

# JVA/Stafix Perimeter Control Integration App-note



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## CATHEXIS

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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 JVA/Stafix Perimeter Patrol software, with the CathexisVision software. CathexisVision communicates with the JVA Perimeter Patrol software which in turn controls electric fence energizers. This information may be used to trigger CathexisVision events.

#### Note:

- 1. For information regarding the regular operation of a JVA/Stafix device, please consult the relevant manufacturer's documentation.
- 2. Please consult the software/hardware manufacturers for information on physical hardware requirements.
- 3. There is a General Integration section in the main *CathexisVision Setup Manual*. It contains information on creating an integration database, as well as a general introduction to the Integration Panel. **Read** over this section.

#### **1.2 Requirements**

#### **1.2.1 General Requirements**

- CathexisVision 2018.3 and later.
- JVA Perimeter Patrol software, Version 5.2.7.
- Windows operating system. Not supported on Linux.
- WinPCap software, Version 4.1.2.
- Microsoft SSCERuntime software (32/64-bit depending on OS).
- Net Framework version 4.5 or later (must be installed/upgraded before creating the integration).

Note: Sector objects are only supported in CathexisVision 2018.4 and later.

#### **1.2.2 License Requirements**

License	Name	Description
CJVA-1001	JVA Object license.	This license is the "base" license to integrate with a perimeter system. It is applied to the server to which the perimeter device is connected. It will allow for the connection of a single JVA/Stafix device.
CJVA-2000	JVA Device license.	These licenses apply to zones, in a perimeter system. The CJVA-2000 will license a single zone, and may be added on a zone-by-zone basis.
CJVA-3000	JVA Bundle license (includes device and unlimited zone/object licenses).	This license includes the CJVA-2000 JVA/Stafix device license, and also provides support for unlimited CJVA-1001 object licenses.

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

#### 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.

#### **1.3 Integration Components and Features**

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.

#### **1.4 Features and Abilities**

- The CathexisVision JVA integration communicates via TCP with the JVA Perimeter Patrol software which controls and monitors electric fence energizers, allowing for the generation of CathexisVision system events based on information received from the JVA device.
- All events on the JVA Perimeter Patrol software generate a device event in CathexisVision.
- The JVA Perimeter Patrol software maintains a log of all events taking place on the system. The full log is sent to CathexisVision every time a new event is added to the JVA software log.
- The device can be controlled as a result of a CathexisVision system event.
- Zone and sector object events can be used to trigger a CathexisVision system event.
- Zone and sector objects support overlays indicating zone name, sector name (if applicable), state and alarm state.

#### **1.4.1 Device Objects**

- Device objects populate automatically as soon as communication between the CathexisVision unit and the JVA Perimeter Patrol software is established.
- Objects may be linked to cameras to associate device events with video footage.



Object t	type	Feature
Genera	1	<ul> <li>This integration has Perimeter patrol, Zone, and Sector objects.</li> <li>Events on the device can be used to trigger CathexisVision system events.</li> <li>Perimeter patrol and Zone objects can be commanded as an action of a CathexisVision system event.</li> <li>Zone and Sector objects support camera overlays.</li> </ul>
Perimeter	patrol	<ul> <li>Following Perimeter Patrol object properties are indicated in CathexisVision:</li> <li>Name of Perimeter Patrol object.</li> <li>HLI Connection (connection status between CathexisVision and JVA Perimeter Patrol Software):</li> <li>Error.</li> <li>Connected.</li> <li>Authenticated.</li> <li>Connected.</li> <li>Unauthenticated.</li> <li>Number of Zones.</li> <li>Database Status (indicates status of JVA Perimeter Patrol software).</li> <li>Comms ok (indicates communication status between JVA Perimeter Patrol software).</li> <li>Database ok (status of JVA Perimeter Patrol software).</li> <li>Database ok (status of JVA Perimeter Patrol software).</li> <li>Database ok (status of JVA Perimeter Patrol software).</li> <li>Database ok (status of JVA Perimeter Patrol software).</li> <li>Alarm all – high power.</li> </ul>
	Command	<ul> <li>Alarm all – low power.</li> <li>Disarm all.</li> <li>Note: Commanding Perimeter patrol object issues commands to all associated zone objects.</li> </ul>
Zone	General object features Overlays	<ul> <li>Zone (demarcated by physical energizer) can be sub- divided into total of 50 sectors.</li> <li>Zone object supports overlays:         <ul> <li>Zone name.</li> <li>State.</li> <li>Alarm state.</li> </ul> </li> </ul>
	States	<ul> <li>Alarmed (only 1 sector per zone can be alarmed),</li> <li>Armed.</li> <li>Disarmed.</li> <li>Unlicensed.</li> <li>Unknown (NVR loses communication with JVA).</li> </ul>
	Object properties	<ul> <li>Name of zone object.</li> <li>Host energizer type (the type of hardware which this object represents).</li> </ul>



