

Nemtek Electric Fence Integration App-Note



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1. Introductions

This document details the integration of the Nemtek Electric Fence device, with CathexisVision software. CathexisVision receives information from the integrated device which monitors the site perimeter for incidents of tampering. This information may be used to trigger CathexisVision events.

Note:

- For information regarding the regular operation of a Nemtek device, please consult the relevant 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 2016.4, 2017.2, and 2018.2 and later.

1.1.2 License requirements

License No	License Name	Description
CNEF-1001	Nemtek Electric Fence Object license	These licenses apply to the energizers or I/O cards in an electric fence control system. The CNEF-1001 will license a single energizer, or I/O card
CNEF-2000	Nemtek Electric Fence Device license	This license is the "base" license to integrate with electric fence system. It is applied to the server to which the fence is connected. It will allow for the connection of a single fence system.
CNEF-3000	Nemtek Electric Fence Bundle license	This license includes the CNEF-2000 electric fence device license, and also provides support for unlimited CNEF-1001 object licenses.

Note: In this integration, a single CNEF-2000 device license will cover multiple linked devices per site. Individual site devices will require a license for each device.

A NOTE ON CAMERA CHANNELS

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



1.2 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 Integration Hardware

Hardware	Objects	Object License	Messages	Metadatabase	Overlay
	FG7	No	N/A	N/A	N/A
	Energizer	CNEF-1001	Yes	Yes	No
	Zone x2	Checks if Energizer is licensed	Yes	Yes	Yes
	Input x8	Checks if Energizer is licensed	Yes	Yes	Yes
,	IOCard	CNEF-1001	Yes	Yes	No
	Input x6	Checks if I/O Card is licensed	Yes	Yes	Yes
	Output x5	Checks if I/O Card is licensed	Yes	Yes	Yes

1.4 Features and Abilities

- CathexisVision receives event messages from the Nemtek device.
- Energizer, Input, Output and Zone event messages can be used to trigger a CathexisVision system event.

1.4.1 Device Objects

Device objects populate automatically once communication is established. As the panel supports many expansion modules, the objects displayed in CathexisVision will vary depending on the objects that are configured on the panel.



Object Type	Abilities		
General	 Objects are automatically created as soon as communication between the CathexisVision unit and device is established. Objects may be linked to cameras to associate device events with video footage. 		
Object Types	 Energizer. FG7. IOCard. Input. Output. Zone. Communication Channel objects. Selecting any of these object types will populate the configuration section with the object type properties.		
Overlays	Zone.Input.Output.		
Commands	 Energizer. Output. Zone. These objects can be commanded as an action of a CathexisVision system event.		

1.4.2 Device Events

Event Element Features/Abilities		
	 Events triggered on the device are sent to CathexisVision. 	
General	These device event messages can be used to trigger system	
	events.	
	Energizer	
Device Event Types	Output	
Device Event Types	Input	
	• Zone	
	 Events generated by the device are reflected in CathexisVision and can be used to create CathexisVision system events. 	
CathexisVision System Events	 Some objects may be controlled as a result of a CathexisVision system event: 	
	Output:	
	o Set.	
	• Zone:	



o Low voltage.
o On.
Energizer:
o Clear alarms.

1.4.3 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	
General	 All device events are databased. Database entries include the footage from cameras linked to device objects. Multiple cameras may be linked to multiple objects. Device event 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	 All. Energizer. Zone. Input. Output. 	
Sort Options	• Time.	
Easy Search	Object ID.Object Name.Notification.	
Filter	 Time. Event type. Object ID. Object Name. Notification. 	
Export	Database entries may be exported in CSV and PDF format.	



1.4.4 Maps

The CathexisVision GUI provides for configurable site maps that feature multi-layered, hierarchical, interactive interfaces providing representation and control of a site and its resources.

Map Element	Features/Abilities		
General	Device objects can be embedded in a site map, which offers multiple action options when messages are received from the device, the device triggers an event, and/or the user manually initiates a map action.		
Map Action Triggers	 All device objects may be set to trigger a map action if the user left-clicks on map. Some device objects may be set to trigger a map action if a state change message is received from the device. All device objects may be set to perform a map action if any event occurs on the device. Device objects, which can be configured to trigger CathexisVision events, may also be set to perform a map action when specific CathexisVision events are triggered. 		
Map Actions Options	When triggered (see above), objects may perform the following map actions (where applicable): Connect to a site. Perform an animation. Go to a camera preset. Load a map. Set a PTZ relay output. Show a popup menu. Set a relay output. Show an HTML block. Show a block of text. Show a device popup menu.		

