Ipsotek 2 Analytics Integration White Paper

Contents

1 Introduction

This document indicates the features/abilities of the Ipsotek 2 Analytics suite when integrated with CathexisVision.[1]

1.1 Integration Purpose

The CathexisVision integration of the Ipsotek 2 Analytics suite allows for local and remote monitoring from within the CathexisVision interface. Alarms will be generated in the Ipsotek suite and then exported to CathexisVision, including facial recognition detection information and events from the FaceVACS-VideoScan software. 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.

Note: The Ipsotek 2 suite cannot be controlled, however standard CathexisVision events may be generated from information received.

1.2 Requirements

1.2.1 CathexisVision Requirements

CathexisVision 2018 Service Pack 2, or later.

1.2.2 CathexisVision License Requirements

License	License Name	Description
CIPT -2000	Ipsotek v10 Device license.	This licenses the Ipsotek v10 device in CathexisVision.
CIPT-1001	Ipsotek v10 camera license.	This licenses a single camera for use with the Ipsotek v10 integration in CathexisVision.

1.2.3 Ipsotek Requirements[2]

- Internet Explorer. (The Ipsotek interface will only run on Internet Explorer.)
- VIConfigure software. Version 10.1.115.1 (This comes with the Ipsotek device, or it can be requested directly from the manufacturer.)
- FACEVACS-Video Scan software. Ipsotek software uses the FACEVACS-VideoScan engine to perform facial recognition.

Note:

1. For information regarding the regular operation of a Ipsotek device, please consult the relevant 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] While Cathexis has made every effort to ensure the accuracy of this document, there is no guarantee of accuracy, neither explicit, nor implied. Specifications are subject to change without notice.

[2] Cathexis makes a best attempt to ensure that the equipment and license requirements of the 3rd party equipment are adequately specified. However, it is possible that the requirements of the 3rd party equipment may change over time, including the interface hardware/firmware and licensing. The reader is urged to clarify the latest requirements directly with the 3rd party equipment supplier.

2 Configuration

2.1 Configure Ipsotek Software

The Ipsotek device (software) needs to be setup to communicate with the CathexisVision software. This will involve the following:

- Adding cameras and configuring analytics rules in the VIConfigure software.
- Configuring alarms for export.
- Rebooting server.

Please consult the CathexisVision **Ipsotek 2 Analytics Integration Guide** for instruction.

2.2 FaceVACS-VideoScan Facial Recognition

If FaceVACS-VideoScan software is setup, CathexisVision will be able to receive facial recognition detection information and events.

No specific setup is required for communication between FaceVACS-VideoScan and CathexisVision.

3 Features and Abilities

This section indicates the features/abilities of the Ipsotek V2 device when integrated with CathexisVision.

3.1 General Device Features

- CathexisVision communicates with the Ipsotek software via TCP.
- Device message types are Alarm and Camera status events.
- Camera objects support overlays which display zone state, partition state and the zone name.
- Device object events can be used to trigger CathexisVision system events.
- Facial recognition detection information and events received by CathexisVision once FaceVACS-VideoScan software is running (no specific setup needed for communication).

3.2 Device Objects

- This integration has Camera, Device and Communication Channel.
- Device objects are automatically created as soon as communication between the CathexisVision unit and device is established.
- Camera objects are created once CathexisVision receives information from the relevant cameras (configured in Ipsotek software).
- Camera objects support overlays.
- Objects may be linked to cameras to associate device events with video footage.

Object Type		Abilities
Camera	**Object Properties**	Following object properties are indicated in CathexisVision: • Name, • Camera number, • Device IP, • VI Host IP, • Description, • Preset, • Enabled, • In alarm, • State, • Licensed.
	States	• Alarm, • Disabled, • Enabled.
	Overlays	• Ipsotek overlays pulled through. • Overlays display Ipsotek analytics and/or snapshot of Ipsotek camera event-related information. • Overlay location, text size, text colour and background colour are configurable.
Device	**Object Properties**	Following object properties are indicated in CathexisVision: • Name, • IP, • State.
	States	• Alarm, • Offline, • Online, • Possibly Rebooting.

3.3 Device Events

Event Element	Features/Abilities
General	• Events triggered on the device are sent to CathexisVision. • Device event types are Alarm and Camera Status.
CathexisVision System Events	Device events 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. Area, PGM and Zone objects may be controlled as a result of a CathexisVision system event: • Area object → Arm, Disarm, Instant arm, Stay arm. • PGM object → Off, On. • Zone object → Bypasss, Unbypass.

3.4 Meta Database

A unique meta-database 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 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: • Alarm, • Camera Status.
Sort Options	The meta-database may be sorted by: • Device event time.
Easy Search	The meta-database may be searched specifically for: • Camera, • Name, • Priority.
Filter	The meta-database may be filtered according to: Time, Camera, Name, Priority.
Export	Database entries may be exported in CSV and PDF format.

3.5 Maps

The CathexisVision GUI provides for configurable site maps that feature multi-layered, hierarchical, interactive interfaces providing representation and control of a site and its resources. The table below highlights some features.

Map Element	Features/Abilities
General	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.
Map Action Triggers	• All device objects may be set to trigger a map action if the user left-clicks on map. • Some device objects may be set to trigger a map action if a state change message is received from the device. • All device objects may be set to perform a map action if *any* event occurs on the device. • Device objects which can be configured to trigger CathexisVision events, may also be set to perform a map action when specific CathexisVision events are triggered.
Map Actions Options	When triggered (see above), objects may perform the following map actions (where applicable): • Connect to a site. • Perform an animation. • Go to a camera preset. • Load a map. • Set a PTZ relay output. • Show a popup menu. • Set a relay output. • Show an HTML block. • Show a block of text. • Show a device popup menu. • Show a device event notification.

4 Conclusion

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

For support please contact support@cat.co.za