

Nedap AEOS Access Control Integration App-note

22 February 2024



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1. Introduction

This document details the integration of the Nedap AEOS Device with CathexisVision software. Nedap AEOS is an access control system that connects physical door locks, readers and additional devices to enhance the flow of people through locations and resources. The system is capable of logging who accessed where and when, and through this integration provides valuable data to CathexisVision to help track how buildings and sites are being used with the associated video footage. Functionally, this integration entails triggering of standard CathexisVision Events, based on the triggers from the Nedap AEOS server.

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 over this section.**

Note: For information regarding the regular operation of a Nedap device, please consult the relevant manufacturer's documentation.

1.1 Requirements

- CathexisVision communicates with the Nedap AEOS device via TCP using an IP address. This connects to the server which in turn connects to the device.
- This integration only runs on Windows units.
- This integration currently only supports 'Standard door' and '2Readers' as access points. If other access points are required, please send a request to support@cathexisvideo.com.

1.1.1 General Requirements

- CathexisVision 2022.1 and later.
- Windows 10-Pro; Windows Server 2008 R2 and later.
- Minimum 4GB of RAM required.
- Cathexis NVR 64-bit version supported.

1.1.2 License Requirements

License	Name	Description
CNDP – 2000	Nedap Access Control Device	This license is the "base" license to integrate with an access control system. It is applied to the server to which the access control device is connected. It will allow for the connection of a single Nedap access control system.
CNDP - 1001	Nedap Access Control Door	These licenses apply to the doors, or readers, in an access control system. The CNDP-1001 will license a single door/reader, and may be added on a door-by-door basis.
CNDP – 3000	Nedap Access Control Bundle	This license includes the CNDP-2000 Nedap device license, and also provides support for unlimited CNDP-1001 door licenses.

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

1.2 Specifications

This integration was tested on:

Third-party software name	AEOS – compatible with the API socket interface
Third-party software version	Version: 2021.1.1
Third party API license/s required	No

1.3 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 are the individual pieces of hardware that comprise the integration. There may be **Objects** 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.

1.4 Features and Abilities

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	 This integration has Door, System, and Communication Channel objects. Objects are automatically created as soon as communication between the CathexisVision unit and device is established. Door objects can be commanded as an action of a CathexisVision system event. Door objects support overlays. Objects may be linked to cameras to associate device events with video footage.
Object Door propertie	 IDs. Name. Controller name. Type. Input state. Lock. Unlock.



		 Emergency unlock. Door open. Alarm. Open too long. Licensed.
	Command	 Lock. Unlock. Normalise Provide Access.
	Overlays	 The Door object supports overlays in the camera feed. Overlays display time. Overlay location, text size, text colour, and background colour are configurable. Overlays displays the Device name and the Device event.
System	Object Properties	 IDs Name. Service version. Login status.
Communication Channel	Object properties	 Name. Channel Status. Details. Creation Type. Creation Time. Idle time (min).

1.4.2 Device Events

The CathexisVision Nedap integration generates Door events, which are triggered on the device and reflected in CathexisVision.

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.
		• ID.
		• Time.
		• Door.
Device Event	D	Controller.
Types	Door Events	• Type.
		Description.
		Carrier info.
		• Badge.

	• Events generated by the device are reflected in CathexisVision and can be used to create CathexisVision system events.
	 Door objects may be controlled as a result of a CathexisVision system event:
CathexisVision System Events	o Lock.
	o Unlock.
	• Normalise.
	• Provide Access.

1.4.3 Metadatabase

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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	• Standard.
Sort Options	Device event time.
Easy Search	 Time. Controller. Door. Carrier info. Event description.
Filter	 Time. Controller. Door. Carrier info. Event description.
Export	Database entries may be exported in CSV and PDF format.

USEFUL LINKS

To view tutorial videos on CathexisVision setup, visit <u>https://cathexisvideo.com/resources/videos</u>

Find answers to Cathexis Frequently Asked Questions: <u>https://cathexis.crisp.help/en/?1557129162258</u>



2. Device Addition and Configuration

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

2.1 Nedap Setup

This integration requires Nedap API port configuration. Contact Nedap support for Nedap software setup questions.

The port can be configured in the aeos.properties file.

Note: In the above example, "false" is mandatory because SSL is not yet supported.

Note: Please consult the Nedap manufacturer's guide for information about how to add a device and other Nedap configuration. Visit <u>https://portal.nedapsecurity.com/robohelp</u>.

2.2 Add a New Device in CathexisVision

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. To get to the Integration Panel, follow this path:

2.2.1 The Integration Panel



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.