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



2. Device Addition

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

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.

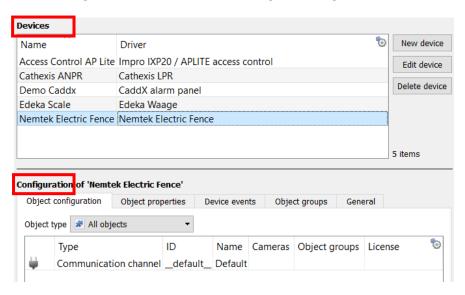
2.1 The Integration Devices Panel

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:

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



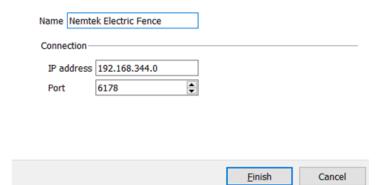
2.2 Add a New Device



- 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 Nemtek Electric Fence Driver from the list, and click Next.



Configure the device



Name the device.

Enter the IP Address of the device.

Enter the **Port number**. Leave this as default unless a different port number has been configured.

2.3 Select the Device

The newly added device will show in the Devices section.

Click on the device name to select it.



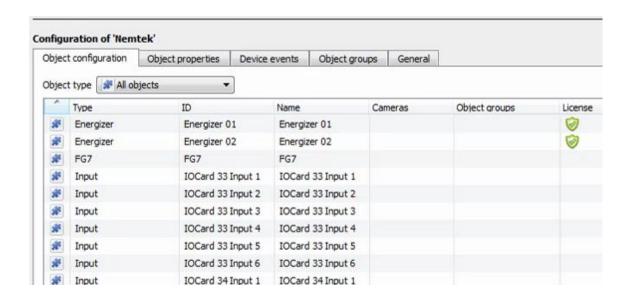
3. Configuration Section

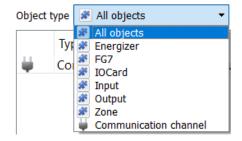
The configuration section is divided up into a number of tabs. These tabs are: **Object configuration, Object properties, Device events, Groups,** and **General.**

3.1 Object Configuration Tab

The object configuration tab is the tab in which the individual objects that comprise the integration can be viewed. The Nemtek Electric Fence system as the following object types: **Energizer, FG7, IO Card, Input, Output, Zone,** and **Communication Channel.**

Objects will only be created when the corresponding hardware is present.





Select the Object type drop-down to view all 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.

3.1.1 Object Configuration Buttons



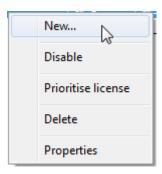
Click New to add a new object.

Click Edit to change an existing object.

Click **Delete** to remove an existing object from the CathexisVision configuration.



3.1.2 Object Configuration Right-Click Options



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

Disable/Enable will manually enable/disable individual objects.

Prioritise license will give a specific license preference, in case there are more devices than licenses.

Delete will permanently remove this object from the list.

Properties will open up the object properties. Objects may be edited from here. Specifically, cameras will be assigned to this object, as well as user access levels assigned.

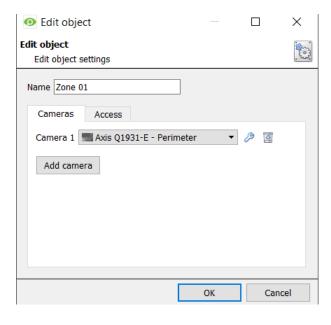
3.1.3 Edit Object

Use the Object configuration tab to make changes. Open the object editing window by selecting an object from the list, and clicking the **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**.

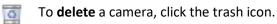
3.1.3.1 Properties: Camera

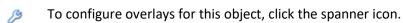
Adding a camera to an object will mean that, whenever there is an event on that object, the recording from that camera will be related to the time and date of the object event, in the Integration database.





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







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 protects sensitive objects by ensuring that only certain user access levels can access them.

Under View, set the access levels.