		IP address.
		<ul> <li>Inputs (number of inputs on the device).</li> </ul>
		<ul> <li>Outputs (number of outputs on the device).</li> </ul>
		Alarmed position.
		Alarmed sector.
		<ul> <li>State (states are a combination of the properties</li> </ul>
		below, 'arm' state is displayed here if none of the other
		properties are true).
		<ul> <li>Arm state (displays whether the zone is armed).</li> </ul>
		<ul> <li>Fence alarm.</li> </ul>
		• Tamper.
		Ground alarm.
		Low battery.
		Bad battery.
		• Fault.
		AC Fail.
		• Alarm – high power.
		• Alarm – low power.
	Commands	• Disarm.
		Note: Commanding zone object issues commands only to the
		selected zone object (and associated sectors, see below*).
		• Zone objects can be sub-divided into a total of 50
		sectors.
		• Sector objects inherit state and command from parent
	General object features	zone object.
		<ul> <li>Sector messages received from JVA software to</li> </ul>
		CathexisVision.
		<ul> <li>Metadatabase entries.</li> </ul>
		<ul> <li>Map notifications and states.</li> </ul>
		<ul> <li>Sector object support overlays, including:</li> </ul>
	Overlays	• Parent zone name
Sector	•	<ul> <li>State and alarm state inherited from parent zone</li> </ul>
		object
		Alarmed (only 1 sector per zone can be alarmed)
	<b>.</b>	Armed.
	States	Disarmed.
		Unlicensed.
		Unknown (NVR loses communication with JVA).
		Name/internal ID of sector object.
	Object properties	Parent zone.
		Number out of total zone sectors.
	C	• Sector state (tied to zone state).
	Commands	N/A



#### **1.4.2 Device Events**

<b>Event Element</b>	Features/Abilities
General	<ul> <li>Every message generated in the JVA Perimeter Patrol software will generate a device event in CathexisVision.</li> <li>Open messages are shown again in CathexisVision when they are updated in JVA Perimeter Patrol software.</li> </ul>
Device Event Types	<ul> <li>The following device event messages are received from the JVA Perimeter Patrol software and displayed in the CathexisVision device events tab and integration meta-database:</li> <li>Zone log.</li> <li>Non-Zone log.</li> <li>HLI Communication.</li> <li>Sector.</li> <li>Client notification.</li> <li>Note: Each event type has a list of possible event descriptions. For example, Zone Log events may be further described as Fence Alarm, Disarm, Under Voltage, Arm Low Power, etc.</li> </ul>
CathexisVision Event Actions	Events triggered on the JVA Perimeter Patrol system 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. Both Zone and Perimeter Patrol objects may be controlled as a result of a CathexisVision system event: <b>Control Perimeter Patrol object:</b> • Alarm all – high power. • Disarm all. <b>Note:</b> Commanding Perimeter patrol object issues commands to all associated zone objects (and associated sectors). <b>Control Zone object:</b> • Alarm all – high power. • Alarm all – high power. • Disarm all. <b>Note:</b> Commanding Zone object issues command to just the selected zone object and its associated sectors.

#### 1.4.3 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	<ul> <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> <li>Databased device events may be viewed in the embedded video player, which includes the usual CathexisVision video review tools.</li> </ul>
View Options	• Event.
Sort Options	• Time.
Easy Search	• Weighbridge.
Filter	<ul><li>Start Time.</li><li>End Time.</li><li>Line Item</li></ul>
Export	Database entries may be exported in CSV and PDF format.

#### **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>

## 2. Windows Installation Steps

To run this integration, perform the following installations.

- 1. Run .Net Framework 4.5
  - Control Panel / Programs and Features / Turn Windows Features on and Off / .Net Framework.
- 2. Reboot the PC.
- 3. Install and run WinPCap 4.1.3 (or later).
- 4. Install and run Microsoft SSCERuntime (either 32 or 64-bit depending on the system).
- 5. Install and run JVA Perimeter Patrol Software (see section below).



## **3. Configure the JVA Perimeter Patrol Software**

The JVA Perimeter Patrol software needs to be configured to send information to the CathexisVision server.

#### **3.1 Install JVA Perimeter Patrol Software**

Please consult section 3 of the JVA Perimeter Patrol Configuration Manual for installation instructions.

#### **3.2 JVA System Configuration**

Once installed, open the JVA Perimeter Patrol software and log in using supplied details. Then open System Configuration window:

JVA JVA	Perimete	er Patrol	Pro			Setup menu / System Configuration
File	Setup	Arm	View	Reports	F	
~ Quick	Sy	stem Co	onfigurat	ion	e	
4	Zone	13	- 1	kV		

In the system configuration window, select the HLI Server tab.

#### 3.3 HLI Server Tab

In the HLI (High level interface) tab, configure the HLI server settings as below:

- 1. Select HLI Server Enabled.
- 2. Set a TCP Listening Port (take note of this number as it will be required when configuring the device in CathexisVision).
- 3. Set an Authentication Key. This can either be created manually by entering text into the field, or automatically by clicking Generate. Take note of this key.
- 4. Set max number of simultaneous connections to the server.
- 5. Configure the frequency (in seconds) at which the server will send out information.

JUA System Configurat	ion							
Zones & Connections	Activation & Startup	Users	Alarms & Email	Mapping	HLI Server			
<ul> <li>High Level Inte</li> <li>HLI Server Ena</li> </ul>	rface (HLI) Server D abled	sabled						
Local TCP Listenin	g Port 58	32						
Authentication Key	J	/A						Generate
Maximum Concurre	nt Connections 3			HLI CI	ient Receives	s Live Data Every	1	Second(s)

Once complete, click **Save and Close** at the bottom right of the window. The JVA Perimeter Patrol software will need to be restarted for changes to take effect.



#### **3.4 Sector Configuration**

Each zone may have up to 50 configurable sectors. Sector states are determined by the state of the parent zone.

Open System Configuration (as in 3.2) and select the **Zones and Connections** tab, and within that section, select the **Sectors** tab.

Connect Via	Startup Users Alarms & Email Mapping Keypad Bus () Another instance of Perim			72
GPio Z14 ZM20 Add/Remove Zones	Settings       Control Schedule       Inputs         Sector 1       Sector 2       Sector 3         Sector 4       Sector 5       Sector 6         Sector 6       Add Sector       Remove Sector	Sector Name: Sector Number: Sector Alarm F	Sector 5         5       of         Popup       Sector Legend:         Disarmed       Armon         Resolved       Alarm         Copy Colours to       Default Colours	

From the list on the left, select the relevant zone object. From the sectors panel, click **Add Sector** to add a sector to the selected zone. Click **Remove Sector** to delete.

