



Axis Event Manual: TCP Rule Setup and CathexisVision Events (Araani Fire Guard)

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1. Introduction

- CathesisVision integrates with several Axis cameras. Some Axis cameras support the Araani Fire Guard plugin, which performs fire detection analytics.
- CathesisVision receives event notifications from supported Axis cameras through a TCP connection.
- This document explains the TCP rule setup, and how a user can configure CathesisVision to receive to receive edge notifications.

Note: This document uses the Araani Fire Guard plugin as an example of a trigger, but CathesisVision can receive all Axis edge triggers using the Axis-defined TCP rule.

1.1 Fire Guard Plugin: Supported Axis Cameras

- This event manual was tested on:

Hardware name	Axis Dome Camera
Hardware model number	P3245-LVE
Serial	ACCC8EE6B89F

- To see which cameras support the Fire Guard plugin, visit:
<https://www.araani.com/en/solutions/surveillance/araani-fire-guard/fire-guard-camera-compatibility/>

A NOTE ON CAMERA CHANNELS

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

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. Camera Addition and Configuration

Before an event can be sent to CathesisVision, the following setup is required on Axis.

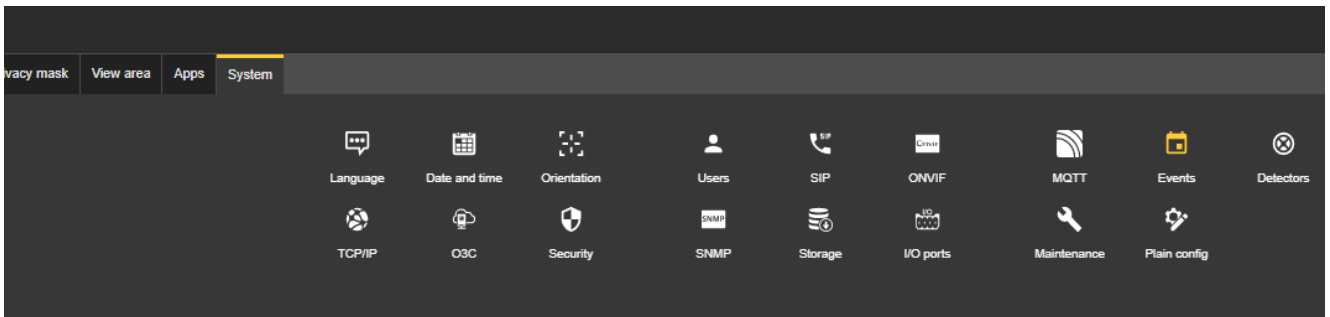
2.1 Setting up the Axis Camera

Log in to the Axis Camera interface:

1. Open a web browser and navigate to the IP address of the camera.
2. In the camera window, click on the **Settings** option in the bottom right-hand corner of the window:

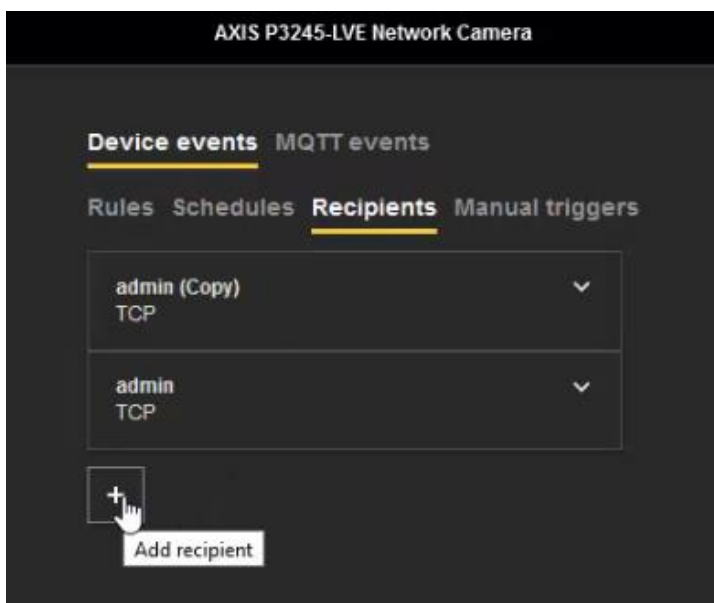


3. In the **Settings screen**, navigate to the **System** tab:
 - a. Select and click **Events**. The event window will open.



2.2 Configure the Events on Axis

2.2.1 Adding the Recipient



Select the **Recipients** tab in the centre of the screen.



Click the plus icon to add the new recipient.

Give the recipient a descriptive name.

