Lenel OnGuard Access Control Integration App-note

Contents

1. Introduction

This document details the integration of the Lenel OnGuard access control software with CathexisVision. CathexisVision communicates with the Lenel OnGuard software and not directly with the Lenel system hardware. Functionally, this integration entails the triggering of standard CathexisVision Events, based on information received from the software.

The Lenel OnGuard integration device in CathexisVision listens for a TCP connection from the CathexisWmiWrapper, on the default port (34000). The CathexisWmiWrapper communicates with Lenel Onguard through DataConduIT.

Note:

1. For information regarding the regular operation of a Lenel device, consult the relevant documentation.
2. There is a General Integration section in the main CathexisVision manual. It has vital information about creating an integration database, as well as a general introduction to the Integration Panel. **Read over this section**.

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.

1.1 Requirements

1.1.1 General Requirements

- CathexisVision 2018.2 or later.
- This runs on Windows or Linux.
- CathexisWmiWrapper must be installed on the same Windows PC as the OnGuard software.

Note:

The CathexisWMIWrapper comes bundled with the Lenel Access Control Integration Guide, which is downloaded from the CathexisVision website.

1.1.2 Lenel OnGuard Requirements

The following were used in this integration:

- OnGuard version 7.3 Service Pack 1 (**7.3.345.54**)

- **LNL-2210 panel**

- **HID iClass reader.**

- Lenel DataConduIT license required (**SWG-1140**).

1.1.3 CathexisVision License Requirements

License No.	License Name	Description
CLEN-2000	Lenel Device License.	This licenses the Lenel OnGuard software in CathexisVision.
CLEN-1001	Single reader license.	This licenses a single reader. Required per reader.
CLEN-3000	Bundle License.	Bundle with device license and unlimited reader licenses.

Note:

1. Either purchase the bundle license, or **both the device and reader license.**

2. All readers must be licensed individually.

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*

1.2 Integration Components and Features

1.2.1 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.

1.2.2 Lenel OnGuard Integration Features

This section indicates the features/abilities of the Lenel OnGuard Access Control software when integrated with CathexisVision.

1.2.2.1 General Device Features

- CathexisVision communicates with Lenel's access control software, OnGuard, aided by a wrapper running on the same unit as the OnGuard software.
- OnGuard users are linked to Windows user accounts.
- The OnGuard user permissions of the linked Windows user running the wrapper are also applied in CathexisVision.
- All device messages are databased as Access events, security events and information event messages.
- Reader objects support overlays indicating door status, access granted/denied, cardholder photo, and request to exit messages, among others.
- Device objects can be used to trigger events, and reader objects can be controlled as event actions.

1.2.2.2 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 in the panel.

Object Type		Abilities
General		- The Panel, Reader, and Wrapper objects are automatically created as soon as communication between the CathexisVision unit and the CathexisWMIWrapper is established. - Only reader objects may be commanded. - Only reader objects support overlays. - Objects may be linked to cameras to associate device events with video footage.
Panel	Object Properties	- Name of panel, - Type of panel, - Connection status, - Segment ID. - Workstation panel is connected to.
	Connection Status	- Panel changes to Offline/online when: - CathexisWMIWrapper service stops/starts, - Access control panel is disconnected.

Reader	**Object Properties**	• Name of reader, • ID of panel reader belongs to, • Usage of reader. E.g. Entrance reader, • Mode of reader. E.g. Card only, • License indication.

	Command	• Open Door.
		• Set Mode:
		   ○ Locked,
		   ○ Card only,
		   ○ Pin or Card,
		   ○ Pin and Card,
		   ○ Unlocked,
		   ○ Faculty Code Only,
		   ○ Cypherlock,
		   ○ Automatic.

	Overlays	• The reader object supports overlays in the camera feed.
		• Overlays display time (before disappearing) is configurable.
		• Older overlays are replaced with newer ones for urgent messages such as:
		   ○ Door forced.
		   ○ New transaction occurs.
		   ○ Request to exit message received.
		• Some examples of details included in the overlays are:
		   ○ Photo of cardholder.
		   ○ Access granted/denied.
		   ○ Door used.
		   ○ Door left open.
		   ○ Door left open is closed.
		   ○ Door forced.
		   ○ Request to exit.

Wrapper	**General**	• Wrapper object automatically created when communication between CathexisVision unit and wrapper is established. • Users running the wrapper must have the correct permissions in OnGuard in order to be subscribed to event information (see object properties).
	Object Properties	• Name of wrapper, • Connection Status, • Namespace, • Indication of subscription to Access and Security Events.
	Connection Status	Wrapper changes to Online/Offline when Connected/Disconnected from OnGuard.

1.2.2.3 Device Events

The CathexisVision Lenel OnGuard integration generates the Access, Security, and Informational device events which are triggered in the Lenel Alarm Monitoring application.

Event Element		Features/Abilities
General		• Events triggered in Lenel's Alarm Monitoring application are sent to CathexisVision. • Device event types are Access, Security, and Informational. • A message is displayed when communication to the panel is lost or restored.
Device Event Types	**Access**	Most door-related events will reflect as Access events, including: • Access Denied: o Invalid Badge, o Reader Locked, o Reader Unlock • Access Granted: o No Entry Made, o Open Door Command Issued – Door Not Used, o Access Granted on Facility Code, o Reader Unlocked, o No Entry Made, etc.
	Security	This integration generates Security events which reflect security concerns about the system as well as the access events. Examples of security events generated by this device include: • Relay Contact Deactivated, • Reader Mode Card Only, • Door Forced Open, • Door Held Open, • Access Granted: No Entry Made, • Access Denied: Reader Locked.
	Informational	Informational events reflect important information about the state of the integration and its components. Informational events include: • Hardware offline/online, • Communication with wrapper established/lost, etc.

CathexisVision Event Actions	Events triggered in Lenel's Alarm Monitoring application are reflected in CathexisVision, and can be used to create CathexisVision system events which may control one of the device objects as an action of the system event.
	
	Only reader objects may be controlled via a CathexisVision system event action, to perform an action:
	
	• Control reader object / Open Door,
	• Control reader object / Set Mode:
	   o Locked,
	   o Card only,
	   o Pin or Card,
	   o Pin and Card,
	   o Unlocked,
	   o Faculty Code Only,
	   o Cypherlock.

1.2.2.4 Metadatabase

A unique meta-database 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 as access, security, and informational event messages. • Database entries include the footage from cameras linked to device objects. • Multiple cameras may be linked to multiple objects. • Device event meta-data 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	• Access, • Security, • Informational, • All.
Sort Options	The metadatabase may be sorted by Device event **time**.

Easy Search	• Reader ID, • Description, • Type, • Firstname, • Lastname, • Cardnumber, • Is Card Readable, • Reader Name, • SSNO (JDE ID).
Filter	• Time, • Reader ID, • Reader Name, • Description, • Type, • Firstname, • Lastname, • Cardnumber, • Is Card Readable, • SSNO (JDE ID).
Export	Database entries may be exported in CSV and PDF format.

2. Device Addition and Configuration

2.1 OnGuard Setup

The OnGuard software needs to be configured to send event information to the CathexisVision server. The section below assumes that the user has a functioning OnGuard software installation.

Note: This section only deals with steps relevant to the configuration of a CathexisVision integration. For more information on operating the Lenel OnGuard software, or help with other configurations, please contact the manufacturer.

All of the below settings take place in the **Systems Administrations** application.

2.1.1 Configure Administrator User Access Rights

This section details the configuration of the OnGuard software user that will be running the wrapper. This user needs to be linked to the relevant Windows PC user account, and then be assigned the correct OnGuard access rights which will be applied in CathexisVision.

