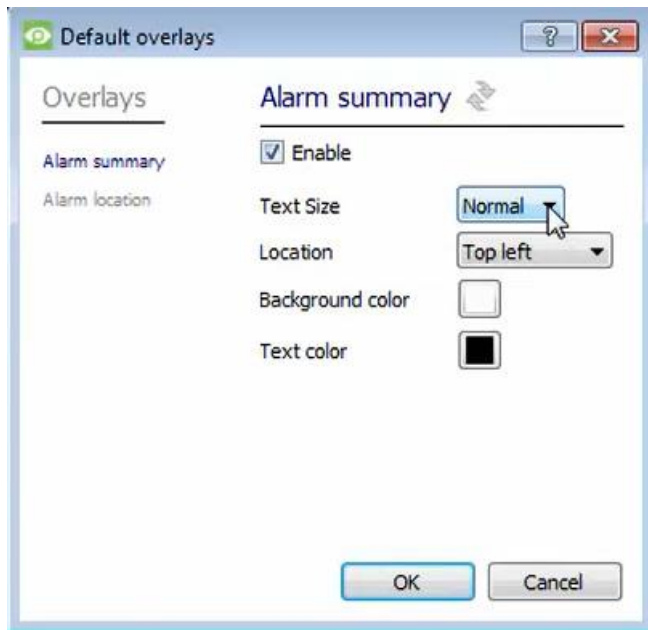


To delete an existing object from the CathesisVision configuration, click **Delete**.

#### 2.2.1.2 Configure Overlays



To configure device overlays, click the spanner icon.




The user can configure the **Alarm** or **Alarm location** overlays by selecting either of these options on the left, and then selecting preferences from the menus on the right.

### 2.2.1.3 Link an object to a camera




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.

Double-click the object to open the **Edit Object** window.

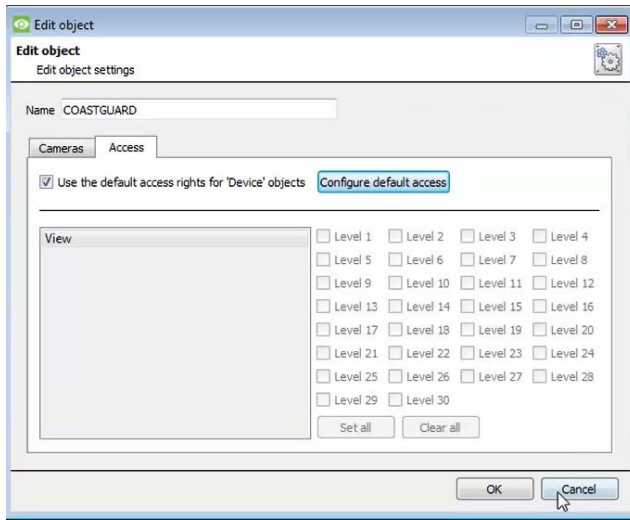
To add a camera, click , and select the relevant camera from the drop-down menu.

To delete a camera, click .

 To configure device overlays, click on the spanner icon.  
(See **Configure Device Overlays** above.)



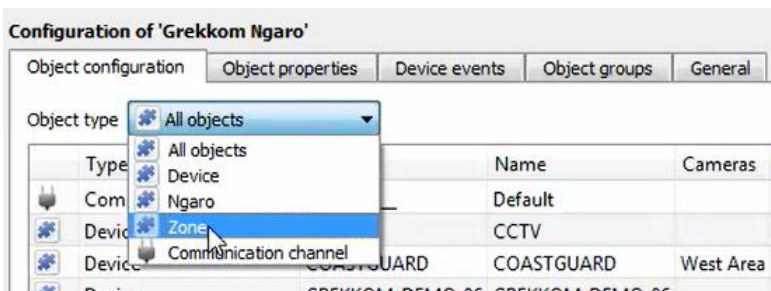
### 2.2.1.4 Set Access Rights



The **Access** tab allows users to set access rights.

To edit the default object access rights, click **Configure default access**.

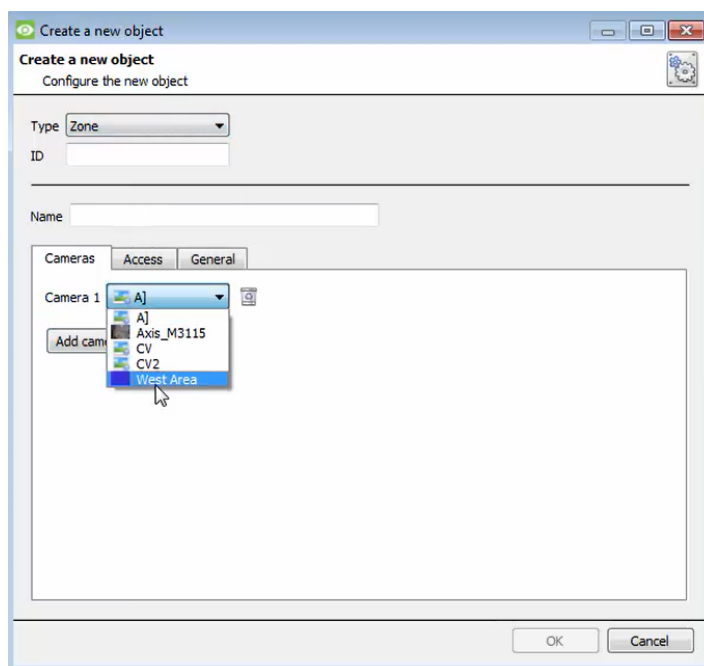
### 2.2.1.5 Create a zone



In the **Object configuration** tab, select **Zone** as the object type.

Click **New**. This will open the **Create a new object** window.

### Add a camera to the zone



In the **Create a new object** window, select **Zone** as the Type.

Enter the zone **ID**.

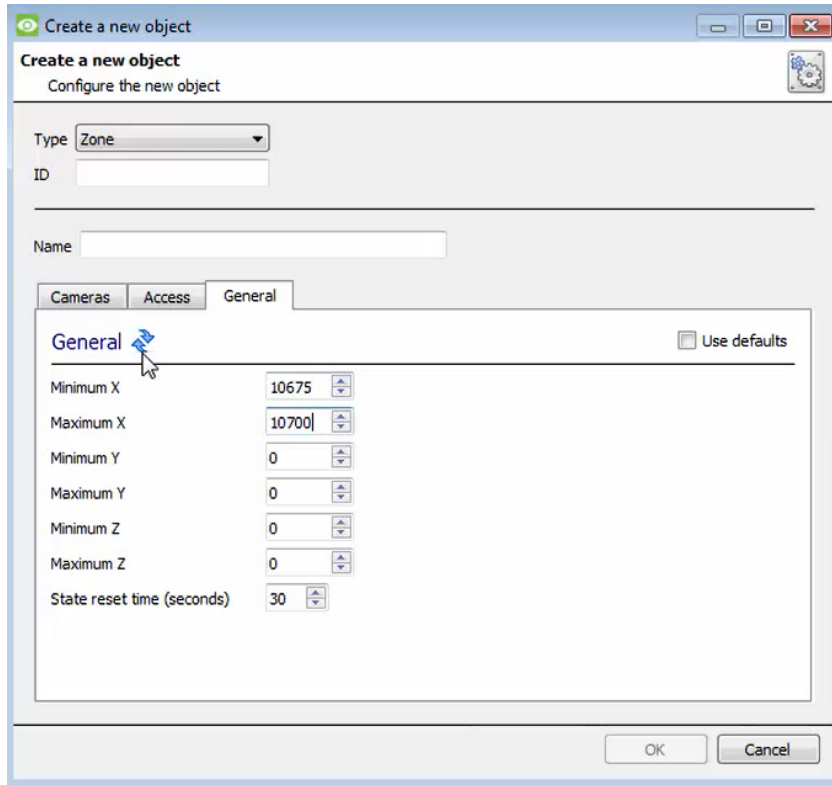
Give the zone a descriptive **name**.

Choose a **camera** to add to the zone.

## Configure Access Rights

Click on the **Access** tab to configure access rights.

## General Zone Settings

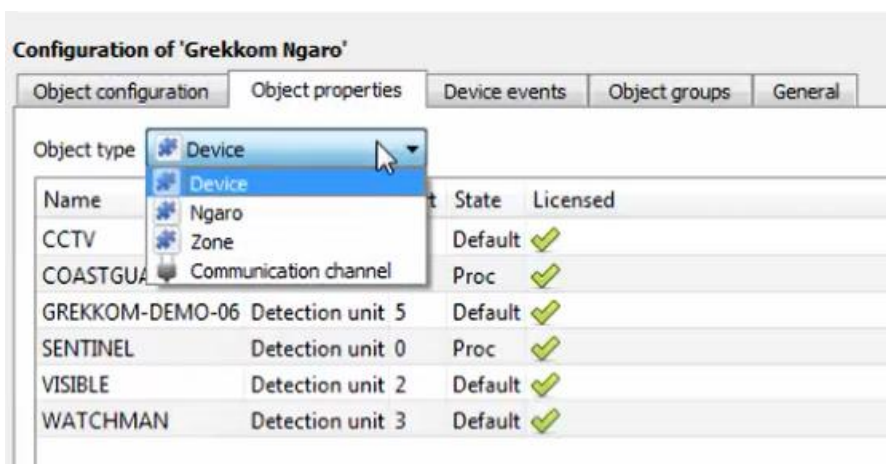


In the **General** tab, enter the co-ordinates of the zone area.

Enter the **state reset time**, which will indicate when the alarm will reset to a normal state.

Click **OK**.

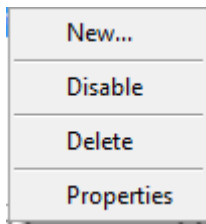
## 2.2.2 Objects Properties Tab



The **Object properties** tab displays the objects' properties, sorted by type.

For the Grekkom Ngaro integration, the objects are sorted by **Device**, **Ngaro**, **Zone**, and **Communication channel**.