Ensure that the software is open and running during the addition, configuration, and operation of the device in CathexisVision.



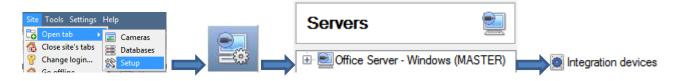
## 4. Add the Device in CathexisVision

This section will detail the addition of the JVA Perimeter Patrol integration device in CathexisVision.

**Note**: The JVA Perimeter Patrol Software must be open and running to add and operate the integration in CathexisVision.

#### **4.1 Integrations Panel**

CathexisVision integrations 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:



There are two sections in the Integration Panel:

1. The **Devices** list will list the integration devices that are attached to the integration database.

A	
Name	Driver
DSC	DSC IT V2 AP
Ipsotek	Ipsotek 2 analytics
JVA_PerimeterPatrol	JVA Perimeter Patrol
Maxxess	Maxxess access control
Morley	Morley Fire System
Paradox	Paradox V2
zeaq	Zeag Ps

2. The **Configuration** section enables the user to edit or review the device selected in the **Devices** section.

Object configuration Object pro		perties Device		e events	Object groups	General		
Objec	ct type 🏾 🕷 All of	jects		•				
	Туре		ID	6	Name	Cameras	Object groups	License
ψ.	Communicati	on channel	defa	ult_	Default			
*	PerimeterPatr	ol	Perime	eterPatrol	PerimeterP	atrol		
*	Zone		0		I/O Board			0
:**	Zone		1		Energizer			0



#### **4.2 Device Addition**

New device

Once in the Integration Panel, click on **New device**, in the Devices section. This will open the addition dialogue.

Next

Select the JVA Perimeter Patrol driver from the list and click on Next.

Configure the device		Give the device a <b>Name</b> .
Name Connection IP address 127.0 .0 .1 Port 6000		Enter the IP Address of the unit on which the JVA Perimeter Patrol software is installed and running.
		Enter the <b>Port number</b> configured in the JVA Perimeter Patrol Software.
Settings		Enter the <b>Authentication key</b> configured in the JVA Perimeter Patrol software.
Authentication key		Click <b>Finish</b> when done.
	Finish Cancel	

Once configured, the JVA Perimeter Patrol Integration device will be listed under the 'Devices' Section and its associated objects will automatically populate in the 'Configuration' Section. See below.



## 5. Configure the Device in CathexisVision

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

#### **5.1 Object Configuration Tab**

The object configuration tab is the tab in which the individual objects that comprise the integration can be viewed. Objects will populate once communication is made with relevant hardware and/or software.

Objec	bject configuration Object pro		operties Devi	perties Device events Object		t groups General		
Objec	t type 🏽 🏽 All ob	jects	•					
	Туре		ID	Name	(	Cameras	Object groups	License
ψ.	Communicatio	on channel	default	Default				
*	PerimeterPatro	bl	PerimeterPatro	PerimeterPa	atrol			
*	Zone		0	I/O Board				0
*	Zone		1	Energizer				0

Object type	#	PerimeterPatrol
N		PerimeterPatrol
Name	-	Sector
PerimeterP	*	Zone
	ψį.	Communication channel

Select the Object type drop-down to view all objects that comprise the integration. Select one of the object types from the menu to view only objects of that type in the list area.

#### Note:

- 1. See the Integration Components section, above, for more information on the object types.
- 2. Sector object information only available in CathexisVision 2018.4 and later.

#### **5.1.1 Object Configuration Buttons**

	New	
	Edit	
Ē	Delete	

Add a new object by clicking on New.

Click Edit to change an existing object.

Click Delete to remove an existing object from the CathexisVision configuration.



#### 5.1.2 Object Configuration Right-click Options

New
Disable
Prioritise license
Delete
Properties

New will open up the dialogue to add a new object.
Disable/Enable will manually enable/disable individual objects.
Prioritise license will give a specific object license preference, in case there are more objects/zones than licenses.
Delete will permanently remove this object from the list.
Properties will open up the object properties. Objects may be edited from here.

(Specifically, cameras will be assigned to this object, as well as user access levels assigned.)

#### 5.1.2.1 Properties: Cameras

Adding a camera to an object will mean 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.

<ul> <li>Edit object</li> </ul>		×	Add camera Click the Add camera button.
Edit object Edit object settings Name Zone 01			From the drop-down menu that appears, click the desired camera.
Camera 1 Access Camera 1 Axis Q1931-E - Perimeter Add camera	• 3	0	Camera 1 Axis Q1931-E - Perimeter Add cam Axis Q1615 - Perimeter Axis Q1635 - Perimeter Axis Q1931-E - Perimeter
			To delete a camera, click on the trash icon.
	ОК	Cancel	To configure overlays for this object, click the settings icon.

See 5.1.3 below for instructions on configuring overlays.

**Note**: Only Zone and sector objects support overlays.

**Note**: If *continuous recording* is not set up, on associated cameras, this runs the risk of device objects triggering while the cameras are not recording. To only record cameras, when an object triggers, set up **Events** that trigger a recording when one of these objects is activated.



#### 5.1.2.2 Properties: Access

Cameras	Access				
🔽 Use the	default acc	ess rights fo	or 'WeighBridge	e' objects [	Configure default access
View		Level 1	Level 2	Level 3	Level 4
	E	Level 5	Level 6	Level 7	Level 8
		Level 9	Level 10	Level 1	1 📃 Level 12

Access protects sensitive objects by ensuring that only certain user access levels can access them.

