



OnDis Gateway Integration

App-note

Contents

1. Introduction.....	3
1.1 Requirements	3
1.2 Integration components	3
2. Device addition and configuration	4
2.1 Add a new device in CathesisVision	4
2.2 Configuration section (tabs)	5
3. Database.....	10
3.1 Navigate to the database	10
3.2 Database interface.....	10
4. Events	15
4.1 Event window	15
4.2 Triggers	16
4.3 Actions	18
4.4 Resources tab	18
5. Conclusion	19

While Cathesis has made every effort to ensure the accuracy of this document, there is no guarantee of accuracy, neither explicit nor implied. Specifications are subject to change without notice.

1. Introduction

This document details the integration of the OnDis Gateway with CathesisVision software. In this integration, OnDis sends CathesisVision the name of the device that has been triggered by an alarm. This information is in the form of an object name, and the time that the object has been triggered.

1.1 Requirements

1.1.1 Software and storage

- CathesisVision 2021.1 and later.
- Win 10-64 bit and later.
- Win Server 2008 R2 and later.
- Minimum 4GB of RAM required.

1.1.2 Licenses

The CathesisVision OnDis Gateway software integration license requirements are as follows:

License Code	License Description
COND-2000	OnDis Gateway device (base license)
COND-1001	Per-object license
COND-3000	License bundle

1.2 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.

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.

2. Device addition and configuration

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

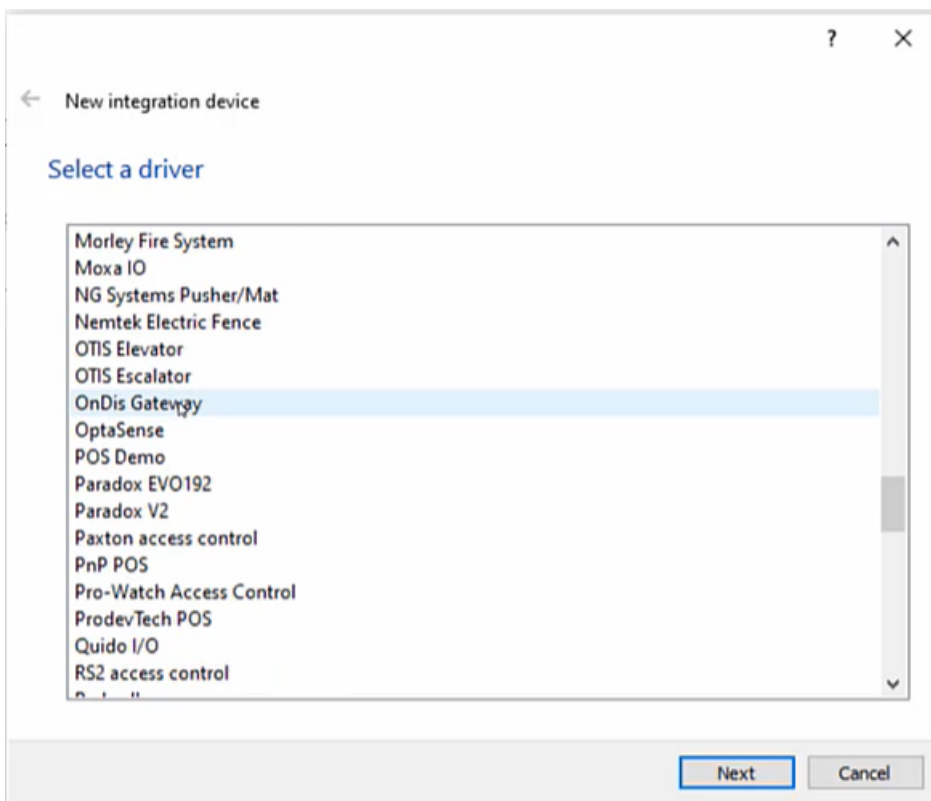
2.1 Add a new device in CathesisVision

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 Devices panel, follow this path:



2.1.1 Device addition

1. In the Integration Devices panel, click on **New device**. Alternatively, right-click in the white space and then click **New**. This will open the addition dialogue.
2. Select the **OnDis Gateway** driver from the list. Click **Next**.