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

3.1.4 Configure Overlays

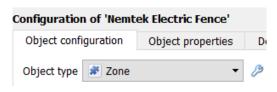
- Overlays may be configured individually, or globally. If individual, then the overlay settings are applied only to the selected object. If global, then the overlay settings are applied to all objects of the selected type.
- The path to follow for opening the configuration window for global or individual overlays is different, however the overlay configuration window is the same.
- See below for navigating to the overlay configuration window for individual/global overlays.

Note: Overlays can only be configured for **Input**, **Output** and **Zone** objects.

3.1.4.1 Configure Individual Overlays

- 1. Right-click the individual object and open the Properties window.
- 2. Add a camera to the object.
- 3. Click the Edit Overlays icon.

3.1.4.2 Configure Global Overlays



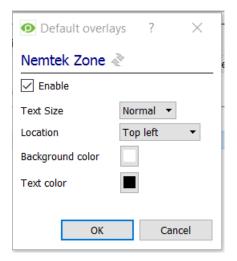
Select the object type from the Object type drop-down menu in the Object Configuration tab.

1. Pick the Default Settings icon .



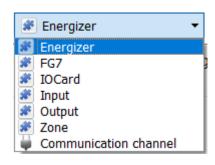
Note: Only the Zone, Input and Output object types can support overlays. Only these objects will display the settings (spanner) icon when selected.

3.1.4.2 Overlay Configuration Window



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

3.2 Objects Properties Tab



The Object properties tab allows objects to be viewed by type. In the case of the Nemtek device, objects can be viewed by the following types:

Energizer, FG7, IOCard, Input, Output, Zone and Communication channel.

Selecting any of these objects types will populate the configuration section with the object type properties.

3.2.1 Controlling Commands (Right-Click Options)

Select the object from the drop-down menu in the **Object properties** tab.

Right-click an item on the list.

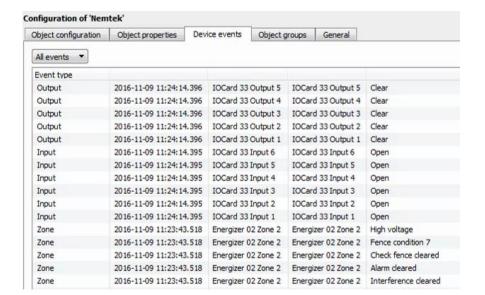
Choose the command which appears.

Object	Right-Click Command	Description
Energizer	Clear alarms	Clear alarms from the Energizer object.
Output	Set	Set/Clear the state of the Output.
Zone	Low voltage	Set the Zone object to Low/High voltage.
	On	Set the Zone state to on/Off.

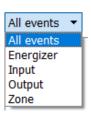


3.3 Device Events Tab

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.



Filter the device events by selecting the drop-down menu and choosing an event type:



3.4 Object Groups Tab

Groups of the same type of object can be created.



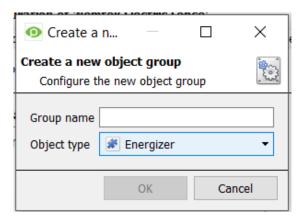
Tip: This is useful when setting up events, because events can be triggered by an object group. (E.g. a group will trigger an event if any of the doors in that group are triggered.)

3.4.1 Create a Group

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

A new dialogue box will pop up.





Give the group a descriptive Group name.

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

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

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

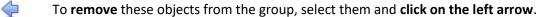
3.4.2 Add or Remove Objects

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.



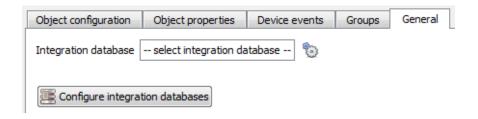
Note: Multiple objects may be selected at a time.

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 for Nemtek, and then select it.





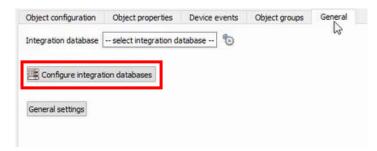
Note: Each integrated device needs to be attached to an integration database. Without setting up/adding a database here, the integration will not function properly within the CathexisVision system.