Under **View**, set the access levels.

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

#### **5.1.3 Configure Overlays**

Overlays are supported for Zone and Sector objects. Overlays may be configured globally for **all zones/sectors**, or they may be configured for a single zone/sector. See below for how to open the overlay configuration window for global or specific overlay configuration. Thereafter, the overlay configuration window looks the same for both options.

#### 5.1.3.1 Configure Global Overlays

Object type	🌋 Zone	•	ß

Select the zone or sector object from the Object type drop-down menu.

Click the Default Settings icon.

Select the Overlays tab.

#### 5.1.3.2 Configure Overlays for Single Object

Name	New	Right-click object and select <b>Properties</b> to edit the object.
Downst Downst	Disable	
Downst Downst	Delete	
	Properties	
Cameras	Access	Add a camera to the object.
Camera 1 Add car		<ul> <li>Click the settings icon that appears next to the camera name.</li> </ul>
		Note: This option only appears for zone objects.



#### 5.1.3.3 Overlay Configuration Window

**Note**: This window looks the same for both global and specific object overlay configurations.

JVA Perimeter Patrol Zone	Enable Check the <b>Enable</b> box to see overlays.
Enable  Text Size  Normal  Location  Top left  Background color  Text color  Text color	Select the <b>Text Size</b> of the overlay: Normal Tiny Small Normal Large
OK Cancel	Select the Location of the overlay: Top left Top right Bottom left Bottom right
	Choose the <b>Background and Text</b> of the overlay.
	Clicking on the block of colour will open a colour chart.

## **5.2 Objects Properties Tab**

The Object properties tab displays the object properties, sorted by object type. In the case of the JVA device, the object types available are **Zone** and **Perimeter Patrol.** 

Object confi	guration	Object properties	Device	events Ob	ject groups	Genera	l l		
Object type	🗱 Zone	-							
Name	Channel	Host energizer type		IP Address	Keypad Id	Inputs	Outputs	State	Arm state
I/O Board	0	Ethernet Digital IO Ex	pander	192.168.33.15	91	0	0		Unknown
Energizer	0	Z14		192.168.33.15	9 2	0	0		Disarm



**Note**: Object states (such as whether the object is in alarm or not) are reflected in the Object Properties tab, however object and device events (like specific alarm events) are reflected in the Device Events tab. For full list of object states, see 1.1.

#### 5.2.1 Control Object

Both the zone and Perimeter Patrol objects can be controlled. **Right-click** on the object to see available commands.

#### 5.2.1.1 Perimeter Patrol Object Commands

Commanding the Perimeter Patrol object will issue the same command to all zone objects, which in turn will issue the same command to all the zone sectors. The following commands are available:

Arm all - high power Arm all - low power Disarm all

#### 5.2.1.2 Zone Object Commands

Issuing a command to a zone will issue the same command to the associated sectors. Sector objects cannot be directly controlled. The following commands are available:

Arm high power Arm low power Disarm

#### 5.2.2.3 JVA Login Details Required

Arm lov	v power
Arm low p Enter pa	arameters for arm low power
User	Admin
Password	
	Cancel

Note that when issuing commands to objects, the user will have to enter the login details used for JVA Perimeter Patrol software.

These are **not the same** as the authentication details entered when adding the integration device in CathexisVision.



#### 5.2.2 Clear Alarm State in JVA Software

When disarming an object, the object will remain in an alarm state until the alarm is cleared in the JVA Perimeter Patrol software.

Reports	Help
Eve	t Log
Ever	nt Log Archive

Open the JVA Perimeter Patrol software, navigate to **Reports menu** / **Event log**.

In the window that opens, select the relevant event/s from the log, and then click the **Close Selected Resolved Alarms** button. A closing comment on the alarm will be required to complete. Click **OK** when done.

	Event ID	Time of First Occurrence	Usemame	Zone	Description	Time Muted	Muted By	Occurrences	Time of Latest Occurrence
	68	6/7/2018 11:41 A	M Administrato	Energizer	FENCE ALARM	6/7/2018 11:42 AM	Administrator		
	70	6/7/2018 11:41 A	M Administrato	Energizer	UNDER VOLTAGE (Return )	6/7/2018 11:42 AM	Administrator		
•	71	6/7/2018 11:41 A	M Administrato	Energizer	UNDER VOLTAGE (Feed )	6/7/2018 11:42 AM	Administrator		
				g Note					
				-	using note to record alongside the al	am.	<b>×</b>		
				-	using note to record alongside the al	am:			

The alarm state will now change to **Disarm** in the CathexisVision software.

#### **5.3 Device Events Tab**

This will list all events sent from this device. It is an excellent way for installers to see that the integration is functioning, and to monitor the events happening on site.