2.2.2 Device Addition

6

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

Moxa IO	
Multitone i-Message	
NG Systems Pusher/Mat	
Vedap Access Control	
Nemtek Electric Fence	
OTIS Elevator	
OTIS Escalator	(a)
OnDis Gateway	
OptaSense	
POS Demo	
Paradox EVO192	
Paradox V2	
Paxton access control	
PnP POS	
Pro-Watch Access Control	
ProdevTech POS	
Quide I/O	
nch + 1	

New integration	device		
Configure the	e device		
Name Nedap			
Connection			
IP address	0.0.0.		
Port 8	035	A V	
Settings			
User	3	_	
Password			
Password			
			Finish

2. Select Nedap driver from the list.

- 3. Give the device a descriptive n**ame** e.g. Nedap device.
- 4. Enter the IP address of the server.
- 5. Check the **configure port** is the **same** as in the AEOS configuration
- 6. Enter the **Username and Password** for the server.
- 7. Click Finish.

New device



3. Configuration Section (Tabs)

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 where all the individual objects that comprise the integration may be viewed.

Nedap has three object types: Door, System, and Communication channel.

Object configuration		tion	Object properties	Device events	G Object groups		General		
Object type 🕼 A		All ob	jects	ts 🔹					
	Туре	*	Al ob Door	viects		Name	Cameras	Object groups	License
¥.	Com	Com System Door Communication channel		- 4	L	Default			
*	Door			nunication channel	r01:FrontDoor	FrontDoor			0
44	Door			controller02:BackDoor		BackDoor		0	
*	Syste			1	System				

All Nedap objects (for Door, System, and Communication channel) are populated automatically when communication to the Nedap Server is established. It is not necessary to add new devices/readers manually.

Note: Do not use the special characters '|' and '=' in the naming of objects. These characters cause an issue with the Nedap integration.

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	
Disable	
Delete	
Properties	

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

Disable/Enable allows objects to be enabled/disabled manually.

Delete will permanently remove this object from the list.

Properties will open up the object properties. The object may be edited from here. Specifically, assign cameras to this object, as well as define user access levels for it.



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: 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.

Name FrontDoor				
Cameras A	ccess			
Camera 1	Back Do	or Cam	0	3



To **add** a camera, click Add camera, and select the relevant camera from the dropdown menu.



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

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

Cameras	Access				
🔽 Use the	e default acc	ess rights for 'Co	ontroller' objects	Configure de	afault access
View Emergency Lockdown Normal mod		Level 5	Level 2 Level 6	Level 7	Level 8

Access can be used to protect sensitive objects, by only allowing certain user levels access to them.

There will be a list of objects, whose access level may be set.

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.



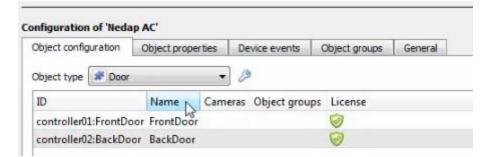
3.1.4 Configure Overlays

Overlays may be configured globally for all objects, or individually for selected objects. The path to follow for opening the configuration window for global or individual overlays is different, however the overlay configuration is the same. Overlays may be configured individually for **Device objects**.

3.1.4.1 Configure Global Overlays

Global overlays may be configured for "Door".

Navigate to the global overlays setup by first opening the Object configuration tab.



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

3.1.4.2 Configure Individual Overlays

ψ.	Communication of	hannel New
2	Device	1
sk ^e	System	S Disable
		Delete
		Propreties

Cameras	Access
Camera 1	Front Door 🔻 🤌 🧃
Add came	12

Right-click an object and select **Properties** to edit the object.

Add a camera to the object, or, select a camera from the drop-down menu.

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

B

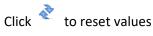


Overlay Configuration for Individual objects

8 ×
Use defaults
Cancel

Uncheck **Use defaults** to edit overlays, or override globally configured overlays for the selected device.

Use Defaults: This option is only available when editing individual overlays. Check Use defaults to use the global configurations for position, text size, and colour.



Configure overlays

Select Text Size options from the drop-down menu.

Define the Location of the overlay panel.

Define the **Background Colour** of the overlay stream: set the panel appearance to default; remove the border or remove the panel entirely (so that only the overlay text appears). Adjust the opacity as required.

Choose Text Colour.

To set a custom panel colour, uncheck **Use Default** background colour.

C
 с С

Click the colour box to bring up a colour chart.

Enable: Check the box to enable overlay configuration.

3.2 Objects Properties Tab

The Object properties tab allows viewing objects, sorted by type. In the case of the Nedap device, there is the option of viewing by **Door, System,** and **Communication channel.**

Object config	uration	Object properties	Device events	Object gro	ups	General					
Object type	# Door	•	1								
	Se Door	·		Innut state	Lock	Unlock	Emergency unlock	Door open	Alarm	Open too long	Licensed
Name	Svete	mN		unbere sense	Loss	omosa	anneigeney annoen	see. shere		- P	
	Syste	m	t_StandardDoor	the second s	*	*	*	*	*	*	1

Commands can be given from the Object properties tab.