3.5.1 Configure a New Database

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

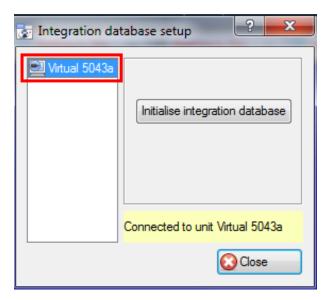
3.5.1.1 Initialise the Integration Database

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



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

This opens the Integration database setup window.



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

Then, click Initialise integration database.

Initialise integration database



Choose the **partition** on which the database will be created.

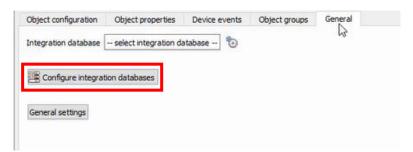
Select disk space allocation.

Click **OK**.

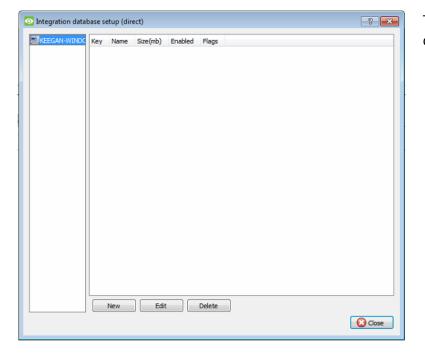


3.5.1.2 Add a New Devices Database

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



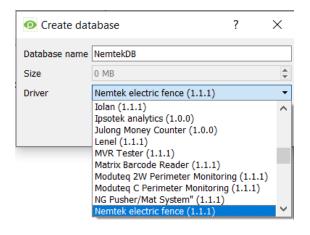
To add a new database, click the **Configure integration databases button** from the General tab.



This opens the integration database setup window.

New Click the New button.

A dialogue will appear for creating the integration database.



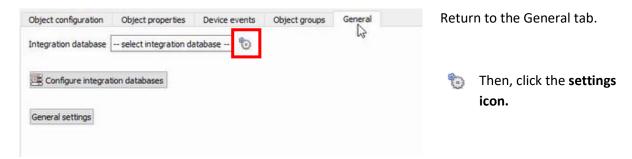
- Give the Integration database a descriptive Database Name.
- Allocate a Size to the new device database. The max is 500MB.
- Choose the Nemtek Electric Fence Driver.
- Click **OK** to create the database.

Once created, close the Integration Database Setup window.

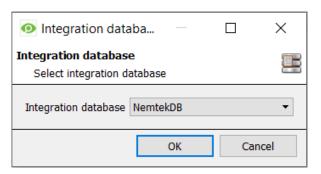


3.5.2 Select the Nemtek Electric Fence Integration Database

Once a Nemtek database has been created, it must be selected.



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



Select the Nemtek databse from the drop-down menu.

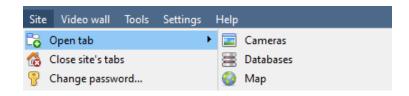
Then click OK.



4. Cameras Tab



4.1 Navigate to the Cameras Tab



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

Site / Open tab / Cameras

4.2 Control Device from Resources Panel

It is possible to command some of the Nemtek device objects from the Resources Panel in the Cameras Tab. These commands are much the same as can be achieved from the Object Properties Tab of the Integration Devices panel of the Setup section.

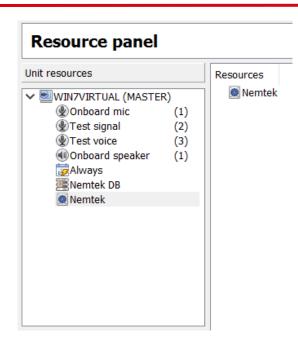
To command the Nemtek device from within the Cameras tab, the device must be added as a resource in the Resources section of the Setup tab.

4.2.1 Add the Device as a Resource



Setup tab / Resources Panel





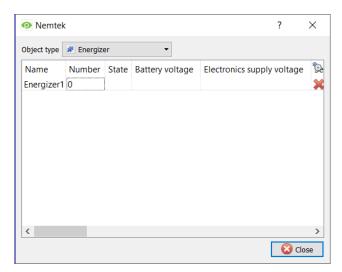
- Navigate to the Resource Panel by following Site / Open Tab / Setup / Resource Panel.
- 2. Drag the Nemtek device from the **Unit Resources** list into the **Resources** list, on the right.