Object config	uration	Ob	ject properties	De	evice events	Object groups	General											
All events	•	•												Filt	er			
Event type																		
Zone log	2018-0	6-07	11:10:01+02:0	0 480	COMS FAI	L	Administrator	IO Board	0	4	Resolved	Close required	Closed	2018-08-2	11:15:28.267	Administrator	Close	Unmuted
Zone log	2018-0	6-07	11:10:01+02:0	0 481	COMS FAI	L	Administrator	Energizer	1	4	Resolved	Close required	Closed	2018-08-2	11:15:28.267	Administrator	Close	Unmuted
Zone log	2018-0	6-07	11:12:54+02:0	0 485	FENCE AL	ARM	Administrator	Energizer	1	2	Resolved	Close required	Closed	2018-08-2	11:15:28.267	Administrator	Close	Unmuted
Zone log	2018-0	6-07	11:12:57+02:0	0 487	UNDER VO	LTAGE (Return )	Administrator	Energizer	1	2	Resolved	Close required	Closed	2018-08-2	11:15:28.267	Administrator	Close	Unmuted
Zone log	2018-0	6-07	11:12:57+02:0	0 488	UNDER VC	LTAGE (Feed )	Administrator	Energizer	1	2	Resolved	Close required	Closed	2018-08-2	11:15:28.267	Administrator	Close	Unmuted
Zone log	2018-0	8-20	16:32:12+02:0	0 541	AC FAIL		Administrator	Energizer	1	1	Resolved	Close required	Closed	2018-08-2	11:15:28.267	Administrator	Close	Unmuted
Zone log	2018-0	8-21	11:14:11+02:0	0 502	LOW BATT	ERY	Administrator	Energizer	1	5	Resolved	Close required	Open					Unmuted
Zone log	2018-0	8-21	11:14:11+02:0	0 503	BAD BATT	ERY	Administrator	Energizer	1	5	Resolved	Close required	Open					Unmuted
Zone log	2018-0	6-25	08:06:47+02:0	0 502	LOW BATT	ERY	Administrator	Energizer	1	5	Resolved	Close required	Closed	2018-08-2	11:18:15.680	Administrator	Alarm close	Unmuted
Zone log	2018-0	6-25	08:06:47+02:0	0 503	BAD BATT	ERY	Administrator	Energizer	1	5	Resolved	Close required	Closed	2018-08-2	11:18:15.680	Administrator	Alarm close	Unmuted
Zone log	2018-0	8-21	11:18:47+02:0	0 545	ARM LOW	POWER	Administrator	Energizer	1	1	Resolved	Close not required	Closed					Unmuted
Zone log	2018-0	8-21	11:19:00+02:0	0 546	FENCE AL	ARM	Administrator	Energizer	1	1	Unreso	Close required	Open					Unmuted
Zone log	2018-0	8-21	11:19:03+02:0	0 547	DISARM		Administrator	Energizer	1	1	Resolved	Close not required	Closed					Unmuted
Zone log	2018-0	8-21	11:19:04+02:0	0 548	UNDER VC	LTAGE (Return )	Administrator	Energizer	1	1	Unreso	Close required	Open					Unmuted
Zone log	2018-0	8-21	11:19:04+02:0	0 549	UNDER VC	LTAGE (Feed )	Administrator	Energizer	1	1	Unreso	Close required	Open					Unmuted
Zone log	2018-0	8-21	11:19:04+02:0	0 548	UNDER VC	LTAGE (Return )	Administrator	Energizer	1	1	Resolved	Close required	Open					Unmuted
Zone log	2018-0	8-21	11:19:04+02:0	0 549	UNDER VC	LTAGE (Feed )	Administrator	Energizer	1	1	Resolved	Close required	Open					Unmuted
Zone log	2018-0	8-21	11:19:04+02:0	0 548	UNDER VC	LTAGE (Return )	Administrator	Energizer	1	1	Resolved	Close required	Closed	2018-08-2	11:20:20.627	Administrator	Close Fence Alarm	Unmuted
Zone log	2018-0	8-21	11:19:04+02:0	0 549	UNDER VO	LTAGE (Feed )	Administrator	Energizer	1	1	Resolved	Close required	Closed	2018-08-2	11:20:20.627	Administrator	Close Fence Alarm	Unmuted

Filter the device events by selecting the drop-down menu and choosing an event type:

All events $\sim$
All events
Client notification
HLI Communication
Non-Zone log
Sector
Zone log



**Note**: When navigating away from this window, the device events for that session will disappear but will still be accessible in the integration metadata base. Please see **Database Section** for more information on navigating to and interacting with the database.

## **5.4 Groups Tab**

onfiguration of 'JVA'						
Object configuration	Object properties	De	evice events	Object groups	General	
	Patrol Group 🔻 🎽				I	
Available objects Name	6		Name	erimeter Patrol (	sroup gro	up
PerimeterPatrol		✓				

Groups of the same type of object can 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 are triggered.)

#### 5.4.1 Create a Group

	Oreate a new − □ ×	To create/edit a group click on 🏝/ 📝.
3	Create a new object group Configure the new object group	Note: Once a group has been created, the object type of the group may not be changed.
r	Group name Zone Group Object type 🐼 Zone 🔻	Give the group a descriptive Group name.
r	OK Cancel	Click on the drop-down menu to select the <b>Object type</b> to view.

A list of Available Objects will appear. To add/remove, select the object/s (multiple may be selected), and click on  $\oint / \oint$ .

#### **5.5 General Tab**

Currently the general tab deals with the integration database. Select a pre-created database, or configure a new database.

#### 5.5.1 Select an Integration Database

If an integration specific database has already been created, select it by clicking the settings icon.



Only databases relevant to the integration being added should appear. If a database has not been created, see below.

#### 5.5.2 Configure a New Database

Configure integration databases

If there is no database created yet, clicking on the **Configure integration databases** button will open the integration database setup.

Click **New** to create a database.

WIN7VIRTUAL (MASTER)	Key N	lame Size	(mb) Ena	bled Flags			
		• Cre	ate databas	ie	?	×	
		Databas	e name	JVA			
		Size (Ma	x: 500 MB)	100 MB		-	
		Driver		JVA Perimeter Patrol (1.1.1)		•	
				Illovo Weighbridge (UniSolutions) Impro Portal (1.1.2) InfoGenesis POS (1.1.1) Interseptor Pro (1.0.0) Intrepid (1.1.1)	(1.1.1)		
				Iolan (1.1.1) Ipsotek 2 analytics (1.0.0) Ipsotek analytics (1.0.0) Isilon (1.1.1)		L	_
	Ne	W	Edit	JVA Perimeter Patrol (1.1.1)		¥	
	Connecte	ed to unit Wi					

Give the database a Name.