To do this, the Windows domain needs to first be linked in the OnGuard software. Open the Lenel OnGuard **Systems Administrations Application**.

2.1.1.1 Link Domain and Configure User

1. Administration menu / Directories
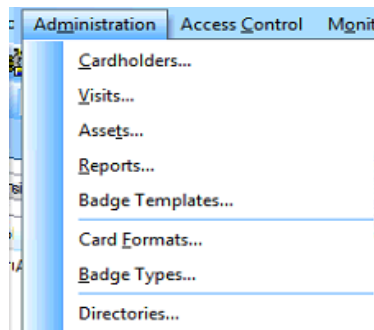
2. Click the **Add** button at the bottom left of the interface.
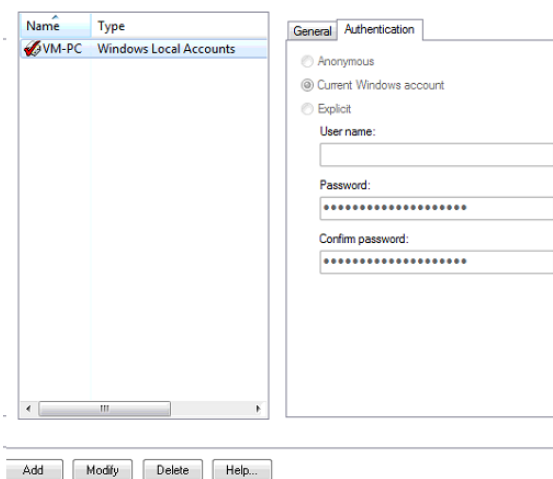
3. Either select a domain template, or copy the existing, current Windows directory.
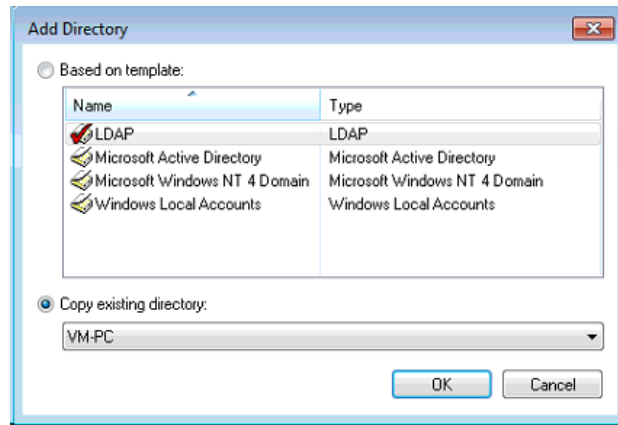
4. In the General tab, enter the details of the domain.

   Note: Fields will be filled automatically if 'Copy Existing Directory was selected, but details may still be edited.

5. In the Authentication Tab, select Current Windows Account and enter the account details for the user currently logged into the Windows domain.

Click OK at the bottom of the interface to save user.

Note: This must be done for the user that will be running the wrapper.

2.1.1.2 Configure Permissions

Now that a user has been created and linked to the Windows domain, user access rights must be assigned.

Note: For this integration to function, OnGuard users must at least have permission to view and control panels, as well as view events.

1. Administration menu / Users
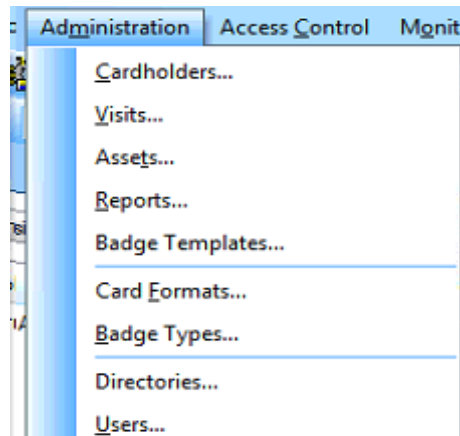
2. Click the **Add/Modify** button at the bottom left of the interface, and edit user settings in the panel on the right.

3. Assign the user the appropriate permissions.

Note: Users **must** at least be able to **receive events, do database searches, and control readers**.

Once the user has been created and permissions assigned, it must be linked to the Windows directory account.
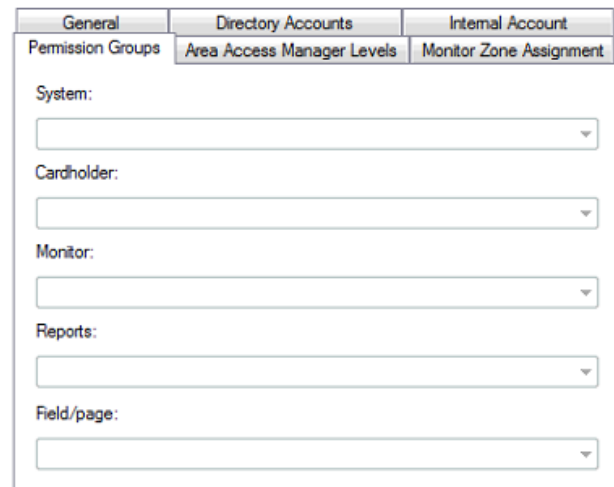
4. Select the Directory Accounts tab.

5. Clink the Link button, and then click the Search button in the window that pops up.

6. The Accounts panel will populate with available user accounts. Select the appropriate user and click **OK**.
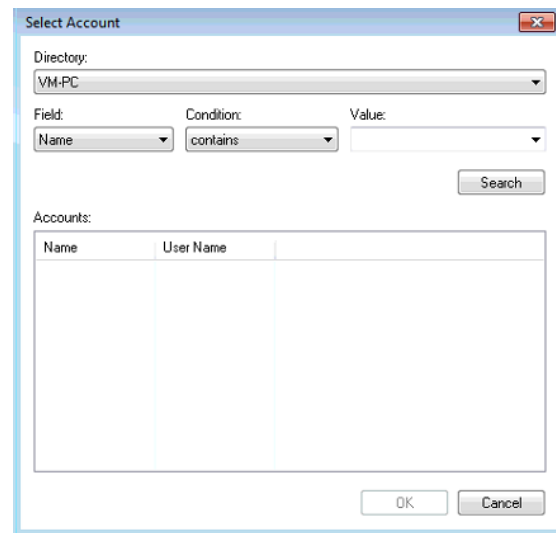
The OnGuard user is now linked to the Windows directory user account, as are all configured OnGuard user settings.

Note: The OnGuard user permissions of the linked Windows user running the wrapper are also applied in CathexisVision.

2.1.2 DataConduIT

Now that users and domains have been configured and linked, Lenel's DataConduIT service needs to be set up. The DataConduIT service communicates with the WMI wrapper.

The DataConduIT setup takes place in the **System Administration** application.

2.1.2.1 Setup DataConduIT

1. Administration menu / System Options.

2. Click **Modify** at the bottom right of the interface.
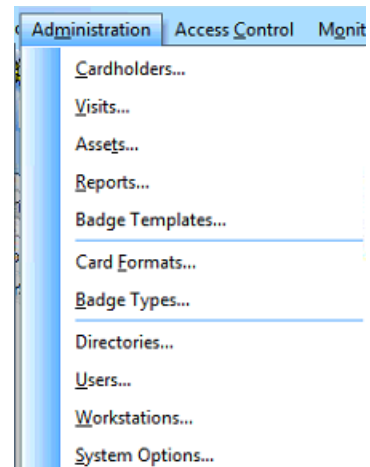
3. Select the local PC from the Linkage Server host Dropdown menu, or Browse for it.

