



# Dormakaba Access Control White Paper

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# 1. Introduction

This document indicates the features/abilities of the Dormakaba access control solution 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 ***Dormakaba Access Control Integration App-note***, available on the Cathexis website, and/or the ***CathexisVision Setup Manual***.

## 1.1 Integration Purpose

Dormakaba is an integrated access solution for controlling and monitoring access on doors and locks and for managing entrance to and exit from the workplace. A defined group may be given access to certain buildings or areas. The systems allows for different products to be combined, or supplemented by mechanical, mechatronic locking systems, digital door components and personal interlock systems.

Events on the software can be used to trigger CathexisVision events, and data can be sent to the CathexisVision system.

## 1.2 Requirements

### 1.2.1 General Requirements

- CathexisVision 2023.1 or later
- Cathexis NVR 64-bit version
- Windows 10 Pro

**Note:** Up to two registration units can be connected directly to the Access Manager 9200, and further access readers via the RS-485 sub-bus.

For information regarding the regular operation of Dormakaba, please consult the relevant Dormakaba manufacturer's documentation.

### 1.2.2 License Requirements

License	Name	Description
CDKB – 3000	Dormakaba Access Control Bundle	This license includes the <b>Dormakaba</b> device license, and also provides support for unlimited door licenses.

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

## 1.3 Specifications

This integration was tested on:

<b>Hardware name</b>	Dormakaba Access Manager 9200
<b>Hardware model number</b>	9200
<b>Firmware as tested</b>	BAME 04.07.268 RA - KCP
<b>Third-party software name</b>	Kaba Exos 9300
<b>Third-party software version</b>	4.2.1304
<b>Third party software license/s required</b>	Yes

**Note:** In this integration, the Device objects are named Device, System, and Communication channel. The interface device should not be confused with the object named "Device." Objects named "Device" include panels and physical access points e.g. doors.

## 1.4 Integration Components

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

<b>Device</b>	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.
<b>Objects</b>	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 Dormakaba access control when integrated with CathesisVision.

### 2.1 General Device Features

CathesisVision receives event messages from Dormakaba which can be used to trigger a CathesisVision system event.

### 2.2 Device Objects

Object Type		Abilities
General		<ul style="list-style-type: none"> <li>• This integration has Device, System, and Communication channel objects.</li> <li>• Device objects can be commanded as an action of a CathesisVision system event.</li> <li>• Device objects support overlays.</li> <li>• Events on the software can be used to trigger CathesisVision system and map events.</li> <li>• Objects may be linked to cameras to associate device events with video footage.</li> </ul>
Device	Object Properties	<ul style="list-style-type: none"> <li>• Name</li> <li>• Data point type</li> <li>• Device ID</li> <li>• State</li> <li>• Mode</li> <li>• Address</li> <li>• Licensed</li> </ul>
	Commands	<ul style="list-style-type: none"> <li>• Block</li> <li>• Block time limited</li> <li>• Operation</li> <li>• Release once</li> <li>• Release permanently</li> <li>• Release time limited</li> </ul> <p><b>Note:</b> These commands do not apply to all object devices.</p>
	State: Communication hub, Access point, Door manager, Substation	<ul style="list-style-type: none"> <li>• Normal operation</li> <li>• Open</li> <li>• Closed</li> <li>• Connected</li> <li>• Not connected</li> <li>• Connection is being established</li> </ul>

		<ul style="list-style-type: none"> <li>• Unknown</li> <li>• Does not respond</li> <li>• Download is running</li> <li>• Starting</li> </ul>
	<b>Mode: Access point, or Panel</b>	<ul style="list-style-type: none"> <li>• Access profile check</li> <li>• Blocked</li> <li>• Unknown</li> <li>• Release once</li> <li>• Release permanently</li> <li>• Central decision</li> <li>• Local decision</li> </ul>
<b>System</b>	<b>Object Properties</b>	<ul style="list-style-type: none"> <li>• ID</li> <li>• Name</li> <li>• Software version</li> <li>• Connection status</li> </ul>
	<b>Connection status</b>	<ul style="list-style-type: none"> <li>• Connected</li> <li>• Connecting</li> <li>• Authenticating</li> </ul>
<b>Communication Channel</b>	<b>Object Properties</b>	<ul style="list-style-type: none"> <li>• ID</li> <li>• Name</li> <li>• Channel status</li> <li>• Details</li> <li>• Creation type</li> <li>• Creation time</li> <li>• Idle time</li> </ul>

## 2.3 Device Events

The CathesisVision Dormakaba integration generates Device events (logs), which are triggered on the device and reflected in CathesisVision.