Select the **Size** of the database. The max is 1000MB.

Select the JVA Perimeter Patrol driver.

**Note:** Metadatabase driver version 2.2.2 which supports sector information is only supported in CathexisVision 2018.4 and later.

Click **OK** when done.

Select the newly created database by clicking the settings icon.

Integration database			×
Integration database Select integration database			
Integration database JVA			•
	ОК	Cano	:el

Select the database from the drop-down menu:

**Note**: The information on setting up an integration database may be found in the **Integration Devices General Settings** section of the CathexisVision Setup Manual.



## 6. Cameras Tab



#### 6.1 Control Device from Resources Panel

It is possible to command some of the JVA device objects from the Resources Panel in the Cameras Tab. These commands are much the same as can be achieved from the Object Properties Tab of the Integration Devices panel of the Setup section.

To command the JVA device from within the Cameras tab, the device must be added as a resource in the Resources section of the Setup tab.

#### 6.1.1 Add the Device as a Resource

Setup tab / Resources Panel

Resource panel		
Unit resources		Resources
	ર)	AVL 💓
Onboard mic	(1)	
Test signal	(2)	
Test voice	(3)	
Onboard speaker	(1)	
Always		
AVL 🧕		
AVL 🔘		

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

After doing this, the device should appear in the Resources panel in the Cameras tab:

Resources	•
Filter resources	Y
AVL 🔘	



#### 6.1.2 Control Device

Double-click on the device in the Resources panel of the Cameras tab to bring up the window below. Here the states of some of the device objects can be viewed and controlled.

Name	HLI Connection	Zones	Coms status	Database status	Comms Ok	Database Ok	Unmuted alarms	1
erimeterPatrol	Connection error				×	×	×	

Select the object type from the drop-down menu, then right-click the object for possible commands.

Consult section 4.b for command options.

#### 6.2 Camera Tab Overlay Setup

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



**Note**: Cameras must have already been added to the relevant objects.



#### **6.2.1 Video Feed Options Panel**



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

Once popped out, the Video feed options panel will present a number of options specific to the settings configured for that video feed.

#### 6.2.2 Select the Overlay



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

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



## 7. Database

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r 1 Energizer 1 Rest			Unmuted 😐		
	lolved Close not required Closed		Unmuted		
	olved Gose not required Gosed		Umited		

The database tab will allow the user to navigate the records in each individual database. In the database tab, each database is presented as a table. It has built in filters, and the ability to navigate by timestamp. If a database record has an associated recording, the user will also be able to launch this recording, from within the database tab.

This database video player is embedded in the database view. This player uses the same timeline features as the CathexisVision cameras tab.

Most integrations will have a different database presentation, and unique filters, due to the different parameters sent to CathexisVision by the integrated device.

#### 7.1 Navigate to the Database

Site	Tools Settings	Help	57	0
6	Open tab		Cameras	
6	Close site's tabs		Databases	
100	Close site's tabs		Databases	

To view the information stored in the Integration database, follow the path to the left.

This will open the Database Tab.

Once in the databases tab, select the relevant integration database. The databases are ordered under the NVRs that they are attached to.



Hover over the arrow on the left-side of the camera image to bring up the database panel on the left.

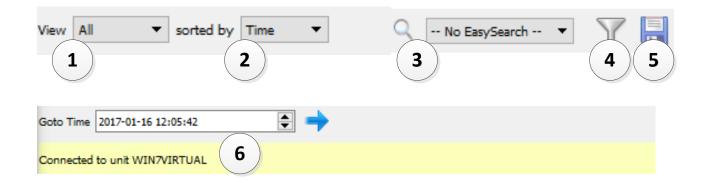




Select the name of the relevant database.

**Note**: Sector information only available in metadatabase driver version JVA 2.2.2. which is supported from CathexisVision 2018.4 and later.

#### 7.2 Database Interface



1	The way the database is presented may be changed. Some integration databases have
(1) <sub>View</sub>	multiple view options. The <b>JVA</b> database allows viewing by:
	View Log entries Log entries Client notification Ended
<sup>2</sup> Sorted By	Events may be further sorted based on the following parameters: Time.
<sup>3</sup> Easy Search	The easy search option allows for a quick search of the database within one of the
	following options:
	No EasySearch  Type Id Description User Zone Zone Zone Resolved Close required Closed Muted V
(4) Filter T	Filter offers a more advanced manner of sorting information in the Integration Database
	table.
	Once the filters dialogue is open, the following options are available:
	1. To <b>enable</b> filters, check this box: 🗹 Enable filters
	2. To <b>add</b> a new filter, click on $\overline{}$ .
	The filter icon $\overline{Y}$ will change to $\overline{V}$ when filters are active.