4. Select the Generate Software Events tick box.

7. Click **OK** to finish.

2.1.2.2 Check Services

Make sure the following Lenel services are running by opening Windows Services.

Note: It is recommend setting these services to auto-start up.

- LS DataConduIT Service.

- LS Linkage server.

- LS Communication Server.

2.1.3 CathexisWrapper

The CathexisWMIWrapper needs to be setup to send information from the OnGuard software (above) to the CathexisVision unit running the Lenel Access Control integration. **Please ensure** that the wrapper is set up on the same unit on which Lenel OnGaurd software is running.

Please contact support to obtain the Cathexis Wrapper.

Note: The OnGuard user permissions of the linked Windows user running the wrapper will be applied in CathexisVision.

2.1.3.1 Install Cathexis WMI Wrapper

Open the CathexisWMIWrapper installation file, and follow the setup wizard.

Once installed, the CathexisWMIWrapper Configuration Utility will be launched.

CathexisWMIWrapper Configuration Utility

Enter the IP address of the CathexisVision unit running the integration.

Enter the TCP port number, to which the CathexisVision unit will be listening for event information from the software.
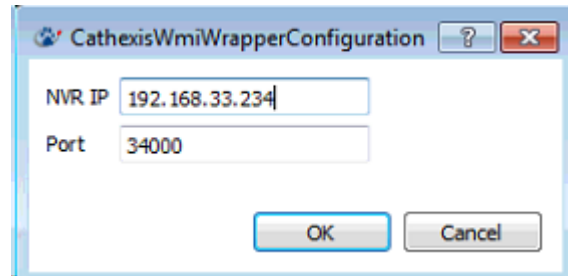
Note: Make note of this port number, as it will need to be entered into the CathexisVision integration device setup.

Click **OK** when done.

2.1.3.2 Run Wrapper as Windows User

The CathexisWMIWrapper now needs to be run as the windows user which has been linked to the Windows domain in the OnGuard software.

Note: The OnGuard user permissions of the Windows user running the wrapper are also applied in CathexisVision.

1. Open Windows Services window.
2. Locate the CathexisWMIWrapper service. Open its properties by right-clicking and selecting Properties, or by double-clicking.
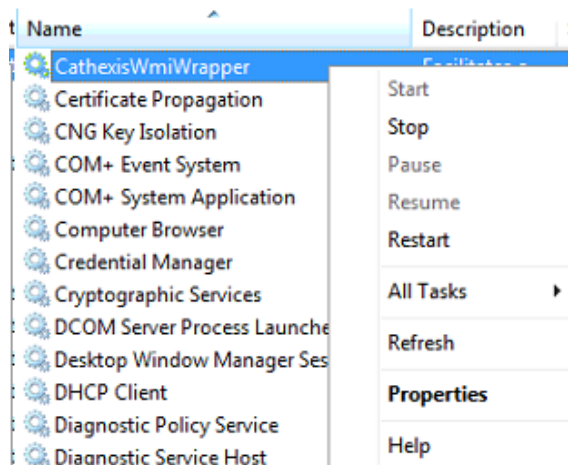
3. In the window that pops up, select the Log On tab.

4. Select **This Account**.

5. Enter the Windows login details for the user which was linked during the OnGuard setup.

6. Click OK.

7. In the main window, right-click the CathexisWMIWrapper service and select **Start** or **Restart**.
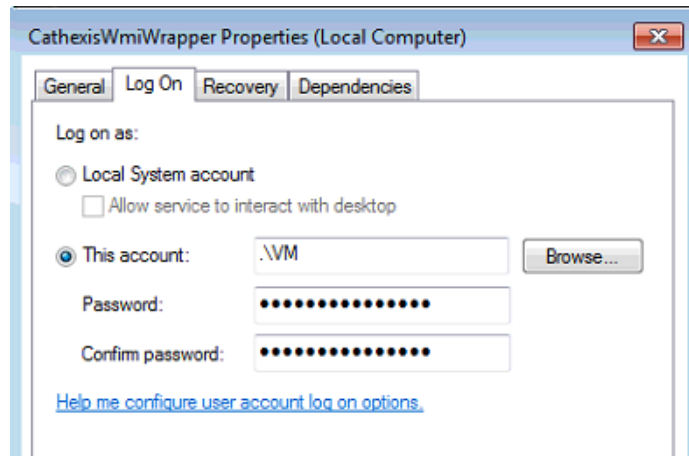
The OnGuard software is now ready to communicate through the CathexisWMIWrapper with the CathexisVision software. Please see the next section for instructions on adding the integration in CathexisVision.
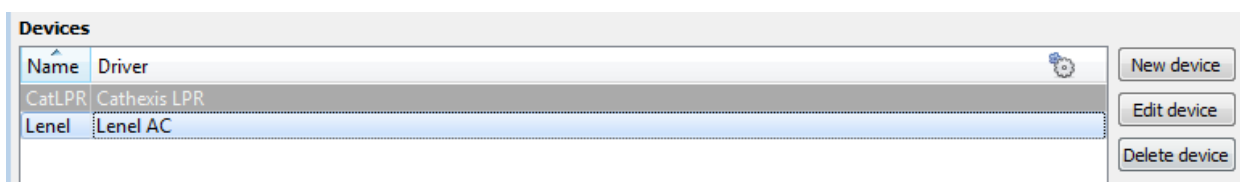
2.2 Devices Section (Add a New Device)

CathexisVision integrations 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:
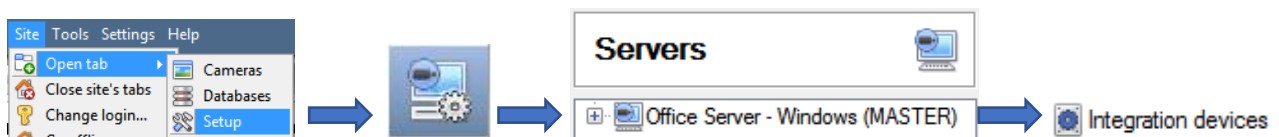
There are two sections in the Integration Panel:

1. The **Devices** list will list the integration devices that are attached to the integration database.

2. The **Configuration** section enables the user to edit or review the device selected in the **Devices** section.
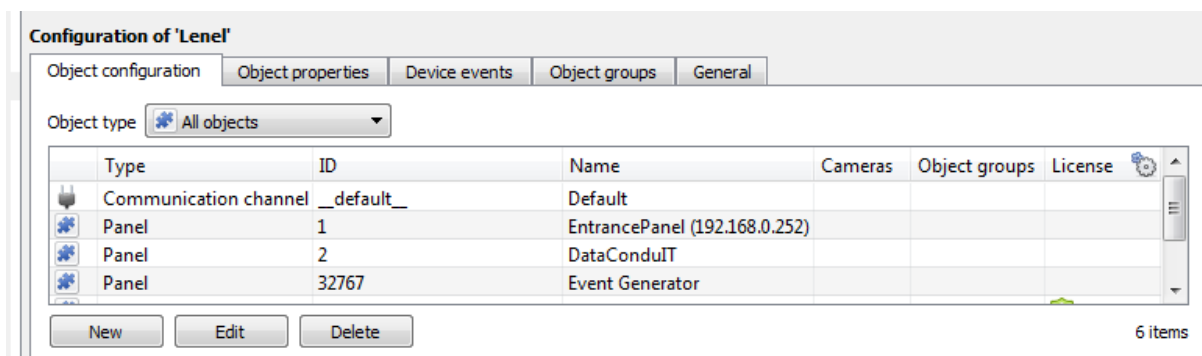
2.2.1 Add New Device

New device	1.	Once in the Integration Panel, click on the **New device** button, in the Devices section. This will open the addition dialogue.