### 2.2.2.1 Object Properties Right-click Options



**New** will open up the dialogue to add a new object.

**Disable/Enable** allows the user to manually enable/disable individual objects.

**Delete** will permanently remove this object from the list.

**Properties** will open up the options for configuring object Properties.

### 2.2.3 Device Events Tab

Configuration of 'Grekkom Ngaro'

Object configuration | Object properties | **Device events** | Object groups | General

All events ▼

Event type							
Alarm	2020-11-19 12:49:13	COASTGUARD	EMBARCACION1	19	10688	9751	1
Alarm update	2020-11-19 12:49:14	COASTGUARD	EMBARCACION1	19	10690	9755	1
Alarm	2020-11-19 12:49:15	COASTGUARD	EMBARCACION1	19	10692	9759	1
Alarm	2020-11-19 12:49:39	SENTINEL	PRESENCIA	21	9571	10185	1
Alarm	2020-11-19 12:49:41	SENTINEL	PRESENCIA	22	9571	10176	1
Alarm	2020-11-19 12:49:42	SENTINEL	PRESENCIA	21	9570	10176	1
Alarm	2020-11-19 12:49:45	SENTINEL	PRESENCIA	21	9572	10182	1
Alarm	2020-11-19 12:49:48	COASTGUARD	EMBARCACION1	20	10670	9721	1
Alarm update	2020-11-19 12:49:49	COASTGUARD	EMBARCACION1	20	10670	9723	1
Alarm	2020-11-19 12:49:48	SENTINEL	PRESENCIA	21	9571	10180	1
Alarm	2020-11-19 12:49:50	COASTGUARD	EMBARCACION1	20	10672	9726	1
Alarm update	2020-11-19 12:49:51	COASTGUARD	EMBARCACION1	20	10674	9728	1
Alarm	2020-11-19 12:49:51	SENTINEL	PRESENCIA	21	9571	10180	1
Alarm	2020-11-19 12:49:52	COASTGUARD	EMBARCACION1	20	10676	9731	1
Alarm update	2020-11-19 12:49:53	COASTGUARD	EMBARCACION1	20	10676	9734	1
Alarm	2020-11-19 12:49:54	COASTGUARD	EMBARCACION1	20	10682	9738	1
Alarm update	2020-11-19 12:49:55	COASTGUARD	EMBARCACION1	20	10682	9741	1
Alarm	2020-11-19 12:49:55	SENTINEL	PRESENCIA	21	9569	10175	1
Alarm	2020-11-19 12:49:56	COASTGUARD	EMBARCACION1	20	10684	9744	1
Alarm update	2020-11-19 12:49:57	COASTGUARD	EMBARCACION1	20	10686	9748	1
Alarm	2020-11-19 12:49:57	SENTINEL	PERMANENCIA	25	9571	10180	1

This tab lists all events sent from the device.

Device events can be sorted to display **All events**, **Alarm**, **Alarm update**, **Connection**, and **Zone** events.



The integration will send CathexisVision an alarm whenever an object is detected.

The alarm will contain a target ID.

The integration will continue to send alarms while the object is being tracked.

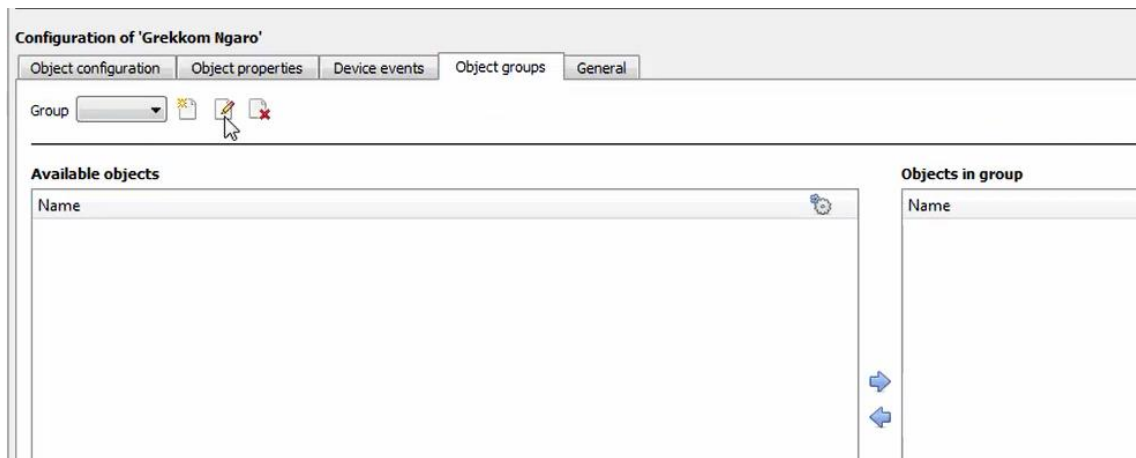
When a new target ID is received, an alarm device is generated.

Subsequent alarms with the same target ID will generate alarm update device events.

The start and end time of the event will be stored in the metadatabase.

## 2.2.4 Groups Tab

Groups of the same type of object can be created. **Tip:** Events can be triggered by an object group.



### 2.2.4.1 Create a Group

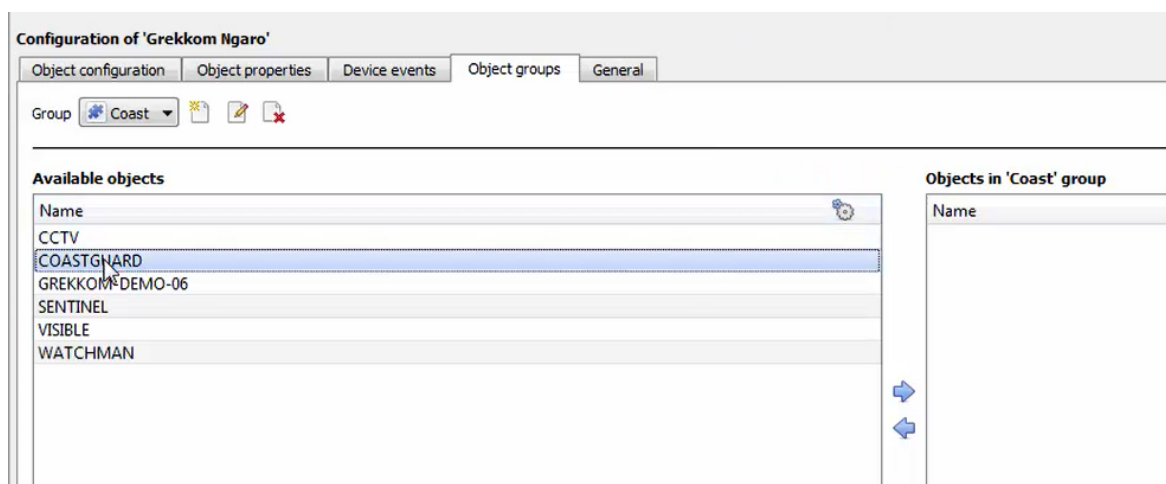


To create/edit an object group, click on / .

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

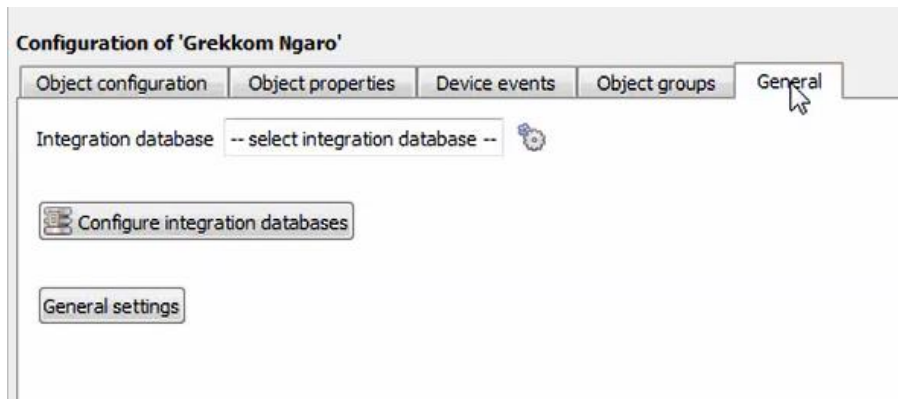
Give the group a descriptive **Group name**.

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



A list of available objects will be displayed. To add or remove these objects to the group, select them and click on / . Note: multiple objects may be selected at a time.

## 2.2.5 General tab

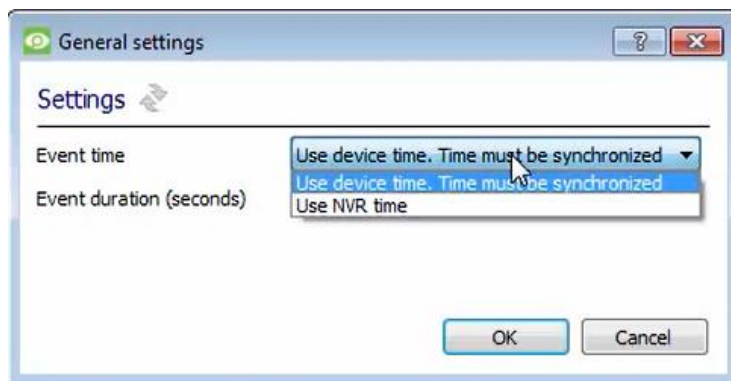


In the **General tab**, an **integration database** can be created, and time settings can be configured by clicking on the **General settings** button.

**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 CathesisVision system.

### 2.2.5.1 General settings

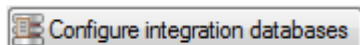
Click the **General settings** button.



As this integration is time-critical, the event time can be set to **Use device time**, or **Use NVR time**.

Set the **Event duration**.

### 2.2.5.2 Configure a new database

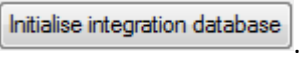


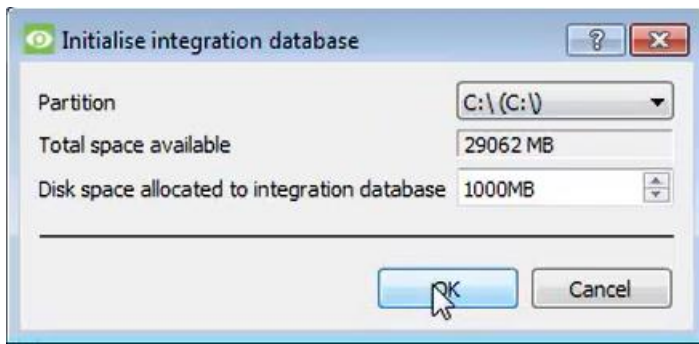
To create a new database, click on this button.

#### Initialise the Integration Database

The first time an integration database is added, this feature will need to be initialised. This will add a broad database, into which all integrated devices' databases will be added.

Select the unit the database will be added to from the list on the left.

Click .