3. Give the device a descriptive **name**. Enter the **TCP** port number.

4. Click **Finish**.

2.2 Configuration section (tabs)

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

2.2.1 Object configuration tab

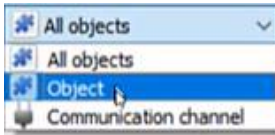
In the object configuration tab, the individual objects that comprise the integration can be viewed.

Configuration of 'OnDis'

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

Object type: All objects

Type	ID	Name	Cameras	Object groups	License
Communication channel	__default__	Default			
Object	1j-2b-3c-4d-5e-6f-7g-8	Object 1234			
Object	1a-4f-2x-fr-z2-a4-g3-5y	Object 42			
Object	1j-2b-3c-4d-5e-6f-7g-8h	Object 4			
Object	1t-2r-3t-4h-5e-6f-7g-8y	Object 7			

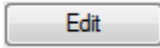


Select the **Object type** dropdown to view the objects that comprise the integration. Select one of the object types from the menu to view only objects of that type in the list area. The **communication channel** is not relevant to this integration.

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 Right-click options

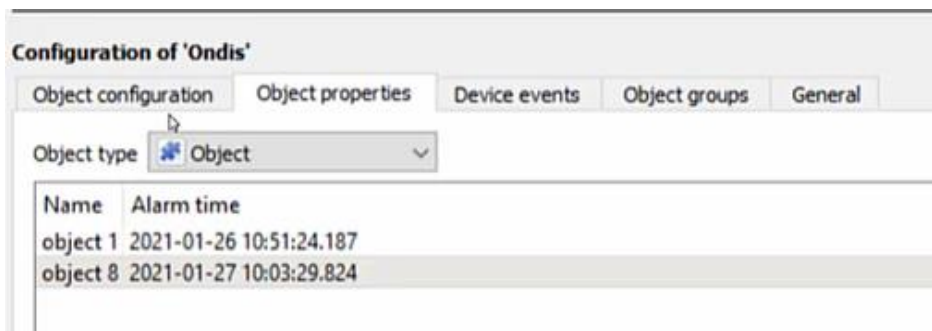


Right-clicking on an object will display a list of options.

Clicking on **Properties** will open the **Edit object** window.

2.2.2 Object properties tab

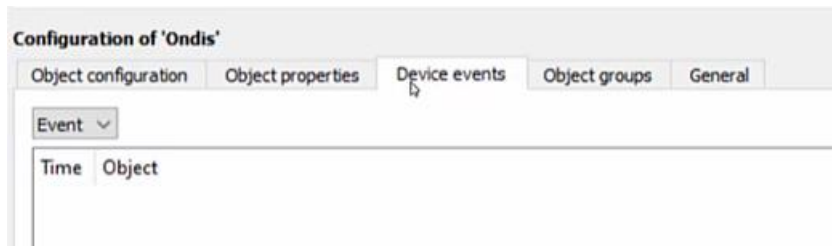
The object properties tab displays the objects' properties, sorted by type.



In the OnDis Gateway integration, the object properties tab shows the object's name and the time that the alarm was sent through.

