

Woolworths Point-of-Sale Version 2 Integration App-note



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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.



1. Introduction

This document will detail the integration of the Woolworths V2 Point of Sale (POS) system with the CathexisVision software. CathexisVision communicates with the Woolworths V2 Point of Sale (POS) software to trigger CathexisVision events.

The Woolworths V2 Point of Sale (POS) driver sends and receives UTF-8 encoded XML messages over UDP and can be used to integrate third-party POS systems. This document will detail the configuration of both the Woolworths V2 POS device and the POS simulator.

1.1 Requirements

1.1.1 General Requirements

- Windows 7 64bit and later, Windows Server 2008 R2 and later.
- Ubuntu 12 and Ubuntu 16.
- CathexisVision 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 CathexisVision during setup. Check this UDP Port is open and not blocked by the Firewall.

1.1.2 CathexisVision License

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.

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

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1.2 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.

This section indicates the Woolworths POS integration features.

1.3 Features and Abilities

This section indicates the Woolworths POS integration features.

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

1.3.1 Device Objects

Object Type	Feature	
	 Relevant Till objects populate when CathexisVision receives device event messages. 	
General Object Features	 Displays information about the associated Till. 	
	 Till events on the device can be used to trigger CathexisVision system and map events. 	

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		Supports camera overlays.
	States	N/A. No state information for Till objects.
Till	Object Properties	 ID and Name of Till. Transaction ID. Operator code. Operator name. License (yes/no).
	Commands	N/A. Till cannot be commanded.
	General Object Features	 Represents the UDP channel used by the integration device. Channel will not go down when communication with the POS system is lost. If a system event triggered on the connection state is required, use the system object.
Communication Channel	States	N/A. No state information for communication channel.
Communication Channel	Object Properties	 ID and Name of communication channel, Channel status (will not change if communication lost). Details. Creation type. Creation time. Idle time (min).
	Commands	N/A. Communication channel cannot be commanded.

1.3.2 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	The following device event messages are received from the POS device and displayed in the CathexisVision device events tab and integration metadatabase: • All events. • End transaction. • Start transaction. • Tender. • Item.	



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.

1.3.3 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 sent to the integration metadatabase. 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 standard CathexisVision video review tools. 		
View Options	The metadatabase may be viewed by using the following options: • Transactions. • Items.		
Sort Options	The metadatabase may be sorted by: • Time. Note: The available sort options depend on the selected view.		
Easy Search	The metadatabase may be searched for: Transaction. Till. Cashier ID. Operator Code. Operator Name. Note: The available sort options depend on the selected view.		
Filter	The metadatabase may be filtered according to: • Transaction ○ Time. ○ End Time. ○ Transaction#. ○ Till. ○ Operator Code. ○ Operator Name. ○ Amount (Transaction). • Line Item ○ Sequence number.		



	o Event type.
	o Description.
	o Amount (Line item).
	 Department name.
	o Department code.
	o Quantity.
	o PLU.
	o SKU.
	o Unit price.
	o Weight.
	o Reason.
	 Authoriser code.
	 Authorise name.
	Note: The available sort options depend on the selected view.
Export	Database entries may be exported in CSV and PDF format.

1.3.4 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		
	 Device objects can be embedded in a site map, which offers multiple action options when: 		
General	 Messages are received from the device, 		
General	 The device triggers an event, 		
	 The user manually initiates a map action. 		
	System and Till objects support map functionality.		
	 All device objects may be set to trigger a map action if the user left-clicks on map. 		
	 System object may be set to trigger a map action if a state change message is received from the device. 		
Map Action Triggers	 Till object may be set to trigger a map action if a device event message generated by the device is received. 		
8800	 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	When triggered (see above), objects may perform the following map actions (where applicable):		
Options	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.

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



2. Device Addition and Configuration

This section will detail the procedure for adding the Woolworths V2 POS device to CathexisVision.

2.1 Woolworths V2 POS Setup

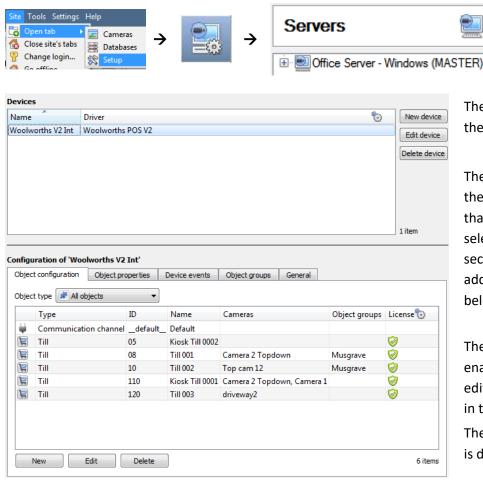
There is no specific setup on the POS system, but ensure that the UDP port numbers are the same for the POS system as well as CathexisVision.