2. Select the **Lenel AC** driver.

Give the device a descriptive **name**.

Enter **the TCP listen port** that CathexisVision will receive event information to.

Note: This port number is found in the CathexisWMIWrapper Configuration Utility. See above.

Enter the time (in seconds) for which **overlays** will be displayed in the camera feed.

Click **Finish** when done.

Once the device has been added and configured, select it in the **Devices list** and all the objects will automatically populate the **Configuration Section**.

3. Configuration Section (Tabs)

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

The Lenel OnGuard device objects will populate as soon as communication is made with the software.

3.1 Object Configuration Tab

The object configuration tab is the tab where the individual objects that comprise the integration may be viewed. The Lenel OnGuard integration objects are **Panel, Reader,** and **Wrapper** objects.

Note on Object Configuration:

1. The Panel, Reader, and Wrapper objects are automatically created as soon as communication between the CathexisVision unit and the CathexisWMIWrapper is established.
2. Additional Panel and Reader objects must be created **in Lenel's OnGuard System Administration application in order to function correctly.**

In this tab, the **Names, Cameras,** and **Groups** assigned to each object are visible.

	Type	ID	Name	Cameras	Object groups	License
	Communication channel	__default__	Default			
	Panel	1	EntrancePanel (192.168.0.252)			
	Panel	2	DataConduIT			
	Panel	32767	Event Generator			
	Reader	PanelID='001',ReaderID='001'	EntranceReader (11-00-1)	Camera 01		✓
	Wrapper	Wrapper	Wrapper			

Configuration of 'Lenel'

Object type: All objects

New   Edit   Delete   6 items

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.

Note: Although new CathexisVision objects may be created here, additional OnGuard Panel and Reader objects must be created **in Lenel's OnGuard System Administration application to function correctly.**

3.1.2 Object Configuration Right-Click Options
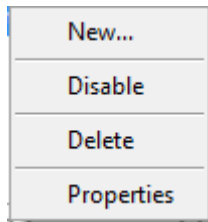
New allows objects to be created.

Disable/Enable allows individual nodes to be enabled or disabled.

Delete will permanently remove this object from the list.

Properties will open up the object properties. The object may be edited from here. (Specifically, this is where cameras and user access levels are assigned.)

3.1.3 Edit Object

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

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

3.1.3.1 Properties: Cameras

Adding a camera to an object will mean that whenever there is an event on that object, the recording from that camera will be related to the time and date of the object event, in the Integration database.
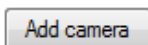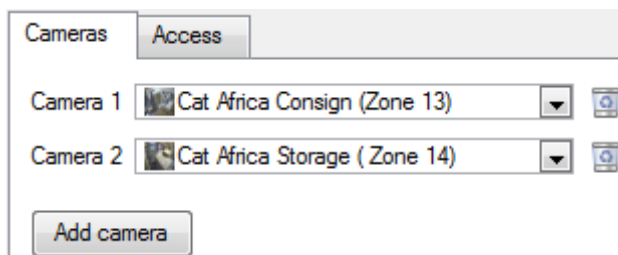
 To **add** a camera, click Add camera, and select the relevant camera from the drop-down menu.

 To **delete** a camera, click the trash icon.

Note: If *continuous recording* is not set up on associated cameras, it runs the risk of objects 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
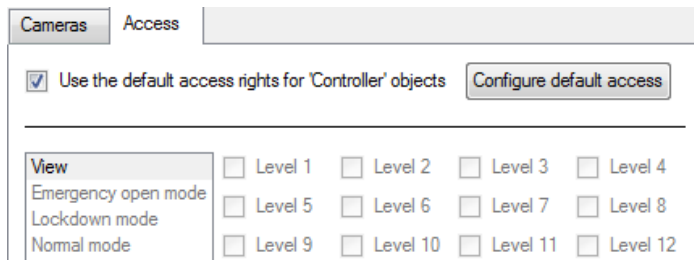
Access allows sensitive objects to be protected by only allowing certain levels users access to them.

A list of objects for which access levels may be set, is visible.

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.
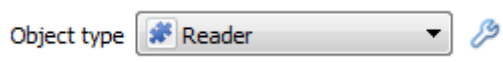
3.1.4 Configure Overlays

Overlays are supported for Reader objects. Overlays will display door states, access granted/denied information, cardholder photo, and request to exit messages.

Overlays are replaced when doors are forced, a new transaction occurs, and/or a request to exit message is received.

Overlay display time is configured when adding the Lenel driver, but may be changed by editing the integration device.

Overlays may be configured globally for **all Readers**, or they may be configured for a single Reader. See below for how to open the overlay configuration window for global or specific overlay configuration. Thereafter, the overlay configuration window looks the same for both options.

3.1.4.1 Configure Global Overlays

Select the Reader object from the Object type drop-down menu.

Select the spanner icon next to the drop-down menu to configure the overlays settings.

3.1.4.2 Configure Overlays for Single Object
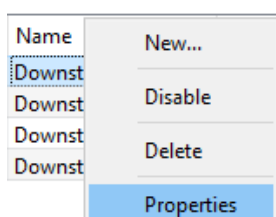
Right-click object and select **Properties** to edit the object.
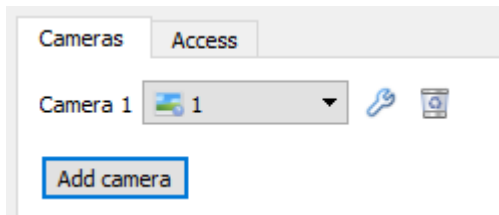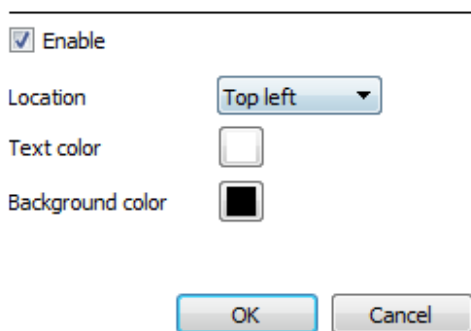
Add a camera to the object.

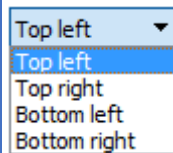Then **click** the **settings** icon that appears next to the camera name.

Note: This option only appears for Reader objects.

Overlay Configuration Window

Note: This window looks the same for both global and specific object overlay configurations.

Check ☑ Enable to **Enable** overlays.

Select the **Location** of the overlay.

Choose the **Text Color** of the overlay text.

Click the colour box to bring up a colour chart.

Choose the **Background colour** of the overlay.

Click the colour box to bring up a colour chart.

3.2 Object Properties Tab

The Object properties tab displays the objects, sorted by type. In the case of the Lenel device, the object types available are **Panel**, **Reader,** and **Wrapper.**

Name	Panel Type	Connection	Segment ID	Workstation
EntrancePanel (192.168.0.252)	LNL-2210	Online	0	VM-PC
DataConduIT	Logical Source	Offline	0	WORKSTATION
Event Generator	Event Generator	Online	0	VM-PC

Select the object type from the drop-down menu:
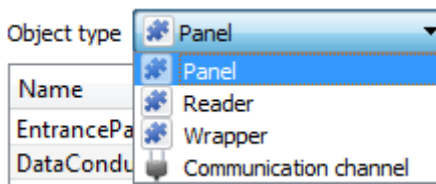
3.2.1 Panel Object

3.2.1.1 Panel Object Properties

- Name of panel.
- Type of panel.
- Connection status. Panel changes to Offline/Online when:
  - CathexisWMIWrapper service stops/starts.
  - Access control panel is disconnected.
- Segment ID.
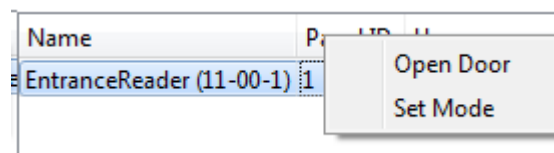- Workstation panel is connected to.