3.2.1 Controlling Commands on Device Objects

- 1. Select Object type from the drop-down menu on the Object properties tab.
- 2. Right-click an item on the list.
- Choose a command from the drop-down menu.
 The options are Lock, Unlock, Normalise or Provide Access.

Configuratio	n of 'Neda	ap'			
Object confi	guration	Obj∉	ect prope	erties [
Object type	Door			-	
Name (Lock		In an a head	Lock	
FrontDoor	Lock			×	
BackDoor	Unloc	<		×	
	Norma	alise			
	Provid	e Acce	ess		

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.

Object	configur	ration Of	oject properties	Device events	Object groups	Ger
Event	•					
Time	Door	Controller	Pype	Description		
				Access point lock	red	
202	Fro	controlle	AEOS Acce	Unlocked event, a	activated	
202	Fro	controlle	AEOS Acce	Access point unle	ocked	
202	Fro	controlle	AEOS Acce	Access point non	mal	
202	Fro	controlle	AEOS Acce	Unlocked event,	de-activated	

3.4 Object Groups Tab

Groups of the same type of object can be created.

Configuration of 'Front Door '			
Object configuration Object properties	Device events	Object groups	General
Group 🗷 Front Door 🗸 🎽 🃝 🙀			
Available objects			Objects in 'Front Door ' group
Name		6	Name
Front Door			
			4

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Tip: This is useful when setting up events, because events can be triggered by an object group. (For example, 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 Nedap group, click on this icon.
- To **edit** a Nedap group, click on this icon.
- To **delete** a Nedap group, click on this icon.



Give the group a descriptive Group name.

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

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

3.4.2 Add or Remove Objects

Available objects	
Name	6
Front Door	

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.

bject configuration	Object properties	Device events	Object groups	General
ntegration database	select integration da	atabase 🐌		
Configure integral	ion databases			

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 Select an Integration Database

	Object configuration	Object properties	Device events	Object groups	Genera
Integration database Nedap DB	ntegration database	Nedap DB	6		

To select a database, click on the settings icon, and select the relevant database.

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

3.5.2 Configure a New Database

The first time an integration database is added, the general integration database will need to be **initialised**. Thereafter, a database for a specific integration can be **created**.

Configure integration databases

To create a new database, click the Configure integration databases button from the General tab. This opens the integration database setup.



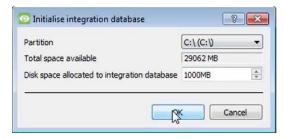
3.5.2.1 Initialise the Integration Database

latabase setup (direct)		?	×
(MASTER)	Initialise integration database		
		🙆 Clo	se

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

Click Initialise integration database.

Initialise integratio	and at a hard
ii iiliaiise ii ileyralio	iii ualabase

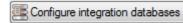


Choose the partition on which the database will be created.

Select disk space allocation.

3.5.2.2 Add a New Device Database

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



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

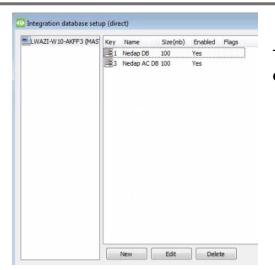


Click the **New** button at the bottom of the **Integration database setup** window.

Database name		
Size (Max: 400 MB)	100 MB	*
Driver	A5 POS (1.1.1)	+
	Maxxess Access Control (1.0.0) Mettler Scale UC3 (1.1.1) Mettler Toldo SICS Scale (1.1.1) Moduteg 2 W Perimeter Monitoring (1.1.1) Moduteg C Perimeter Monitoring (1.1.1) Morleys F[3: System (1.1.1) Morley Lasson (1.1.1) Multitone i-Message (1.1.1) MG Pusher/Mat System (1.1.1)	-

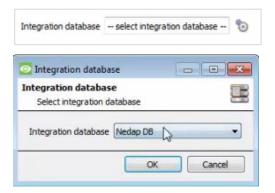
- Give the Integration database a descriptive **Database** Name.
- Allocate a Size to the new device database.
- Select the device **Driver (Nedap AC)** from the dropdown list.
- Click **OK** to create the database.





The newly created database will appear in the **Integration database** setup.

3.5.2.3 Select the Nedap Integration Database



From the General tab, **click** the gear icon 觉.