Note: Ensure that the UDP port is not blocked by the firewall.

2.2 Add the Device in Cathexis Vision

Integrations are added on a server-by-server basis. They are managed in the Integration Devices panel, under the **Setup Tab** of the servers to which they are added. To get to the Integration Panel follow this path:

2.2.1 Navigate to the Integrations Panel



There are two sections in the Integration Panel:

Integration devices

The **Devices** list will specify the integration devices that are attached to the selected server. In this section, new devices are added. This is dealt with below.

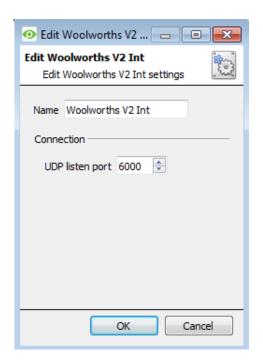
The **Configuration** section enables reviewing and editing the device selected in the **Devices** section.

The configuration section is dealt with in section 3.



2.2.1.1 Device Addition

- 1. Once in the Integration Panel, click on New device, in the Devices section. This will open the addition dialogue.
- 2. Select Woolworths V2 POS driver from the list.



- 3. Give the device a descriptive name.
- 4. Enter the UDP listen port number. This must match the UDP port number for both CathexisVision and the POS system.
- 5. Click **OK** when done.

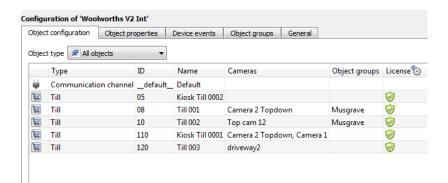


3. Integration Configuration Section (Tabs)

The configuration section is divided up into a number of tabs. These tabs are: Object configuration, Object properties, Device events, Groups, and General.

The System device object (representing the connected POS system) will populate once communication is established with the system. The Till objects will populate once device events are received.

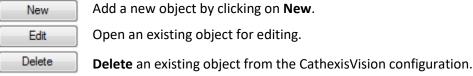
3.1 Object Configuration Tab



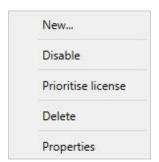
The object configuration tab is where all the individual objects that comprise the integration may be viewed. If necessary, objects may be added manually.

The Woolworths V2 POS has two object types: System and Till.

3.1.1 Object Configuration Buttons



3.1.2 Right-click Options



New will open up the dialogue to add a new object.

Disable/Enable allows objects to be manually enabled/disabled.

Prioritise license allows the user to give specific objects priority,

when licenses are applied. (Useful, if one currently has fewer licenses than objects.)

Delete will permanently remove this object from the list.

Properties will open up the object editing window.

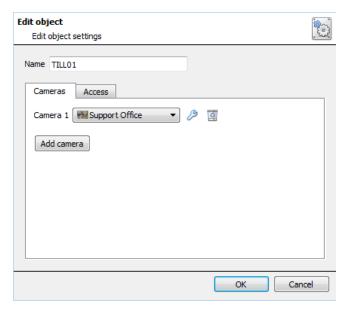
3.1.3 Edit Object

Open object editing window by selecting object and clicking Edit button, or right-click / Properties.



This window is where cameras are added to objects, overlays are configured, and access rights to the integration are added. These are dealt with in two tabs: **Cameras** and **Access**.

3.1.3.1 Cameras Tab



Adding a camera to an object means that, whenever there is an event on that object, the recording from that camera will be related to the time and date of the object event, in the integration database.

Click on **Add Camera**, and select the relevant camera from the drop-down menu.



To Configure overlays for this object, click the settings icon (explained below).



To delete a camera, click the trash icon.

Note:

- 1. Cameras will not be linked in the integration database.
- 2. Up to four cameras can be added to Till objects and will be linked in the integration database.
- 3. If **continuous recording** is not set up on associated cameras, device objects run the risk of triggering while the cameras are not recording. To record cameras only when an object triggers, set up **Events to trigger a recording when one of these objects is activated.**

3.1.3.2 *Access Tab*



Access allows for the protection of sensitive objects, by only allowing certain user levels access to them.

Under View, access levels can be set.

Note: If **Use default access rights** is checked, ensure that those default rights have been correctly defined. Click on **Configure default access** to do this.



3.1.4 Configure Overlays

Overlays are supported for **Till objects only.** Overlays may be configured globally for all objects, or individually for selected objects. The path to follow for opening the configuration window for global vs individual overlays is different, however the overlay configuration is the same.

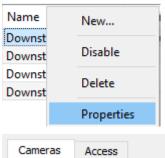
3.1.4.1 Configure Global Overlays





Select the Till object from the **Object type** drop-down menu and click the Default Settings icon.