3.2.2 Reader Object

3.2.2.1 Reader Object Properties

- Name of reader.
- ID of panel reader belongs to.
- Usage of reader. E.g. Entrance reader.
- Mode of reader. E.g. Card only.
- License indication.

Command Options

Right-click on Reader object to command it.

- **Open Door.**
- **Set Mode**. See below.

Set Mode
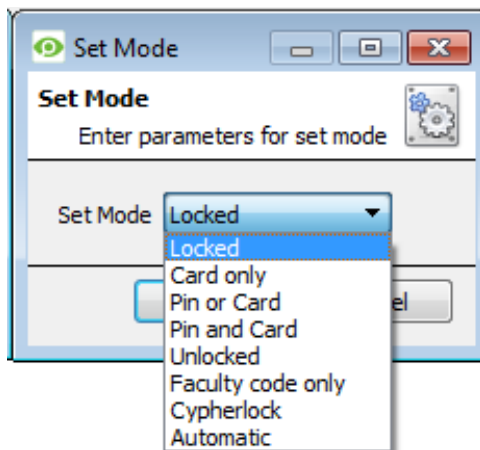
Set the mode of the selected reader from the drop-down menu.

Note: When doors are opened or reader mode is set/changed in CathexisVision, a message will be displayed in both the OnGuard Alarm Monitoring application, and in CathexisVision device events.

3.2.3 Wrapper Object Properties

3.2.3.1 Wrapper Object Properties

- **Name of wrapper**.
- **Connection indication**. Wrapper changes to Online/Offline when Connected/Disconnected from OnGuard.
- **Namespace**. This is the WMI namespace to which the CathexisWmiWrapper is connected. It should read ROOT/OnGuard.
- **Indication of subscription to Access and Security Events**.

Note: Users running the wrapper must have the correct permissions in OnGuard in order to be subscribed to event information.

3.3 Device Events Tab

Object configuration	Object properties	Device events	Object groups	General

Informational ▼	Filter	

Time	Description	Device ID	⚙
2017-10-18 09:35:35.219	Panel offline	Panel.1	
2017-10-18 09:35:35.219	Panel offline	Panel.32767	
2017-10-18 09:36:40.090	Panel online	Panel.1	
2017-10-18 09:36:40.091	Panel online	Panel.32767	
2017-10-18 10:15:35.340	Panel offline	Panel.1	
2017-10-18 10:15:35.340	Panel offline	Panel.32767	
2017-10-18 10:19:21.815	Panel online	Panel.1	
2017-10-18 10:19:21.817	Panel online	Panel.32767	

This will list real time events happening on this device. It is an excellent way for installers to see that the integration is functioning, and to monitor the live events happening on site.

Informational ▼
All events
Access Event
Informational
Security Event
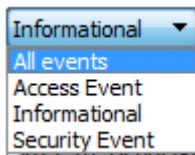
Events may be viewed by type.

Note: When navigating away from this window, the device events for that session will disappear but will still be accessible in the integration metadata base. Please see **Section 3 Database** for more information on navigating to and interacting with the database.

3.3.1 Device Messages

All device events are triggered in the OnGuard Alarm Monitoring application, and the resulting device messages are databased in CathexisVision under Access, Informational and/or Security events.
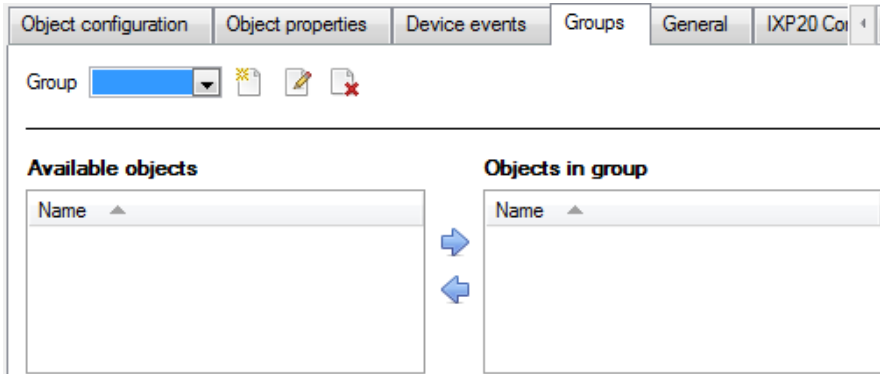
Common message types include door forced, door left open, door not used, tamper, etc.

Note:

- Most events are Access events.

- Informational events mostly indicate status of hardware and communication with the CathexisWMIWrapper.
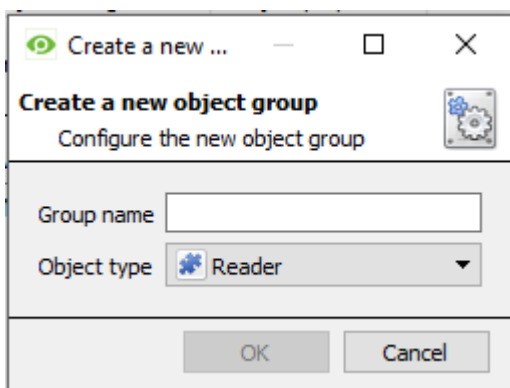
3.4 Groups Tab

Groups of the same type of object may 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.

When creating a group, select what object type to include in the group. Once the group is created the available objects panel will fill up with all available objects of that type. From this list, choose which objects to use in the Group.

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

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

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

3.4.2 Add or Remove Objects

Available objects

Name	

A list of available objects will be displayed in the Available objects panel.

To **add** these objects to the group, select them and click on the right arrow.

To **remove** these objects from the group, select them and click on the left arrow.

Note: Multiple objects may be selected at a time.

3.5 General Tab

The General tab deals with the integration database.

Here, select a pre-created database, or configure a new database.

Configuration of 'Front Door'

Object configuration	Object properties	Device events	Object groups	General

Integration database -- select integration database --

Configure integration databases

General settings
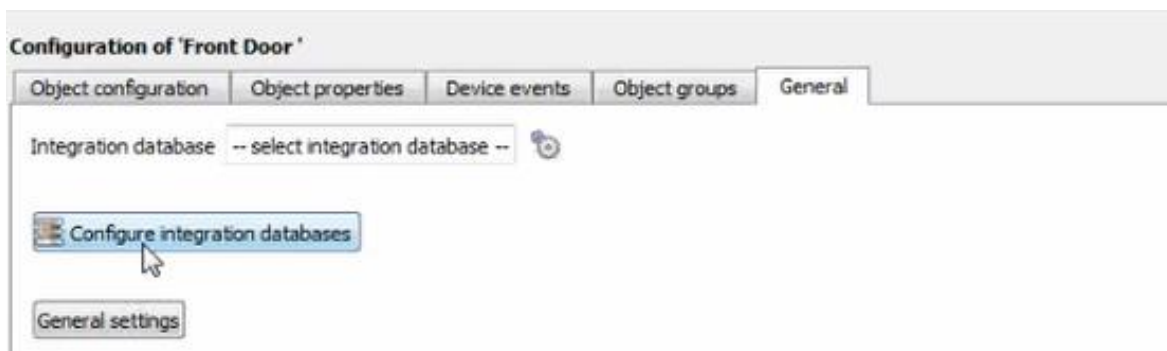
3.5.1 Configuring a Database

3.5.1.1 Select an Integration Database

If an integration specific database has already been created, select it by clicking the settings icon.

