ProDev Tech POS

Integration White Paper

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1. Introduction

This document indicates the features/abilities of the ProDev Tech Point-of-sale 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 ***ProDev Tech POS Integration App-note***, available on the Cathexis website, and/or the ***CathexisVision Setup Manual***.

1.1 Requirements

1.1.1 General Requirements

- Windows 7, 64-bit and later, Windows Server 2008 R2 and later.
- Ubuntu 12 and Ubuntu 16.
- Linux supported.
- CathexisVision 2019.2 and later.

Note:

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

1.2.2 CathexisVision License Requirements

License	Name	Description
CPDT-2000	ProDevTech POS Device	This license is the "base" license to integrate with the point-of-sale system. It is applied to the server to which the point-of-sale device is connected. This licence will allow for the connection of a single integration device.
CPDT-1001	ProDevTech POS Terminal	These licenses apply to the terminal in a point-of-sale system. The **CPDT-1001** will license a single terminal, and may be added on a terminal-by-terminal basis.
CPDT-3000	ProDevTech POS Bundle	This license includes one **CPDT-2000** point-of-sale device license, and also provides support for unlimited CPDT-1001 terminal licenses.

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

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.

2. Features and Abilities

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

2.1 General Device Features

- The Cathexis ProDev device can be used to integrate third-party ProDev systems that comply with the CathexisVision Point of Sale Integration API Guidelines manual. This separate protocol document can be requested from support@cat.co.za.
- A ProDev simulator is included with the ProDev device to assist third-party ProDev developers with API implementation.
- The Cathexis Point of Sale (ProDev) driver sends and receives UTF-8 encoded XML messages over UDP.
- CathexisVision receives event messages from the ProDev device.
- System and Terminal device event messages can be used to trigger a CathexisVision system event.
- Terminal objects support camera overlays.

2.2 Device Objects

Objects are populated automatically as soon as communication between the ProDev system and CathexisVision is established.

Object Type		Features/Abilities
General		• This integration has Terminal and Communication channel objects. • Objects may be linked to cameras to associate device events with video footage.
Terminal	**General Object Features**	• Relevant Terminal objects populate when CathexisVision receives device event messages. • Displays information about the associated Terminal. • Terminal events on the device can be used to trigger CathexisVision system events. • Supports camera overlays.
	Object Properties	• ID and Name of Terminal. • Cashier. • License (yes/no). • IP Address.
	General Object Features	• Represents the UDP channel used by the integration device.

Communication Channel		• Channel will not go down when communication with ProDev system is lost.
	Object Properties	• ID. • Name. • Cameras. • Object Groups. • Enabled/ Not Enabled.

2.3 Device Events

Event Element		**Features/Abilities**
General		• Events triggered on the device are sent to CathexisVision. • The following device event messages are received from the ProDev device and displayed in the CathexisVision device events tab and integration metadatabase:
Device Event Types	**End Transaction**	• Time. • Terminal ID. • Document.
	Start Transaction	• Time. • Terminal ID. • Cashier. • Document.
	Line Item	• Time. • Terminal ID. • Cashier. • Transaction Type. • Action. • Document. • Description. • Quantity. • Weight. • Price. • Reason. • Super. • Red-flag. • Ex-scan. • Ex-wgt. • Ex-qty. • Barcode.

	• Vendor-name. • Vendor-number.
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 cannot 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	• Transactions. • Line.
Sort Options	• Time. • Terminal. • Cashier.
Easy Search	• Terminal.
Filter	• Start Time. • End Time. • Cashier. • Document Number. • Terminal.
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

*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*