3.1.4.2 Configure Individual Overlays



Right-click object and select **Properties** to edit the object.



Add a camera to the object, and then click the settings icon that appears next to the camera name.

Note: This option only appears for Till objects.

Global/Individual Options



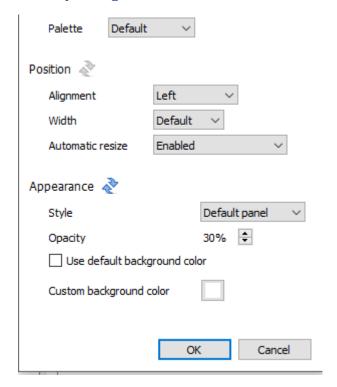
Use Defaults: This option is only available when editing individual overlays. Check this box to use the global configurations. Uncheck to edit overlays for the specific object.

Enable: This option is available in global and individual overlay configuration. In both cases, check the box to enable overlay configuration.

Click to reset values.



Overlay Configuration for Individual and Global



Select **Palette** options from the drop-down menu.

Define the **Position** of the overlay panel, including its alignment, width, and whether the overlay should automatically resize based on the size of the viewing screen/camera panel.

Define the **Appearance** of the overlay stream: set the panel appearance to default; remove the border or remove the panel entirely (so that only the overlay text appears). Adjust the opacity as required.

To set a custom panel colour, uncheck **Use Default background colour.**

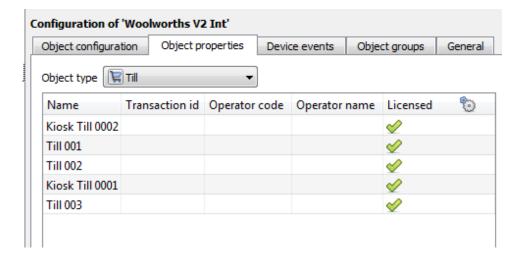
Click the box to bring up a colour chart.

3.2 Object Properties Tab

The Object properties tab allows the device object properties to be viewed and sorted by type.

3.2.1 Till Objects

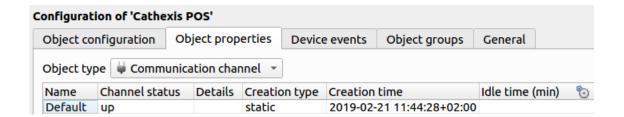
Till objects will populate once device events are received from the relevant Tills:





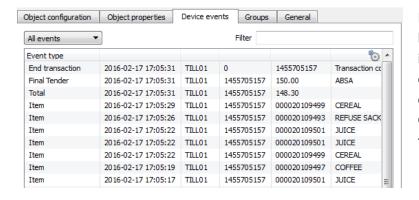
3.2.2 Communication Channel

The communication channel object represents the UDP channel used by the integration device.



Note: Due to the nature of UDP network communication, this channel will not go down when communication with the POS system has been lost. If system events triggered on connection state are required, use the System object.

3.3 Device Events Tab



Real-time device events are displayed here and can be used to check if the integration is working. Once device events are received, the relevant Till objects will also populate (Object Configuration and Object Properties tabs).

3.4 Groups Tab

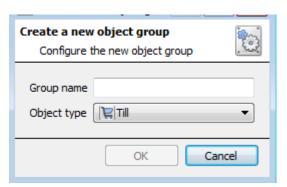


Groups of the same types of object may be created. This is very useful when setting up Events, because Events can be triggered by an object group. (e.g. a group will trigger, if any of the devices in that group is triggered.)

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3.4.1 Create a Group



To create/edit a group click on 1 / 2 .

Note: Once a group has been created, the group's object type may not be edited.

Choose a descriptive Group name.

Click on the drop-down menu to select the **Object type**. Only objects of this type can be added to the group.

A list of Available Objects will then populate. To add/remove these objects, select them (multiple may be selected), and click on $\frac{1}{2}$.

3.5 General Tab



Note: Each integrated device needs to be attached to an Integration database. Without setting up/adding a database, the integration will not function properly within the CathexisVision system.

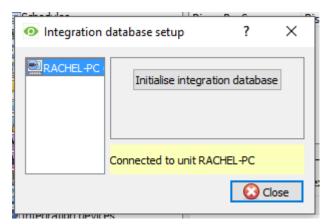
3.5.1 Configure a New Database



If there is no existing database for the current integration, clicking **Configure integration databases** will open the integration database setup.

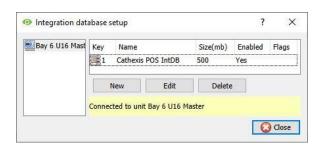


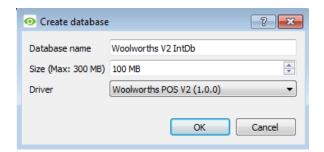
3.5.1.1 Initialise Integration Database



To create databases for specific integrations, the general integration database must be initialised. If not already done, initialize this by clicking **Initialise integration database**.