Only databases relevant to the integration being added should appear.

If a database has not been created, see below.

3.5.1.2 Configure a New Database
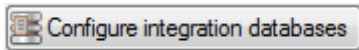
Configure integration databases If there is no database created yet, clicking on this button will take open the integration database setup.

Click **New** to create a database.
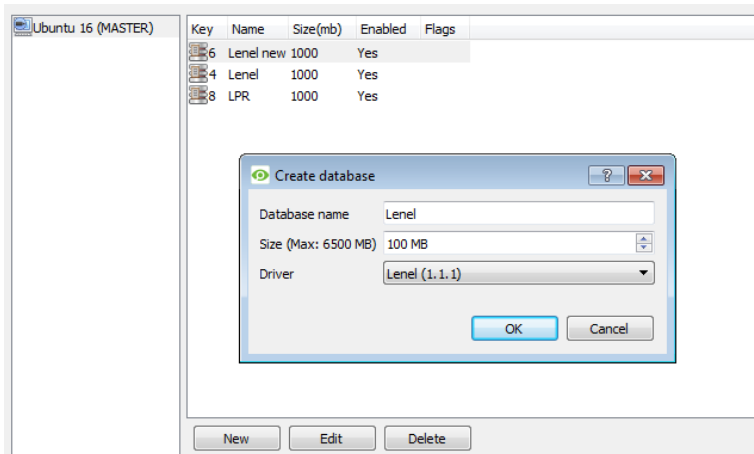
Give the database a **Name**.

Select the **Size** of the database. The max is 1000MB.

Select the **Lenel** driver.

Click **OK** when done.

Select the newly created database by clicking the and selecting it from the drop-down menu.

Note: The information on setting up an integration database may be found in the **Integration Devices General Settings** section of the CathexisVision Setup Manual.

4. Camera Tab Overlay Setup

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

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

4.1 Overlay Display Results

Overlays are configured in the Integrations Panel of the Configure Servers section of the Setup Tab.

Overlays are supported for Reader objects and will display door states, access granted/denied information, cardholder photo, and request to exit messages, among other details.

Older overlays are replaced with new overlays when doors are forced, a new transaction occurs, and/or a request to exit message is received. Overlays are displayed for a certain amount of (configurable) time before disappearing.

The **location, text colour and background colour** of the overlay can be configured for all overlays, or individual overlays. The **time for which overlays are displayed** (before disappearing) can be configured/changed by editing the integration device.

4.2 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.

Once popped out, the Video feed options panel will present a number of options specific to the settings configured for that video feed.

4.2.1 Select the Overlay

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

Select the desired overlay and it will appear over the video feed, as above.

5. Database
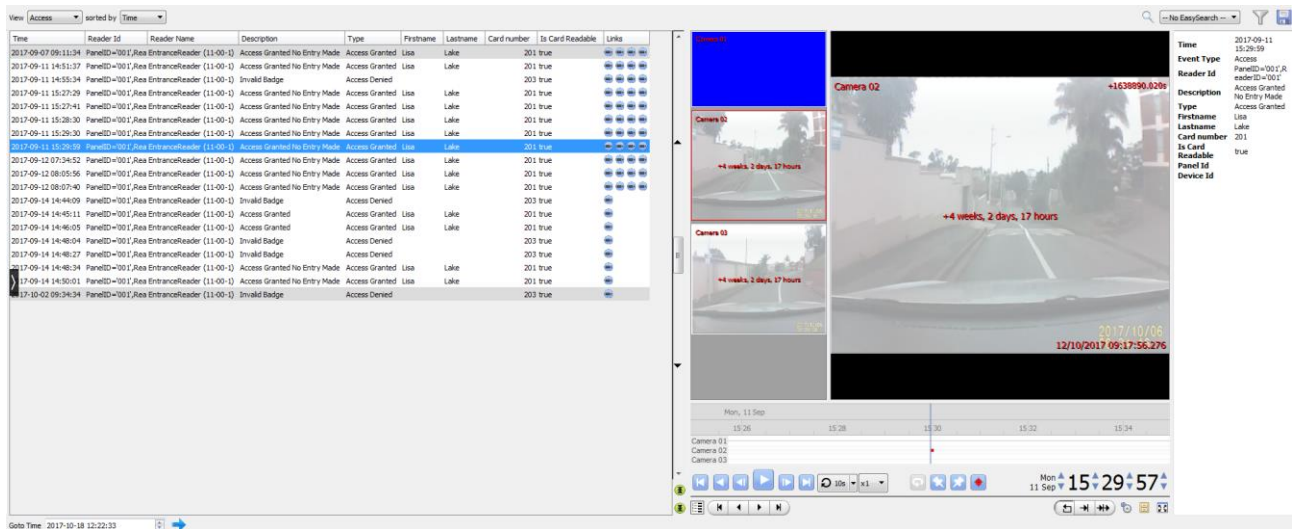
The databases tab will allow the user to navigate the records in each individual database. In the database tab, each database is presented as a table. It has built in filters, and the ability to navigate by timestamp. If a database record has an associated recording, the user will also be able to launch this recording, from within the databases tab.

This database video player is embedded in the database view. This player uses the same timeline features as the CathexisVision cameras 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
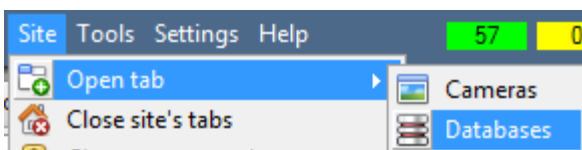
To view the information stored in the Integration database, follow the path to the left.

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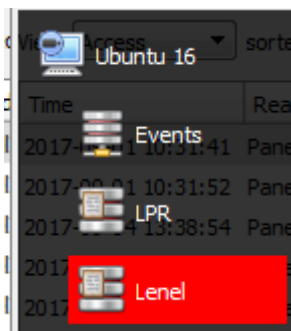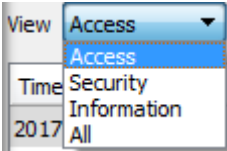
Once in the databases tab, select the relevant integration database. The databases are ordered under the NVRs that they are attached to.

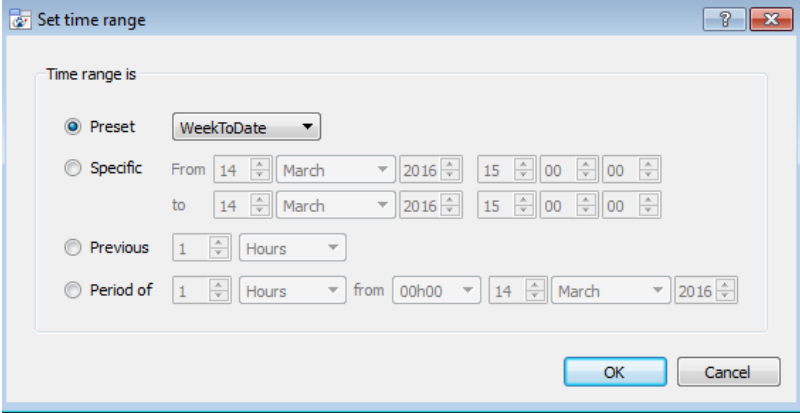Hover over the arrow on the left-side of the camera image to bring up the database panel on the left.