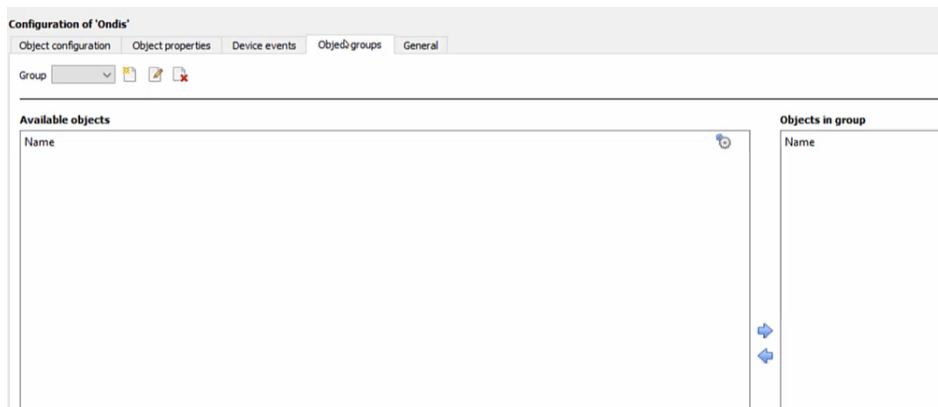
2.2.3 Device events tab

The device events tab lists all events sent from the device.



2.2.4 Object groups tab

This tab is not relevant to the OnDis Gateway integration.

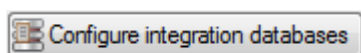


2.2.5 General tab

In the General tab, an integration database can be created.

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 Configure a new database



Click this button to create a new database.

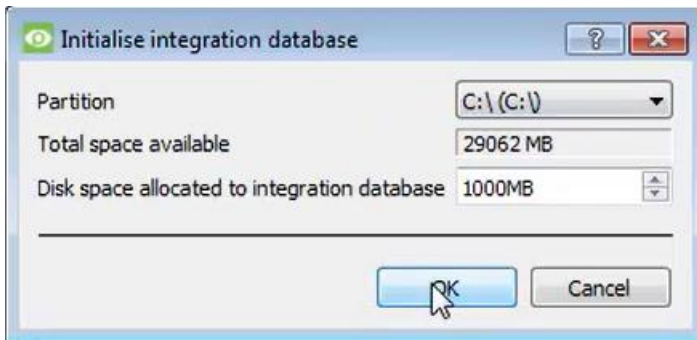
Initialise the integration database

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 on **Initialise integration database**.



Choose the partition the database will be formed on.

Select how much space will be allocated to it.

Click **OK**.

Add a new devices database

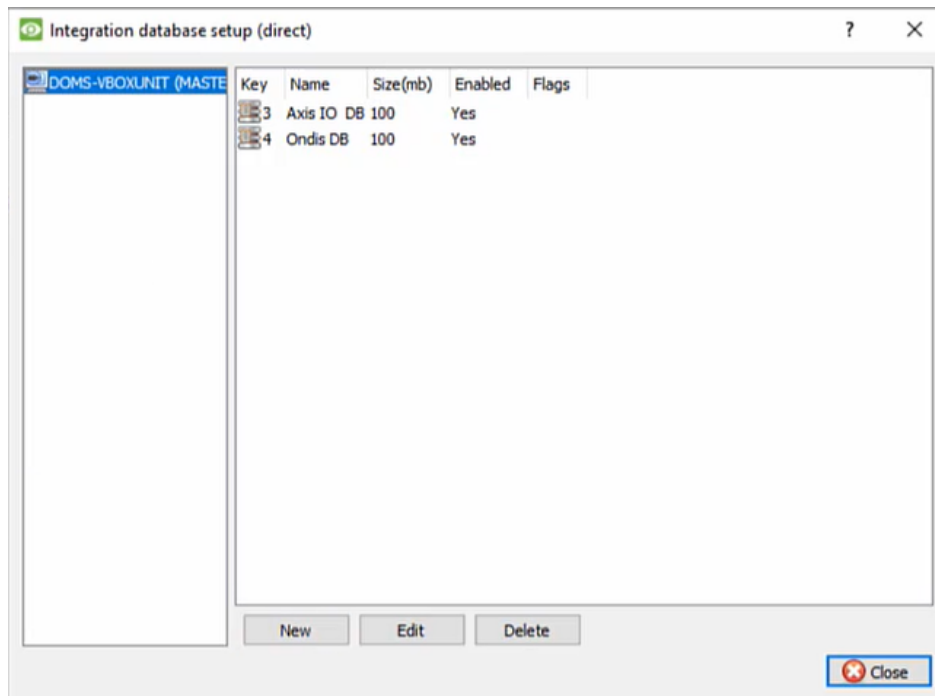
After initialisation, the database will be added to the integration.