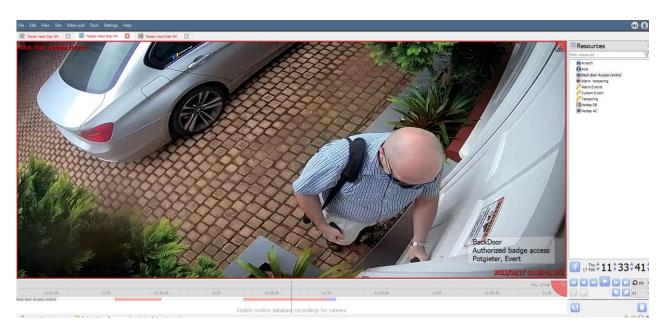
In the dialogue that appears, **select** the relevant integration database.

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

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 Table Overlay Setup

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



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

4.1 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.

4.1.1 Select the Overlay





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

Select the **device**, **enable** the overlay, and it will appear over the video feed, as above.





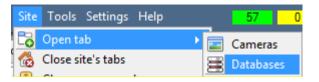
5. Database

The Databases tab allows the user to navigate to 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, this recording can be launched from within the Databases tab.

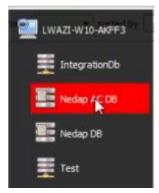
Most integrations will have a different database presentation, and unique filters, due to the different parameters sent to CathexisVision by the integrated device.

5.1 Navigate to the Database

To view information stored in the Integration, first navigate to the Databases Tab.



Follow the path on the left: Site / Open tab / Databases.



Select the **Nedap** integration database from the database panel that opens on the left-hand side.

The databases are ordered under the NVRs that they are attached to.

Tester site	T 28 E	ester site		ester site 🗵		
iew Standard 🔹 so	orted by Time	• •				
Time	Controller	Door	Badge info	Carrier info	Event Description	Links
2022-01-25 15:45:11	controller01	FrontDoor	-	-	Access point locked	
2022-01-25 15:45:15	controller01	FrontDoor		250	Unlocked event, activated	
2022-01-25 15:45:15	controller01	FrontDoor	-		Access point unlocked	

On the left is an image of a Nedap database.



5.2 Database Interface

View All	 sorted by Time 2 	No EasySearch	ch v 4 5 6
Goto Time 2017-	01-16 12:05:42	→ 7	
Connected to uni	t WIN7VIRTUAL		

1	View	Change the way that the database is presented. Some integration databases have multiple view options. The Nedap database can be viewed in Standard presentation.
2	Sorted By	Sort the Events based on the following parameter: Time.
3	Easy Search	Time Controller Door Carrier info Event Description
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.
		2. To add a new filter, click this icon.
		The filter icon $\mathbb M$ will change when filters are active $\mathbb W$
		3. To delete an added filter, click this icon.
		A Time range , within which the search will be conducted, may also be set. To set a Time range , click on the blue hyperlinked text which specifies time (e.g. <i>in the Week to date</i>). This will bring up the following dialogue box, where the time range can be defined:
		Set time range
		Time range is
		● Preset WeekToDate ● Specific From 14 ⊕ March ♥ 2016 ⊕ 15 ⊕ 00 ⊕ 00 ⊕ to 14 ⊕ March ♥ 2016 ⊕ 15 ⊕ 00 ⊕ 00 ♥
		 Previous 1 → Hours ▼ Period of 1 → Hours ▼ from 00h00 ▼ 14 → March ▼ 2016 →
		OK Cancel

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		Note:
		1. Multiple filters may be run simultaneously. Filters with the same
		parameters 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	Manage Reports	Generate scheduled metadatabase reports. See below.
7	Go to Time	This navigates to a specific point in time, down to the second. To navigate to
		a timestamp, set the time using the time and date boxes.
		Then click on the arrow icon.

5.2.1 Generate and Export Metadatabase Reports



Click the save icon to open the Export window.

Export ? × Select the period to export	Select the Period to export, and enter the required details.
 Preset Quarter to date ▼ Specific From 1 → January ▼ 2017 → 00 → 00 → 00 → 00 → 00 → 00 → 00 →	Click Next .
Back Next	
Export ? X Configure the report Format CSV Filename C:/Program Files/CathexisVision Client/report.csv	Select the Format to export the report in; either CSV or PDF. See below for the two options.
Back Export	

5.2.1.2 Export CSV

Configure the report		
Format	CSV 👻	
Filename	C:/Program Files/CathexisVision Client/report.csv	

Select CSV Format.

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

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



5.2.1.3 Export PDF

Configure the report
Format PDF 🗸
Heading
Orientation Portrait 💌
Filename C:/Program Files/CathexisVision Client/report.pdf
Back Export
Back Export

Select PDF Format.

Give the PDF a **Heading**.

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

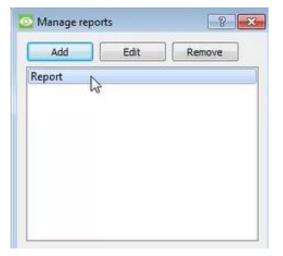
Edit the **Filename** by either entering it straight into text field (replacing **report.csv**).