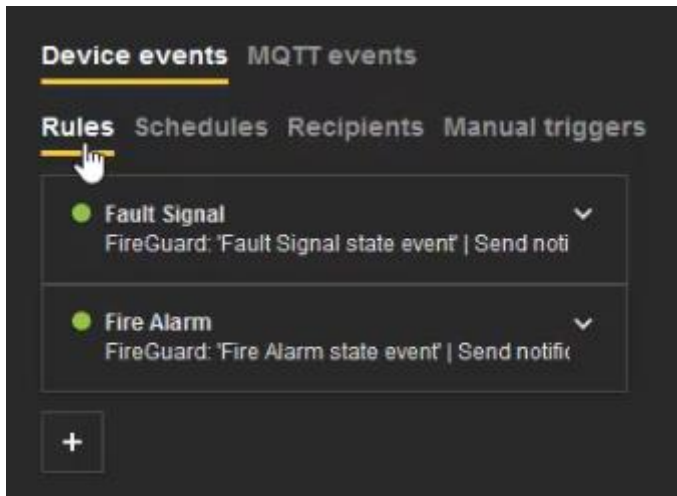
Under **Type**, use the drop-down menu to select **TCP**.

Enter the CathexisVision **server IP**.

The **TCP port** to transmit the trigger message is **32305**.

Click **Save**.

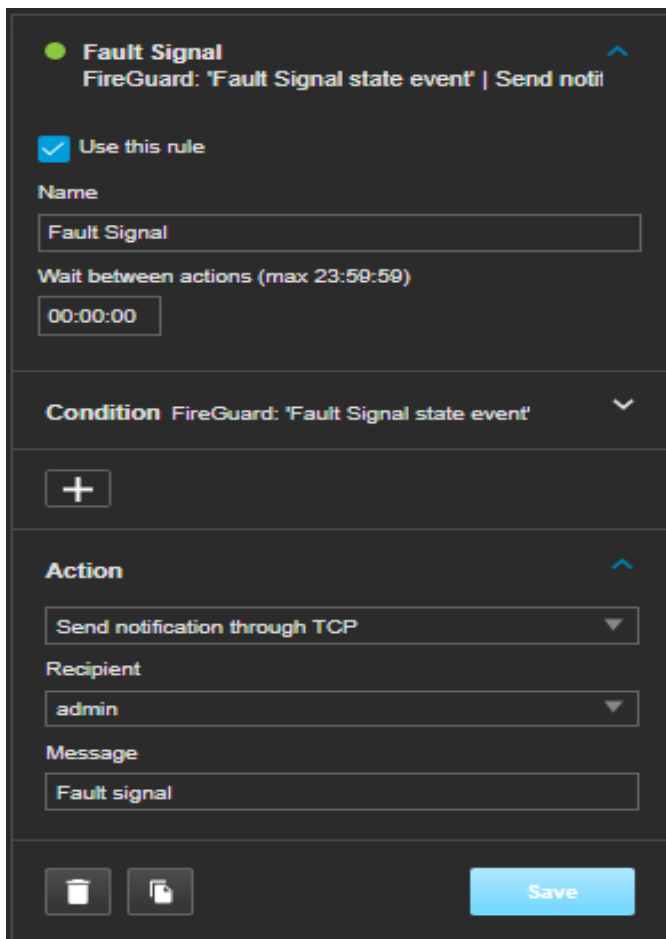
2.2.2 Adding the New Rule



To add a new rule, first select the **Rules** tab.



Click the plus icon to add the new rule.



Give the rule a descriptive **Name**.

Choose from the drop-down menu to set the **Condition**.

The drop-down menu shows events from the application which is installed on the camera, i.e. Fire Guard events.

Select **Send notification through TCP** from the drop-down menu.

Select the **Recipient**.

Write the trigger **Message** that will be sent to CathexisVision.

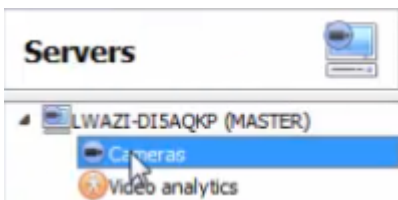
Click Save.

2.3 Camera Setup in CathesisVision

2.3.1 Navigate to Cameras Panel

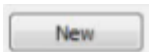
Log in to CathesisVision and open the site.

Navigate to the Cameras panel under the Setup tab. To do so, follow this path: **Site / Open tab / Setup / Configure servers**. This is illustrated below.



Next, select **Cameras** from the folder tree.

2.3.2 Add a New Camera



Click New to add a new camera.



Choose a **Driver**.

Enter the camera **IP**.

Enter the **Login** and **Password**.

2.3.3 Edit Camera Properties: Add a Trigger

Once added, the camera will appear in the main Camera panel.