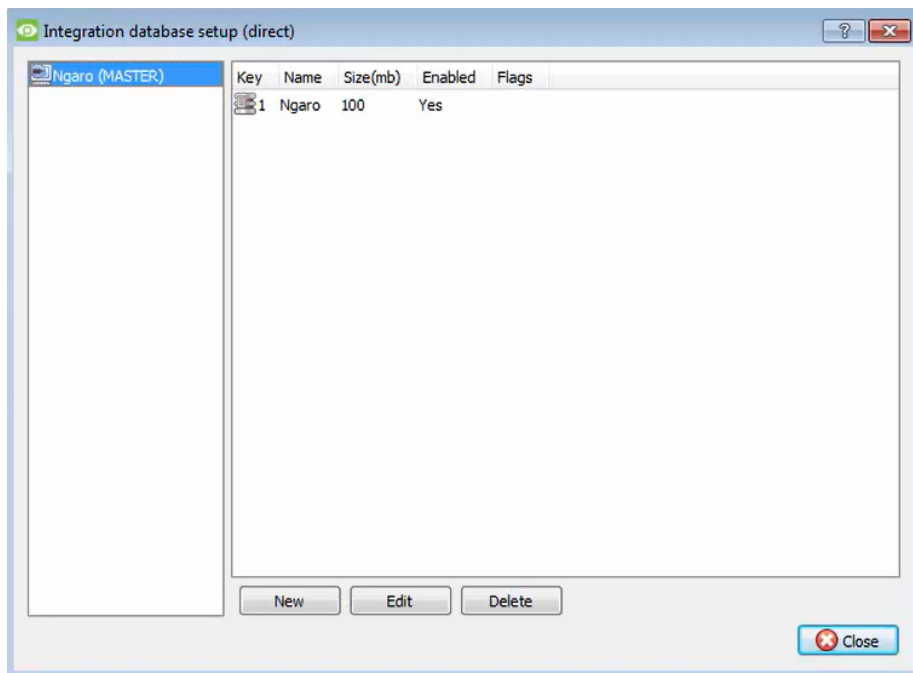



The user needs to choose the partition the database will be formed on, and select how much space will be allocated to it.

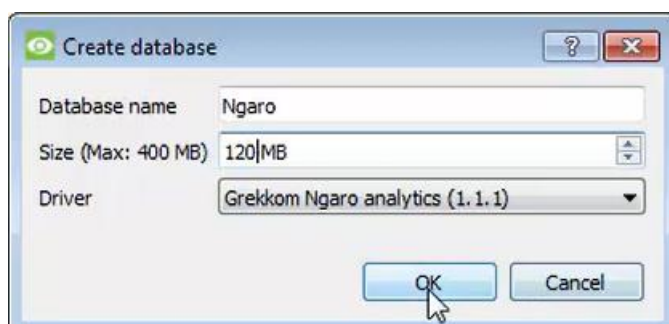
### Add a New Devices Database

After initialisation, the database can be added to the integration. In the Integration Devices panel, select **General**.

Click . The **Integration database setup** window will appear.



Click on the  button at the bottom of the **Integration database setup** window.

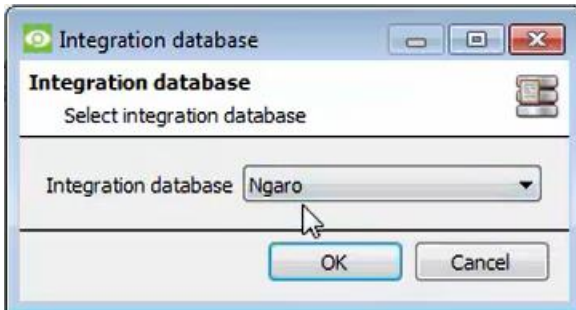


Give the Integration database a descriptive **Name**.  
 Allocate a **Size** to the new device database.  
 Choose the device **Driver**.  
 Click **OK** to create the database.

### 2.2.5.3 Select the Ngaro integration database

Integration database

In the **General** tab, select the gear icon:



In the dialogue that appears, the user can select the Ngaro integration database.

## 3. Camera Tab Overlay Setup

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

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


### 3.1 Video Feed Options Panel



To bring up the overlay, click the arrow to the left of the screen to pop out the Video feed options panel. The Video feed options panel will present options specific to the settings configured for that video feed.

#### 3.1.1 Select the Overlay



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

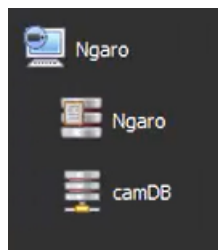
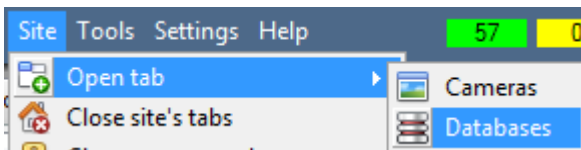
Select the overlay and it will appear over the video feed.



## 4. Database

The database tab allows for navigation of the databased entries. It has built-in filters, and the ability to navigate by timestamp. If a database entry has an associated recording, the user can launch this recording from within the database tab.

### 4.1 Navigate to the Database



Follow the path shown to the left to view the information stored in the integration database.

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

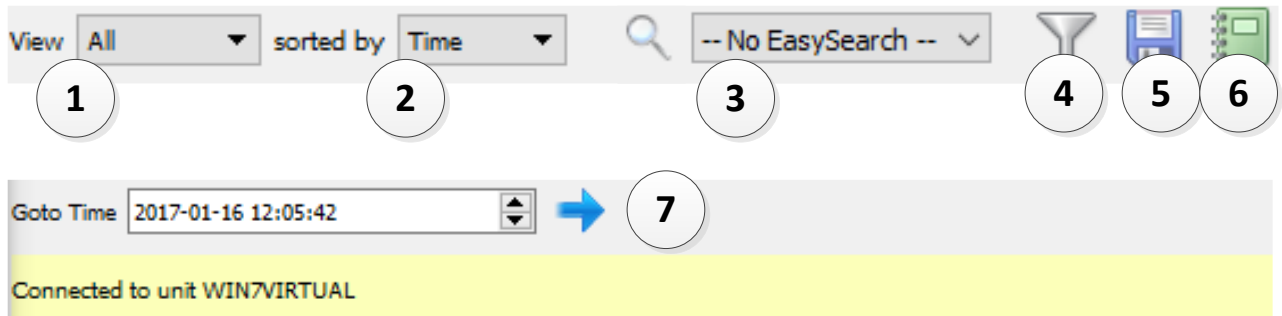
View: Alarms sorted by: Time


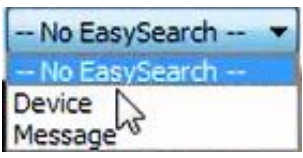





Start time	End time	Device	Message	Target ID	X	Y	Z	Links
2020-11-19 15:09:39	2020-11-19 15:09:50	COASTGUARD	EMBARCACION1	16	10670	9721	1	
2020-11-19 15:10:24	2020-11-19 15:10:35	COASTGUARD	EMBARCACION1	17	10670	9721	1	
2020-11-19 15:10:30	2020-11-19 15:10:40	COASTGUARD	EMBARCACION1	18	10678	9731	1	
2020-11-19 15:10:33	2020-11-19 15:10:36	SENTINEL	PRESENCIA	19	9563	10169	1	
2020-11-19 15:10:36	2020-11-19 15:10:39	SENTINEL	PRESENCIA	20	9548	10287	1	
2020-11-19 15:11:03	2020-11-19 15:11:06	SENTINEL	PRESENCIA	9	9548	10183	1	
2020-11-19 15:11:08	2020-11-19 15:11:19	COASTGUARD	EMBARCACION1	19	10670	9721	1	
2020-11-19 15:11:45	2020-11-19 15:12:03	SENTINEL	PRESENCIA	21	9571	10185	1	
2020-11-19 15:11:47	2020-11-19 15:11:57	SENTINEL	PRESENCIA	22	9570	10174	1	
2020-11-19 15:11:53	2020-11-19 15:12:04	COASTGUARD	EMBARCACION1	20	10670	9721	1	
2020-11-19 15:11:59	2020-11-19 15:12:09	COASTGUARD	EMBARCACION1	21	10678	9732	1	
2020-11-19 15:12:03	2020-11-19 15:12:06	SENTINEL	PERMANENCIA	25	9571	10180	1	
2020-11-19 15:12:22	2020-11-19 15:12:31	SENTINEL	PRESENCIA	10	9551	10199	1	
2020-11-19 15:12:28	2020-11-19 15:13:04	SENTINEL	PERMANENCIA	29	9568	10191	1	
2020-11-19 15:12:28	2020-11-19 15:12:40	SENTINEL	PRESENCIA	23	9549	10235	1	
2020-11-19 15:12:38	2020-11-19 15:12:42	COASTGUARD	EMBARCACION1	22	10670	9721	1	
2020-11-19 15:12:44	2020-11-19 15:12:50	COASTGUARD	EMBARCACION1	23	10680	9736	1	
2020-11-19 15:12:48	2020-11-19 15:12:57	SENTINEL	PRESENCIA	24	9535	10224	1	
2020-11-19 15:12:56	2020-11-19 15:13:26	SENTINEL	PRESENCIA	11	9543	10208	1	
2020-11-19 15:13:22	2020-11-19 15:13:33	COASTGUARD	EMBARCACION1	24	10670	9721	1	
2020-11-19 15:14:00	2020-11-19 15:14:03	SENTINEL	PRESENCIA	25	9563	10169	1	
2020-11-19 15:14:03	2020-11-19 15:14:06	SENTINEL	PRESENCIA	26	9545	10287	1	
2020-11-19 15:14:07	2020-11-19 15:14:18	COASTGUARD	EMBARCACION1	25	10670	9721	1	
2020-11-19 15:14:30	2020-11-19 15:14:34	SENTINEL	PRESENCIA	12	9548	10183	1	

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

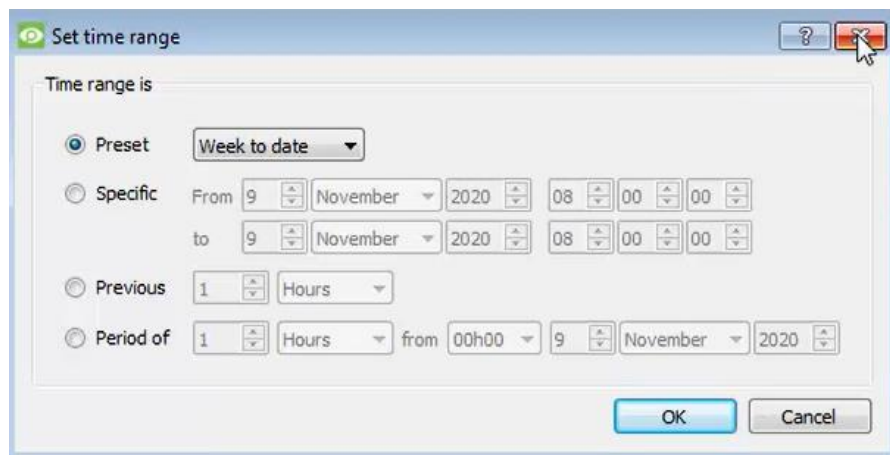
On the left is an image of the Ngaro database.