After doing this, the device should appear in the Resources panel in the Cameras tab:



4.2.2 Control Device

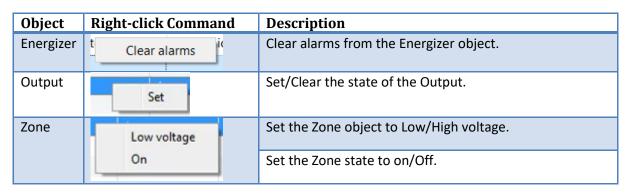
Double-click on the device in the Resources panel of the Cameras tab to bring up the window below. Here the states of some of the device objects can be viewed and controlled.



Select the object type from the drop-down menu, then right-click the object for possible commands.

See the table below for the right-click options.

4.2.2.1 Right-Click Options





4.3 Camera Tab Overlay Setup

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



Note: Cameras must have already been added to the relevant objects.

4.3.1 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 a number of options specific to the settings configured for that video feed.

4.3.2 Select the Overlay





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

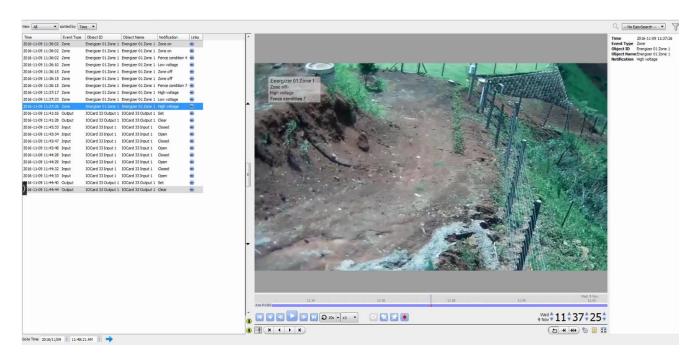
Select the device.

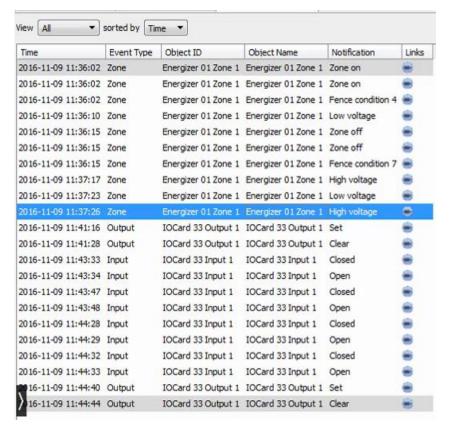
The overlay will appear over the video feed.



5. Database

The databases tab will allow the user to navigate the databased entries, for each individual database. In the databases 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 the user will also be able to launch this recording, from within the databases tab.

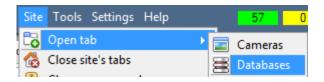




Most integrations will have a different database presentation, and unique filters, due to the different parameters sent to CathexisVision by the integrated device.



5.1 Navigate to the Database



The information stored in the Integration database may be viewed by following this path.

Site / Open tab / Databases

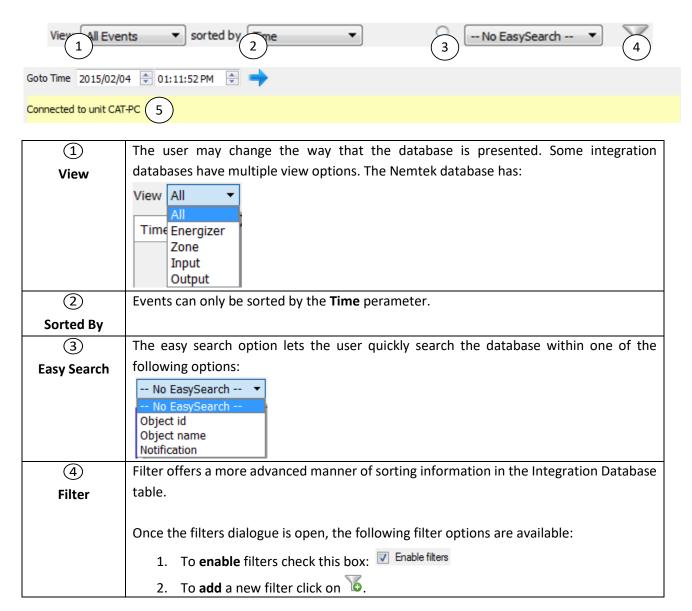


From 2016.2 onwards, when the database tab opens, the relevant integration database must be selected from the database panel that opens on the left hand side.