5.2 Database Interface

① **View**	The way the database is presented may be changed. Some integration databases have multiple view options. The **Lenel** database allows viewing by:
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 these options: • Reader ID • Description • Type • Firstname • Lastname • Cardnumber • Is Card Readable • Reader Name • SSNO (JDE ID)
④ **Filter**	Filter offers a more advanced manner of sorting information in the Integration Database table. Once the filters dialogue is open, the following options are available: 1. To **enable** filters check this box: ☑ Enable filters 2. To **add** a new filter click on. The filter icon will change to when filters are active. 3. To **delete** an added filter click on. **Filter options**: • Time • Reader ID • Reader Name

	• Description
	• Type
	• Firstname
	• Lastname
	• Cardnumber
	• Is Card Readable
	• SSNO (JDE ID)
	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 (for example, *in the Week to date*).
	This will bring up the following dialogue box, where the time range can be defined:
	Note:
	1. Multiple filters may be run simultaneously. Filters with the same perameters may be run more than once.
	2. To change a filter click on the blue hyperlinked text.
⑤ **Export**	Generate metadatabase reports in PDF or CSV format. See below.
⑥ **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 Generate Metadatabase 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.

5.2.1.1 Export CSV

Select CSV **Format**.

Edit the **Filename** by either entering it straight into text field (replacing **report.csv).**

Or, click the folder to choose a new save folder and filename.

5.2.1.2 Export PDF

Select PDF **Format**.

Give the PDF a **Heading**.

Select either Landscape or Portrait **Orientation** of the PDF.

Edit the **Filename** by entering it straight into text field (replacing **report.csv)**

Or, click the folder icon to choose a new save folder and filename.

5.2.2 Metadata

Metadata about the event entry is displayed on the right-hand side of the database.

5.2.3 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.

6. Events

A CathexisVision event has a trigger, which causes an action. Integrated devices may be set to act at triggers, or as actions. This section details the Lenel OnGuard specific aspects of Events. There is a comprehensive guide to CathexisVision Events in the main Setup Manual.

Most of the data that CathexisVision receives from a device is presented in the Events interface. This is done to give the user a full range of options. 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 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 is defined.
- In the **Actions Tab** the action/s which the event takes, is 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 Lenel OnGuard device, enter the Events management area:
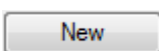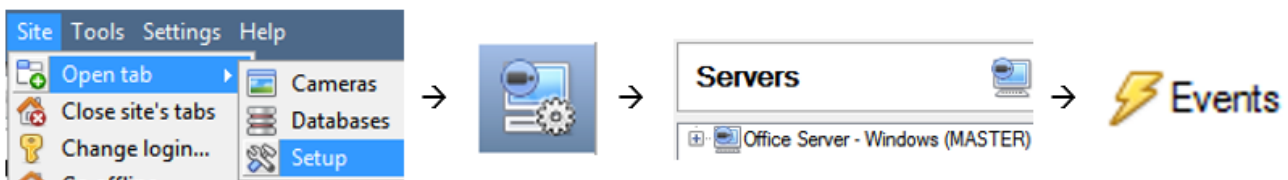
Once in Events management area, click the New icon at the bottom of the screen. This will open up the **New Event window**. Alternatively, right-click and select **New**.

6.3 Triggers Tab

A trigger is the input that tells the event to start. The trigger causes the subsequent action (which the user will also define).
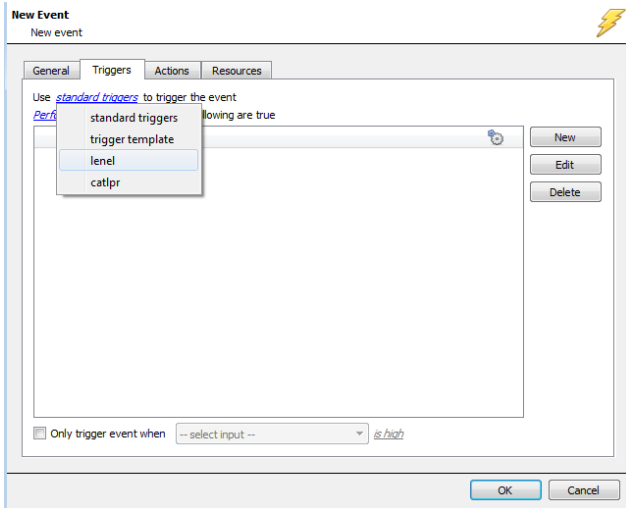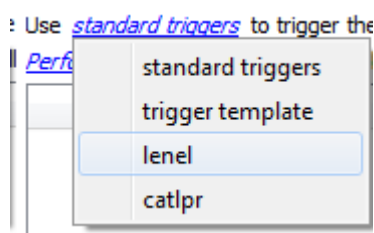
In this window, define the rules and constraints which will trigger an event on the device.

To add/edit/delete a rule use the New, Edit, and Delete buttons on the right-hand side.

Note: The user may set multiple constraints, choosing if *any* , or *all* constraints need to be fulfilled to set off a trigger.

6.3.1 Set the Device as the Trigger

Choose the Master Trigger type here.

When creating a new event, the trigger type will default to: Use *standard triggers* .

To define what should trigger the event, **click on the hyperlink** after the word **"Use"**.

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

6.3.2 While/When and Any/All

The user can choose the option to:

- **start actions when** any of the properties meet user-configured criteria, or any user-configured device events occur, or

- **perform actions while** any/all of the properties meet user-configured criteria.
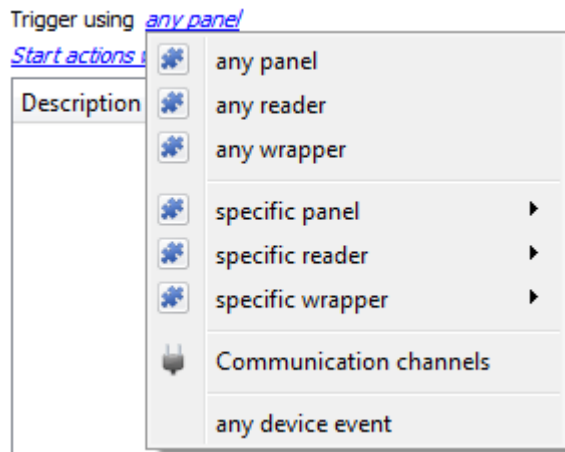
Use *lenel* to trigger the event
Trigger using *any panel*
Start actions when any of the following device events occur

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

6.3.3 Trigger Types

Choose whether certain device objects or any device event will trigger an event.

Trigger using *any panel*
Start actions

Description

* any panel
* any reader
* any wrapper

* specific panel ▶
* specific reader ▶
* specific wrapper ▶

🔌 Communication channels

any device event

Any panel/reader/wrapper will trigger using any of the panel/reader/wrapper objects.
Readers in group… If a group has been created, an option to trigger using any of the reader in that group is present.
Specific panel/reader/wrapper will trigger using only a specific panel/reader/wrapper object.
Any device event will trigger when any trigger occurs on the Lenel OnGuard device.

Note: If object groups have been created, the option to trigger using specific/any group will appear here.

Note for group triggers: To database this event under the name of a specific object, and not the name of the triggering group, modify the Description field in the **General tab** of the Event setup.
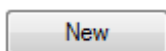
❓ Click on the question mark to see a list of available descriptions.