Event Element	Features/Abilities
<b>General</b>	<ul style="list-style-type: none"> <li>• Events triggered on the device are sent to CathesisVision.</li> <li>• Event types are: Device.</li> </ul>
<b>Device Event Types: Logs</b>	<ul style="list-style-type: none"> <li>• ID</li> <li>• Time</li> <li>• Log type (Alarm or Access)</li> <li>• Text</li> <li>• Person ID</li> <li>• Personal number</li> <li>• Name</li> <li>• Personnel type</li> <li>• Card number</li> <li>• Card role</li> <li>• Device address</li> </ul>

	<ul style="list-style-type: none"> <li>• Device name</li> <li>• Data point type</li> <li>• Substate F state</li> <li>• Substate on/off</li> </ul>
<b>CathesisVision Event Actions</b>	<p>An <b>access point</b> may be controlled via a CathesisVision event action to perform one of the following commands:</p> <ul style="list-style-type: none"> <li>• Block</li> <li>• Block time limited</li> <li>• Normal operation</li> <li>• Release once</li> <li>• Release permanently</li> <li>• Release time limited</li> </ul> <p>Events generated by the device are reflected in CathesisVision, and can be used to create CathesisVision system events.</p>

## 2.4 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 cameras linked to device objects.</li> <li>• Multiple cameras may be linked to multiple objects.</li> <li>• Device event metadata is displayed where applicable.</li> <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>• All</li> </ul>
<b>Sort Options</b>	<ul style="list-style-type: none"> <li>• Time</li> </ul>
<b>Easy Search</b>	<ul style="list-style-type: none"> <li>• Time</li> <li>• Log type</li> <li>• Device address</li> <li>• Device name</li> <li>• Text</li> <li>• Person ID</li> <li>• Personal number</li> <li>• Name</li> <li>• Personnel type</li> <li>• Card number</li> <li>• Card role</li> <li>• Data point type</li> </ul>

<b>Filter</b>	<ul style="list-style-type: none"> <li>• Sub-stat F Stat</li> <li>• Sub-stat on/off</li> <li>• Log ID internal</li> <li>• Time</li> <li>• Log type</li> <li>• Device address</li> <li>• Device name</li> <li>• Text</li> <li>• Person ID</li> <li>• Personal number</li> <li>• Name</li> <li>• Personnel type</li> <li>• Card number</li> <li>• Card role</li> <li>• Data point type</li> <li>• Sub-stat F Stat</li> <li>• Sub-stat on/off</li> <li>• Log ID internal.</li> </ul>
<b>Export</b>	Database entries may be exported in CSV and PDF format.

## 2.5 Maps

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

Map Element	Features/Abilities
<b>General</b>	Device objects can be embedded in a site map, which offers multiple action options when messages are received from the device, the device triggers an event, and/or the user manually initiates a map action.
<b>Map Action Triggers</b>	<ul style="list-style-type: none"> <li>• All device objects may be set to trigger a map action if the user left-clicks on map.</li> <li>• Some device objects may be set to trigger a map action if a state change message is received from the device.</li> <li>• Door objects may be set to perform a map action if <i>any</i> event occurs on the device.</li> <li>• Device objects, which can be configured to trigger CathesisVision events, may also be set to perform a map action when specific CathesisVision events are triggered.</li> </ul>
<b>Map Actions Options</b>	When triggered (see above), objects may perform the following map actions (where applicable): <ul style="list-style-type: none"> <li>• Connect to a site.</li> <li>• Perform an animation.</li> <li>• Go to a camera preset.</li> <li>• Load a map.</li> <li>• Set a PTZ relay output.</li> <li>• Show a popup menu.</li> </ul>



- Set a relay output.
- Show an HTML block.
- Show a block of text.
- Show a device popup menu.

## 3. Conclusion

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

For support, email [support@cat.co.za](mailto:support@cat.co.za).

### USEFUL LINKS

To view **tutorial videos** on CathesisVision setup, visit <https://cathesisvideo.com/resources/videos>

Find answers to Cathesis **Frequently Asked Questions**: <https://cathesis.crisp.help/en/?1557129162258>