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

5.2.2 Scheduled Metadatabase Reports



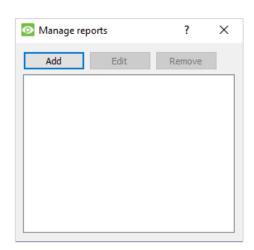
Click the report icon to open the scheduled report window.



All created reports will be listed here.

- First, click Add to create a report.
- Then **edit** to define the reporting schedule. See below for more detail.
- To create, edit, or delete a report, select the entry and click on the corresponding button.

5.2.2.1 New Scheduled Report



- In the Manage reports window, click Add.



CathexisVision	?	×	- Give the report a description.
Enter a report description Front	Door Even	ts	- Click OK when done.
ОК	Cano		
Manage reports	?	×	The item will appear in a list
Add Edit	Remove	:	The item will appear in a list.
Front Door Events			

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

Schedule

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

💿 CathexisV	/ision			?	\times
Description	Front Door Events				
View	All	\sim			
Sorted by	Time	~ }	7		
Format	PDF	\sim			
PDF orientation	on Portrait	\sim			
Period M	lonth to date	Edi	t		
Schedule W	/eekly on Monday at 07:00	Edi	t		
Recipients	×	Ade	b	Remov	e
		(Ж	Cano	el

Edit the **Description** if needed.

Edit Viewing options.

Select the Sorted by option.

Select the Format.

Select the orientation of the Format.

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

Define the **Schedule** for the report.

Select **Recipients** from the drop-down menu to whom reports will be sent.

Add/Remove Recipients

Use the icons to edit the drop-down menu.

Add recipient	Add
Add recipient	
Pomovo recipiont	Remove

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

Remove recipient

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



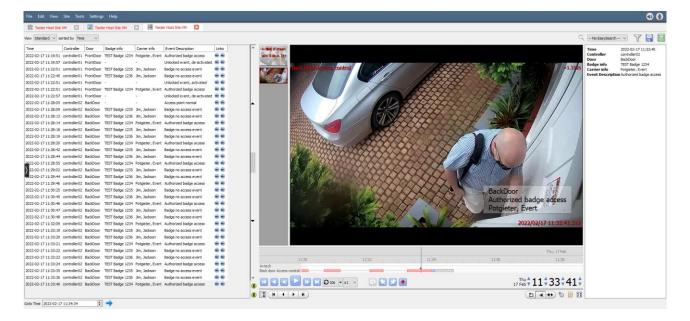
5.2.3 Metadata

Time	2022-01-26 08:05:21
Controller	controller01
Door	FrontDoor
Badge info	-
Carrier info	20
Event Description	Unlocked event, activated

On the right-hand side of the database, meta-data about the event entry is displayed.

5.2.4 Viewing an Entry's Associated Recording

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



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. Set integrated devices to act as triggers, or as actions. This document will detail the Nedap 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 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* 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 Nedap device, navigate to Events by following the sequence: **Open Tab** / **Setup / Servers / Master Server / Events**. This is shown below.



This will allow the user to enter the Events management area:

	Servers	LWAZI-	LWAZI-W10-AKFF3 - Events					
2	▲ ■LWAZI-W10-AKFF3 (MASTER)	Name	Triggers	Actions	Databases	Schedule		
	Cameras Video analytics	System Event	🔘 Nedap AC	•			Always	
	Databases							
	Scheduled recordings							
6	Scheduled archives							
	Events Monitors		2					

New

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**.

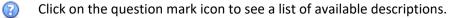


6.3 General Tab

Create a new event under the General tab by filling in the fields.

ıe.
ıt.
red by
i

Note for group triggers: For an event to be databased 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.



The following items will appear:

O Help	?	\times
This is the name the event is given when databased or sent as an alarm. If this field is empty then the event	t name is	used.
The current triggers provide the following variables:		
<pre>msg_type obj_app_type obj_device_ip obj_device_type obj_licensed obj_mac obj_mac obj_name obj_site obj_state</pre>		
Example usage: value=\$msg_type		
(note the variable must be prefixed with a '\$')		
	😢 Clo	se

In the example below, the text "Door Status" will be databased, along with the state of the *door object* that triggered the event:

Description	\$obj_state	2
-------------	-------------	---



6.4 Triggers Tab

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

6.4.1 Set the Device as the Trigger

General	Triggers	Actions	Resources
Use <u>stan</u>	dard triggers	to trigger th	e event
Perfi	standard t	riggers	lowing are true
	trigger ten	nplate	1.1
	nedap ac		

When creating a new event, the trigger type will default to: Use <u>standard triggers</u>

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

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

6.4.2 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.

