

# inMotion Seeker Metal Detector Integration

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# **1** Introduction

This document will detail the integration of the inMotion Seeker Metal Detector, with CathexisVision's software. Functionally this integration will entail the triggering of standard CathexisVision Events, based on the triggers from the inMotion device.

#### <u>Requirements</u>

There are two inMotion hardware devices. One has a USB interface which does serial communication, and the other has an Ethernet/Network port. See below for the requirements for the two device types.

#### inMotion Seeker Serial (USB) Requirements

- CathexisVision 2016 Service Pack 3 and later.
- Windows only.

#### inMotion Seeker IP Relay (Ethernet) Requirements

- CathexisVision 2016 Service Pack 3 and later.
- Windows and Linux

#### Notes:

1. If you need information regarding the regular operation of an inMotion device, please consult the relevant documentation.

### a. License requirements

The Cathexis inMotion integration license requirements are as follows:

License Name	License Description
CISM-1001	inMotion Seeker metal detector.
CISM-2000	inMotion Seeker metal detector device.
CISM-3000	inMotion Seeker metal detector bundle.

# **b.** 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 you add an integration to the CathexisVision system, you add a device. The messages received from the device are called Device Events.
- **Objects** Objects are the individual pieces of hardware that comprise the integration. You may have 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.

# Integration Features

This metal detector is designed to detect concealed weapons, carried by people entering a secure area.

Connection type	USB serial port or Ethernet/Network
Polling rate	Information is sent to CathexisVision every 3.3 ms
Display type	Data is displayed in CathexisVision via an overlay,
	which is placed over a CathexisVision video feed.

#### **Objects: Sensor**

- Sensor states displayed: Normal, Alarmed.
- Commands:
  - Setting the **sensitivity** of the sensor.
  - **Reset** the sensor. The sensor will reboot, and the sensitivity will return to the default.
  - Setting the **threshold** sets the value above which an event will occur.

#### Overlay:

- The overlays are configurable (position/colour).
- The sensor states are displayed on the overlay.

#### Integration Database:

- All device events are entered in the database.
- Multiple cameras can be assigned to a single sensor, and viewed in the database.
- Events can be filtered in the integration database.

#### **Device Offline:**

• When the connection is lost you will get an offline status and, once it comes back online, the device calibrates itself.

#### **Multiple Sensors:**

• Able to configure multiple sensors.

# 2 Device Addition and Configuration

# a. Introduction

This section will detail the procedure for setting up the two systems to effectively communicate with each other.

# b. CathexisVision Specific Seeker Setup (Set up the Seeker device)

The inMotion Seeker integration integrates using either a built in USB to Serial converter , or an Ethernet/Network port.

# c. Devices Section (Add a New Device in CathexisVision)

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:

#### The Integrations Panel



### S4 - Win7 - Integration devices

#### Devices

Name	Driver	New device
Cat EIO Counter	Cathexis EIO3148 Counter	
Galaxy	Galaxy alarm panel	Edit device
inMotion SEEKER	InMotion SEEKER	Delete device
LPR	Cathexis LPR	
Woolworth POS	Woolworths POS	
		5 items

You will notice two sections in the Integration Panel:

The **Devices** list will list the integration devices that are attached to your server.

The **Configuration** section enables you to edit/review, the device which you have selected in the **Devices** section.

#### Configuration of 'inMotion SEEKER'

Object configuration	Object properties	Device event	s I			
Object type 🏾 🧩 All ob	vjects 🔹	•				
Туре	ID	Name	<b>*</b>			
Sensor	1	1	u			
Sensor	2	2	A			
۰						
New Edit Delete 6 items						

#### • Device Addition

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

Name inMotion Seeker	Name the device.
Name Configuration (Solution Configuration Configuration Edit Edit Delete	Edit to edit an existing channel.
Settings	To use the Legacy API, check
OK Cancel	

#### • Add a Channel

When adding a new channel, the option is to connect using either the USB interface or the Ethernet/Network Port.

#### **IMPORTANT NOTE:**

Because there are **two hardware devices** for the inMotion Seeker Integration, the next section on adding channels will **vary depending on your connection type**, i.e., whether the hardware used connects using USB Serial Port or IP Relay (Ethernet/Network).

Therefore, only add the channel type that matches your specific hardware. See below.

Name Chan	nel name
Type Serial Use CC Connect	▼ DM 1 ▼ using a ESP 1204 ▼ at on port 1 ♀
Baud Data bits Parity Stop bits Flow control	115200 <b>v</b> 8 <b>v</b> None <b>v</b> 1 <b>v</b>
	OK Cancel

1. Add a Channel using Serial USB Interface

Give your channel a descriptive Name.