In the Integration Devices panel, select **General**.

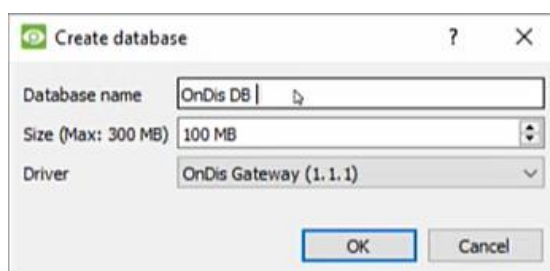


Click **Configure integration databases**.

The integration database setup window will appear.



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




Give the database a descriptive **name**.


Allocate a **size** to the new database.

Choose the **OnDis Gateway** device **driver**.

Click **OK** to create the database.

2.2.5.2 Select the OnDis Gateway integration database

Integration database 

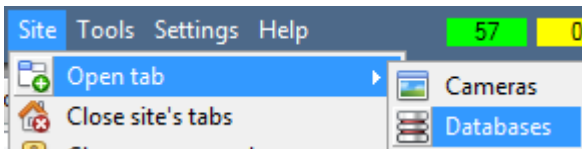
In the General tab, select the gear icon: 

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

3. Database

The database tab allows the user to navigate 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.

3.1 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.

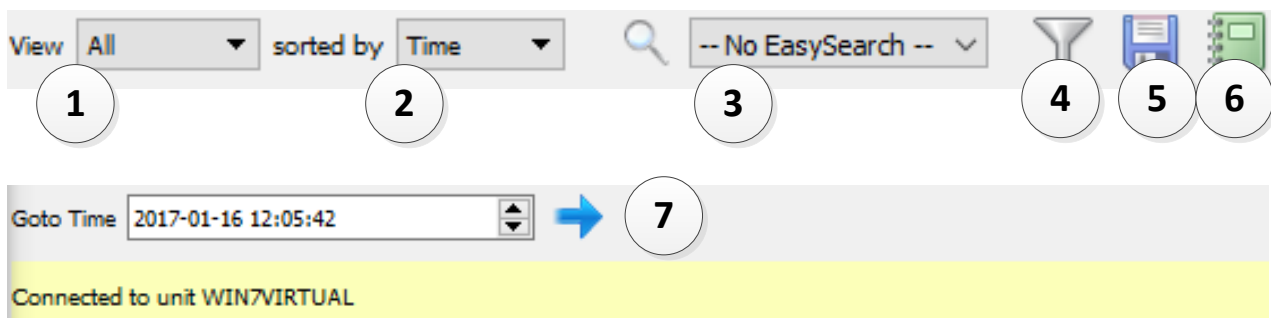
View **Events** sorted by **Time**


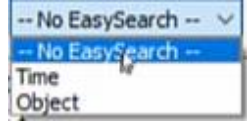







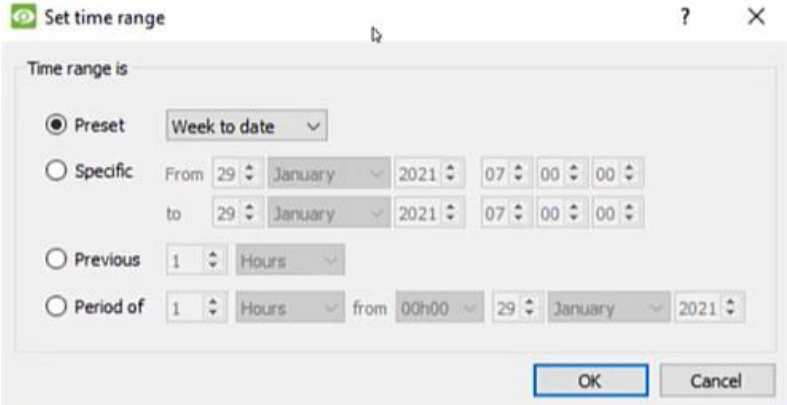
Time	Object	Links
2021-01-26 10:50:24	object 1	
2021-01-26 10:51:24	object 1	
2021-01-27 10:03:29	object 8	

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 example of the OnDis Gateway integration database.