	3. To <b>delete</b> an added filter, click on <b>6</b> .		
	Filter options:		
	Transaction		
	Time		
	Event Type		
	Event Id		
	Description		
	User name		
	Zone		
	Zone name		
	le Occurances		
	Resolved		
	Close required		
	Closed		
	Close user		
	Muted		
	Muteuser		
	Mute user		
	A <b>Time range</b> , within which the search will be conducted, may also be set.		
	To set a <b>Time range</b> , click on the blue hyperlinked text which specifies time (e.g.,		
	<u>in the Week to date</u> ).		
	This will bring up the following dialogue box, where the time range can be defined:		
	Set time range		
	Time range is		
	© Specific From 14 ⊕ March ▼ 2016 ⊕ 15 ⊕ 00 ⊕ 00 ⊕		
	to 14 👻 March 🔻 2016 🐳 15 🐳 00 🐳 00 😴		
	Previous 1 Hours V		
	Period of 1 + Hours + from 00h00 + 14 + March + 2016		
	OK Cancel		
	Note:		
	1. Multiple filters may be run simultaneously. Filters with the same parameters may		
	be run more than once.		
	<ol> <li>To change a filter, click on the blue hyperlinked text.</li> </ol>		
5 Export	Generate meta-database reports in PDF or CSV format. See below.		
$\bigcirc$	This navigates to a specific point in time, down to the second. To navigate to a		
<sup>6</sup> Go to Time			
timestamp set the time using the time and date boxes, and then click on the 💎 icon			



#### 7.2.1 Generate Meta-Database Reports

	_	

Click the save icon to open the Export window.

Export Select the period to export		? ×	Select the <b>Period</b> to export, and enter the required details.
<ul> <li>Preset</li> <li>Quarter to date ▼</li> <li>Specific</li> <li>From 1 → January ▼ 2017 →</li> <li>to 1 → April ▼ 2017 →</li> <li>Previous 1 → Hours ▼</li> </ul>	00 0 00 00 00 00 00 00 00 00 00 00 00 0		Click <b>Next</b> .
• Export	Back	Next ? ×	Select the <b>Format</b> to export
Configure the report         Format       CSV         Filename       C:/Program Files/CathexisVision Client/report.csv	• ]		the report in; either CSV or PDF. See below for the two options.
	Back	Export	

#### 7.2.1.1 Export CSV

Configure the report								
Format	CSV	•						
Filename	C:/Program Files/CathexisVision Client/report.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.



#### 7.2.1.2 Export PDF

Export	?	×	Select PDF Format.
Configure the report			Give the PDF a <b>Heading</b> .
Format PDF Heading Orientation Portrait		•	Select either Landscape or Portrait <b>Orientation</b> of the PDF.
Filename C:/Program Files/CathexisVision Client/	/report.pdf		Edit the <b>Filename</b> by either entering it straight into text field (replacing <b>report.pdf.</b>
Back	Exp	ort	Or, click the folder icon to choose a new save folder and filename.

#### 7.2.2 Metadata

Time	2018-06-07 11:46:23
Event Type	Zone
Secondary cameras	3
Camera	2

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

#### 7.2.3 Viewing an Entry's Associated Recording

To view an associated recording, left-click on a database entry which has the camera icon in the Links column.

Then click **play** in the video player.



#### 8. Events

A CathexisVision Event has a trigger, which causes an action. Integrated devices can be set to act at triggers, or as actions. This document will detail the JVA specific aspects of Events. There is a comprehensive guide to CathexisVision Events in the main setup manual. For more information, please consult it.

Most of the data that CathexisVision receives from a device is presented in the Events interface. This is done in order to give the user a full range of options. As a result, some of the options presented in the interface may be *impractical* for being used as an event trigger, or action.

#### 8.1 Event Window

Ne	w Event							
_	New event							
	General	Triggers	Actions	Resources				
	Name	New even	t					
	Description					8		
	Schedule	A	lways		•	<mark>*</mark> ``	2	
	Priority	Low			•			

Events in CathexisVision are setup via the Event Window. This has 4 tabs:

- In the General Tab, an event is given a name, description, schedule and priority.
- 2. In the **Triggers Tab**, the trigger/s for the event is defined.
- In the Actions Tab, the action/s which the event takes is/are defined.
- 4. In the **Resources Tab**, the various site resources which can be used as part of an event are defined.

## 8.2 Creating an Event

To create an event using the JVA device, enter the Events management area:



This will open up the New Event window.



#### 8.2.1 While/When and Any/All

When triggering on an object the user will have 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>iva</u> to trigger the event Trigger using <u>any perimeterpatrol</u> <u>Start actions when</u> <u>any of the following device events occur</u> As usual, to change these settings click on the related, blue, hyperlinks.

#### 8.3 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).

#### 8.3.1 Set the Device as the Trigger

Use	<u>standard triggers</u> to trigger the	e event
<u>Perfi</u>	standard triggers	llowing a
	trigger template	
	jva	

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

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

To set it as the JVA device, click on the hyperlink, and **select** the relevant **device name** from the drop-down menu.

#### 8.3.2 Trigger Types (Trigger Using)

It is useful to think of this as a **master trigger type**.



Trigger using any perimeterpatrol

Start actions i	*	any perimeterpatrol	
Description	*	any sector	
	*	any zone	
	*	zones in group 'East side (zones 1-3)'	
	*	sectors in group 'lower east (sector 2-8)'	
	*	specific perimeterpatrol	•
	#	specific sector	•
	*	specific zone	•
	ų.	Communication channels	
	_	any device event	

**Any** ... will trigger when on an event from *any* of these objects.

**Note**: Perimeter Patrol objects cannot be used as a trigger.

**Specific** ... will only trigger on an event from a specific object.

**Specific group..** If an object group has been set up it will appear in this list.

**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.

<u>Note for group triggers</u>: For events to be databased under the name of a specific object, and not the name of the triggering group, the Description field in the **General tab of the Event setup** needs to be modified.

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

#### 8.3.3 Define the Trigger

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

New

7

Click on the New icon in the Triggers tab.

This will bring up the dialogue box below, for the various trigger types:



💿 New d	evice event trig	ger						×
New devic	e event trigger	r						53
Configu	re settings							7
Event Schedule	Zone log	•						
The event	must also match	<u>any</u> of	f the follow	ing rul	es			
Descript	ion					\$	Nev Edit	t
						OK	Can	icel

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

**Note**: Multiple constraints (**Device Event Triggers**) may be set. If a constraint is not 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  $\underline{any}$ , or  $\underline{an}$  constraints need to be fulfilled to set off a trigger.