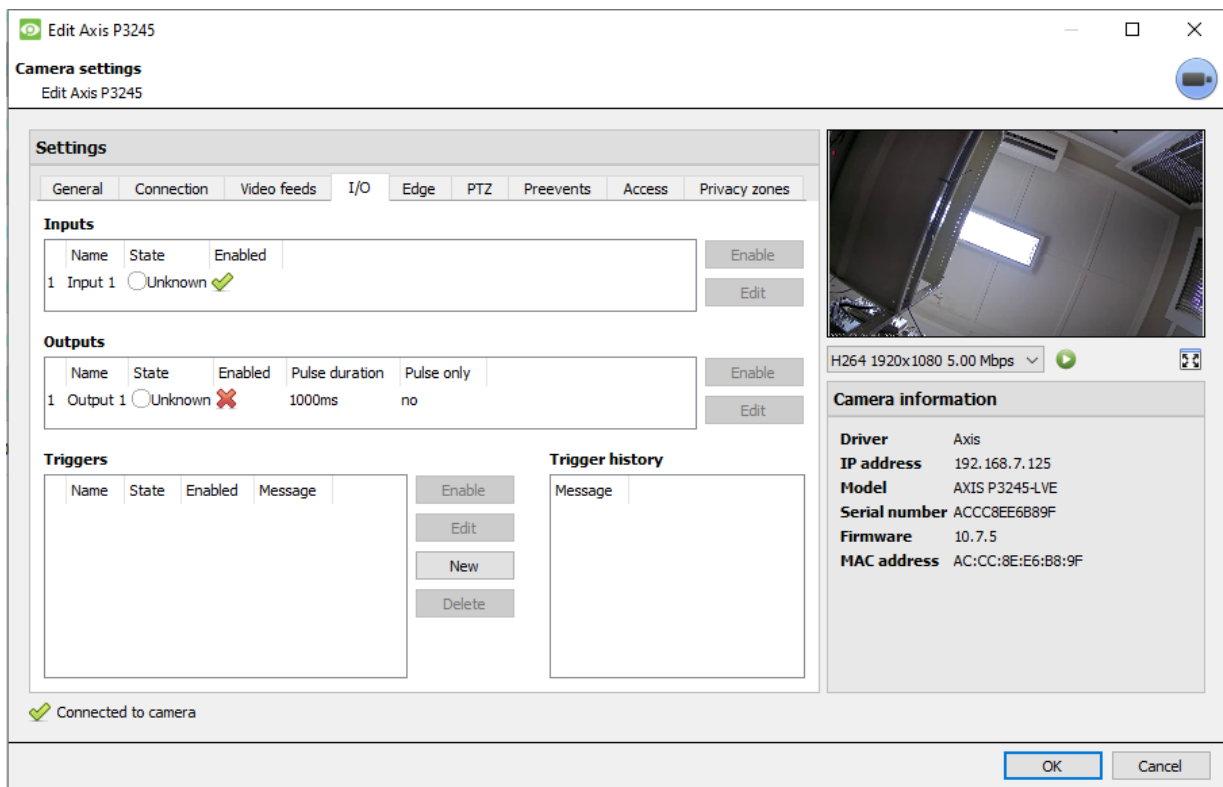
Select the camera from the panel (**Axis**).

Right-click.

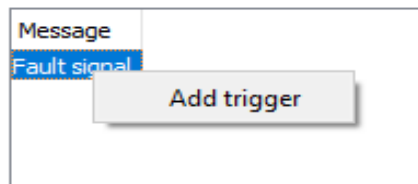
Then, select **Properties**.

Click the **I/O** tab to open input/output setup.

After configuring the event on the Axis camera interface, the trigger message will be displayed on **Trigger History** window.

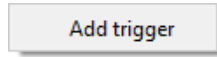


Trigger history

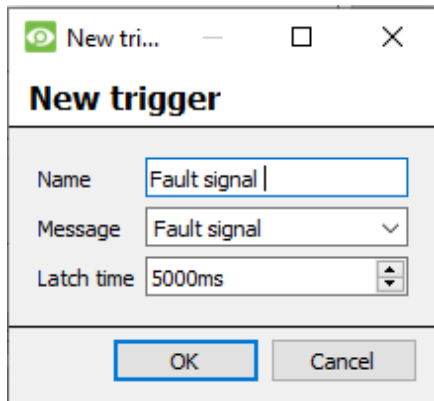


A trigger message will be listed underneath Trigger history.

To add the event on a camera trigger, select the message and right-click.



Then click the **Add trigger** button which appears.



Give the trigger a Name and click OK.

The text in the "Message" field must be identical to the message text as configured in the Axis rule Message.

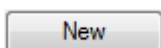
For example, the "Fault Signal" text being sent from the above Axis defined rule needs to be received on the NVR using the same defined "Fault Signal" message.

Click OK.

Multiple rules can be created on the Axis camera for different Fire detection triggering conditions, and the NVR can have multiple trigger alarms defined for each Axis event rule.

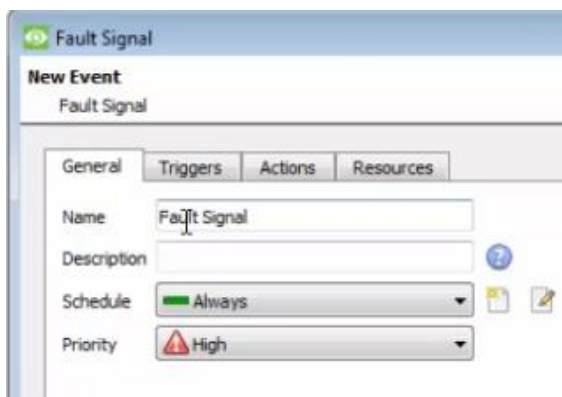
2.4 Configure CathesisVision Event

To create an event using a Camera event, enter the Events management area:



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

2.4.1 General Tab

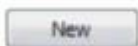


Enter the **event Name**.