3.2 Database interface



① View	The OnDis Gateway database only has the option to view Events. 
② Sorted By	Events can be sorted based on the parameter of Time .
③ Easy Search	The EasySearch option allows users to quickly search the database within one of the following options: Time or object .   <p>There is an option to filter the Time search according to certain parameters.</p>
④ Filter 	Filter offers an advanced way to sort information in the Integration Database table. The following options are available within the Filters dialogue: <ol style="list-style-type: none"> To enable filters check this box: <input checked="" type="checkbox"/> Enable filters To add a new filter click on . The filter icon  will change to  when filters are active. To delete an added filter click on .  <p>The options in this integration are Time and Object.</p> <p>A Time range, within which the search will be conducted, may be set. To set a Time range, click on the blue hyperlinked text which specifies time. For example, in the Week to date</p> <p>This will bring up the following dialogue box, where the time range can be defined:</p> 

	<p>Note:</p> <ol style="list-style-type: none"> 1. Multiple filters may be run simultaneously, and the same parameter be used to filter more than once. 2. To change a filter click on the blue hyperlinked text. (For example, click Time on to change the filter from Time to any of the other available options.)
⑤ Export	Generate metadatabase reports in PDF or CSV format. See below.
⑥ Manage Reports	Generate scheduled metadatabase reports. See below.
⑦ Go to Time	This navigates to a specific point in time, down to the second. To navigate to a timestamp, set the time using the time and date boxes, and then click on the icon.

3.2.1 Metadata

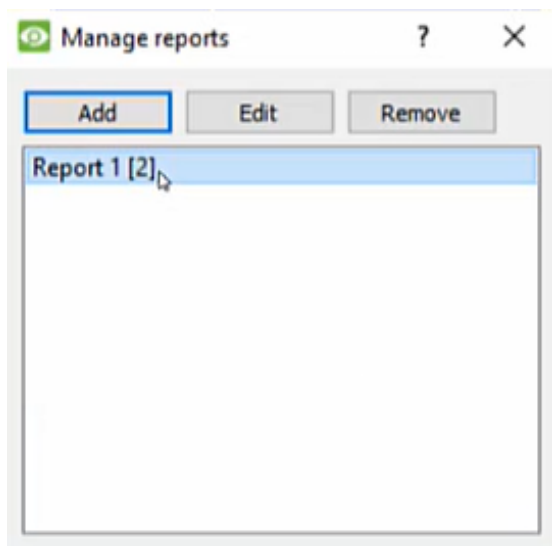
Time 2021-01-26 10:50:24
Object object 1

The right side of the database displays metadata about the entries.

3.2.2 Scheduled metadatabase reports



Click this icon to open the scheduled report window.

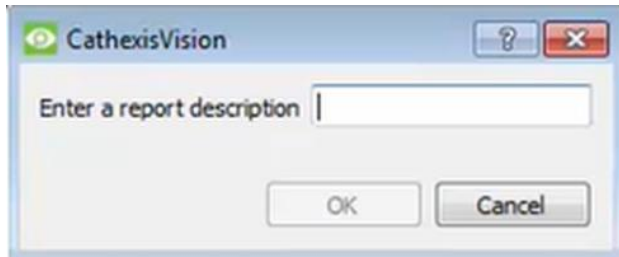


All created reports will be listed here.

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

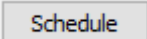
To create, edit, or delete a report, select the entry and click on the corresponding button.