<u>Start actions when</u>	any of the properties meet the following criteria
	any of the following device events occur
Perform actions while	any of the properties meet the following criteria
	<u>all</u> of the properties meet the following criteria

Use <u>nedap ac</u> to trigger the event Trigger using <u>any drop</u> <u>Start actions when by of the following device events occur</u> To change these settings, click on the related blue hyperlinks, as shown in the image on the left.



6.4.3 Trigger Types (Trigger Using)

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

General	Trigger	s Actions	Resources			
se <u>neda</u>	ac to tri	igger the event				
rigger usi	ng <u>any d</u>	bor		-		
Start actio	<u>ns i</u> 🕷	any door			2	
Description	on 😹	any system				
	*	specific door			#	BackDoor
	*	specific syste	m	6	*	FrontDoor
	Ψ.	Communicat	tion channels	10	Г	
		any device ev	/ent		L .	

Any door/system will trigger if anything happens on any door or system.

Specific door/system will trigger on the specific object chosen.

Any device event will trigger, initially, when any event occurs on the device.

6.4.4 Define the Trigger (Any Device Event)

After selecting a master trigger type, add a trigger to the event. The following example is based on a user having selected "Trigger using **Any device event**".

New

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

6.4.4.1 New Device Event Trigger

Event Schedule	evice event trigger are settings		
Descrip	tion	C ³	New Edit Delete
		OK	Cancel

- Choose the type of device Event that will be the trigger. Choose from the drop-down menu.
- Choose a schedule.
- Choose if *my*, or *d* constraints need to be fulfilled to set off a trigger.
- To add/edit/delete a Device event rule (a constraint to the device event trigger) use the New, Edit, and Delete buttons on the right-hand side.

Note: Multiple constraints can be set. If constraints are not defined, every device event will trigger this event.



New Device Event Rule

New

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.

💿 New devi 📃	
New device event rule Configure settings	
Door equals	
- Door	
Controller	Cancel
Туре	
Description	
Carrier info	
Badge	

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 (which is *equals* in the example). This will display the rules options.

Note: When all available options are known to CathexisVision, a drop-down menu will appear. When these variables are not pre-defined, fill them in.

0	New devi			×
	device even onfigure settin			23
Des	scription equa	🖢 Tamp	ering sta	rted
_	Door	ł		
	Controlle	r	Can	cel
	Туре	ł		
	Descriptio	on		
	Carrier in	fo		
-	Badge	ł		

Some event types require a **written description** where there is no drop-down menu. Fill in the description in the field.

Note: Descriptions must be named **exactly** as they appear in the **Databases table**.

Descriptions are **case sensitive**. For example, naming the event "tampering started" will not trigger an event since it does not match the description "Tampering started".

6.4.5 New Object Property Trigger

If the user has defined the trigger according to properties meeting criteria (in while/when and any/all), the **New object property trigger** dialogue box will open. In these instances, further constraints need not be set, since they are being added one at a time. This option is better if a few triggers have been selected to use.

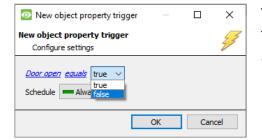
Note: This is also true for groups, since a group may only be made up of one object type.

💿 New object property trigger		\times
New object property trigger Configure settings		23
Door open equals true V Schedule Always V		
ОК	Ca	ncel

Configure the settings on the event type that has been selected.

In the example alongside, if "Door open" is the selected event type, a drop-down menu will appear in the next window.





To configure the "Active" event, **select** the appropriate option from the **drop-down menu**.

"true" will trigger a door event in response to doors open.

6.5 Actions Tab

General	Triggers	Actions	Resources
De	scription		

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.

One of the available actions will be to *control* a Nedap device.

6.5.1 Adding an Action

New

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

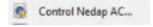


A list of **available actions** will appear. The drop-down contains all the available **action types**. The icons represent the device action **type**.

Select an option.

This icon represents an action to control. It will state "Control ..." and the name of the Action device e.g.
Control Nedap AC...

6.5.1.1 Control Device



Click a Control device option 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

ontrol device Configure command	
Device Advanced Object to control select object Command	6
h	OK. Cancel

Control device	
Select the object to control	Q
Device Front Door	12

0	Control device	1			×
	itrol device Configure comm	and			and the second second
	-	anced			
	Object to contro	FrontDoor	2		
	Command	Lock Unlock Normalise			
			ОК	Ca	ncel

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

This provides a selection of all the Objects available on the Nedap device.

Under the object type parent group, select the individual objects to control.

Click OK.

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

Choose a command with which to control the selected object.

Click OK.