Choose a **Schedule** from the menu or create one using the icons.

Choose a **Priority** from the drop-down menu, in this case, High.

2.4.2 Triggers Tab

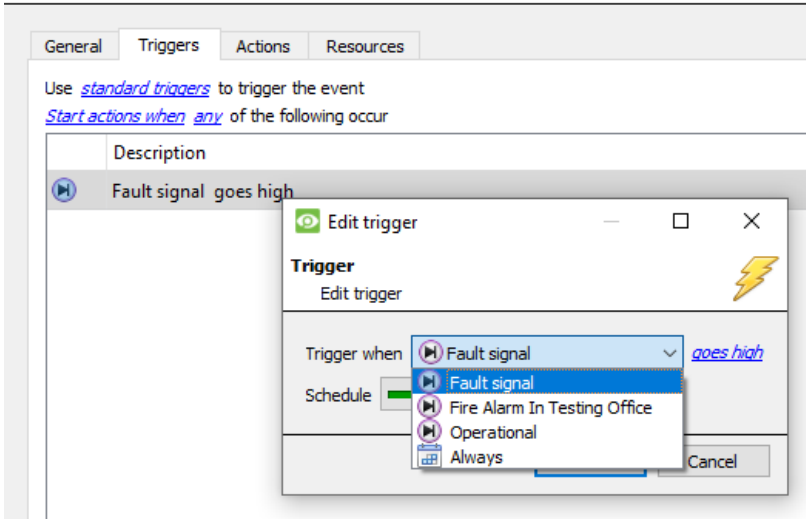


From the Triggers tab, click New to create a new trigger.



Edit Event

Fault Signal



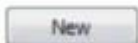
Select the **trigger** from the drop-down menu using the camera trigger that was added to the **I/O setup** tab.

E.g Fault signal in this demonstration.

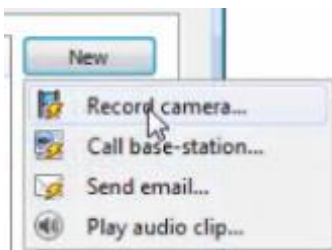
Click OK.

Note: Check the *CathexisVision Setup Manual* for events setup: section **4.10 Events**.

2.4.3 Actions Tab



From the Actions tab, click New to set up an action.



Then select **Record camera**.



A dialogue box will open.

Choose the **Axis camera** from the drop-down menu.

Choose a database from the available options.

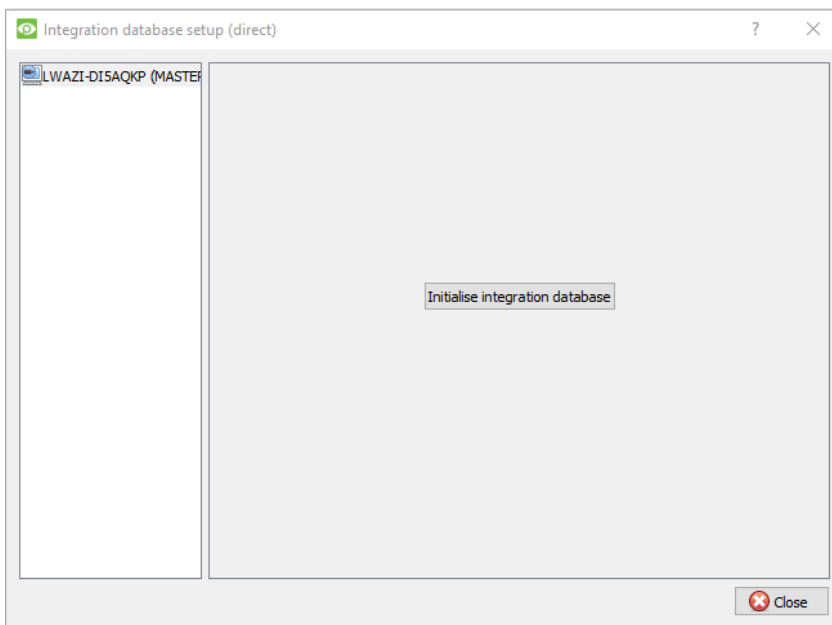
Select the pre-event before the event trigger: E.g. 3 seconds.

2.5 Integration Database Setup on CathesisVision

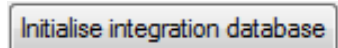
Once the events have been set up, the user may use the database to view the events. Before viewing the events, it may be necessary to initialise and/or create a new database.