Select the **Type**: Serial.

Select the **COM port**. (explained below this table).

Make sure that your **Baud rate**, **Data bits** settings etc. all match those set up on the Seeker device.

Note: this device cannot connect using an ESP.

#### **COM Port Selection**

To see which is the correct Com port, follow these steps:

- 1. Open the Computer Manager: Windows Start Menu -> Right Click on Computer -> Left-Click on Manage.
- 2. Use the Device Manager: in the Computer Manager, click on Device Manager.
- 3. The device will show up as <sup>TOUSB Serial Port (COM6)</sup>, under the **Ports** heading in the **Device Manager**.

2. Add a Channel using IP Relay (Ethernet/Network)

New ch	annel	_		×			
	New channel						
Edit chan	nel settings			· Scol			
Name TCP	4470 - inMotion Seeker						
Type TCP	outgoing 🔻						
IP address	192.168.33.158						
Port	4470						
		ОК	Can	cel			

Give the channel a descriptive Name.

Select the TCP outgoing **Type**.

Set the IP address of the inMotion Seeker device.

Set the **Port** number. The default is 4470.

<u>Note</u>: The device connected to your network, is configured to receive an IP address from a DHCP server. Refer to the inMotion SEEKER manual on how to configure the device's network address. Not covered in this manual.

# d. 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.** 

# **Object Configuration Tab**

Configuration of 'inMotion SEEKER'						
Object configuration	Object properties	Device events	Object groups	General		
Object type 🔐 All ob	-					
Type	ID	Name	Cameras	Object groups	License	
🐲 Sensor	1				1	
Communication	channel 1	Channel name				

The object configuration tab is the tab where you may view all the individual objects that comprise the integration. The Seeker device has **Sensor**.

#### • Object Configuration Buttons

You may add a new object by clicking on New.

Will open up an existing object for edition.

New

Edit

# • Object Configuration Right-click Options



New will open up the dialogue to add a new object. Disable/Enable allows you to manually enable/disable individual objects. Delete will permanently remove this object from the list.

**Properties** will open up the object properties. You may edit the object from here. (Specifically you will be able to assign cameras to this object, as well as define user access levels for it.)

#### **Properties: Cameras**

dit object   Edit object settings     Name 1     Cameras   Access   Camera 1   MAxis M1013   Image: Camera 1   Maxis M1013   Image: Camera 1   Maxis M1013   Image: Camera 1     Image: Camera 1 </th
Cameras Access Camera 1 Axis M1013

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. To add a camera, click on "Add Camera.

To delete a camera, click on

To change the Seeker overlay settings, click on the

. (Explained below.)

<u>Note</u>: While you can add multiple cameras here, only the first camera added with the object will be linked in the integration database.

<u>Note</u>: If you do not have *continuous recording* set up, on associated cameras, you will run the risk of device objects triggering while the cameras are not recording. To only record cameras, when an object triggers, you will need to set up **Events** that trigger a recording, when one of these objects is activated.

Delete

#### **Properties: Access**

Cameras	Access				
🔽 Use the	e default acc	ess rights f	or 'WeighBridge	e' objects (	Configure default access
View		Level 1	Level 2	Level 3	Level 4
	I	Level 5	Level 6	Level 7	Level 8

Access allows you to protect sensitive objects, by only allowing certain user levels access to them.

Under **View** you will be able to set the access levels.

<u>Note</u>: If you have *Use default access rights* checked, you must make sure that those default rights have been correctly defined. Click on **Configure default access** to do this.

#### • Seeker Overlay Settings

The Seeker integration allows for the information received from the counter to be displayed as an overlay on the camera you assigned to the **counter** object, above.

After clicking on the  $\checkmark$  icon, you will see the **Configure overlays** dialogue. To edit a custom overlay, uncheck the **Use defaults** option, which will expose the overlay options.

**Note**: Both the name of the Sensor and the Sensor Sensitivity will be displayed in the overlay.

onfigure overlays	? 🔀
inMotion Seeker	🖉 🔲 Use defaults
Enable	
Location	Top left 🔻
Graph color 🛛 🔓 🏾	
Axis color	
Threshold color	
Background color	
Text color	
	OK Cancel

**Location** will define where on the camera feed's image the overlay is positioned.

You may define the **Graph**, **Axis**, **Threshold**, **Background**, and **Text** colours.

