





SPAR dStore POS Integration White Paper



EFFECTIVE INNOVATION





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1. Introduction

This document indicates the features/abilities of SPAR dStore POS solution when integrated with CathexisVision. Functionally, this integration includes the triggering of standard CathexisVision system events, based on information received from the device.

For instructions on installation or configuration of the integration, please see the *CathexisVision SPAR dStore POS Integration App-note*, available on the Cathexis website, and/or the *CathexisVision Setup Manual*.

1.1 Integration Purpose

The Sigma dStore POS system, combined with the **dStore MonitorGateway service**, provides till data to CathexisVision. The tills send POS transaction data to the dStore MonitorGateway service, which packages and sends the POS data to the **CathexisVision SPAR dStore POS** integration.

The CathexisVision SPAR dStore POS integration is capable of logging all received till transactions in a custom metadatabase. From the custom metadatabase, till transactions can be used to search for specific POS transactions. The metadatabase also displays video footage associated with POS transactions. The CathexisVision SPAR dStore integration can generate events on received POS transactions.

1.2 Requirements

1.2.1 General Requirements

- Windows 10 and later, Windows Server 2012 and later
- CathexisVision 2023.1 and later
- SPAR Sigma dStore setup:
 - o Sigma version 54.021
 - o dStore version 16.4

Note: For information regarding the regular operation of a SPAR dStore device, please consult the manufacturer's documentation.

1.2.2 CathexisVision License Requirements

License	Name	Description
CPDT-1001	SPAR dStore POS Till	These licenses apply to the till in a point-of-sale system. The CPDT-1001 will license a single till and may be added on a till-by-till basis.
CPDT-2000	SPAR dStore 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-3000	SPAR dStore POS bundle	This license includes one CPDT-2000 point-of-sale device license, and also provides support for unlimited CPDT-1001 till 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 are the individual pieces of hardware that comprise the integration. There may bemultiple "object types" under the objects group. For example, the communication channel and till of POS 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 SPAR dStore software when integrated with CathexisVision.

2.1 General Device Features

- CathexisVision receives till slip data from a monitoring gateway which is managed by SPAR. Events are generated from this data.
- POS State (online/offline) and POS data such as voids, cash transactions, specific amounts, etc, can be used to trigger Cathexis Events.
- Till objects support camera overlays.

Object Type		Features/Abilities
General		 This integration has Till and Communication channel objects. Objects may be linked to cameras to associate device events with video footage.
Till	General Object Features Object Properties	 Relevant Till objects will populate when CathexisVision receives data from the tills. Displays information about the associated Till. Till events on the device can be used to trigger CathexisVision system events. Supports camera overlays. Name of Till/Till ID Cashier ID Cashier Name Transaction state
Communication Channel	General Object Features	 License (yes/no) Represents the UDP channel used by the integration device. Channel will not go down when communication with SPAR dStore system is lost. If a system event triggered on a connection state is required, use system object.
	Object Properties	 Till ID Name of Till Cameras Object Groups

2.2 Device Objects



2.3 Device Events

Event Element		Features/Abilities
General		 Till data is sent to CathexisVision, which then generates events based on this data. The following device event messages are received from the Till data and displayed in the CathexisVision device events tab and integration metadatabase:
Device Event Types	Change	 Time Till ID Type Value
	End Transaction	 Time Till ID Slip Type Cashier number Cashier name Date time Account name Account number
	Info	 Time Type Till ID Description Cashier number Cashier name
	Item	 Time Till ID Item code Description Quantity Value Total value
	Log	 Time Till ID Log no Slip number Cashier number Cashier name Type
	Rounding total	TimeTill ID



	Start Transaction	 Time Till ID Cashier Document
	Tender	 Time Till ID Type Tender Value
	Total	 Time Till ID Number of items Value
CathexisVision Event Actions		 Events generated by the Till data 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 events generated from the till slip data received (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	TransactionItem
Sort Options	 Time Till Cashier
Easy Search	 Start time End time Type Till ID Slip number Cashier number Cashier name Account number



	Account name
	Tender type
	Tender value
	Tender change
	Total
	End type
	Number of items
	Start Time
	End Time.
Filter	Cashier.
	Document Number.
	• Till.
Export	Database entries may be exported in CSV and PDF format.

2.5 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 till data are received from the device. The data is used to create and trigger an event, and/or the user manually initiates a map action.	
Map Action Triggers	 Till objects may be set to trigger a map action if a state change message is received from 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. 	



3. Conclusion

This white paper deals with the SPAR dStore POS integration specifically. For further information about the CathexisVision software, consult the *CathexisVision Setup Manual* (<u>http://cathexisvideo.com/</u>).

For support, email support@cathexisvideo.com.

USEFUL LINKS

To view tutorial videos on CathexisVision setup, visit <u>https://cathexisvideo.com/resources/videos</u>

Find answers to Cathexis Frequently Asked Questions: <u>https://cathexis.crisp.help/en/?1557129162258</u>