2.5.1 Initialise the Integration Database

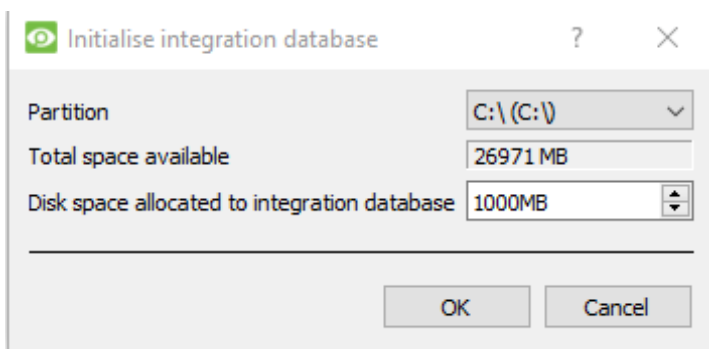
An event database shows the specific triggered events. To create an event database, a general integration database should be created/initialised. This is not required, but can be used to search, filter and report on specific Axis Fire events conditions.



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



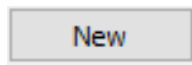
Click **Initialise integration database**.



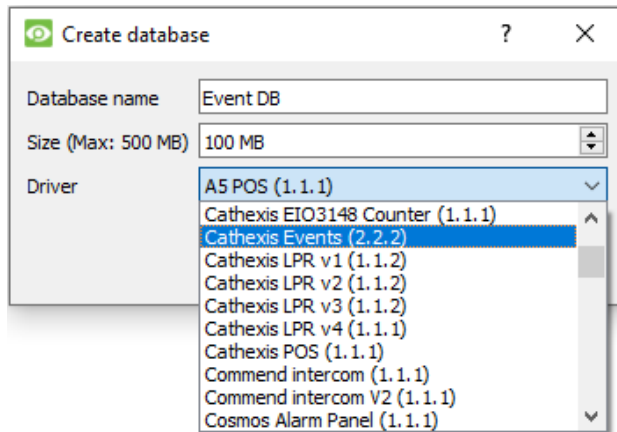
Choose the partition on which the database will be created and select how much space it will take up.

2.5.2 Add/Create an Event Database

After initialisation, add the database for the events.



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



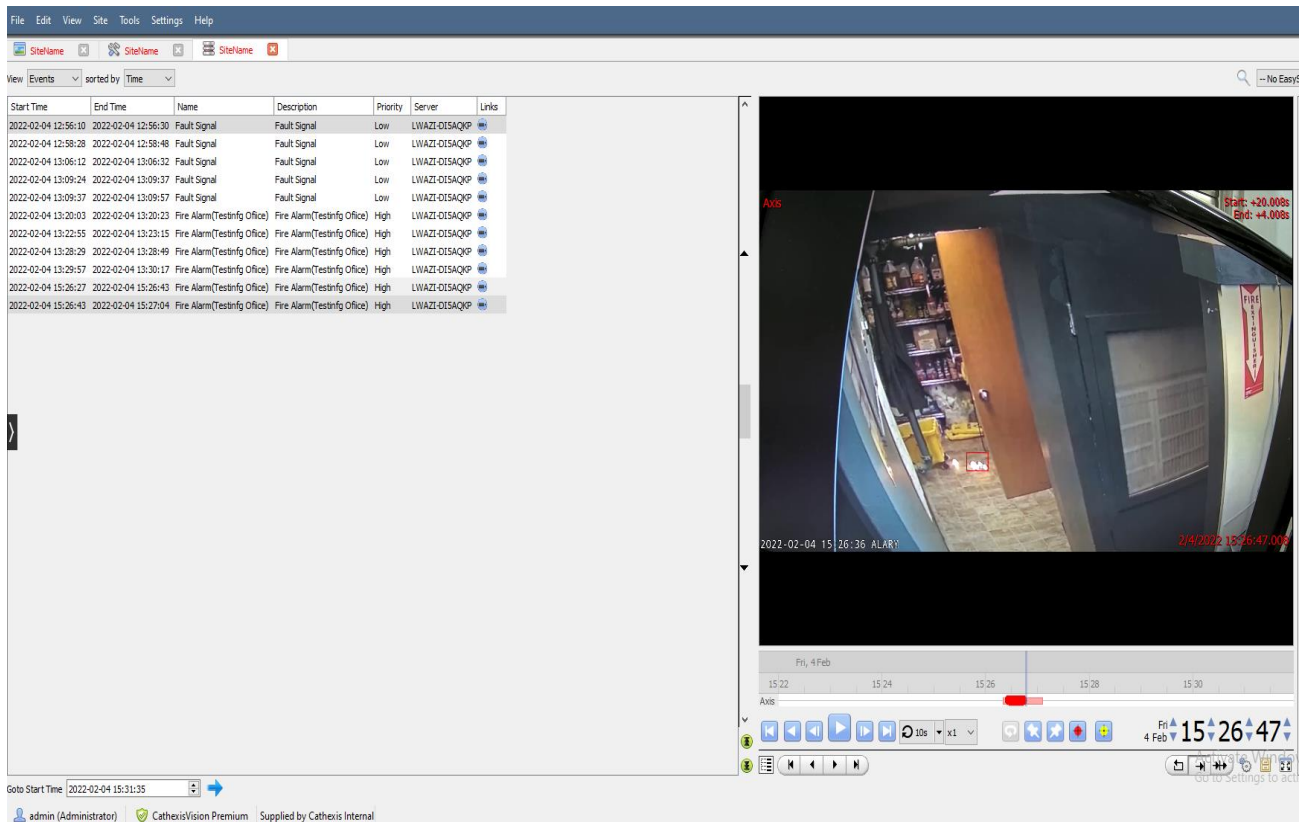
Give the events database a descriptive **Database Name**.