• New device e		$\times$
New device event rule Configure settings		233
Event ID equals		
ОК	Can	cel

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) to display the rules options.

**Note**: When all available options are known to CathexisVision a drop-down menu will be available. When these variables are not pre-defined they will need to be filled in manually. The information pulled through to the events is information sent to CathexisVision from the JVA device, see the JVA settings for the strings needed here.

#### 8.4 Actions

Once the triggers that are going to initiate the event have been defined, to define some Actions in the **Actions tab** of the **New Event** window.

New

To set an action for an event trigger, click the New button.

1	New
<b>5</b>	Record camera
5	Control JVA
<b>1</b>	Control JVA
<b>1</b>	Control BIOAC
<b>-</b>	Call base-station
<b>\$</b>	Send email
	Play audio clip

Select an action from the available options.

One of the available actions will be to control the JVA device by selecting Control JVA....

#### 8.4.1 Control device

This will bring up the **control device** dialogue. Under the **device** tab the user defines how the device will be controlled; under the **advanced** tab, the scheduling of the action is defined.

#### 8.4.1.1 Device Tab

Ontrol device —		×
Control device Configure command		
Device Advanced		
Object to control PerimeterPatrol		
Command Arm all - high power 🔻		
Parameters		
User	]	
Password		
ОК	Car	ncel

Select an Object to control by clicking on the settings icons.

This will display a selection of all the Objects available on the JVA device.

The **Command** drop-down will change to present the commands available to that Object.

In the demonstration on the left, the PerimeterPatrol object has been selected as the **object to control**. Thus, when this event is triggered, the action will be to command the PerimeterPatrol object to Arm all (associated zones) – high power.

Note that to issue commands, the user must enter the details used to login to the JVA Perimeter Patrol software.



Note: Only global action can be taken here, and global actions may only apply to **controllers**. For example, **communication channels** cannot be controlled as part of an event action. If one of these objects is selected, there will be no options in the *Command* menu.

#### Advanced

Device	Advanced				
Perform a	ction at the s	tart of th	e event [	•	
Repe	at action every	/ 10se	C ×		
🔲 Don't	run action aga	ain until	10sec	A V	have passed
Schedule	Eve	ery day	•	<b>*</b> ``	2

Choose whether to **perform action at the** start of the event, or once the event triggers have subsided.

The two checkboxes allow the user to set the action to repeat every few seconds, and/or not run for a period after it has triggered.

**Schedule** is a standard CathexisVision schedule, which can be applied to the actions.



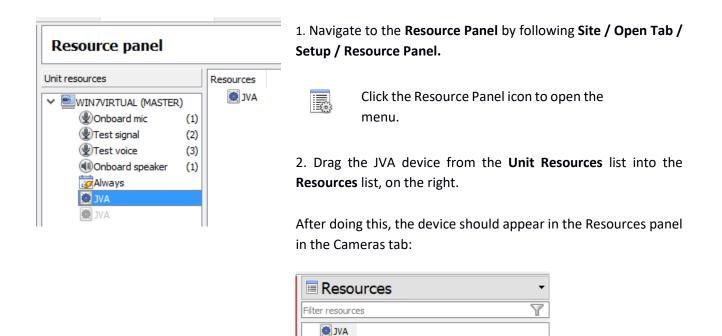
#### **9.** Map

It is possible to add the JVA device to a site map, which will allow for a number of action options when objects are triggered. These options include the animation of triggered zones and connecting to site cameras when zones are triggered, etc.

**Note**: This section will only deal with the specifics of the JVA device. For more information on using the CathexisVision Map Editor and Map Tab, please consult the dedicated and detailed **Map Editor Operation Manual**.

#### 9.1 Add the Device as a Resource

If it has not already been done (see section 6. Cameras Tab), the device must be added as a resource to be added to the map.



#### 9.2 Add the Device to the Map

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

#### 9.2.1 Connect to Site

Resources	I	5
		¢
💧 Doc Site		٦

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



Resources	8
Doc Site	\$
AVL	
AVL 🥘	

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

#### 9.2.2 Adding Device Objects

JVA Perimeter Patrol	۲
Default	
PerimeterPatrol	
Sector 1	
Zone 1	

Drag the JVA device from the Site Resources list onto the map area. All of the JVA 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**: Perimeter Patrol objects do not support Map functionality. Only Zone and sector objects function on maps.

#### 9.3 Adding Device Actions

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

Edit actions...

Or, right-click the map object and select.

🧭 Actions - Ne	emtek		? ×	Actions may be set for Left/Right- Clicks, State Changes and Events.
On Left Click	On State Change Details	On Event		See descriptions below.
				Once configured, the list of actions will populate the white space in the relevant tabs.           New         To create a new action, select
New	Edit Delet	e	☆ 🕹	New.
		ОК	Cancel	



#### 9.3.1 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.
On Event	When a device object event occurs, the associated map action will be triggered. Event types change depending on the selected object.

#### 9.3.1.1 Action Options



Click New in the relevant tab of the action window.

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

🤣 New actio	?	×	
Target state:	AC failure		•
Action	Connect to a site Connect to a site		-
Edit	Perform an animation Goto 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 mer	nu	

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.

**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.

#### 9.4 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.



## **10.** Conclusion

This app-note was designed to deal specifically with this integration. For further information about the CathexisVision software please consult the main manual (<u>http://cathexisvideo.com/</u>).

For support please contact <a href="mailto:support@cat.co.za">support@cat.co.za</a>.