## 4.2 Database Interface



<p>① <b>View</b></p>	<p>Users may change the way that the database is presented. The <b>Ngaro</b> database has the following view options – <b>Alarms</b> or <b>Connection</b>:</p> 
<p>② <b>Sorted By</b></p>	<p>Events can be sorted based on the parameter of <b>Time</b>.</p>
<p>③ <b>Easy Search</b></p>	<p>The EasySearch option allows users to quickly search the database within one of the following options:</p> 
<p>④ <b>Filter</b> </p>	<p>Filter offers an advanced manner of sorting information in the Integration Database table.</p> <p>The following options are available within the Filters dialogue:</p> <p>To <b>enable</b> filters check this box: <input checked="" type="checkbox"/> Enable filters</p> <p>To <b>add</b> a new filter click on .</p> <p>The filter icon  will change to  when filters are active.</p> <p>To <b>delete</b> an added filter click on .</p> <p>The options in this integration are <b>Start time, End time, Device, Message, Target ID,</b> and <b>co-ordinates</b>.</p> <p>A <b>Time range</b>, within which the search will be conducted, may also be set.</p> <p>To set a <b>Time range</b>, click on the blue hyperlinked text which specifies time (e.g. <a href="#">in the Week to date</a> ).</p>


This will bring up the following dialogue box, where the time range can be defined:




**Note:**

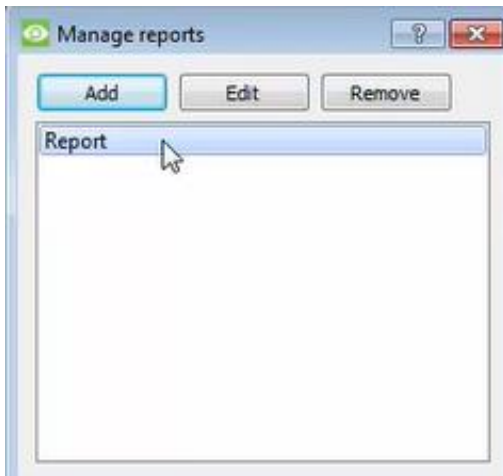
Multiple filters may be run simultaneously, and the same parameter be used to filter more than once.

[Time](#) : To change a filter click on the blue hyperlinked text. (For example, click on **Time** to change the filter from Time to any of the other available options.)

<p>⑤ <b>Export</b></p>	<p>Generate metadatabase reports in PDF or CSV format. See below.</p>
<p>⑥ <b>Manage Reports</b></p>	<p>Generate scheduled metadatabase reports. See below.</p>
<p>⑦ <b>Go to Time</b></p>	<p>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, and then click on the  icon.</p>

## 4.2.1 Scheduled Metadatabase Reports

Click the  icon to open the scheduled report window.

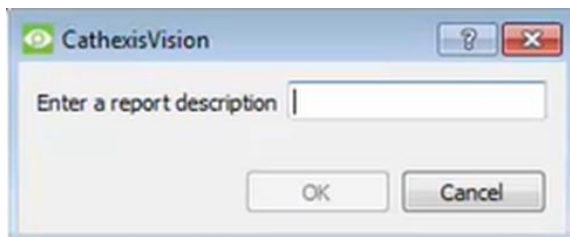


All created reports will be listed here.

First, click **Add** to create a report. Then **edit** to define the reporting schedule. See below for more detail.

To create, edit, or delete a report, select the entry and click on the corresponding button.

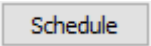
### 4.2.1.1 New Scheduled Report

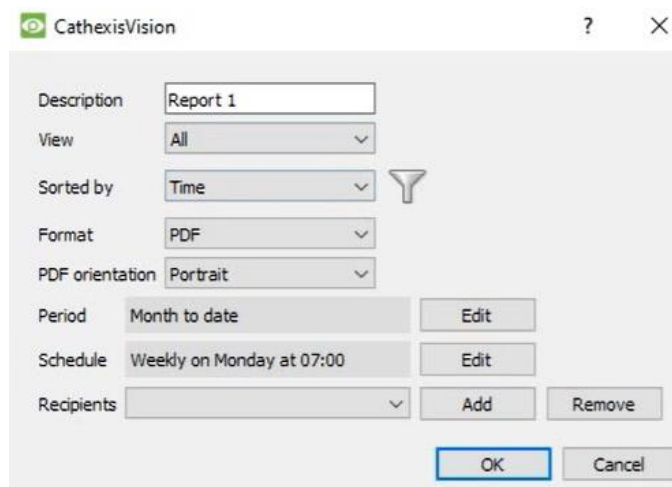


Click **Add** and give the report a description.

Click **OK** when done.

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

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



Edit the **description** if needed.

Edit **Viewing** options.

Select the **Sorted by** option.

Select the **Format**.

Select the **orientation** of the Format.

Select the **period** to be reported on.


Define the **Schedule** for the report.

Add/remove recipients to whom reports will be sent.

**Add recipient:** Click **Add** and enter the email address of the recipient. Multiple recipients may be added. All will receive emails.

**Remove recipient:** Select the recipient from the dropdown menu and click **Remove**.

## 4.2.2 Generate Metadatabase Reports

Click the  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.

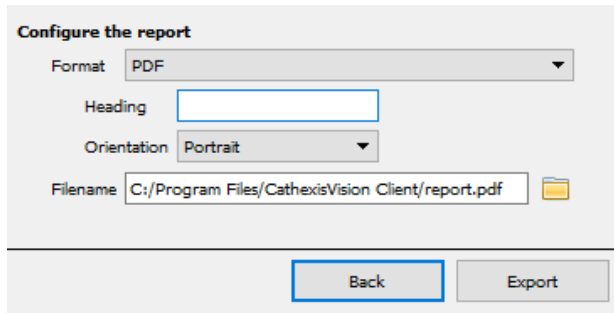
See below for the two options.

### 4.2.2.1 Export CSV

Select **CSV Format**.


Edit the **Filename** by either entering it straight into text field (replacing **report.csv**), or click the  to choose a new save folder and filename.

### 4.2.2.2 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  to choose a new save folder and filename.

### 4.2.3 Metadata

<b>Start time</b>	2020-11-19 15:12:44
<b>Device</b>	COASTGUARD
<b>Message</b>	EMBARCACION1
<b>Target ID</b>	23
<b>X</b>	10680
<b>Y</b>	9736
<b>Z</b>	1

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

### 4.2.4 Viewing an Entry's Associated Recording



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

To view a databased event's recording, click on the event entry in the database list. Then view the recording by pressing the **play** icon underneath the window on the right.

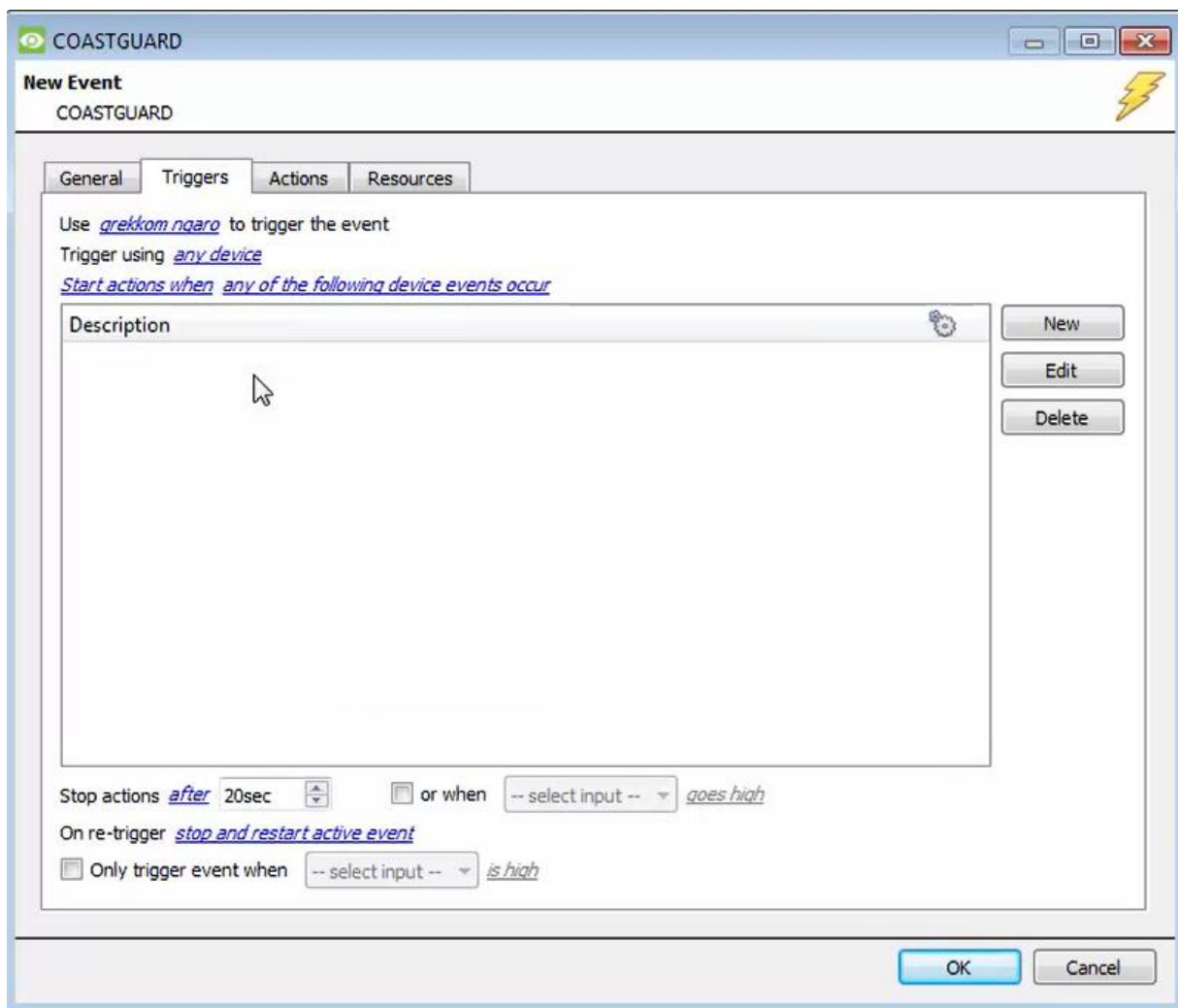
## 5. Events

A CathesisVision Event has a trigger, which causes an action. Set integrated devices to act as triggers, or as actions. This document details the Ngaro-specific aspects of Events. There is a comprehensive guide to CathesisVision Events in the main setup manual.

Most of the data that CathesisVision receives from a device is presented in the Events interface. This is done in order to give the user a full range of options.