The databases are ordered under the NVRs that they are attached to. To open and close this list click on the arrow in the centre of the list:



5.2 Database Interface





3. To **delete** an added filter click on **6**.

It is possible to filter the same perameters more than once.

To change a filter click on the blue hyperlinked text. (For example, click on <u>Timestamp</u> to change the filter from Timestamp, to any of the other available options.)

The filter options in this integration are:

Transaction

Time

Event Type

Object ID

Object Name

Notification

Note:

- 1. Multiple filters may be run simultaneously.
- 2. The filter icon will change to when filters are active.

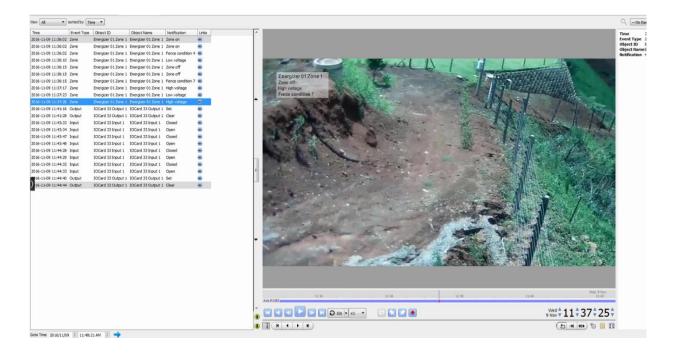
5 Go to Time

This navigates to a specific point in time, down to the second. To navigate to a timestamp set the time using the time and date boxes.

Then, click on the arrow icon.

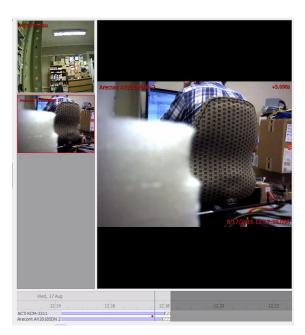
5.2.1 Viewing an Entry's Associated Recording

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





5.2.1.1 Reviewing Multiple Cameras

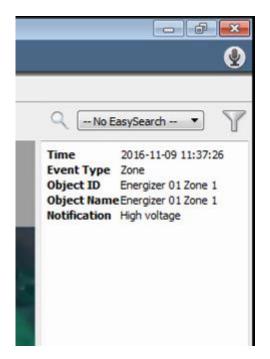


If multiple cameras were added to the recorded object during the integration setup, these are displayed on the left of the video player screen as thumbnails.

Select a camera thumbnail to review it.

5.2.2 Device Event Metadata

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





6. CathexisVision System Events

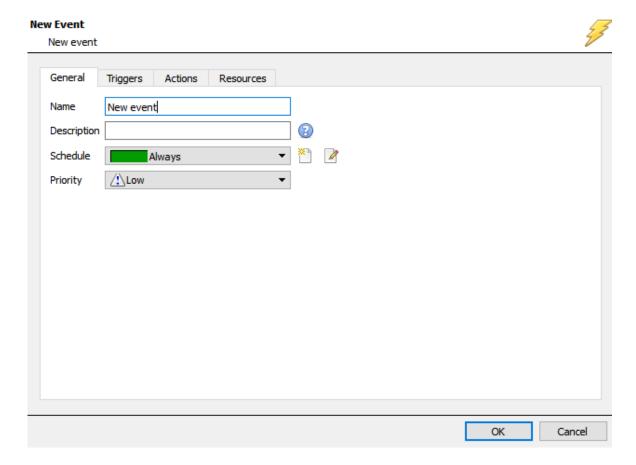
A CathexisVision Event has a trigger, which causes an action. Integrated devices can be set to act at triggers, or as actions. This document will detail the Nemtek specific aspects of Events. There is a comprehensive guide to CathexisVision Events in the main setup manual. For more information, please consult it.

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

6.1 Event Window

Events in CathexisVision are setup 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 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.





6.2 Creating an Event

To create an event using the Nemtek device, enter the Events management area by following the sequence: **Open Tab / Setup / Servers / Master Server / Events**. This is shown below.





Once in Events management area, click the **New** icon at the bottom of the screen. This will open up the **New Event window**. Alternatively, right-click and select **New**.