3.5.1.2 Configure Integration Database





If the general integration database has already been initialised, or after initialising (4.5.1.1), create a new integration database for the current integration.

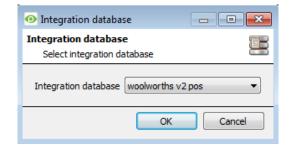
Select the unit that the database should be added to from the list on the left, and click **New** to create a new integration database.

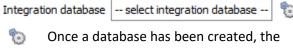
Give the database a name.

Set the database Size.

Select the **Woolworths POS V2** driver from the drop-down menu.

3.5.1.3 Select the Integration Database





Once a database has been created, the user may select it by clicking on the settings icon, and selecting it in the dialogue that appears.

Only databases which relate to the device being added should appear.



4. Camera Tab Overlay Setup

Once the relevant settings have been configured, the POS overlay can be pulled through over the appropriate camera feed.



Note: Cameras must have already been added to Till objects, and overlays must have already been configured.

4.1 Video Feed Options Panel



To bring up the overlay, click the arrow to the left of the screen. This pops out the Video feed options panel.

The Video feed options panel will present a number of options specific to the settings configured for that video feed.



4.1.1 Select the Overlay





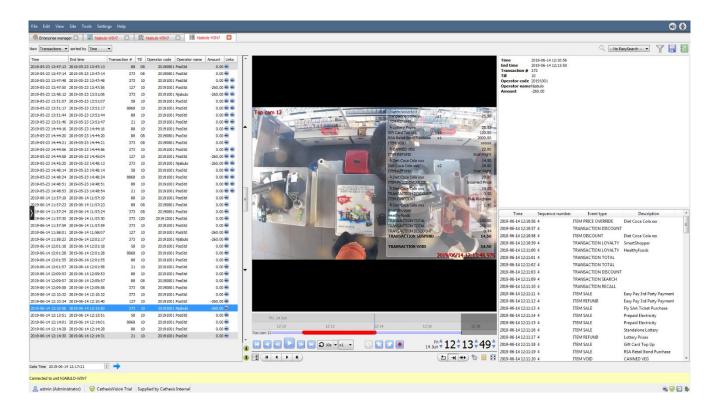
Clicking the overlay icon will bring up the overlay options for this video feed.

Select the overlay and it will appear over the video feed, as seen above.

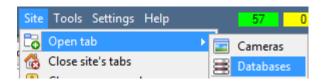


5. Database

The database tab allows database entries to be sorted, filtered, reviewed, and exported. Most integrations will have a different database presentation, and unique filters, due to the different parameters sent to CathexisVision by the integrated device.

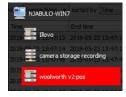


5.1 Navigate to the Database



To open database, follow one of two paths:

- 1. Site Menu / Open Tab / Databases.
- 2. Right-click site tab / Open Tab / Databases.



When the database tab opens, select the relevant integration database from the database panel that opens on the left-hand side. The databases are ordered under the NVRs that they are attached to.

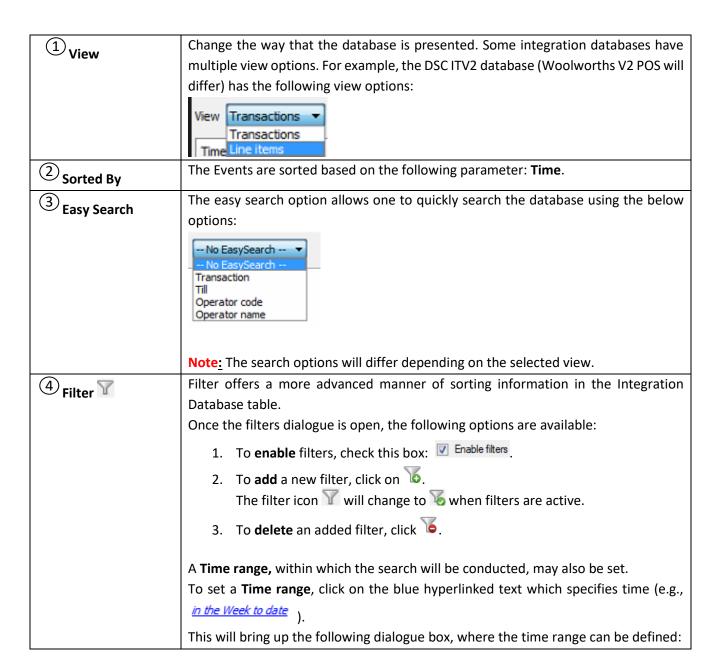
To open and close this list, click on the arrow in the centre of the list:



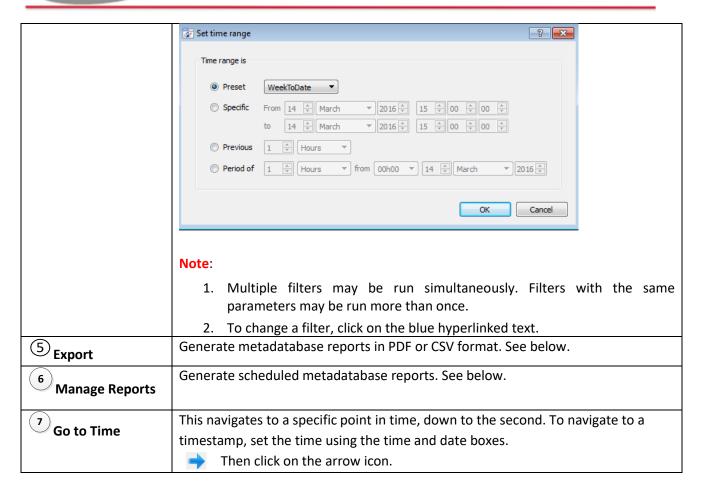


5.2 Database Interface



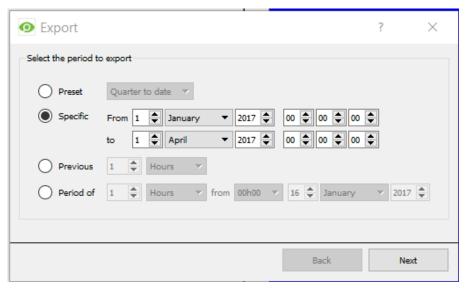






5.2.1 Generate Metadatabase Reports

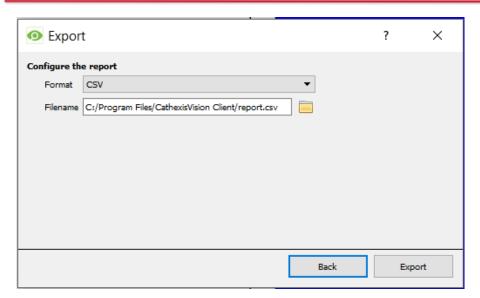
Click the save icon to open the Export window.



Select the **Period** to export, and enter the required details.

Click Next.





Select the **Format** to export the report in; either CSV or PDF.

See below for the two options.

5.2.1.1 Export CSV



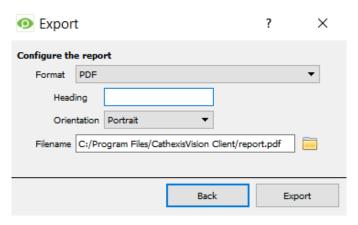
Select CSV Format.

Edit the **Filename** by either entering it straight into text field (replacing **report.csv**).



Or, click the folder icon to choose a new save folder and filename.

5.2.1.2 Export PDF



Select PDF Format.

Give the PDF a **Heading**.

Select either Landscape or Portrait

Orientation for the PDF.

Edit the **Filename** by either entering it straight into the text field (replacing **report.pdf**).

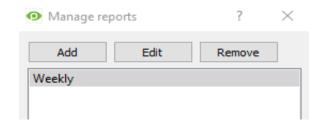


Or, click the folder icon to choose a new save folder and filename.



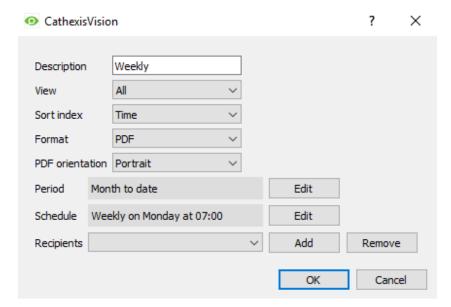
5.2.2 Manage Reports

Metadatabase reports may be auto-generated according to a user-defined schedule.



Click **Add** to add a new report. Once added, reports will populate the list.

Double-click the selected report (or select and click **Edit**) to configure the parameters of the scheduled report. See below.



Give the report a descriptive name.

Select the default presentation of the database entries by selecting desired options for **View** and **Sort Index**.

Select the **format** (PDF/CSV) of the report, as well as the **orientation** of the report (if PDF selected).

Select the **period** to report, and the **Schedule** according to which reports will be autogenerated.

Add report recipients by clicking **Add** and entering the relevant email address. Multiple recipients may be added. To remove a recipient, select the entry from the drop-down menu and click **Remove**.



