



Lenel OnGuard Access Control Integration White Paper







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1. Introduction

This document indicates the features/abilities of the Lenel OnGuard Access Control system when integrated with CathexisVision. Functionally, this integration will include the triggering of standard CathexisVision system events, based on information received from the device.

For instructions on installation or configuration of the integration, please consult the *Lenel OnGuard Integration App-note*, available on the Cathexis website, and/or the *CathexisVision Setup Manual*.

1.1 Integration Purpose

This integration communicates with the Lenel OnGuard Access Control software through a Cathexis wrapper that runs on the same unit as the OnGuard software, and allows for local and remote monitoring and operation from within the CathexisVision interface. Device objects may be linked to cameras, allowing associated footage to be databased according to the configuration of CathexisVision events and alarms which trigger on information received from the software. Access, Security and Informational messages received from the device are databased. Operators with sufficient access rights are able to issue certain commands to the device, such as opening doors or setting reader modes, for example.

1.2 Requirements

1.2.1 General Requirements

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

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

Note: For information regarding the regular operation of a Lenel device, please consult the relevant documentation.

1.2.2 CathexisVision License Requirements

License No.	License Name	Description
CLEN-2000	Lenel Device License.	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 controller.









CLEN-1001	Single reader license.	These licenses apply to the readers, in an access control system. The CLEN-1001 will license a single reader, and may be added on a reader-by-reader basis.
CLEN-3000	Bundle License.	This license includes the CLEN-2000 access control device license, and also provides support for unlimited CLEN-1001 reader licenses.

Note:

- 1. Either purchase the bundle license, or both the device and reader license.
- 2. All readers must be licensed individually.

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	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.		

A NOTE ON CAMERA CHANNELS

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

USEFUL LINKS

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

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









2. Features and Abilities

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

2.1 General Device Features

2.1.1 Connection

- 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.

2.1.2 OnGuard Messages

 All device messages are databased as Access events, security events and information event messages.

2.1.3 CathexisVision Integration Objects

- 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

2.2 Device Objects

Device objects populate automatically once communication is established.

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.
Daniel Ohiost Duomontino	Following Panel object properties are indicated in
Panel Object Properties	CathexisVision:









		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.
		Following Panel object properties are indicated in CathexisVision:
		Name of reader
	Object Properties	ID of panel reader belongs to
		Usage of reader. E.g. Entrance reader
		Mode of reader. E.g. Card only
		License indication
		Open Door.
		Set Mode:
		o Locked
		○ Card only
	Command	Pin or Card
	Command	o Pin and Card
		Unlocked Faculty Code Only
		Faculty Code OnlyCypherlock
Reader		Cypherlock Automatic
neauei		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:
		o Door forced
		New transaction occurs
	Overlays	Request to exit message received
		Some examples of details included in the .
		overlays are:
		Photo of cardholder Access granted/denied
		Access granted/deniedDoor used
		Door left open
		Door left open is closed







		o Request to exit.
	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).
Wrapper	Object Properties	Following Wrapper object properties are indicated in CathexisVision: • 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.

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: Invalid Badge Reader Locked Reader Unlock Access Granted: No Entry Made Open Door Command Issued – Door Not Used Access Granted on Facility Code		
		Reader UnlockedNo Entry Made, etc.		









Sec	curity	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
Info	ormational	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.
		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:
CathexisVision Event Actions		 Control reader object → Open Door Control reader object → Set Mode: Locked Card only Pin or Card Pin and Card Unlocked Faculty Code Only Cypherlock

2.4 Metadatabase

A unique metadatabase is created on the CathexisVision server for this integration. It is fully searchable, with configurable filters based on device event information (as above), and time stamping. The filtered event/s, and the associated video, will then be available for review in a new window from which an archive can be created and exported.

Database Element Features/Abilities

	 All device events are databased as access, security, and informational
	event messages.
General	 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	The meta-database may be viewed by the following options: • Access • Security • Informational • All	
Sort Options	The metadatabase may be sorted by: • Device event time.	
Easy Search	The metadatabase may be searched specifically for: Reader ID Description Type Firstname Lastname Cardnumber Is Card Readable Reader Name SSNO (JDE ID)	
Filter	The metadatabase may be filtered according to: Time Reader ID Reader Name Description Type Firstname Lastname Cardnumber Is Card Readable SSNO (JDE ID)	
Francisk	Patabase entries may be exported in CSV and PDF format	



Export Database entries may be exported in CSV and PDF format.









3. Conclusion

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

For support, email support@cat.co.za.

USEFUL LINKS

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