### 5.1 Event Window


Events in CathesisVision are set up via the Event Window, which 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 are defined. In the **Actions Tab** the action/s which the event takes are defined. In the **Resources Tab** the various site resources which can be used as part of an event are defined.



## 5.2 Creating an Event

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



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

### 5.2.1 While/When and Any/All

When triggering on an object, there is the option to trigger **while/when** a trigger is active. Define whether **all/any** of the triggers need to be active to start an event.

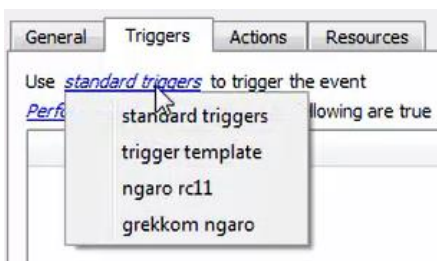
Use [grekkom ngaro](#) to trigger the event  
 Trigger using [any device](#)  
[Start actions when any of the following device events occur](#)

To change these settings, click on blue hyperlinks.

## 5.3 Triggers

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

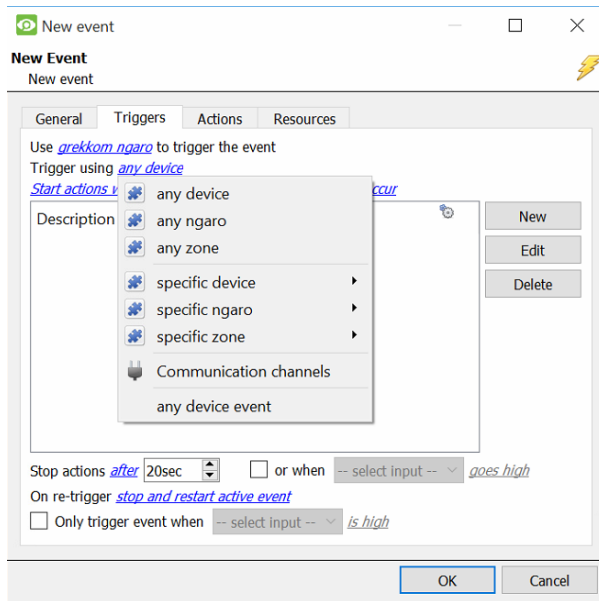
### 5.3.1 Set the device as the trigger



To define which device will be used to trigger the event, click on the hyperlink after "use". To set it as the Grakkom Ngaro device, click on the hyperlink, and select the device name from the dropdown menu.



### 5.3.2 Trigger Types (Trigger Using)

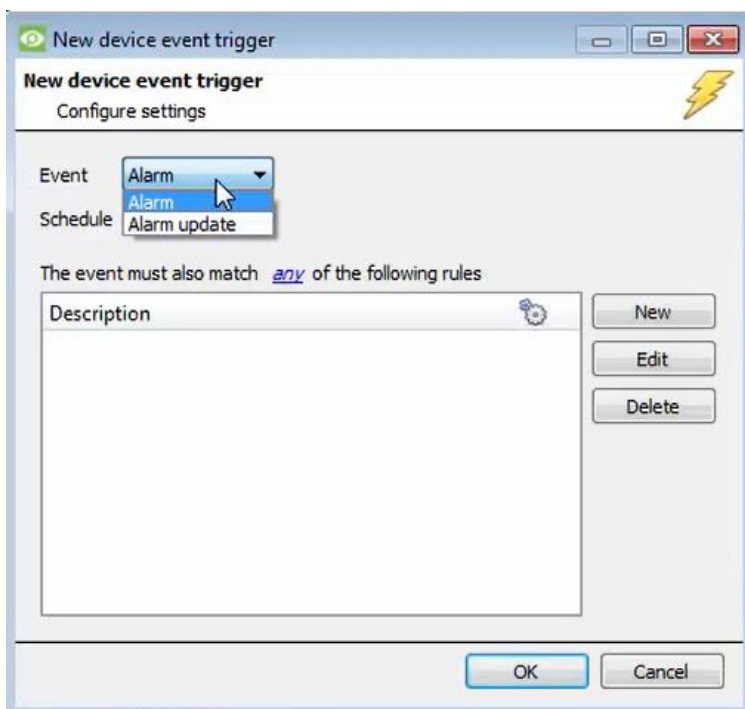


It is useful to think of this as a **master trigger type**.

**Note for group triggers:** For this event to be databased under the name of a specific object and not the name of the triggering group, the user will need to modify the Description field in the General tab of the Event setup. Click on the to see a list of available descriptions.

### 5.3.3 Define the Trigger

After selecting a master trigger type, add a trigger to the event. Click on in the Triggers tab. This will bring up the following dialogue box for the various trigger types:



For example, within the **device** option, choose the type of device Event that will be the trigger.

Choose from the drop-down menu.

**Note:** Multiple constraints (**Device Event Triggers**) can be set. If constraints are not defined, every single device event will trigger this event.

To add/edit/delete a **Device Event Trigger** (a constraint) use the **New**, **Edit**, and **Delete** buttons on the right-hand side.

Choose if [any](#), or [all](#) constraints need to be fulfilled to set off a trigger.



To configure a **New device event rule**, click on  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 options for rules.

**Note:** When all available options are known to CathesisVision, a drop-down menu is displayed. When these variables are not pre-defined, the user will need to fill them in.

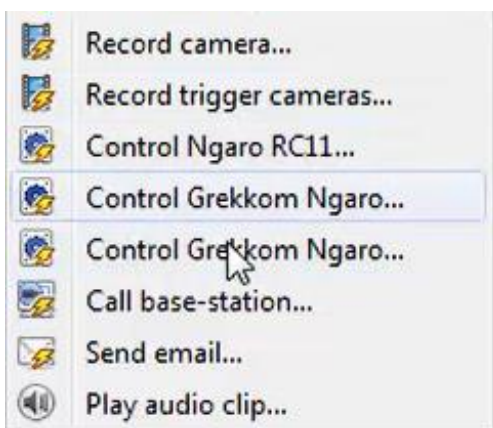
## 5.4 Actions



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


### 5.4.1 Adding an Action

To add an action, click  in the **Actions** tab.



A list of available actions will appear.

## 5.5 Resources tab



General Triggers Actions Resources

**Cameras**

-- select camera --

-- select camera --

-- select camera --

-- select camera --

-- select camera --

-- select camera --

-- select camera --

-- select camera --

-- select camera --

Use trigger resources

**Audio input** ?

-- select audio input --

**Audio output**

-- select audio output --

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

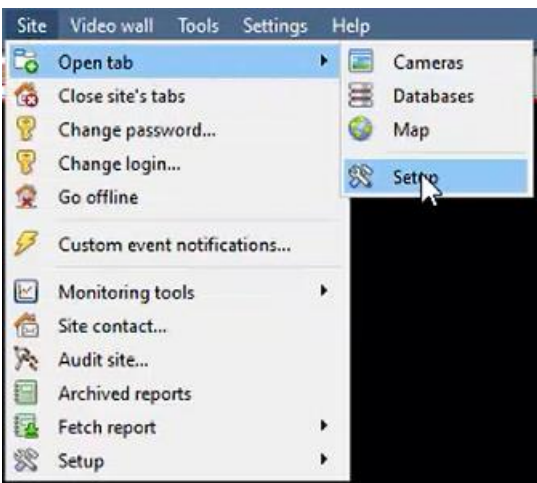
The user can also choose to **Use trigger resources**.

## 6. Map Editor

This section details how users can set up CathesisVision Map Editor to use with the Grekkom Ngaro integration.

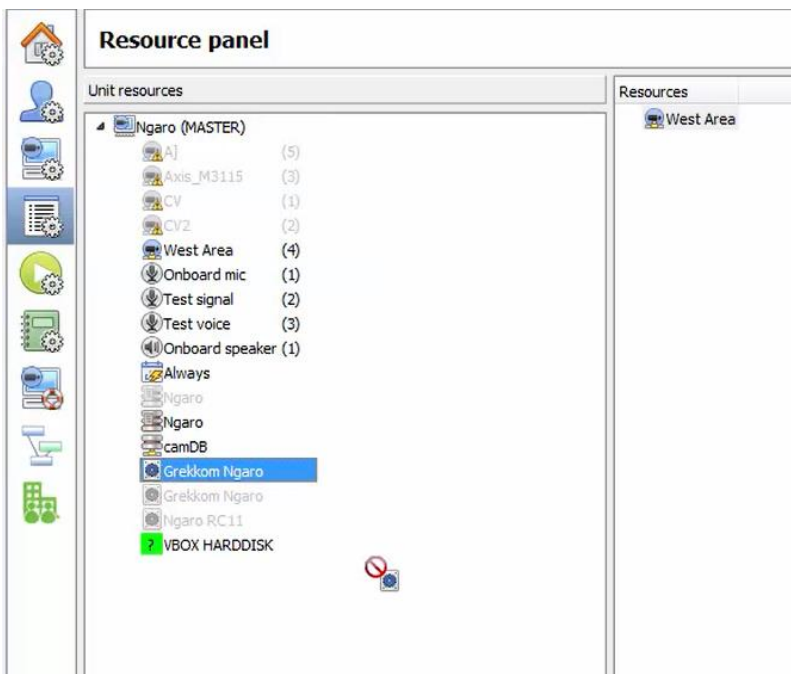
### 6.1 Add Grekkom Ngaro Integration to Resources

The Grekkom Ngaro integration will need to be added to Resources.



Follow the path shown to the left. Site / Open tab / Setup

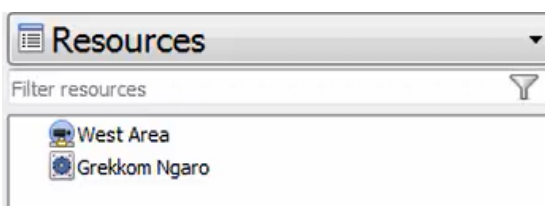
In Setup, click the **Configure Resources** icon:



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

Select the Grekkom Ngaro integration. Drag and drop it under **Resources** on the right.