5.2.3 Metadata

Time 2019-05-23 13:47:14 End time 2019-05-23 13:47:14

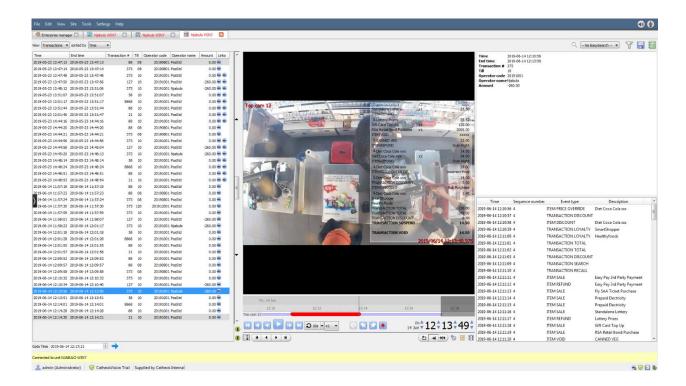
Transaction # 373
Till 08
Operator code 20190801
Operator name PosStd
Amount 0.00

On the right-hand side of the database, metadata about the event entry is displayed.

Time	Sequence number	Event type	Descriptio	ŀ
2019-05-23 13:47:14	4	REMOVE CASH DRAWER	YES	
2019-05-23 13:47:15	4	REMOVE CASH DRAWER	CANCEL	
2019-05-23 13:47:16	4	SECURE		
2019-05-23 13:47:17	4	SECURE AUTO		
2019-05-23 13:47:18	4	SECURE UNLOCK		i
2019-05-23 13:47:19	4	SECURE OVERRIDE		
2019-05-23 13:47:20	4	AUTHORISATION SUCCESSFUL	DeptSale	
2019-05-23 13:47:21	4	AUTHORISATION FAILED	DeptSale	
2019-05-23 13:47:22	4	ITEM SALE	Diet Coca Cola xxx	Ī
2019-05-23 13:47:23	4	ITEM SALE	Diet Coca Cola xxx	
2019-05-23 13:47:24	4	ITEM UNKNOWN	CANNED & DRIED	
2019-05-23 13:47:25	4	ITEM SALE	Vodago R55	
2019-05-23 13:47:26	4	ITEM SALE	Ukash R500	
2019-05-23 13:47:27	4	ITEM SALE	Lotto	
2019-05-23 13:47:28	4	ITEM SALE	LottoPlus	
2019-05-23 13:47:29	4	ITEM SALE	PowerBall	



5.3.4 Viewing an Entry's Associated Recording



To view an associated recording, simply left-click on a database entry which has the camera icon in the **Links** column. Then click play in the video player.



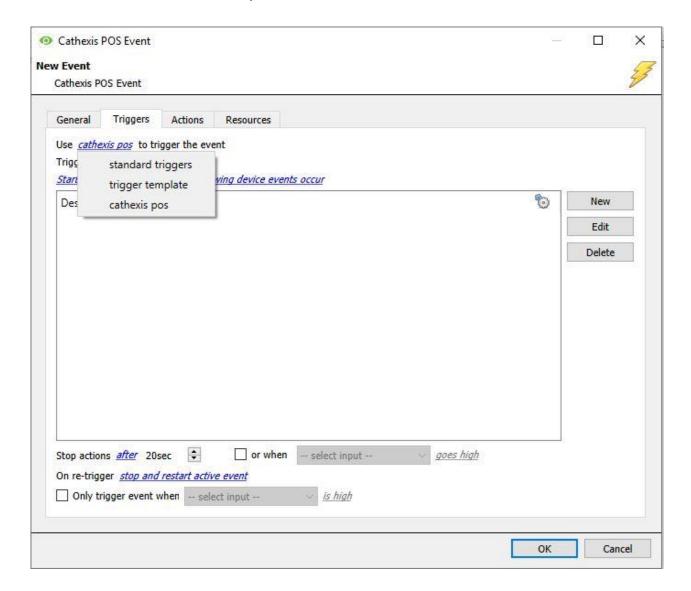
6. Events

A CathexisVision event has a trigger, which causes an action. Set integrated devices to act as triggers, or as actions. This document will detail the aspects of events specific to the Woolworths V2 POS integration. There is a comprehensive guide to CathexisVision events in the main Setup Manual.

Most of the data that CathexisVision receives from a device is presented in the events interface. This provides the user with a full range of options. As a result, some of the options presented in the interface may be impractical as an event trigger, or action.

6.1 Event Window

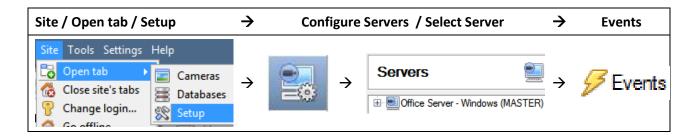
Events in CathexisVision are set up via the Event Window. This has 4 tabs. In the **General Tab** an event is given a name, description, schedule, and priority. In the **Triggers Tab**, the trigger/s for the event is/are defined. In the **Actions Tab**, the action/s which the event takes are defined. In the **Resources Tab**, the various site resources, which can be used as part of an event, are defined.