The settings to the left will look like so. With denomination, counted, and rejection information included in the overlay:



# **Objects Properties Tab**

Object configuration Object properties Device events Object groups General						
Object type 💰 Sensor 🔻						
Name	State	Threshold %	Sensitivity	API Version	Licensed'	ŝm
1		75	0		$\checkmark$	Sensor Reset
1 15 0				Set Sensitivity		
						Set Threshold

The Object properties tab allows you to view the objects, sorted by type. In the case of the Seeker device you will have the options of viewing by **Sensor.** 

#### • Right Click Options

Threshold %	Sensitivity	ADI Varcio
75	Sensor R	eset
	Set Sensitivity	
	Set Thre	shold

There are a number of options available when right-clicking on a **sensor**.

Sensor Reset will reset the sensor.

Click **Set Sensitivity** to set the sensitivity to a level between 1 and 5.

Click Set Threshold to set the threshold to a percentage (0-100).

### **Device Events Tab**

Object configuration	rties Device events	
Seeker 💌	Sensor II	D Description
a second and the second se	10000	Normal
2016-04-08 11:44:03.		
2016-04-08 11:44:03. 2016-04-08 11:43:59. 2016-04-08 11:43:41.	425 1	Calibrating

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.

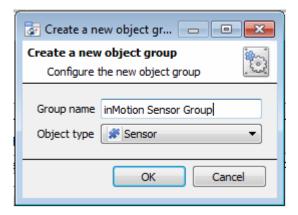
# Groups Tab

Configuration of 'Texe	com Demo'			
Object configuration	Object properties	Device events	Groups	General
Group 🕼 Texecom G	roup 1 🔻 🎽 🎽	×		
Available objects				Objects in 'Texecom Group 1' group
Name	×			Name
			\$	

You can create groups of the same type of object.

<u>**Tip:**</u> 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.)

#### • Create a Group



To create/edit a Seeker group click on  $\bigcirc$  /  $\square$ . (<u>Note</u>: Once a group has been created, you may not edit the object type of the group.)

Give the group a descriptive Group name.

Click on the drop-down menu to select the **Object type** that you would like to group.

onfiguration of 'inMo	tion SEEKER'				_
Object configuration	Object properties	Device	events	Object groups	General
Group 🕼 inMotion Sensor Group 🔻 🎽 🎽					
Available objects	*			in 'inMotion Sen	sor Group' group
Name			Name		
1			3		
2					

You will then see a list of Available Objects. To add/remove these objects to the group select them (you may select multiple at a time), and click on  $\frac{1}{2}/\frac{1}{2}$ .

# <u>General tab</u>

Configuration of 'Texecom Demo'				
Object configuration	Object properties	Device events	Groups	General
Integration database	Texecom Premier	6		
E Configure integra	tion databases			
General settings				

Currently the general tab deals with the **Integration database**. Here you will be able to select an existing database, or you will be able to configure a new database for your integration.

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

#### • Configure a new database

E Configure integration databases

If there is no database created yet, clicking on this button will take you to the integration database setup.

#### Initialise the Integration Database

Integration database setu	0	The first time you add to initialise this featu database, within wh integrated device's da
Initialise i	integration database	
		Select the unit you wi
		on the left, and click to choose which part and select how much
Connected t	to unit Virtual 5043a	Partition
	Close	Total space available
		Disk space allocated to inte

d an integration database you will have ure on the unit. This will add a broad hich you will be adding all of your atabases.

ish to add the database to, from the list Initialise integration database . You will have tition the database will be formed on, space it will take up. C:\ (C:\)  $\mathbf{T}$ 0124 MD

rotal apace available	0104100	
Disk space allocated to integration database	1000MB	

#### Add a New Device Database

After initialisation, you will be able to add the database for the integration that you are working with. Click on New

the button, at the bottom of the Create database window.

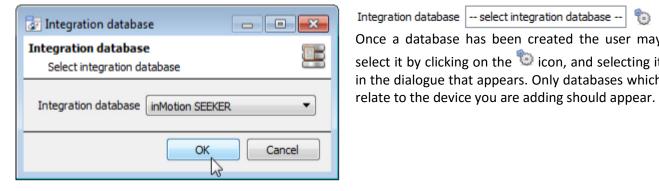
🐼 Create database	?	6
Database name	inMotion SEEKER	וכ
Size (Max: 500 MB)	100 MB	3
Driver	inMotion SEEKER (1.1.1)	•
	OK Cancel	

Give your Integration database a descriptive Database Name. e.g. Seeker Integration database.

Allocate a Size to your new device database.

Choose the device **Driver** that your device will be using, And click on OK to create the database.

