



# Woolworths V2 Integration White Paper



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# 1. Introduction

This document details the features/abilities of the Woolworths POS device when integrated with the CathesisVision software. Functionally, this integration will include the triggering of standard CathesisVision system events, based on information received from the device.

For instructions on installation or configuration of the integration, please consult the **Woolworths POS Integration App-note**, available on the Cathesis website, and/or the **CathesisVision Setup Manual**.

## 1.1 Integration Purpose

The Woolworths Point of Sale (POS) driver sends and receives UTF-8 encoded XML messages over UDP and can be used to integrate to third-party systems.

## 1.2 Requirements

### 1.2.1 General Requirements

- Windows 7 - 64bit and later, Windows Server 2008 R2 and later.
- Ubuntu 12 and Ubuntu 16.
- CathesisVision 2020.1 and later.

**Note:**

- For information regarding the regular operation of a POS device, please consult the relevant POS manufacturer.
- The connection is via UDP, and the port number on the POS system needs to match the number entered in CathesisVision during setup. Check this UDP Port is open and not blocked by the Firewall.

### 1.2.2 CathesisVision License Requirements

License	Name	Description
CWWP-1001	Woolworths POS Till license	These licenses apply to the tills in a point-of-sale system. The CWWP-1001 will license a single till, and may be added on a till-by-till basis.
CWWP -2000	Woolworths 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.



CWWP -3000	Woolworths POS bundle	This license includes one CWWP -2000 point-of-sale device license, and also provides support for unlimited CWWP-1001 till licenses.
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**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 Woolworths POS integration features.

### 2.1 General Device Features

- The Woolworths Point of Sale (POS) driver sends and receives UTF-8 encoded XML messages over UDP.
- CathesisVision receives event messages from the POS device.
- System and Till device event messages can be used to trigger a CathesisVision system event.
- Till objects support camera overlays.

### 2.2 Device Objects

Object Type		Feature
General Object Features		<ul style="list-style-type: none"> <li>• Relevant Till objects populate when CathesisVision receives device event messages.</li> <li>• Displays information about the associated Till.</li> <li>• Till events on the device can be used to trigger CathesisVision system and map events.</li> <li>• Supports camera overlays.</li> </ul>
Till	States	N/A. No state information for Till objects.
	Object Properties	<ul style="list-style-type: none"> <li>• ID and Name of Till.</li> <li>• Transaction ID.</li> <li>• Operator code.</li> <li>• Operator name.</li> <li>• License (yes/no).</li> </ul>
	Commands	N/A. Till cannot be commanded.
Communication Channel	General Object Features	<ul style="list-style-type: none"> <li>• Represents the UDP channel used by the integration device.</li> <li>• Channel will not go down when communication with the POS system is lost.</li> <li>• If a system event triggered on the connection state is required, use the system object.</li> </ul>
	States	N/A. No state information for communication channel.
	Object Properties	<ul style="list-style-type: none"> <li>• ID and Name of communication channel,</li> <li>• Channel status (will not change if communication lost).</li> </ul>



		<ul style="list-style-type: none"> <li>• Details.</li> <li>• Creation type.</li> <li>• Creation time.</li> <li>• Idle time (min).</li> </ul>
	<b>Commands</b>	N/A. Communication channel cannot be commanded.

## 2.3 Device Events

Event Element	Features/Abilities
<b>General</b>	<ul style="list-style-type: none"> <li>• Event messages generated by the device will generate device event messages in CathesisVision.</li> <li>• These device event messages can be used to trigger system events.</li> </ul>
<b>Device Event Types</b>	<p>The following device event messages are received from the POS device and displayed in the CathesisVision device events tab and integration metadatabase:</p> <ul style="list-style-type: none"> <li>• All events.</li> <li>• End transaction.</li> <li>• Start transaction.</li> <li>• Tender.</li> <li>• Item.</li> </ul>
<b>CathesisVision Event Actions</b>	<p>Events generated by the device are reflected in CathesisVision, and can be used to create CathesisVision system events. The device and device objects cannot be controlled as part of the 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 sent to the integration metadatabase.</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> </ul>



	<ul style="list-style-type: none"> <li>• Databased device events may be viewed in the embedded video player, which includes the standard CathesisVision video review tools.</li> </ul>
<b>View Options</b>	<ul style="list-style-type: none"> <li>• Transactions.</li> <li>• Items.</li> </ul>
<b>Sort Options</b>	<ul style="list-style-type: none"> <li>• Time.</li> </ul> <p><b>Note:</b> The available sort options depend on the selected view.</p>
<b>Easy Search</b>	<ul style="list-style-type: none"> <li>• Transaction.</li> <li>• Till.</li> <li>• Cashier ID.</li> <li>• Operator Code.</li> <li>• Operator Name.</li> </ul> <p><b>Note:</b> The available sort options depend on the selected view.</p>
<b>Filter</b>	<ul style="list-style-type: none"> <li>• <b>Transaction</b> <ul style="list-style-type: none"> <li>○ Time.</li> <li>○ End Time.</li> <li>○ Transaction.</li> <li>○ Till.</li> <li>○ Operator Code.</li> <li>○ Operator Name.</li> <li>○ Amount (Transaction).</li> </ul> </li> <li>• <b>Line Item</b> <ul style="list-style-type: none"> <li>○ Sequence number.</li> <li>○ Event type.</li> <li>○ Description.</li> <li>○ Amount (Line item).</li> <li>○ Department name.</li> <li>○ Department code.</li> <li>○ Quantity.</li> <li>○ PLU.</li> <li>○ SKU.</li> <li>○ Unit price.</li> <li>○ Weight.</li> <li>○ Reason.</li> <li>○ Authoriser code.</li> <li>○ Authorise name.</li> </ul> </li> </ul> <p><b>Note:</b> The available sort options depend on the selected view.</p>
<b>Export</b>	<p>Database entries may be exported in CSV and PDF format.</p>

## 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. The table below highlights some features.



Map Element	Features/Abilities
<p><b>General</b></p>	<ul style="list-style-type: none"> <li>• Device objects can be embedded in a site map, which offers multiple action options when:               <ul style="list-style-type: none"> <li>○ Messages are received from the device,</li> <li>○ The device triggers an event,</li> <li>○ The user manually initiates a map action.</li> </ul> </li> <li>• System and Till objects support map functionality.</li> </ul>
<p><b>Map Action Triggers</b></p>	<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>• System object may be set to trigger a map action if a state change message is received from the device.</li> <li>• Till object may be set to trigger a map action if a device event message generated by the device is received.</li> <li>• All device objects may be set to perform a map action if <b>any</b> event occurs on the device.</li> <li>• 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.</li> </ul>
<p><b>Map Actions Options</b></p>	<p>When triggered (see above), objects may perform the following map actions (where applicable):</p> <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> <li>• Set a relay output.</li> <li>• Show an HTML block.</li> <li>• Show a block of text.</li> <li>• Show a device popup menu.</li> <li>• Show a device event notification.</li> </ul>





### 3. Conclusion

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

For support, contact [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>