6.2 Creating an Event

To create an event using the Woolworths V2 POS device, open the Events panel in Configure Servers:



New

Once in Events management, click on New. This will open up the New Event window.

6.3 Triggers

A trigger is the user defined input that tells the event to start. The trigger causes the subsequent action (which the user will also define).

6.3.1 Set the Device as the Trigger



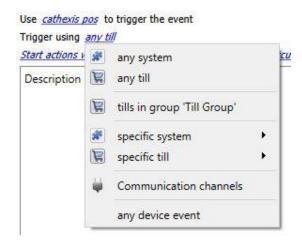
If creating a new event, the trigger type will default to: Use <u>standard triggers</u>

To define which device should trigger the event, click on the hyperlink after "use".

Select the relevant device name from the drop-down menu.



6.3.2 Trigger Types



Any system will trigger when any of the system objects send the selected trigger.

Any Till will trigger when any of these objects sends the selected trigger.

Tills in group 'Till Group' ... If a

Group is set up, it will appear here in this list.

Specific system/Till... will trigger an event from the specific object selected.

Communication channels will trigger only on the Communication channels.

Any device event will trigger on any event that occurs on the device. Within the "any device event" setup, the user may set "device event rules", which will constrain which device events will trigger the event.

Note for group triggers: For this event to be databased under the name of a specific object, and not the name of the triggering group, modify the Description field in the **General Tab** of the Event setup.



Click the question mark icon to see a list of available descriptions.

6.3.3 While/When and Any/All

When triggering an object, there is the option to trigger **while/when** a trigger is active. The user will also be able to select multiple triggers, and define whether **all/any** of the triggers need to be active to start an event.

Use <u>cathexis pos</u> to trigger the event

Trigger using <u>any till</u>

<u>Start actions when any of the following device events occur</u>

To change these settings, click on the blue hyperlinks.

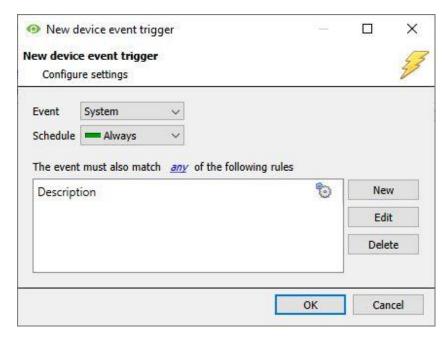
6.3.4 Define the Trigger

After selecting a master trigger type, add a trigger to the event.



Click New in the Triggers tab. This will bring up the dialogue box below:



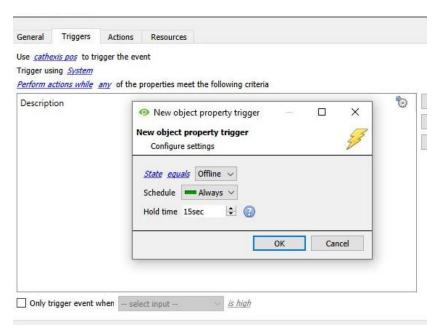


For example, within the any device event option, the user may choose what type of device Event will be the trigger. Choose an event type from the drop-down menu.

Note: Multiple constraints may be set (**Device Event Triggers**). If no constraint is defined, every single device event will trigger this event.

To add/edit/delete a **Trigger** (a constraint) use the **New, Edit,** and **Delete** buttons on the right-hand side.

Choose if <u>my</u>, or <u>d</u> constraints need to be fulfilled to set off a trigger.



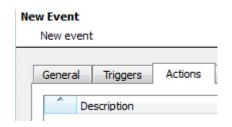
To change the constraint, click on the first hyperlink. This will bring up the full list of available rules.

To modify the way this rule will be treated, click on the second hyperlink (equals in the example). This displays the rules options.

Note: When all available options are known to CathexisVision, there will be a drop-down menu. When these variables are not pre-defined, it is necessary to fill them in. The information pulled through to the events is information sent to CathexisVision from the Woolworths V2 POS device, see the POS settings for the strings needed here.

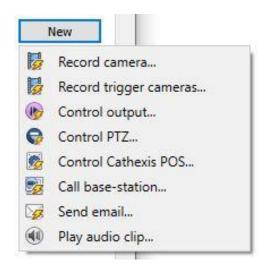


6.4 Actions



Once the triggers that are going to initiate the event have been defined, define some actions.

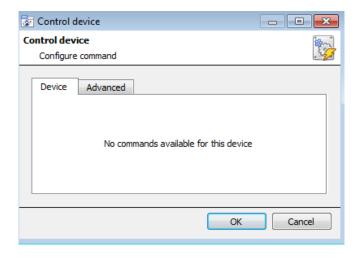
6.4.1 New Action



To create a new Event Action, click on New.