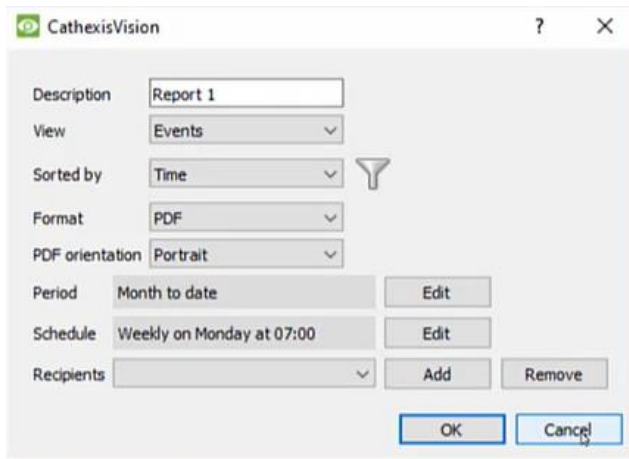
3.2.2.1 New scheduled report




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.
Edit the **Sorted by** option. Clicking on the filter icon  will bring up the filtering options.
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**.

3.2.3 Generate metadata reports



Click this icon to open the Export window.

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

Click **Next**.

3.2.3.1 Export CSV

Select CSV **Format**.

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

3.2.3.2 Export PDF

Select PDF **Format**.

Give the PDF a **Heading**.

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

4. 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 OnDis-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.

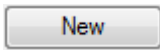
4.1 Event window

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.

4.1.1 Creating an event

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

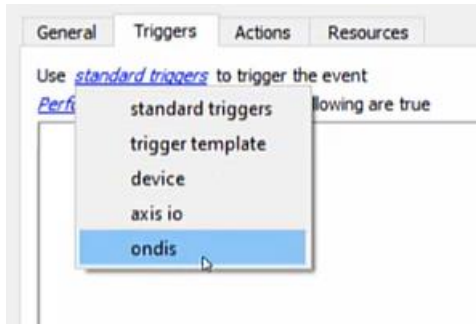


Once in Events, click on . This will open up the **New Event** window.

4.2 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).

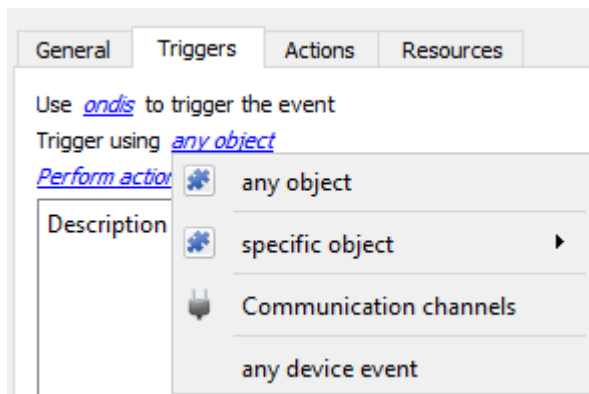
4.2.1 Set the device as the trigger



To define which device will be used to trigger the event, click on the hyperlink after “use”.

To set it as the OnDis Gateway device, click on the hyperlink. Select the device name from the dropdown menu.