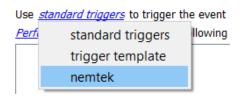
The new event window has four tabs which can be used to set up the event: General, Triggers, Actions, and Resources.

6.3 Triggers Tab

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).

6.3.1 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 Nemtek device.



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

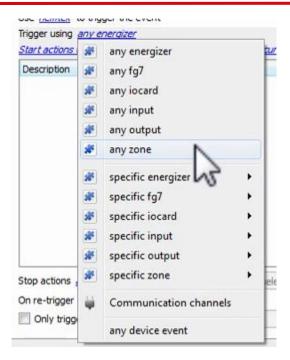
This will open a drop-down menu with more options.

To set Nemtek as the trigger, **select the name** from the drop-down menu.

6.3.2 Trigger Types (Trigger Using)

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





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

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

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	will trigger when on an event from any of these objects.
Specific	will only trigger on an event from a specific object.
Specific group	If an object group has been set up it will appear in this list.
Communication channels	will trigger only on the Communication channels.
Any device event	will trigger on any event that occurs on the device. Within the "any device event" setup the user may set "device event rules" which will constrain which device events will trigger the event.

Note for group triggers: For events to be databased under the name of a specific object, and not the name of the triggering group, the Description field in the **General tab of the Event setup** needs to be modified.

② Click on the question mark icon to see a list of available descriptions.

6.3.3 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*.



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

Use <u>nemtek</u> to trigger the event Trigger using <u>any energizer</u> To change these settings click on the related, blue, hyperlinks.

Start actions when any of the following device events occur

6.3.4 Define the Trigger ("Device Event" Option)

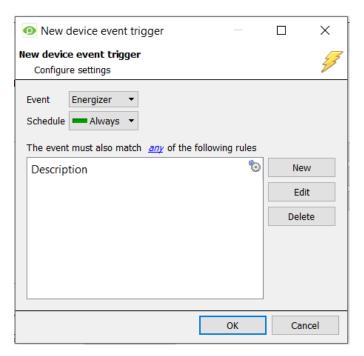
After selecting a master trigger type, add a trigger to the event.

New

Click on New in the Triggers tab. This will bring up another dialogue box.

6.3.4.1 New Device Event Trigger

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



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

6.3.4.2 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.





To configure a New device event rule, **click on New** 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.** This will display the constraint's options.

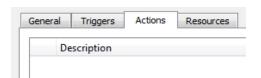
Note: When all available options are known to CathexisVision a drop-down menu will be available. When these variables are not pre-defined they will need to be filled in manually. The information pulled through to the events is information sent to CathexisVision from the Nemtek device. See the Nemtek settings for the strings needed here.

6.3.5 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. Use this to configure settings for the object property trigger.

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

5.5 Actions Tab



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

Select the Actions tab from the New event window.

5.5.1 Adding an Action



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**.

5.5.1.1 Actions: Control Device

One of the available actions will be to control the Nemtek device.

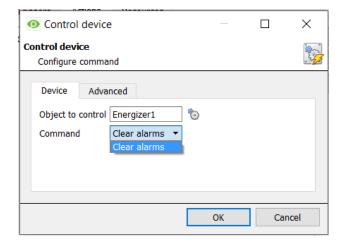




Click a Control Nemtek to bring up the **control device** dialogue.

Under the **Device** tab, the user defines how the device will be controlled. Under the **Advanced** tab, the scheduling of the action is defined.

Configure Command Window: Device Tab



To select an **Object**, click on the settings icon.

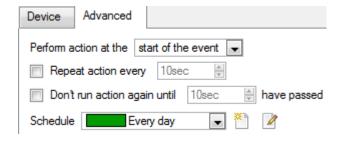
This will display a selection of all the Objects available on the Nemtek device.

The **command** drop-down will change to present the commands available to that Object.

In the example on the left, the Energizer1 has been selected as the **object to control**. Thus, when this event is triggered, the action will clear the alarms on the Energizer1 object.

Note: Only global action can be taken here, and global actions may only apply to **controllers**. For example, **communication channels** cannot be controlled as part of an event action. If one of these objects is selected, there will be no options in the *Command* menu.

Configure Command Window: Advanced Tab



Choose whether to **perform action at the** start of the event, or once the event triggers have subsided.