Note: With many integrations, there will be the option to control the integrated device, as one of the actions. This is not the case in regard to the Woolworths V2 POS device. Although the option is presented in the menu, this device is **not possible** to control as a system action:

New





7. Maps

It is possible to add the Woolworths V2 POS device to a site map, which will allow for a number of action options when objects are triggered. The following objects, and associated messages, may be used to trigger map actions.

System Object	Online/Offline state changes.	
	 CathexisVision system event triggers. 	
Till Object	CathexisVision system event triggers.	

Note: This section will only deal with the specifics of adding the Woolworths V2 POS device to the map and configuring supported map events. For more information on using the CathexisVision Map Editor and Map Tab, please consult the dedicated and detailed **Map Editor Operation Manual**.

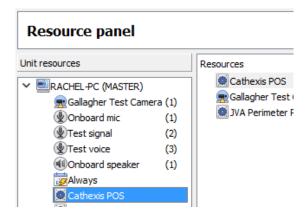
7.1 Add the Device as a Resource

If this has not already been done, the device must be added as a resource to be added to the map.

7.1.1 Resources Panel







- Navigate to the Resource Panel by following Site / Open Tab / Setup / Resource Panel.
- 2. Drag the Woolworths V2 POS device from the **Unit Resources** list into the **Resources** list, on the right.

7.2 Add the Device to the Map

Once the Woolworths V2 POS device has been added as a **Resource**, it will be available to drag onto the map area from the **Site Resources** list.

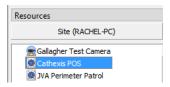
7.2.1 Connect to Site



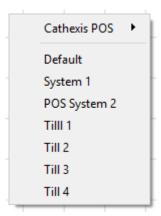
At the bottom right-hand of the Map Editor screen, click the drop-down menu to select the site to connect to.



Once connected to site, all the resources available will populate the panel below.



7.2.2 Adding Device Objects



Drag the Woolworths V2 POS device from the Site Resources list onto the map area. All of the device objects will appear in a list. Select an object.

Note: To add multiple objects, repeatedly drag-and-drop the device onto the map area and select the desired objects individually.

Note: Communication objects do not support Map functionality. Only system and Till objects function on maps.

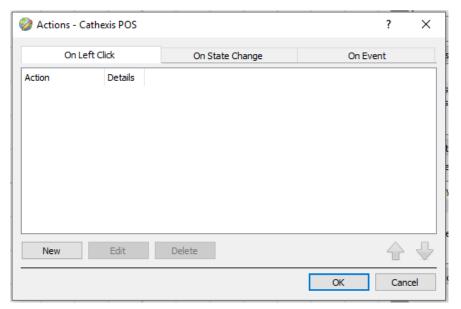
7.3 Adding Device Actions



To add actions to the device objects, either select the object on the map and click.



Or right-click the map object and select.



Actions may be set for **Left-Clicks**, **State Changes**, **and Events**. See descriptions below.

Once configured, the list of actions will populate the white space in the relevant tabs.



To create a new action, select New.



7.3.1 Map Object Device Action Tabs

Map actions may be set to trigger on **Left-Clicks**, **State Changes**, **and Events**. The table below illustrates the triggers that may be used to generate a map action.

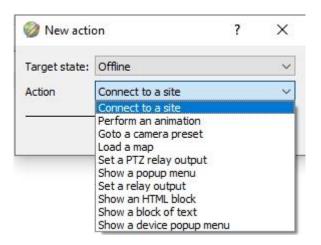
Tab	Map Action Trigger Detail
On Left Click	Left-clicking on the object in the map will trigger an associated map action. See below for actions.
On State Change	When the state of the selected object changes, the map action will occur. State change options will differ according to selected object.
	Note: State change only supported for System objects.
On Event	When a CathexisVision system event occurs, that trigger can be used to trigger a map action.
	System event triggers supported for System objects (any event) and Till objects (start/end transaction, tender, Till, total, item, and any event).

7.3.2 Action Options



Click New in the relevant tab of the action window.

Note: Multiple actions may be added to the map objects.



Action options are the same for all tabs, except for the event tab, which has the added option to **Show a Device Event Notification**.

Click **OK** in the Action window once all required actions have been set for the various map objects.

Once finished, save the map.

Important note: The map <u>must not be saved</u> in the default folder or Work folder of the installation directory. Instead, create a new directory when saving; e.g. **C:\Maps.**

7.4 Map Tab

The saved map needs to be uploaded to CathexisVision. Once the map is open, all objects added to the map area in the Map Editor will be visible on the map, and all actions set will be available. The Woolworths V2 POS Simulator is included with the CathexisVision software, and is intended to assist third-party POS developers with API implementation.



8. Conclusion

This app-note 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.