#### Select the Seeker Integration Database



Integration database -- select integration database --3 Once a database has been created the user may select it by clicking on the 😳 icon, and selecting it in the dialogue that appears. Only databases which

#### General Settings

Under General Settings, the graph resolution may be configured. Please see below.

<ul> <li>General settings</li> </ul>		?	×
Settings ≷			
Graph resolution 1000	0 ≑		
	ОК	Cance	I

The data coming from the device ranges between 0 and 5000.

In this window, set an upper limit to the data displayed on the graph. If the data is higher it will be set to this value, whereas data below this value will be scaled linearly.

# **3** Database

# a. Introduction

The database tab will allow you to navigate the databased entries, for 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 entry has an associated recording you will also be able to launch this recording, from within the database tab.

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

The inMotion Seeker database is information rich. This is an example of some of the layout. With the database entries in the left panel, the associated video review panel in the middle, and meta-data information in the panel on the right.

#### CathexisVision 2016 - 5043d3\_RC8 🖃 S4 - Win7 🛛 🕺 S4 - Win7 🔍 🗮 S4 - Win7 🔀 🔍 🛛 -- No EasySearch -- 🔻 View All sorted by Time 6 Sensor Description Links Time Axis Q1615 2016-04-08 Time 2016-04-08 10:04:17 10:04:17 1 Alarm Sensor 2016-04-08 10:04:17 1 Normal 1 Descript 2016-04-08 10:04:19 1 Alarm . 2016-04-08 10:04:21 1 Normal . 2016-04-08 10:04:21 1 Alarm -2016-04-08 10:04:21 1 Normal . 2016-04-08 10:04:21 1 Alarm . 2016-04-08 10:04:23 1 Normal . . 2016-04-08 10:04:36 1 Alarm ks. 4 davs 2016-04-08 10:04:36 1 Normal 2016-04-08 10:04:57 1 Alarm 16-04-08 10:04:58 16-04-08 10:04:59 . 1 Normal . 1 Alarm 2016-04-08 10:05:01 . 1 Normal . 2016-04-08 10:05:01 1 Alarm 2016-04-08 10:05:01 . 1 Normal 2016-04-08 10:05:25 . 1 Alarm 2016/04/26 15:14:07.286 2016-04-08 10:05:26 1 Norma . . 2016-04-08 10:06:37 1 Alarm Fri, 8 2016-04-08 10:06:38 1 Normal . Axis O1615 2016-04-08 10:06:57 1 Alarm . 8 Apr 10 04 16 2016-04-08 10:06:58 1 Normal D 🖸 🖸 10s 🔻 x1 🔻 🖸 🔣 🔀 💽 . 1 2016-04-08 10:07:01 1 Alarm 8 (3) M 4 (도 + + + 한 🗄 🔢 H . Goto Time 2016/05/03 ≑ 11:50:09 AM 0 Connected to unit S4 - Win7 🔔 admin (Administrator) 🛛 🦁 CathexisVision Pro 🛛 Supplied by Cathexis Internal 🜆 🊷 🧭 🖂 🦫

#### **Database Overview**

# b. Navigate to the Database

Site Tools Settings Help	<u> </u>
Copen tab	Cameras
Close site's tabs	Databases

You may view the information stored in the Integration database, by following the path you see to the left.

This will take you to the Database Tab.



From 2016.2 onwards, when the database tab opens you will have to 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:



# c. Database Interface



(1) View	You may change the way that your database is presented. Some integration databases			
	have multiple view options. The Seeker database has All.			
<sup>(2)</sup> Sorted By	You may sort the Events based on the following parameters: Time.			
<sup>3</sup> Easy Search	The easy search option allows you to quickly search the database within one of the			
- Lasy Scarch	following options: Sensor, and Description.			
4 Filter T	Filter offers a more advanced manner of sorting information in the Integration Database			
- Filler	table.			
	Once you have the filters dialogue open you will have the following options:			
	1. To <b>enable</b> filters check this box: 🔽 Enable filters			
	2. To <b>add</b> a new filter click on $\overline{6}$ .			
	The filter icon 🍸 will change to 🐱 when filters are active.			
	3. To <b>delete</b> an added filter click on <b>6</b> .			
	The options in this integration are Sensor, Time, and Description.			
	<u>Note</u> :			
	1. You may run multiple filters simultaneously. And you may even filter using the			
	same parameter more than once.			
	2. To change a filter click on the blue hyperlinked text. (For example, click on			
	Timestamp to change the filter from Timestamp, to any of the other available			
	options.)			
5 Go to Time	This will allow you to go to a specific point in time, down to the second. To navigate to a			
	timestamp set the time using the time and date boxes, and then click on the $ ightarrow$ icon.			