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

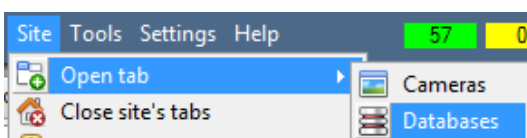
Choose the **Driver** that will be using and click on OK to create the database.

3. Events Database

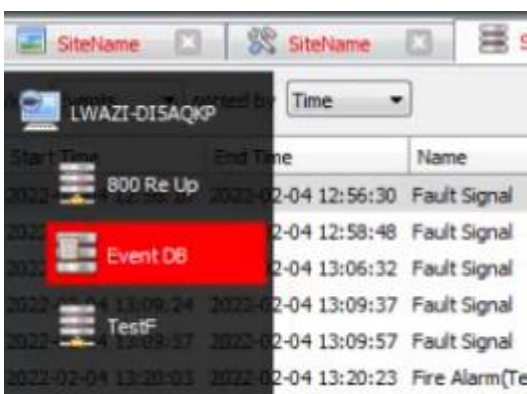
The event database is where the event can be viewed, together with associated footage.



3.1 Navigate to the Database



To open the Databases tab, follow **Site / Open tab / Databases**.



When the databases tab opens, select the relevant integration database from the database panel that opens on the left-hand side.

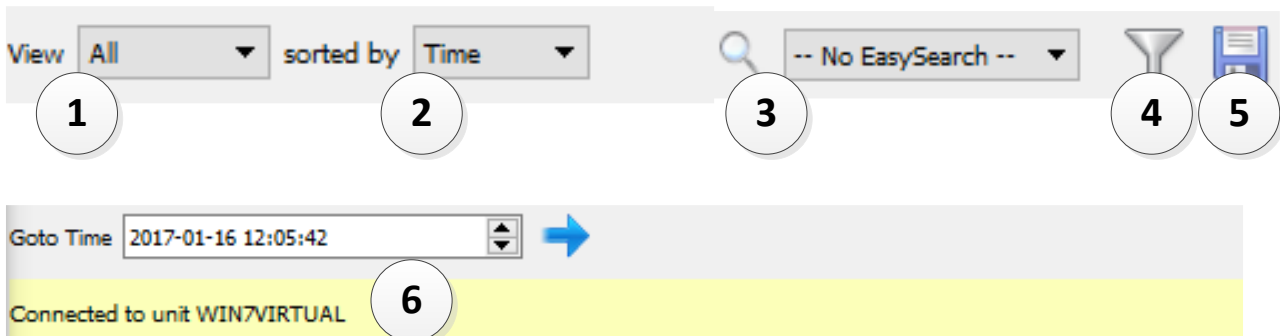
To open and close this list click on the arrow in the centre of the list:



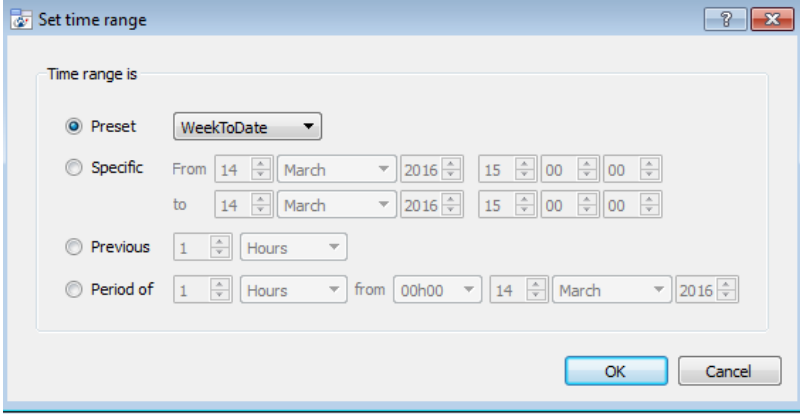

The items will appear in a list as pictured below.