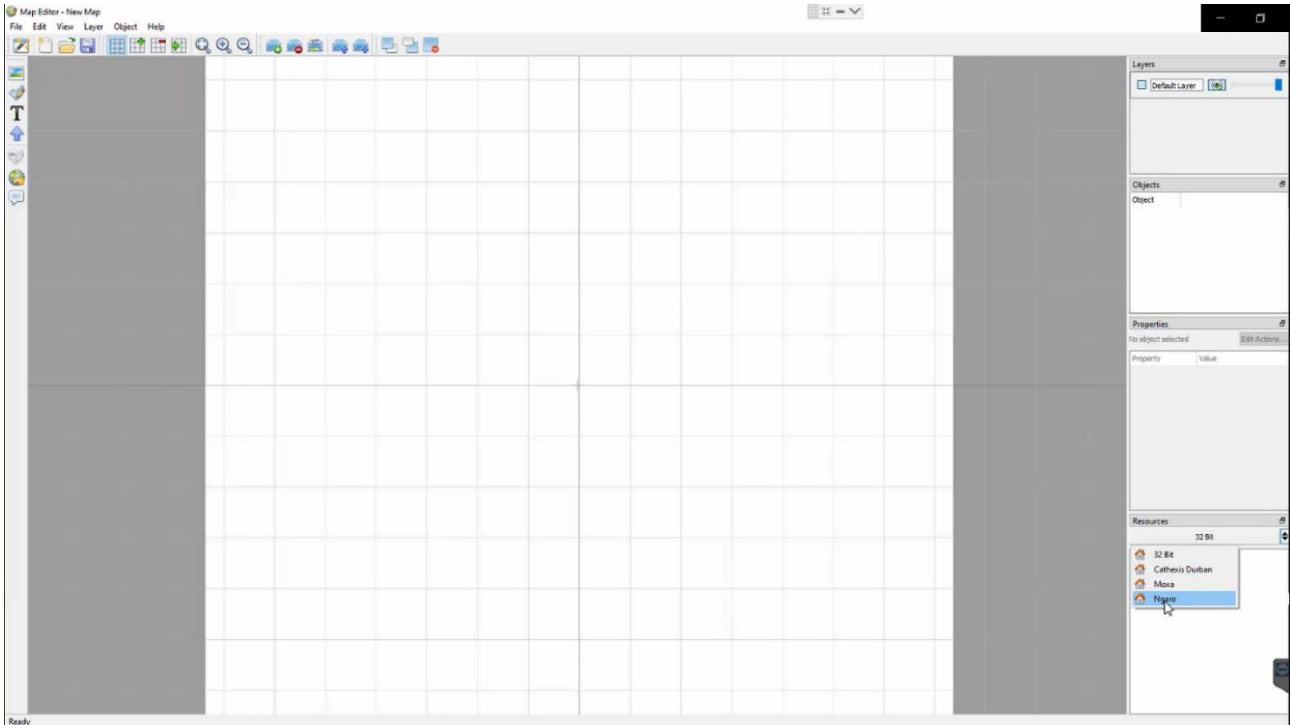
The Grekkom Ngaro integration device will now be listed under Resources.



In the Camera tab, the Grekkom Ngaro device will now be listed as a Resource.

## 6.2 Configure Map Editor

Open **Map Editor**.



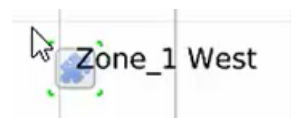
On the right, select the **Grekkom Ngaro** server. The Ngaro integration device will then be listed as a resource.

### 6.2.1 Add an input

Drag and drop the Ngaro integration onto the map interface.



Choose an **object** from the drop-down menu.



The object will now be visible on the map interface.

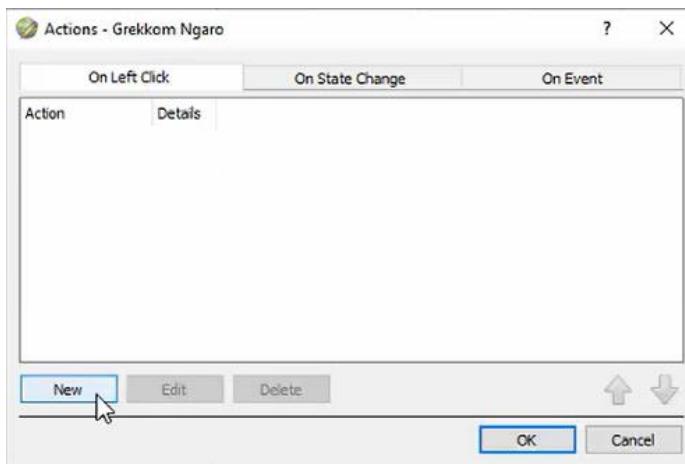
## 6.2.2 Edit Input



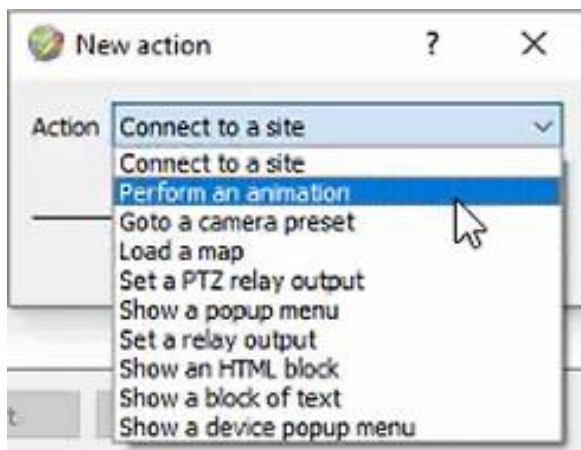
On the map interface, right-click on the zone. (Alternatively, the user can select Edit Actions on the right-hand tab, under Properties.)

Select **Edit actions**.

### 6.2.2.1 On Left Click

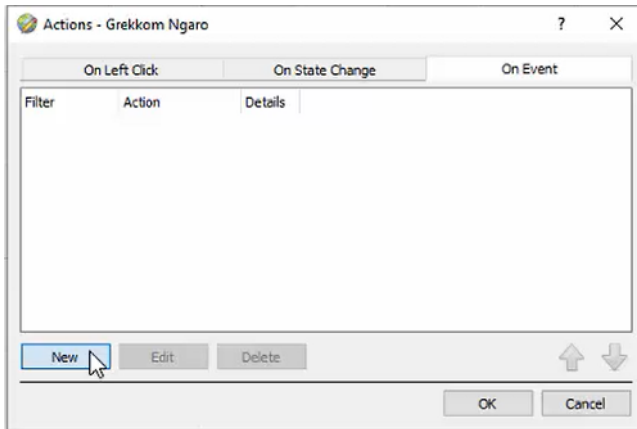


In the **On Left Click** tab in the window that appears, select **New**.

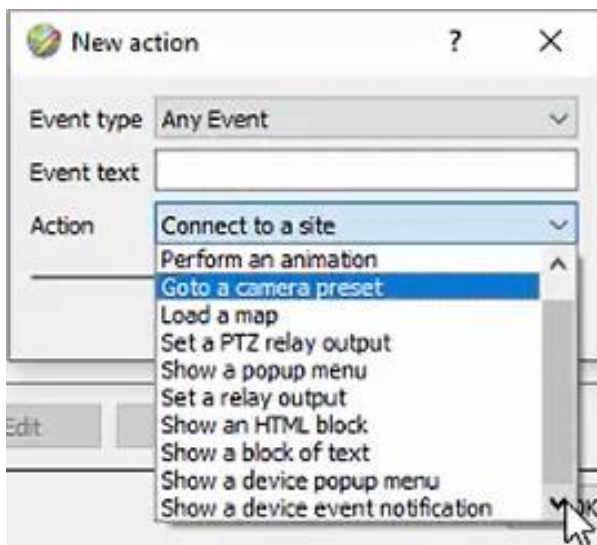


The user can choose an action from the drop-down list.

6.2.2.2 On Event



In the **On Event** tab, select **New**.




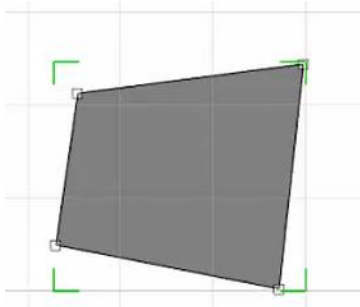
The user can choose the Event type (Any Event is the only option for this integration) and select an action from the drop-down list.

### 6.2.2.3 On State Change

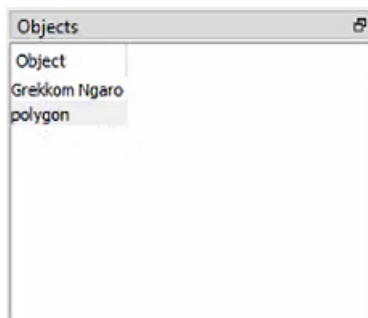
The following example shows how the user can set the polygon to turn green when the zone's target state is normal, and red when the zone's target state is alarm.

#### Add a polygon

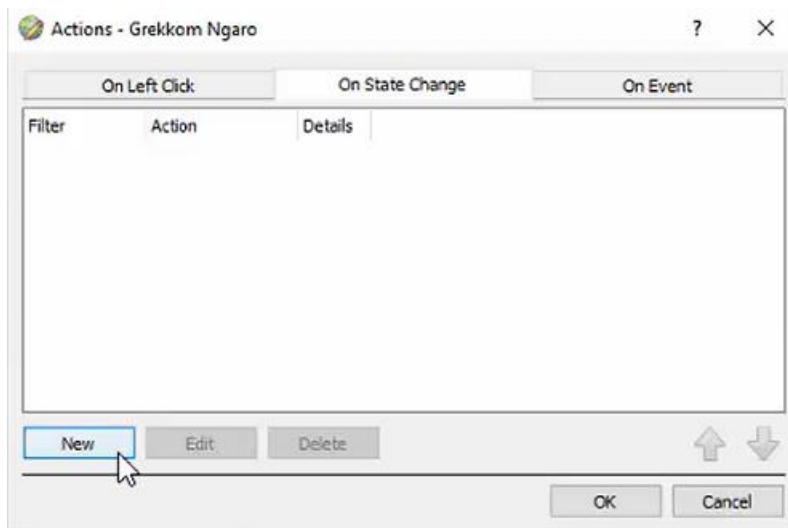
On the options bar on the left, click the **Add polygon** icon: 



Draw a **polygon** on the map interface.



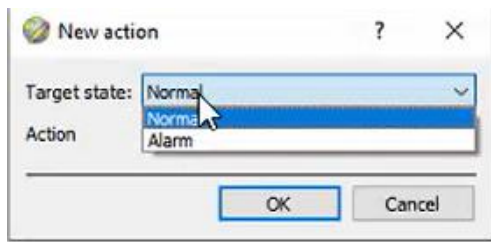
The polygon will now be listed under **Objects** on the right.



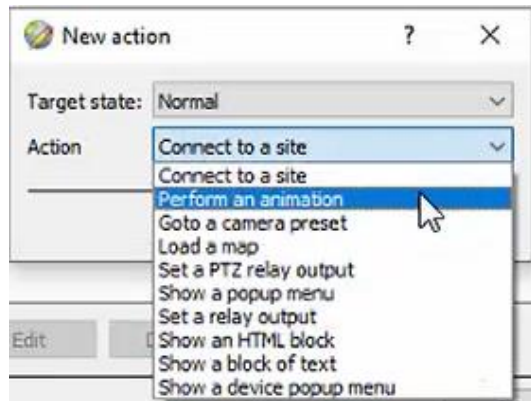
In the **On State Change** tab, select **New**.



