



# Paxton Access Control Integration White Paper

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# 1. Introduction

This document indicates the features/abilities of the Paxton Access Control Integration with CathesisVision.

For a detailed guide on the installation and configuration of the Paxton Access Control device with CathesisVision please refer to the **Paxton Access Control App-note**, available on the Cathesis website.

## 1.1 Integration Purpose

Functionally, this integration will entail the triggering of standard CathesisVision Events, based on the triggers from the Paxton panel.

## 1.2 Requirements

### 1.2.1 General Requirements

- CathesisVision 2014.5 and later
- Integration retested and updated on CathesisVision 2019.3
- Win 7~ 64bit and later, Win Server 2008 R2 and later.
- Paxton Net2 Access Control Software. Software version 6.01.8319.4827 tested.
- CathesisVision Paxton Wrapper Control 5.3.2.0 or later.
- Minimum of 4 GB of RAM required.
- The Net2 software is compatible with Microsoft operating systems only. The CathesisVision software and Net2 software are required to be installed on the same NVR. This integration will not work on a Linux or Ubuntu system.

**Note:**

1. The Paxton device cannot be detected if the Controller or Communications channel has lost connection when using the Serial Port.
2. When using an ESP1204 (Cathesis Serial to Ethernet convertor), the Communication channel will only show it is disconnected if the network connection to the ESP1204 is down.
3. The Cathesis Paxton Wrapper can be obtained from the Cathesis website at: <http://integrations.cathesisvideo.com/supported-integrations/access-control/>. It must be installed on the same computer as the Net2 software.



## 1.2.2 CathesisVision License Requirements

License	Name	Description
<b>CACC-2000</b>	Access control 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.
<b>CACC-1001</b>	Access control single door license.	These licenses apply to the doors, or readers, in an access control system. The <b>CACC-1001</b> will license a single door/reader, and may be added on a door-by-door basis.
<b>CACC-1008</b>	Access control 8 door license.	These licenses apply to the doors, or readers, in an access control system. The <b>CACC-1008</b> will license 8 doors/readers.
<b>CACC-3000</b>	Access control device bundle license (unlimited doors).	This license includes the <b>CACC-2000</b> access control device license, and also provides support for unlimited <b>CACC-1001</b> reader licenses.

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

### A NOTE ON CAMERA CHANNELS

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

## 1.3 Integration Components

All CathesisVision integrations have two component levels: **Device** and **Object**.

- Device** The device is CathesisVision software’s interface, which handles all the interaction between CathesisVision and the integrated hardware. When an integration is added to the CathesisVision 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.



## 2. Features and Abilities

This section indicates the features/abilities of the Paxton Access Control Device Integration with CathesisVision software. Functionally, this integration will entail the triggering of standard CathesisVision Events, based on the triggers from the Paxton panel.

### 2.1 Device Objects

Objects are populated automatically as soon as communication between the Paxton Access Control software and CathesisVision is established.

Object Type		Feature
<b>General Object Features</b>		<ul style="list-style-type: none"> <li>• Populates once communication is established with the Paxton system.</li> <li>• Displays information about the connected Paxton system.</li> <li>• State changes can be used to trigger CathesisVision system events.</li> </ul>
<b>Door</b>	<b>States</b>	<ul style="list-style-type: none"> <li>• N/A. No State information for communication channel.</li> </ul>
	<b>Object Properties</b>	The following System object properties are indicated in CathesisVision: <ul style="list-style-type: none"> <li>• ID</li> <li>• Name</li> <li>• Cameras</li> <li>• Object Groups</li> <li>• License</li> </ul>
	<b>Command</b>	<ul style="list-style-type: none"> <li>• New</li> <li>• Disable</li> <li>• Delete</li> <li>• Properties</li> <li>• Configure Columns.</li> </ul>
<b>Communication Channel</b>	<b>General Object Features</b>	<ul style="list-style-type: none"> <li>• Relevant Communication objects populate when CathesisVision receives device event messages.</li> <li>• Displays information about the associated Communication Channel.</li> <li>• Supports camera overlays.</li> </ul>
	<b>States</b>	N/A. No state information for communication channel objects.



	<b>Object Properties</b>	<ul style="list-style-type: none"> <li>• ID</li> <li>• Name</li> <li>• Cameras</li> <li>• Object Groups</li> </ul>
	<b>Commands</b>	<ul style="list-style-type: none"> <li>• New</li> <li>• Disable</li> <li>• Delete</li> <li>• Properties</li> <li>• Configure Columns</li> </ul>

## 2.2 Device Events

The CathesisVision Paxton integration generates reflected in CathesisVision.

Event Element	Features/Abilities
<b>General</b>	<ul style="list-style-type: none"> <li>• Event messages generated by the device will generate device event messages in CathesisVision.</li> <li>• These device event messages can be used to trigger system events.</li> </ul>
<b>Device Event Types</b>	<ul style="list-style-type: none"> <li>• Access Events</li> </ul>
<b>CathesisVision Event Actions</b>	<ul style="list-style-type: none"> <li>• Events generated by the device are reflected in CathesisVision, and can be used to create CathesisVision system events.</li> <li>• The device and device objects cannot be controlled as part of the system events.</li> </ul>

## 2.3 Metadatabase

A unique metadatabase is created on the CathesisVision 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
<b>General</b>	<ul style="list-style-type: none"> <li>• All device events are databased.</li> <li>• Database entries include the footage from the first camera linked to device objects.</li> <li>• Multiple cameras may be linked to multiple objects.</li> <li>• Device event metadata is displayed where applicable.</li> </ul>



	<ul style="list-style-type: none"> <li>• Databased device events may be viewed in the embedded video player, which includes the usual CathesisVision video review tools.</li> </ul>
<b>View Options</b>	<ul style="list-style-type: none"> <li>• Access Events.</li> </ul>
<b>Sort Options</b>	<ul style="list-style-type: none"> <li>• Access Event Time, Access Event Index, Access Event Type, Access Event Subtype, ACU Address, and User.</li> </ul>
<b>Easy Search</b>	<ul style="list-style-type: none"> <li>• User.</li> </ul>
<b>Filter</b>	<ul style="list-style-type: none"> <li>• Timestamp</li> <li>• Event Type</li> <li>• Event Sub Type</li> <li>• ACU Address</li> <li>• Reader</li> <li>• Token</li> <li>• ACU</li> <li>• User</li> </ul>
<b>Export</b>	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](mailto:support@cat.co.za).

#### 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>