# **4** Events

# a. Introduction

A CathexisVision Event has a trigger, which causes an action. You may set integrated devices to act at triggers, or as actions. This document will detail the Seeker specific aspects of Events. 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 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.

#### Event Window

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. In the **Triggers Tab** the trigger/s for the event is defined. In the **Actions Tab** the action/s which the event takes is defined. In the **Resources Tab** the various site resources which can be used as part of an event are defined.

🐷 Door Event			$\times$
Edit Event Door Event			233
General     Triggers     Actions     Resources       Use standard triggers     to trigger the event			
Start actions when       ^     Description       Schedule	6	New	
		Edit Delete	
		No items	
Stop actions <u>after</u> 20sec 🔹 🗋 or when select input 🔻 <u>goes high</u>			
On re-trigger stop and restart active event Only trigger event when select input  is high			
[	OK	Can	cel

# b. Creating an Event

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



#### • While/When and Any/All

When triggering on an object you will have the option to trigger **while/when** a trigger is active. You 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 inmotion seeker to trigger the event
Trigger using <u>any sensor</u>
Start actions when any of the following device events occur

As usual, to change these settings click on the related, blue, hyperlinks.

# c. 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).

#### Set your device as the trigger

Use <u>inm</u>	<i>otion seeker</i> to trigger the e	If you are creating a new event, the trigger type will default to:
Trigg	standard triggers	Use standard triggers . To define which device you want to trigger the event,
Stari	trigger template	click on the hyperlink after "use". To set it as the Seeker device, click on the
Des	lpr	hyperlink, and select the relevant device name from the dropdown menu.
	galaxy	
	woolworth pos	
	inmotion seeker	

# <u>Trigger Types (Trigger Using)</u>

Use *inmotion seeker* to trigger the event

Trigger using	any se	ensor		_
Start actions	*	any sensor		<u>cur</u>
Description	*	specific sensor	۲	-
	ų.	Communication channels		
		any device event		

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

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

**Object in group...** If you have set up a group it will appear here in this list.

**Communication channels** will trigger only on the Communication channels.

**Specific Sensor** will trigger on an event from the specific object selected.

Any device event will trigger on any event that occurs on the device. Within the "any device event" setup you may set "device event rules" which will constrain which device events will trigger the event. Note for group triggers: If you want this event to be databased under the name of a specific object, and not the name of the triggering group, you will need to modify the Description field in the **General tab** of the Event setup. Click on the 😨 to see a list of available descriptions.

# <u>Define Your Trigger</u>

After selecting a master trigger type, you will need to add a trigger to the event. Click on in the Triggers tab. This will bring up the dialogue box you see below, for the various trigger types:

🐷 New device event trigger	- • •
New device event trigger Configure settings	
Event Seeker  Schedule Always  The event must also match <u>any</u> of the following rules	
Description  Description' equals Alarm	New Edit Delete
	1 item
ОК	Cancel

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

<u>Note</u>: You may set multiple constraints (**Device Event Triggers**). If you do not define a constraint, 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>and</u>, or <u>and</u> constraints need to be fulfilled to set off a trigger.

😺 New device event	t rule 🗖 🗖	
New device event re Configure settings		23
Description equals	Adjusting 🔻	1
	Adjusting	
	Booting Calibrating	el
	Charging Normal	
	Device Offline	1

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 will show you the rules options.

<u>Note</u>: When all available options are known to CathexisVision you will see a drop-down menu. When these variables are not pre-defined you will need to fill them in yourself. The information pulled through to the events is information sent to CathexisVision from the Seeker device, see the Seeker settings for the strings needed here.

# d. Actions

#### New Event

New event	i	
General	Triggers	Actions
Î De	escription	

# New Action

1	lew	
5	Record camera	
1	Record trigger cameras	
👩 Control Texecom Panel		

Once you have defined the triggers that are going to initiate your event, you will need to define some Actions. With many integrations there will be the option to control the integrated device, as one of the actions.

The Seeker allows for control of Sensor objects.

To create a new Event Action click on New

Select **Control inMotion\_device\_name** if you wish to control this device with the CathexisVision event.

Control device	- • •
Control device	(and
Configure command	
Device Advanced Object to control select object Command	
OK	Cancel

Control device
Select the object to control
Sensor 1 2 3

Clicking on the icon will bring up a list of the Seeker objects which may be controlled by this event.

Click on the **Command** options drop-down menu, to see all the options which CathexisVision can control on the selected object.

# 5 Conclusion

Please remember that this appnote 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>