## Target State – Normal

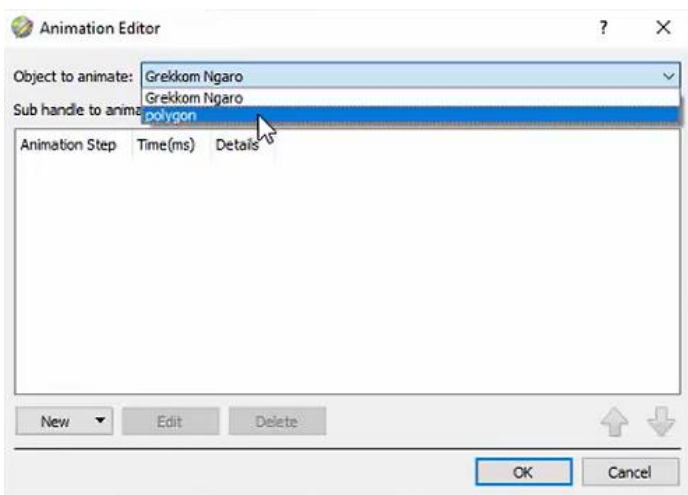


Select the **Target State** as **Normal**.

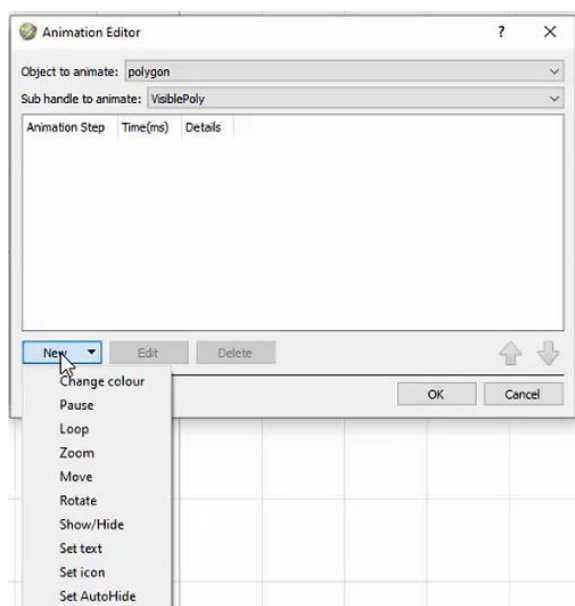


Select an Action. In this example, the user has selected **Perform an animation**.

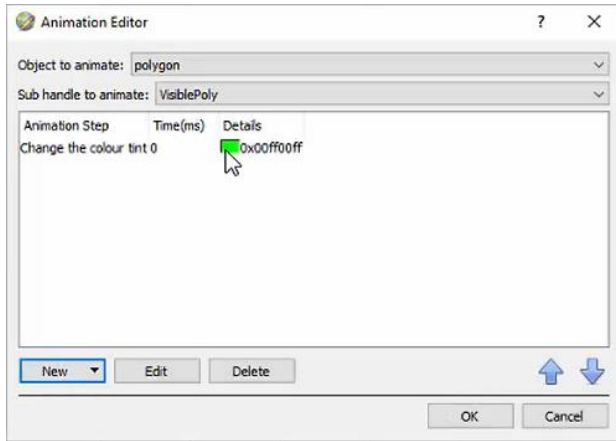
Click OK.



In the Animation Editor window that opens, select the polygon as the **Object to animate**.



Select Change colour from the drop-down list.

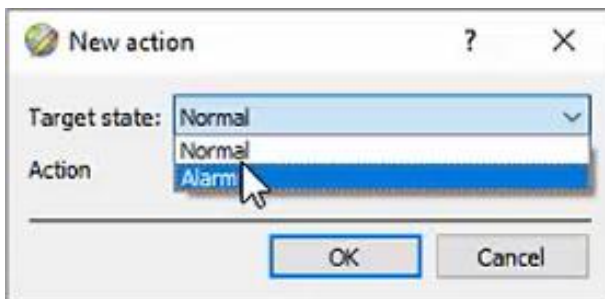


Double-click on the block of colour under **Details** to edit the colour. A window will appear with colour options.

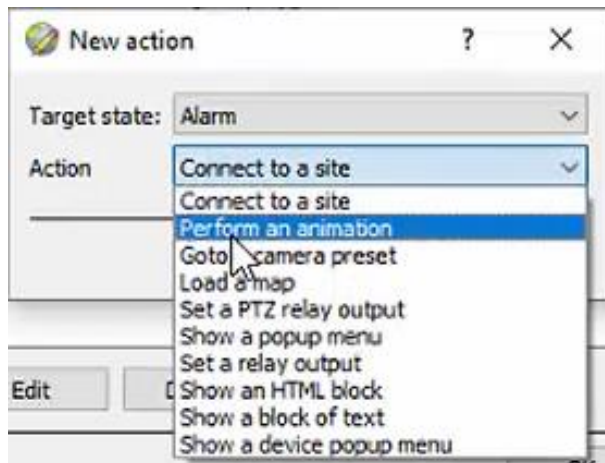
In this example, the user has chosen to keep the colour as green.

Click **OK**.

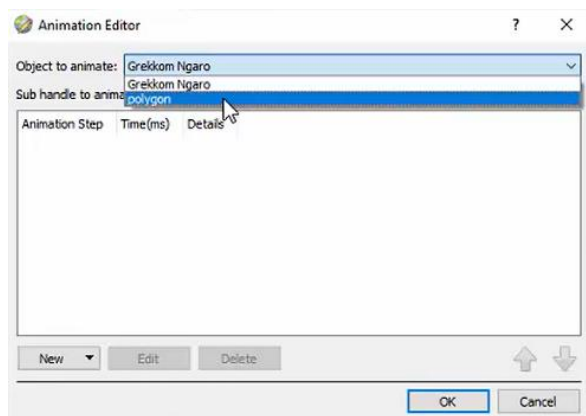
### Target State - Alarm



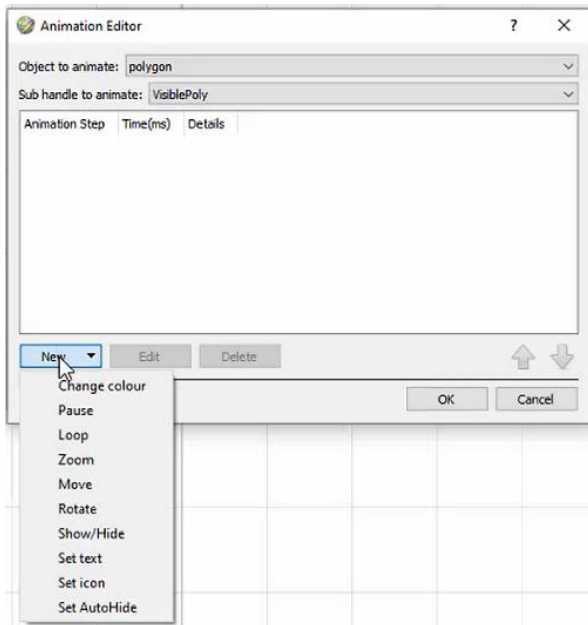
To change the settings for when the Target State is Alarm, select **Alarm** from the drop-down list.



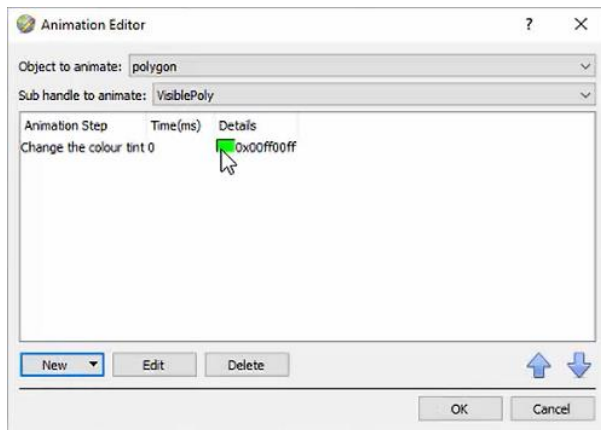
Select an Action from the drop-down list. In this example, the user has selected **Perform an animation**.



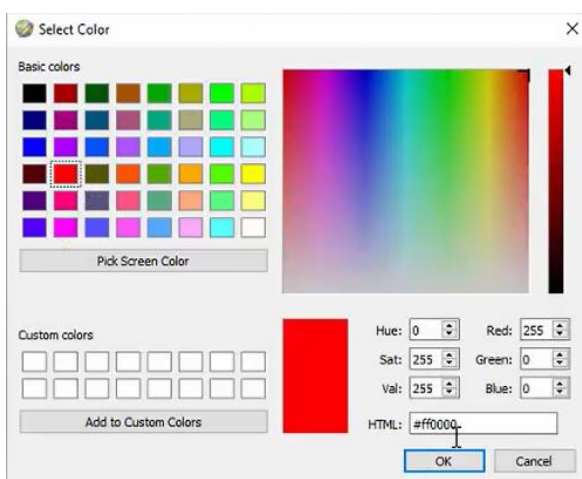
In the Animation Editor window that opens, select the polygon as the **Object to animate**.



Select **Change colour** from the drop-down list.



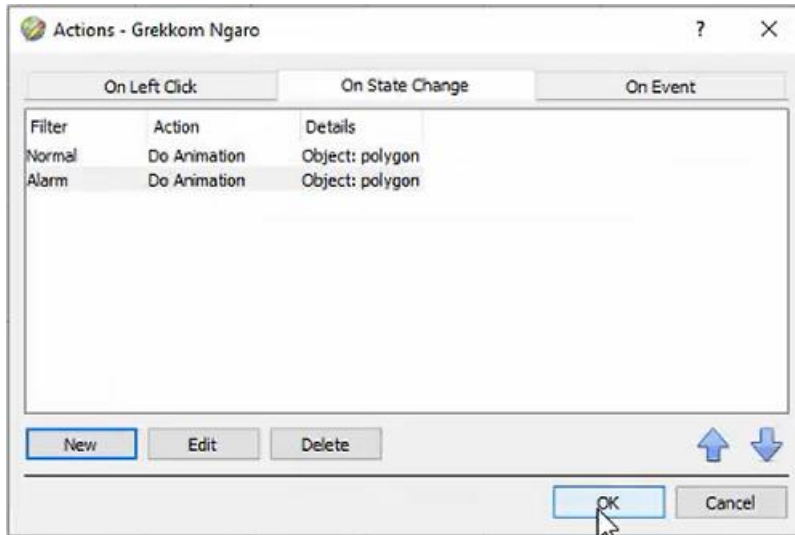
Double-click on the block of colour under **Details** to edit the colour. A window will appear with **colour options**.