4.2.2 Trigger types (trigger using)




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

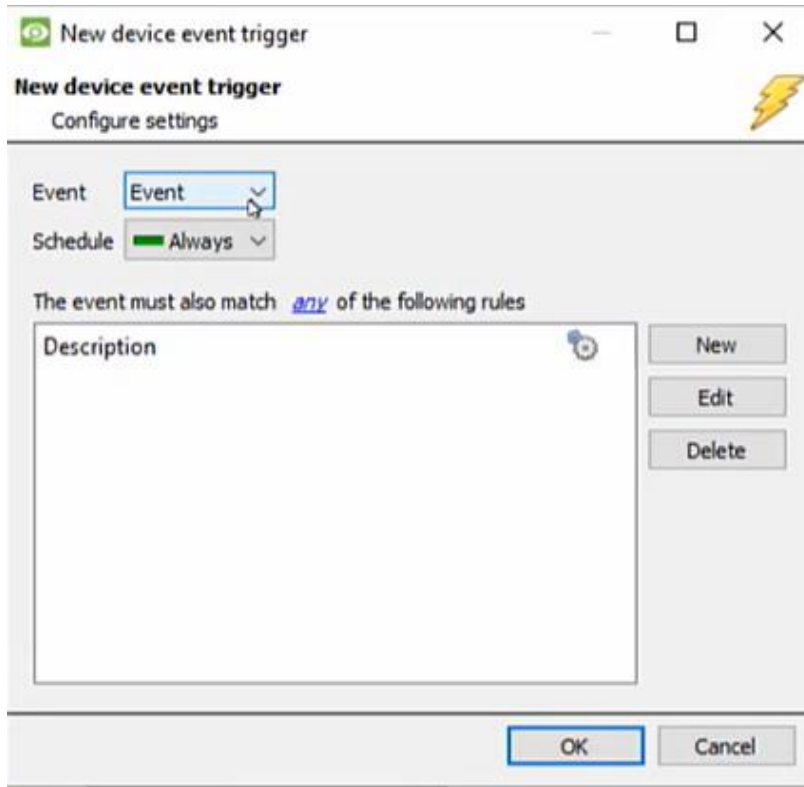
Note for group triggers: For this event to be databased under the name of a specific object and not the name of the triggering group, the user will need to modify the Description field in the **General tab** of the Event setup. Click on the to see a list of available descriptions.

4.2.2.1 When and Any

When triggering on an object, there is the option to trigger **when** a trigger is active, and **any device events need** to be active to start actions.

4.2.3 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, 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.

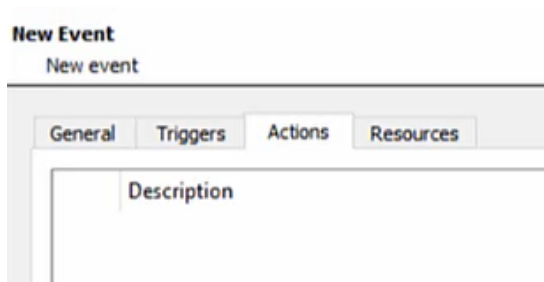
To configure a New device event rule, click on  in the **New device event trigger** window.



To change the constraint, click on the first hyperlink. This will bring up the full list of available rules. For this integration, the only option is **Object**.


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.

4.3 Actions



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

4.3.1 Adding an action

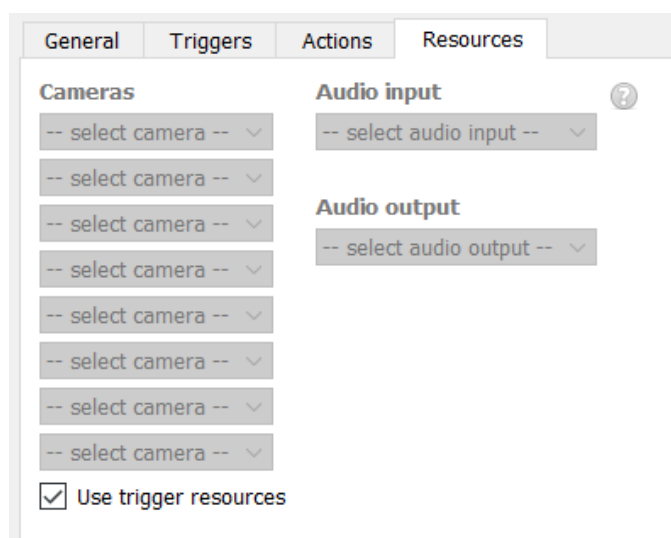
 To add an action, click New in the Actions tab.



A list of available actions will appear.

Note: the OnDis device cannot be controlled.

4.4 Resources tab



In the Resources tab, the user can select the resources to be used.

The user can choose to **Use trigger resources**. The integration trigger for the event will automatically link the associated camera configured in the integration setup as a camera resource.

Alternatively, the user can manually select weighbridge camera/s if these are different to the already associated camera/s.

5. 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

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>