Advanced

Device Advanced
Perform action at the start of the event
Repeat action every 10sec
Don't run action again until 10sec 🛓 have passed
Schedule 📃 Every day 🔍 🎽 📝

Choose to **perform action:** either **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 Cathexis schedule, which may be applied to the actions.

6.6 Resources Tab

8	o input	Audi		Cameras
• •	ect audio input] sel	amera 🔻	select o
	output	Audi	amera 🔻	select o
	ect audio output	sel	amera 🔻	select o
]	amera 🔻	select o
]	amera 🔻	select o
]	amera 🔻	select o
]	amera 🔻	select o
]	amera 🔻	select o

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

The default is to select "Use trigger resources."



7. Maps

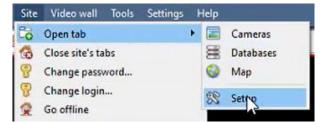
It is possible to add Nedap device to a site map, which will allow for a number of action options when access control events are triggered. These options include the animation of triggered access control events and connecting to site cameras when access control events are triggered, etc.

Note: This section will only deal with the specifics of the Nedap device. For more information on using the CathexisVision Map Editor and Map Tab, please consult the *Map Editor Operation Manual*.

7.1 Add the Nedap Device as a Resource

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

7.1.1 Add the Device in the Resource Panel



Navigate to the **Resource Panel** by following: Site / Open Tab / Setup / Configure resource Panel



Click the **Configure Resources** icon.

🛞 Test	ter Host Site VM 🛛 🚍 Tester Host Site VM 🔯 🗮 Tester Hos	it Site VM 🛛 🗶
	Resource panel	
2	Unit resources	Resources
	WAZI-W10-AKFF3 (MASTER)	Avids Avids Avids Avids Avids Avids Avids Avids Avids Avids Avids Avids A
	State events State event System Event Tampering Nedap DB IntegrationDb Test Nedap AC VBOX HARDDISK	

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

Select the **Nedap** integration device. Drag and drop it under **Resources** on the right.

The Nedap integration device will now be listed as a Resource in the Maps editor.

7.2 Configure Map Editor

Open Map Editor.





Map Editor - New Map	- 🗆 X
le Edit View Layer Object Help	
↗ ^) ≓ 및 Ⅲ № № ♥, ♥, ♥, ♥, ♥, ♥, ♥, ♥, ♥, ♥, ♥, ♥, ♥,	
	Layers 6
	Default Layer
	Objects
	Object Nedap AC
	polygon
	Properties 6
	Polygon Object Edit Actions.
	Property Value / Object
	ID polygon
FrontDoor	X -251.465 Y -174.787
	Rotation 0 degrees
	Tooltip Line Weight 1
	Line Colour #000000
	Resources d
	Nedap site
	Alarm Events
	System Event
	Tampering Redap DB
	Nedap AC
ve Object	

Resources		đ
	Nedap site	\$

On the right, **select** the Nedap Site.

The Nedap integration devices will then be listed as resources underneath.

7.2.1 Add the Device in Map Editor

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

7.2.2 Adding Device Objects

Drag the Nedap integration device from the Site Resources list onto the map area.

Select one of the associated objects as illustrated below.

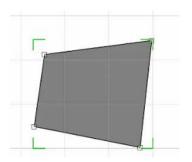


Note: To add multiple objects, repeatedly drag-and-drop the Nedap integration device onto the map area to bring up this option.



7.2.3 Add a Polygon

On the options bar on the left, click the Add polygon icon.



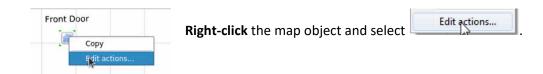
Draw a polygon on the map interface.

 Objects
 Image: Constraint of the second se

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

7.2.4 Adding and Editing Device Actions

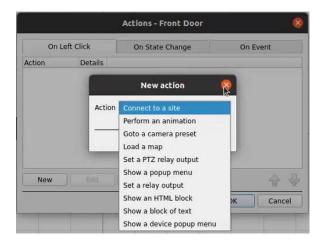
To add or edit actions to the device objects:



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

7.2.4.1 On Left-Click

		Actions - Front Doo	or 🧕
On L	eft Click	On State Change	On Event
Action	Details		
New	Edit		☆ 🕹
-			OK Cancel



7.2.4.2 On State Change

The following example shows how the user can set the polygon to turn green when the object is Open, and red when closed.

		Actions - Front Doc	or 😣
0	n Left Click	On State Change	On Event
Filter	Action	Details	
	k		
New	Edit	Delete	
			OK Cancel

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

The user can choose an **action** from the dropdown menu.

In the On State Change tab, select New.



