GFE Gekko Fire Panel Integration White Paper

Contents

1. Introduction

This document indicates the features/abilities of the Gekko Fire Panel integration with the CathexisVision software.

1.1 Integration Purpose

The CathexisVision integration of the Gekko Fire Panel allows for local and remote monitoring of the panel from within the CathexisVision interface. All 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 device. All messages from the device (even those not configured to trigger a CathexisVision alarm or event) are also databased.

1.2 Requirements

1.2.1 General Requirements

- CathexisVision 2019 Service Pack 3, or later.

Note: Cathexis makes a best attempt to ensure that the equipment and license requirements of third-party equipment are adequately specified. However, it is possible that the requirements of third-party equipment may change over time, including the interface hardware/firmware and licensing. The user is advised to clarify the latest requirements directly with the third-party equipment supplier.

1.2.2 Gekko Panel Requirements

The following requirements are necessary for enabling this integration on the Gekko side.

- The Gekko Panel connects to CathexisVision via a RS232 serial cable.
- The Gekko Panel needs to be set to Odyssey mode.

Note:

1. For information regarding the regular operation of a Gekko device, please consult the relevant Gekko 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.

1.2.3 CathexisVision License Requirements

The Cathexis Gekko Fire Panel integration license requirements are as follows:

License	Name	Description
CGKO-2000	GFE Gekko Fire Panel	This is the only license required to integrate with fire panel system. It is applied to the server to which the fire panel system is connected.

Note: In this integration, a single license will cover multiple linked devices.

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-head 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.

2. Features and Abilities

2.1 General Device Features

- CathexisVision cannot request information from the Gekko device, and can only receive information once device events are generated.
- CathexisVision communicates with the Gekko device via a RS232 serial cable.
- Connection can be made via either a ESP1024/3102 (Cathexis IP to Serial converter) or a RS232 Communications Port.

Note: There are no **Object Context Menu Commands** to control the objects from the CathexisVision GUI.

2.2 Device Objects

Object Type		Feature
General Object Features		• Each object needs to be added manually. • Each panel is setup individually. • The status must read online, which indicates that the connection is up and running. • To complete the process, right-click on panel to add zones.
Panel	**States**	• Online. • Offline.
	Object Properties	• Name. • State. • Sound alarms on. • Disabled. • Test. • Fire. • Pre-alarm. • Fault. • Normal.
	Command	• Configure Columns.
System	**General Object Features**	• Each object needs to be added manually. • Each panel is setup individually. • The status must read online, which indicates that the connection is up and running. • To complete the process, right-click on panel to add zones.
	States	• N/A. No States available for System Object.
	Object Properties	• Name.
	Commands	• Configure Columns.

Zone	**General Object Features**	• Each object needs to be added manually. • Each panel is setup individually. • The status must read online, which indicates that the connection is up and running. • To complete the process, right-click on panel to add zones.
	States	• Online. • Offline.
	Object Properties	• Name. • Panel Number. • State.
	Commands	• Configure Columns
Communication Channel	**General Object Features**	• Each object needs to be added manually. • Each panel is setup individually. • The status must read online, which indicates that the connection is up and running. • To complete the process, right-click on panel to add zones.
	States	• Online. • Offline.
	Object Properties	• Name. • Channel Status. • Details. • Creation type. • Creation time. • Idle time (min).
	Commands	• Configure Columns.

2.3 Device Events

The CathexisVision Gekko integration generates Fire Alarm device events.

Event Element	Features/Abilities
General	• Event messages generated by the device will generate device event messages in CathexisVision. • These device event messages can be used to trigger system events.
Device Event Types	• Panel. • Panel Message. • Zone.
CathexisVision Event Actions	Events generated by the device are reflected in CathexisVision, and can be used to create CathexisVision system events.

	• The device and device objects can be controlled as part of the system events.

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
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	• Zone. • Panel. • Panel Message.
Sort Options	• Device event time.
Easy Search	• Name. • Panel. • State.
Filter	• Time. • Type. • Name. • Panel. • Sound Alarms On. • Disabled. • Test. • Fire. • Pre-Alarm. • Fault. • Normal. • Panel Message.
Export	Database entries may be exported in CSV and PDF format.

3. Conclusion

Please remember that 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, contact 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*