The two checkboxes allow the user to set the action to repeat every few seconds, and/or not run for a period after it has triggered.

Schedule is a standard CathexisVision schedule, which can be applied to the actions.



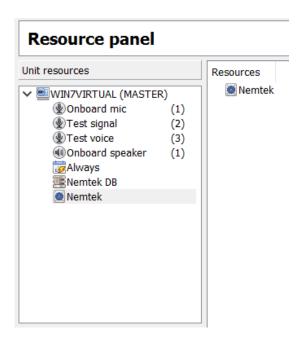
7. Maps

It is possible to add the Nemtek device to a site map, which will allow for a number of action options when objects 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 Nemtek device. For more information on using the CathexisVision Map Editor and Map Tab, please consult the dedicated and detailed **Map Editor Operation Manual**.

7.1 Add the Nemtek Device as a Resource

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



7.1.1 Add the Device in the Resource Panel

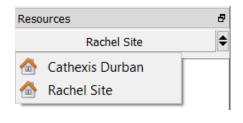
- 1. Navigate to the Resource Panel by following Site / Open Tab / Setup / Resource Panel.
- 2. Drag the Nemtek device from the Unit Resources list into the Resources list, on the right.

7.2 Add the Device in Map Editor

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



7.2.1 Connect to Site



At the bottom right-hand of the Map Editor screen, click the drop-down menu to select the site to connect to.

Once connected to site, all the resources available will populate the panel below.



7.2.2 Adding Device Objects



Drag the Nemtek device from the Site Resources list onto the map area. All of the Nemtek device objects will appear in a list. Select an object.

Note: To add multiple objects, repeatedly drag-and-drop the Nemtek device onto the map area and select the desired objects individually.

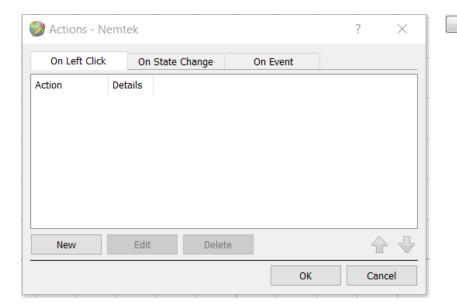
7.3 Adding Device Actions



To add actions to the device objects, select the object on the map and click Edit Actions.

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

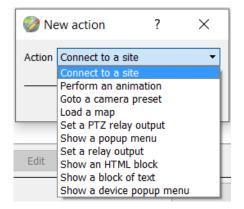
The action triggers will differ according to the object selected, as well whether the action is being set for a Click, State Change or Event.



To create a new action, select New.

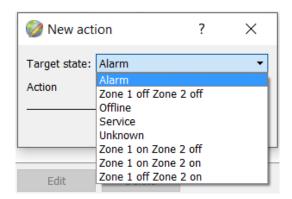


7.3.1 Action: On Left Click Tab



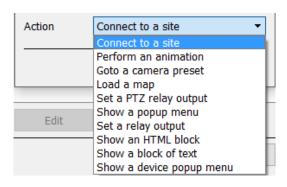
Select a map action to be triggered when this device object is leftclicked on the map.

7.3.2 Action: On State Change Tab



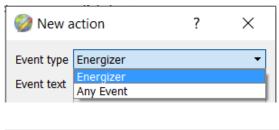
Select the target state of the device object which will trigger the map action.

Note: State Change action is available/unavailable depending on the device object.



Select the map action which will be triggered when the device object changes to the target state.

7.3.3 Action: On Event Tab

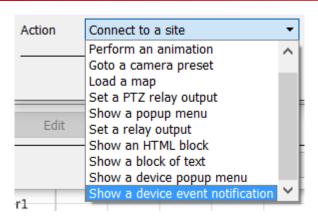


Select the event type of the device object which will trigger the map action.

Enter Event text which will appear on the map when the selected event triggers this map action.

Event text





Select the map action which will be triggered by the device object event.

Note: Event actions include the extra option to **Show** a device event notification.

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

7.4 Save Map

Once finished, save the map.

Note: The map <u>must not be saved</u> in the **Work** folder of the CathexisVision installation directory.

7.5 Map Tab

The saved map needs to 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.



8. Conclusion

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

For support please contact support@cat.co.za