Select the colour which will indicate that the Target State is Alarm. In this example, the user has selected red.

Click OK.

On returning to the Animation Editor window, click OK.

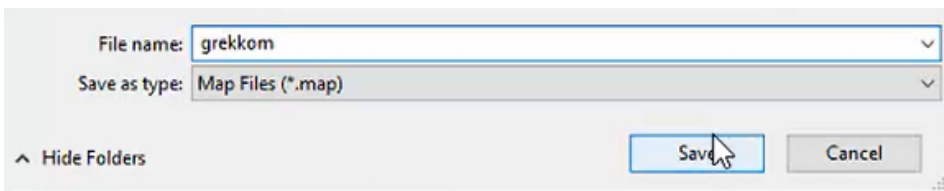


Click OK in the Actions – On State Change tab to confirm the selected settings.

### 6.3 Save map

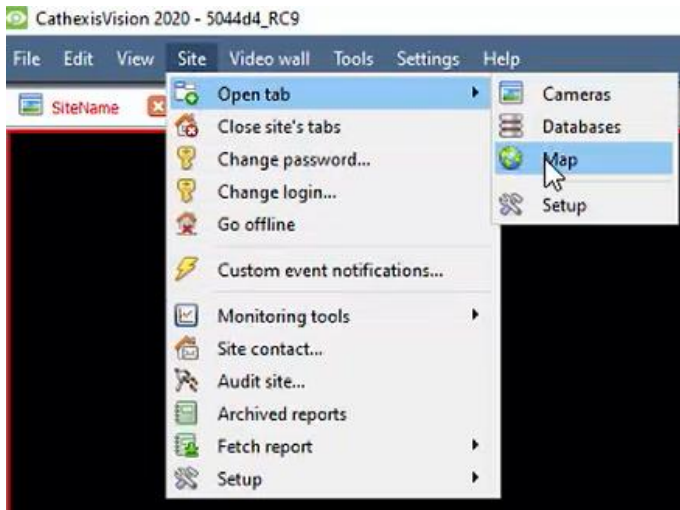


In Map Editor, click the **Save** icon.



Give the map a **name**.  
Click **Save**.

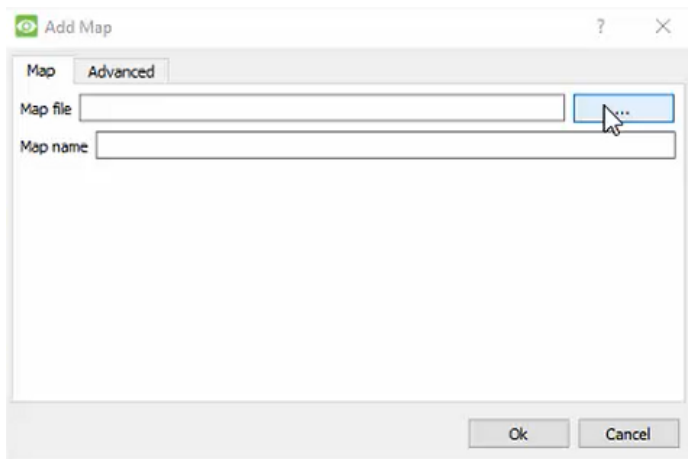
## 6.4 Load map on CathesisVision



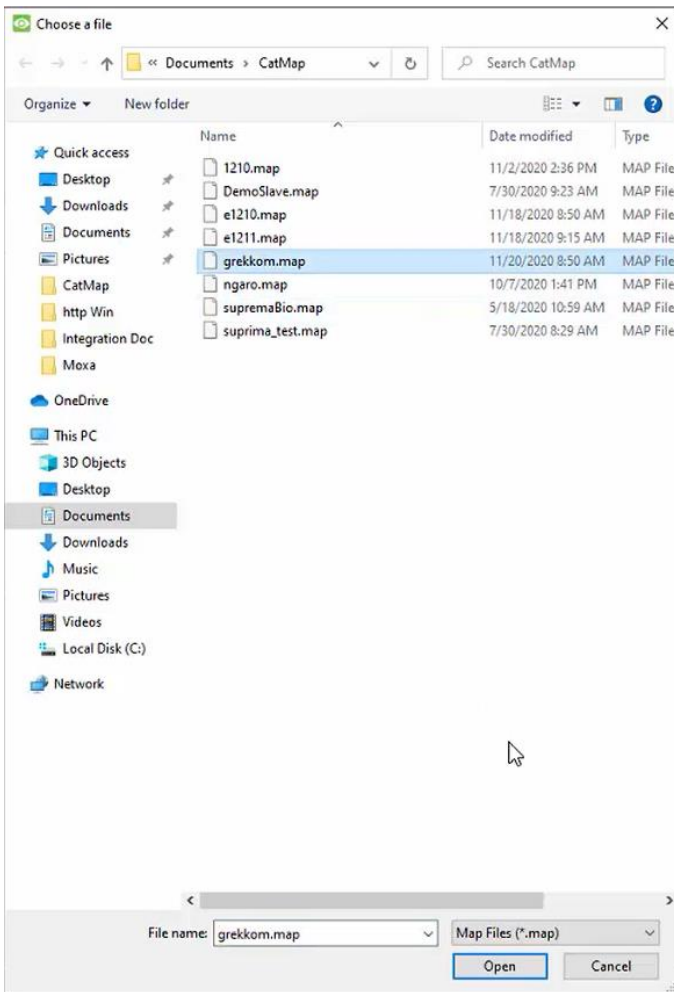
In CathesisVision, go to Site / Open tab / Map



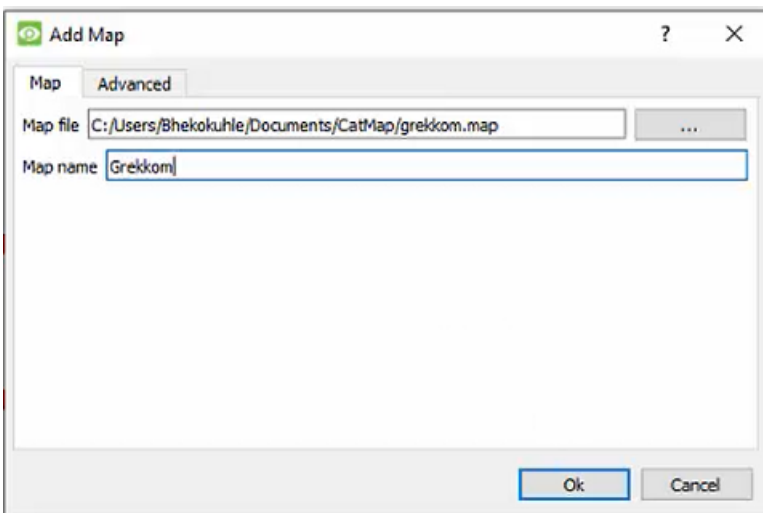
Then, in the Map tab, go to Map / **Add site map**



In the **Add Map** window that opens, click on the ellipses icon to retrieve the **Map file**.



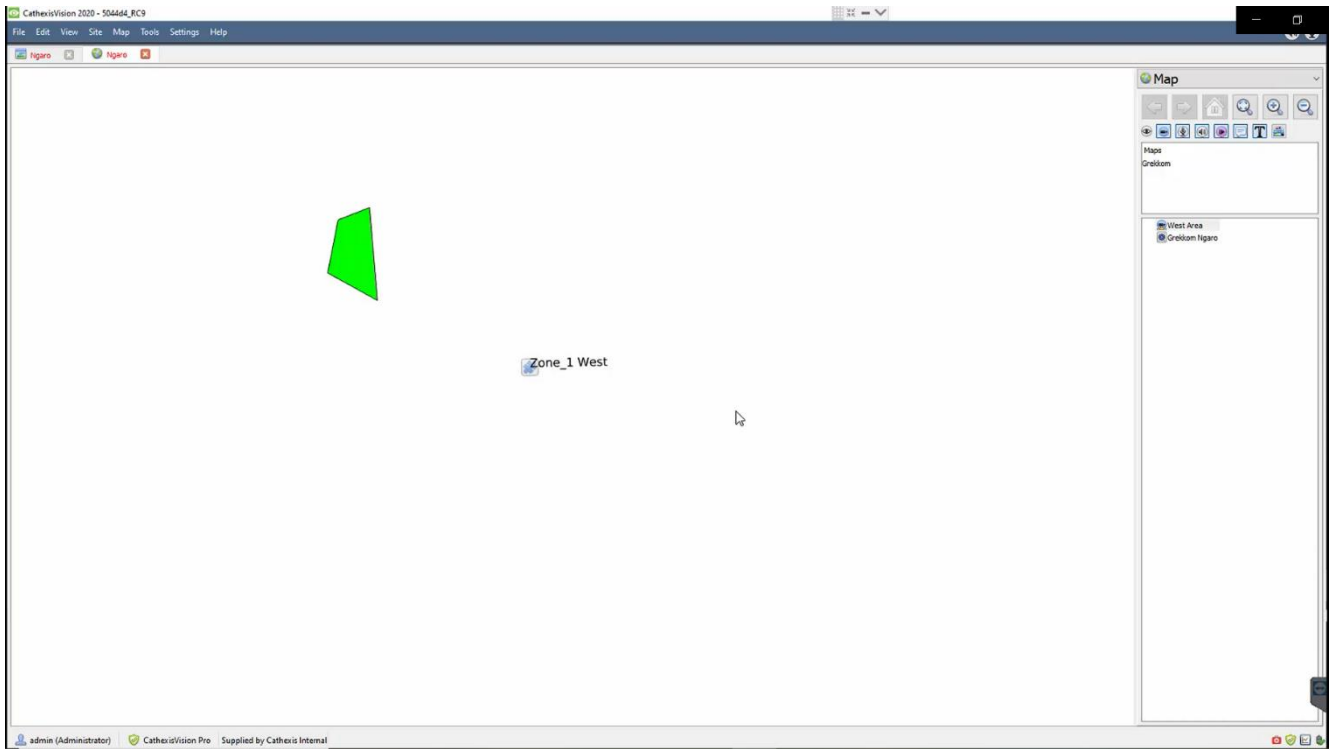
Select the integration map and then click **Open**.



Give the map a **descriptive name**.

Click **OK**.

The applied changes will now be reflected on the map, as shown below.



## 7. Conclusion

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

For support, please contact [support@cat.co.za](mailto:support@cat.co.za)