Example usage: value=$input_name

In this example, replace 'value' with the name the event should be databased under.
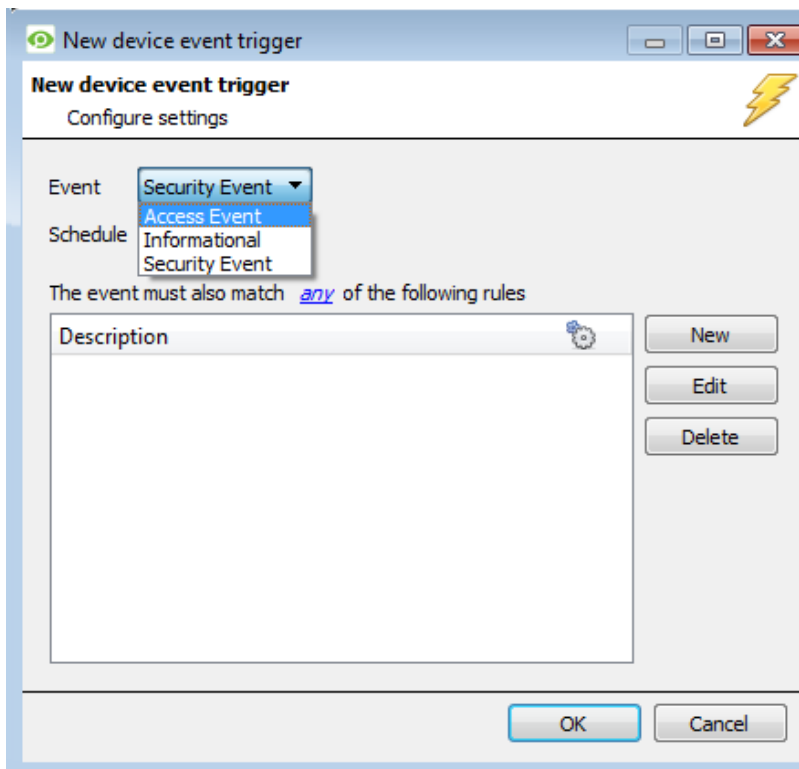
6.3.4 Device Event Triggers

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

New

Click on **New** in the Triggers tab. Clicking on New will bring up the **New device event trigger** dialogue box.

6.3.4.1 New Device Event Trigger


Select the **Event** type.

Define the **Schedule**.

Click on the blue hyperlink to define whether the *any* or *all* of the configured device event rules should trigger an event.

Next, add rules to the device event trigger.

Note: Rules for different event types must be added individually. I.e., switching from Access to Door event types in this window will lose any rules configured for Access events.

6.3.4.2 New Device Event Rule

If no constraints are set, every device event will trigger an event. Once constraints are set, only the constraints chosen will trigger the event. Once the type of device event that will be the trigger is selected, add a new **device event rule.**
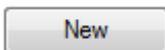
To configure a **New device event rule**, click on New in the **New device event trigger** window. This will bring up the **New device event rule** dialogue.
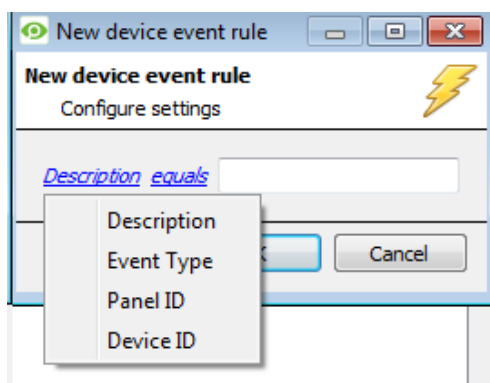
To change the constraint, click on the first hyperlink, this will bring up the full list of available rules.

To modify the way this rule will be treated click on the second hyperlink (*equals* in the example) this will display the rules options.

Note: When all available options are known to CathexisVision, they will be visible in a drop-down menu. 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 Lenel OnGuard device, see the Lenel settings for the strings needed here.

6.4 Actions Tab

Once the triggers that are going to initiate the event have been defined, to define some Actions in the **Actions tab** of the **New Event** window.

To add an action, click New in the Actions tab.
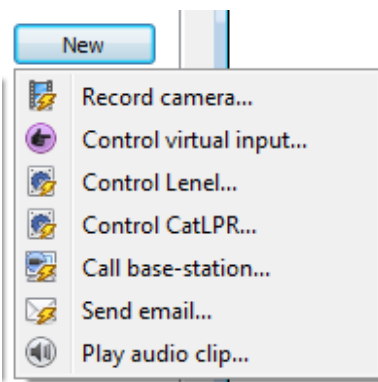
A list of **available actions** will appear. The drop-down contains all the available **action types**. The icons represent the device action **type.**
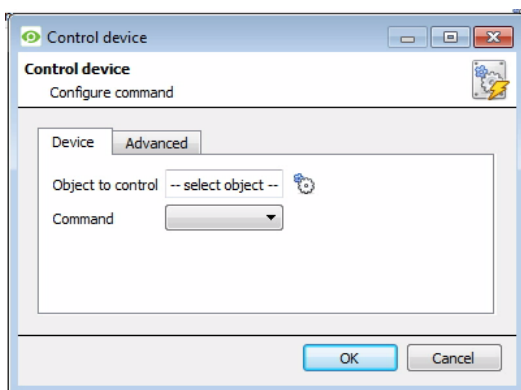
Select an option.

This icon represents an action to control. It will state "**Control** …" and the name of the Action device e.g.
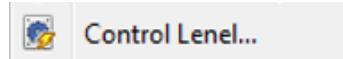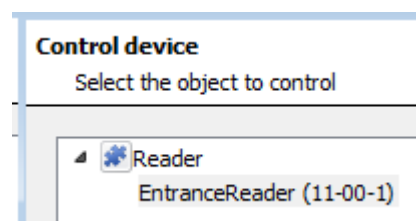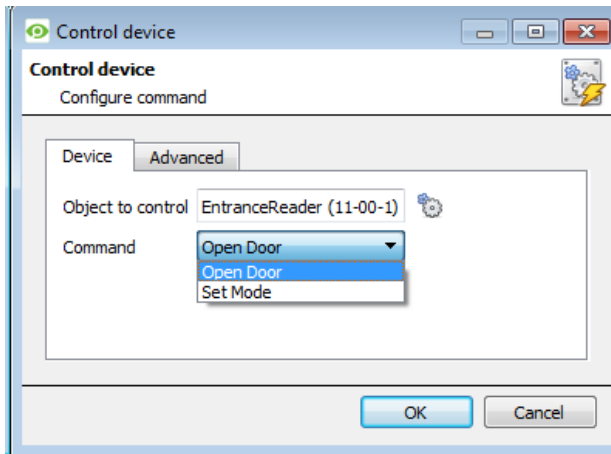
6.4.1 Control Device

The only action that can be taken with the Lenel OnGuard device is to Open Door/Set Mode of reader objects.
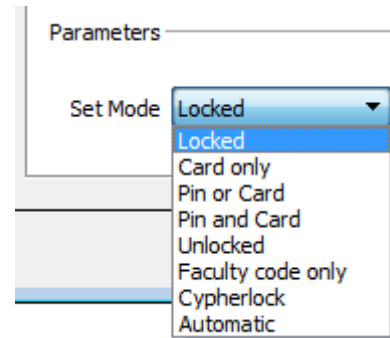
To select an **Object**, click on the settings icon.

This will bring up the window below. Select the object and click **OK**.

Select the **Command** from the drop-down menu. If **Set Mode** is chosen, a mode option drop-down menu is presented:

7. Conclusion

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

For further information on third-party devices and software, please contact your local supplier.

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