Start Time	End Time	Name	Description	Priority	Server	Links
2022-02-04 12:56:10	2022-02-04 12:56:30	Fault Signal	Fault Signal	Low	LWAZI-DI5AQKP	
2022-02-04 12:58:28	2022-02-04 12:58:48	Fault Signal	Fault Signal	Low	LWAZI-DI5AQKP	
2022-02-04 13:06:12	2022-02-04 13:06:32	Fault Signal	Fault Signal	Low	LWAZI-DI5AQKP	
2022-02-04 13:09:24	2022-02-04 13:09:37	Fault Signal	Fault Signal	Low	LWAZI-DI5AQKP	
2022-02-04 13:09:37	2022-02-04 13:09:57	Fault Signal	Fault Signal	Low	LWAZI-DI5AQKP	
2022-02-04 13:20:03	2022-02-04 13:20:23	Fire Alarm(Testinfg Office)	Fire Alarm(Testinfg Office)	High	LWAZI-DI5AQKP	
2022-02-04 13:22:55	2022-02-04 13:23:15	Fire Alarm(Testinfg Office)	Fire Alarm(Testinfg Office)	High	LWAZI-DI5AQKP	
2022-02-04 13:28:29	2022-02-04 13:28:49	Fire Alarm(Testinfg Office)	Fire Alarm(Testinfg Office)	High	LWAZI-DI5AQKP	
2022-02-04 13:29:57	2022-02-04 13:30:17	Fire Alarm(Testinfg Office)	Fire Alarm(Testinfg Office)	High	LWAZI-DI5AQKP	
2022-02-04 15:26:27	2022-02-04 15:26:43	Fire Alarm(Testinfg Office)	Fire Alarm(Testinfg Office)	High	LWAZI-DI5AQKP	
2022-02-04 15:26:43	2022-02-04 15:27:04	Fire Alarm(Testinfg Office)	Fire Alarm(Testinfg Office)	High	LWAZI-DI5AQKP	

3.2 Database Interface



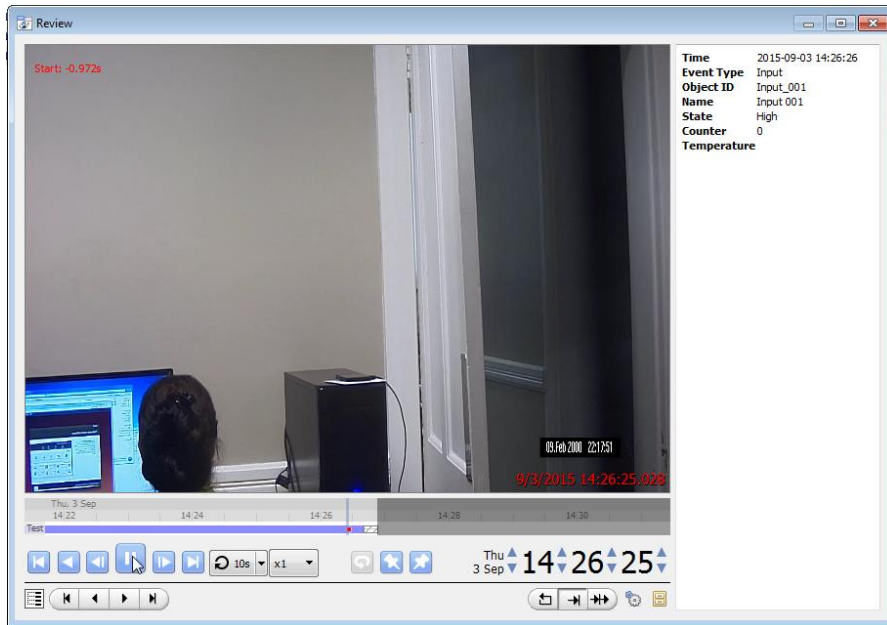
① View	The way the database is presented may be changed. Some integration databases have multiple view options. The Axis database has Events , and Advanced options.
② Sorted By	Events may be further sorted based on the following parameters: Time .
③ Easy Search	The easy search option allows for a quick search of the database within one of the following options: Name, Description, Priority, Server, and State .
④ Filter	<p>Filter offers a more advanced manner of sorting information in the Integration Database table.</p> <p>Once the filters dialogue is open, the following options are available:</p> <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 Start time, End time, Description, Server, Priority, and Name.</p> <p>A Time range, within which the search will be conducted, may also be set. To set a Time range, click on the blue hyperlinked text which specifies time (e.g., in the Week to date).</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"> Multiple filters may be run simultaneously. Filters with the same parameters may be run more than once. To change a filter click on the blue hyperlinked text.
<p>⑤ Export</p>	<p>Generate meta-database reports in PDF or CSV format. See below.</p>
<p>⑥ Go to Time</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.</p> <p> Then click on the arrow icon.</p>