Target State Closed

🧭 New actio	on		?	×
Target state: Action	Closed Closed Open Unknown			~
		OK	Can	cel

🤣 New actio	on	?	\times
Target state:	Closed		~
Action	Connect to a site		~
	Connect to a site		
	Perform an animation		
	Goto a camera preset		
	Load a map Set a PTZ relay output		
	Show a popup menu		
	Set a relay output		
Edit (Show an HTML block		
	Show a block of text		
	Show a device popup men	u	

_	Animation Edi	tor	8
Object to animate:	Front Door		
Sub handle to anim Animation Step Ti			
New *	Edit Delete		
		ОК	Cancel

	Animation Edi	tor	8
Object to animate:	polygon		•
Sub handle to anima	te: VisiblePoly		•
Animation Step Tim	e(ms) Details		
New *	dit Delete		4₽
Change		ОК	Cancel
Pause		UK	Cancel
Loop	success second second		
Zoom			
Move			
Rotate			
Show/Hide			
Set text			
Set icon			
Set AutoHide			

Select the target state as Closed.

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

Click OK.

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

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



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	Animat	ion Editor		8
Object to animate: poly	rgon			*
Sub handle to animate:	VisiblePoly			*
Animation Step	Time(ms) De	tails		
Change the colour tint	0	0x00ff00ff		
New - Edit	Delete			☆ ₽
			ОК	Cancel

Sele	ct Color				(
Basic colors		Ŧ			4
Pick Screen Color					
Custom colors		120 ‡			0
	Sat:	255 🤤	Green:	255	
	<u>V</u> al:	255 🤹	Blue:	0	÷
Add to Custom Colors	HTML:	#00ff00	6		
	(<i>4</i> ок	X	Cano	el

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

Select the colour which will indicate that the Target State is **Offline**. In this example, the user has chosen to keep the colour as green.

Click OK.

On returning to the **Animation Editor** window, click **OK**.



Target State Open

Action Open Unknow		
Open		
OTKNOW		
	01/	
	OK	Cancel
Action	onnect to a site	
	erform an animation	
	ioto a camera preset	
	oad a map	
Manu	et a PTZ relay output how a popup menu	4 4
	et a relay output	
	how an HTML block	Cancel
s	how a block of text	
S	how a device popup menu	
40	imation Editor	<u></u>
All		<u> </u>
Object to animate: polygon		•
Sub handle to animate: VisiblePoly	1	
Sub fiancie to animate. Visibler of		

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

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

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

Object to animate: poly	/gon	
Sub handle to animate:	VisiblePoly	
Animation Step	Time(ms) Details	
Change the colour tint	0 0xaa0000ff	
		•
New • Edit	Delete	<u></u> }

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

In this example, the user has chosen to change the colour to red.

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

ОК

Cancel

Once finished, save the map.

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

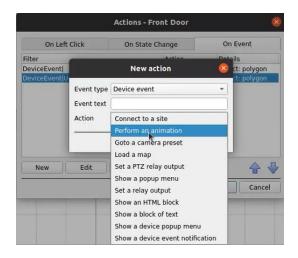
CATHEXIS

7.2.4.3 On Event

Actions - Nedap AC			?	×
On Left Click	On	State Change	On Event	
Filter	Action	Details		
Event Access point locked		Object: polygon Object: polygon		
New Edit	Delete			•
			OK Car	ncel

Event type	Device event	*
Event text		
Action	Connect to a site	÷

er info	Event Description	Links
	Access point unlocked	
	Access point locked	
	Access point unlocked	
	Access point normal	
	Access point locked	
	Access point unlocked	
	Access point locked	
	Access point unlocked	
	Access point locked	



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

Select Event type from the drop-down menu.

Add Event text. E.g. User Allowed

Note: The name given in the Event text field must be identical to the **Event Description** in the CathexisVision database table, as in the image alongside.

Descriptions are **case sensitive**. "Access Point Locked" should not be written as "Access point locked".

The user can choose the Event type (Any Event or Input Event) and select an action from the dropdown list.



7.3 Save Map

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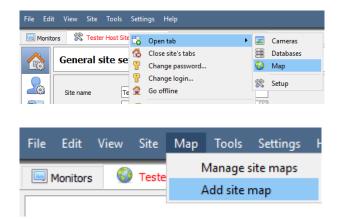
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In map editor click the Save icon.

Give the map a name. Click Save.

7.4 Load Map Onto CathexisVision

Upload the saved map 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.



In CathexisVision, go to Site / Open tab / Map.

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



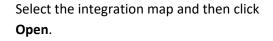
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In the **Add Map** window that opens, click on the ellipses icon to retrieve the **Map file**.

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Add Map

Map file /home/lwazi/Downloads/cosec_door.map



Give the map a **descriptive name**.

Click OK.

...

Cancel

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

Ok

Map Advanced

1

Map name



cathexisvideo.com

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8. Conclusion

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

For support, email <u>support@cat.co.za</u>.