3.2.1 Viewing an Entry's Associated Recording

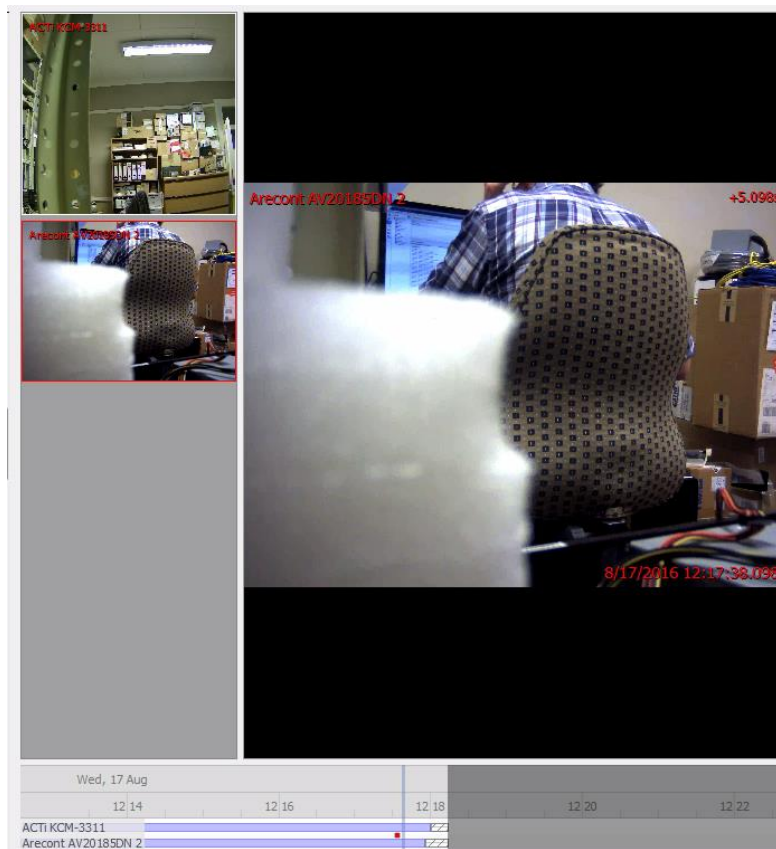
If cameras are attached to device objects in the Integration setup, and these cameras are set up to record continuously, each Integration database entry will have a corresponding recording.

To **view** a databased event's recording **double click** it.



A floating replay window will appear, from which video content may be archived and reviewed.

3.2.2 Reviewing Multiple Cameras



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

Select a camera thumbnail to review it.

3.2.3 Device Event Metadata

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

Start Time 2022-02-04
15:26:43

End Time 2022-02-04
15:27:04

Name Fire Alarm(Testinfg
Office)

Description Fire Alarm(Testinfg
Office)

Priority High

Server LWAZI-DI5AQKP

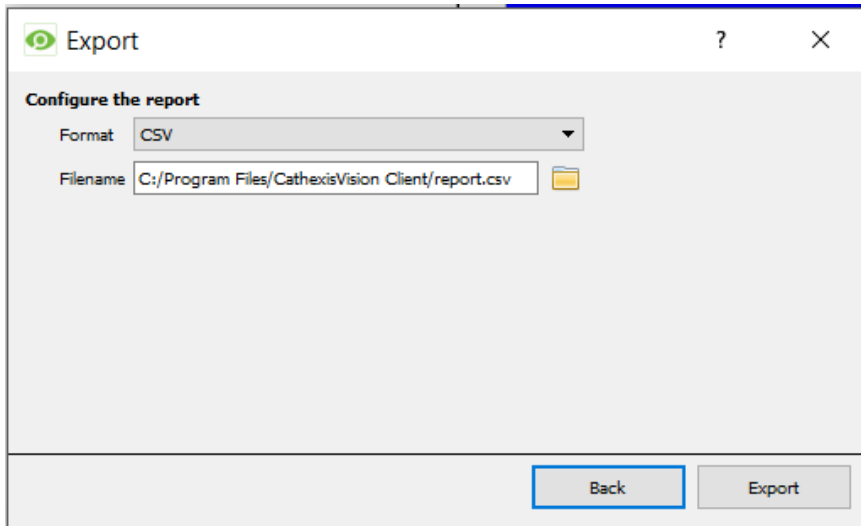
3.2.4 Generate Meta-Database Reports



Click the save icon to open the Export window.

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

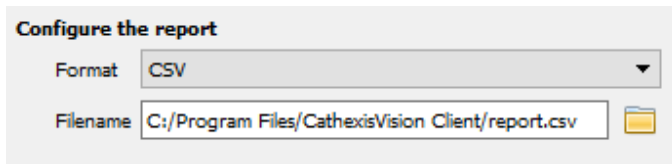
Click **Next**.



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

See below for the two options.

3.2.4.1 Export CSV



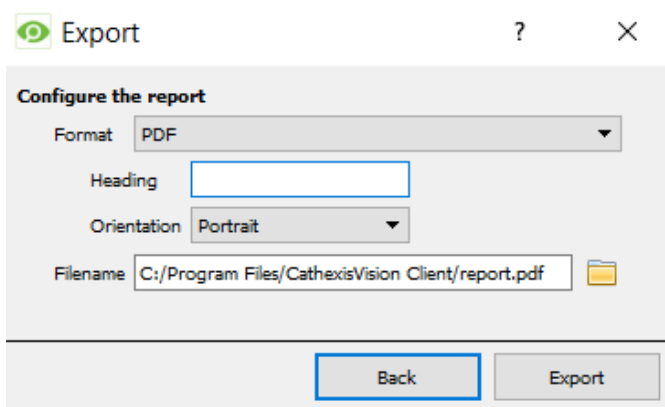
Select **CSV Format**.

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.

3.2.4.2 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. Conclusion

This manual was designed to deal specifically with the TCP rule setup on Axis cameras and CathesisVision configuration for edge triggers. For further information about the CathesisVision software please consult the main manual (<http://cathesisvideo.com/>).

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