

ACTpro 4000 Access Control Integration Document

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1 Introduction

This document will detail the integration of the ACTpro 4000 access control solution, with CathexisVision software. Functionally this integration will entail the triggering of standard CathexisVision Events, based on the triggers from the ACT device.

Requirements

- CathexisVision 2015 Service Pack 2 and later.
- Windows 7 64bit and later, Windows Server 2008 R2 and later.
- CathexisVision ACT Server.
- ACTEnterprise 1.3.0.4 software.
- Minimum of 4 GB of RAM required.

Note:

- 1. If you need information regarding the regular operation of an ACTpro 4000 device, please consult the relevant ACT documentation.
- 2. There is a General Integration section in the main CathexisVision manual. It has vital information about creating an integration database, as well as a general introduction to the Integration Panel. **Read over this section**.

a. License Requirements

CACC-2000	Access control Device license	FEATURE_CATVISION_ACCESS
CACC-1001	Access control single door	FEATURE_CATVISION_ACCESS_DOOR
	license	
CACC-3000	Access control device bundle	FEATURE_CATVISION_ACCESS,
	license (unlimited doors)	FEATURE_CATVISION_ACCESS_DOOR_UNLIMITED

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 object.

2 Device Addition and Configuration

a. Introduction

This section will detail the procedure for setting up systems to effectively communicate with each other. The ACT integration requires that you have the ACTEnterprise 1.3.0.4 software, and the CathexisVision ATC server running, on the same computer.

b. CathexisVision Specific ACT Setup

There are a number of things that you will have to set up before you can successfully add an ACT device to your CathexisVision. The following all need to be installed on the same computer:

- 1. ACTEnterprise 1.3.0.4 software.
- 2. CathexisVision ACT Server. (Contact support@cat.co.za for this software.)

<u>CathexisVision ACT Server Setup</u>

The CathexisVision server will communicate between the ACT database, and the CathexisVision software.



Once the server is installed, you can open via the desktop shortcut:



Setup the server



While the server is running you will not be able to change the setting from the defaults.

Click on **Stop**, in order to change these.



Once the server has stopped you may change the port to whichever port you need.

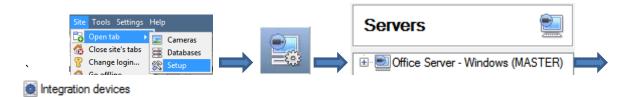
<u>Note</u>: These details will be needed again, for when you add the integration device to the CathexisVision software.

The default username for the server is **Administrator.** There is no password for this default user.

c. 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

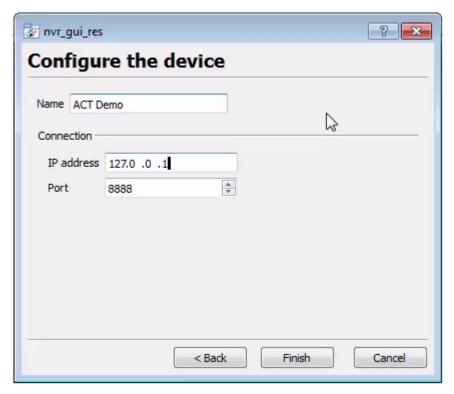


You will notice two sections in the Integration Panel:

- 1. The **devices** list will list the integration devices that are attached to your integration database.
- 2. The **Configuration** section enables you to edit/review, the device which you have selected in the **devices** section.

• Device Addition

- 1. Once in the Integration Panel, in the devices section, click on New device. This will open the addition window.
- 2. Select ACT access control from the list.



Give your device a descriptive **name**.

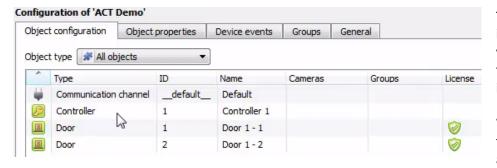
Set the **IP** address to the computer that has the ACT server, and ACT software running on it. (In the demo here, this unit is also running CathexisVision, so the loopback IP address has been given.)

The **Port** number *must match* the port number that was entered into the CathexisVision ACT server, above.

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



The object configuration tab is the tab where you may view all the individual objects that comprise the integration.

With the ACT integration all the devices should automatically be populated.

• Object Configuration Buttons

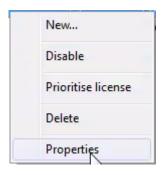
Delete

New
You may add a new object by clicking on New.

Edit
Will open up an existing object for edition.

Is used to delete an existing object from the CathexisVision configuration.

• 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 nodes.

Prioritise allows the user to give specific objects priority, when licenses are applied. (Useful, if you currently have less licenses, than you have 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



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, and select the relevant camera from the drop-down menu.

To delete a camera click on ...

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

Properties: Access



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

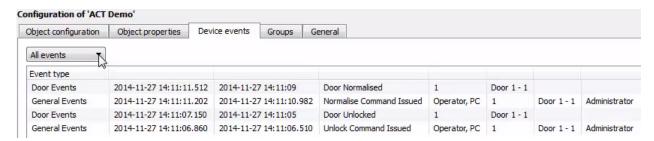
You will see a list of objects, whose access level you may set.

<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.

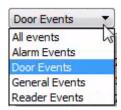
Objects Properties Tab

The Object properties tab allows you to view the objects, sorted by type. In the case of the ACT device you will have the options of viewing by **Controller**, and **Door**. Right clicking on an object will give you further options for each object.

Device Events Tab

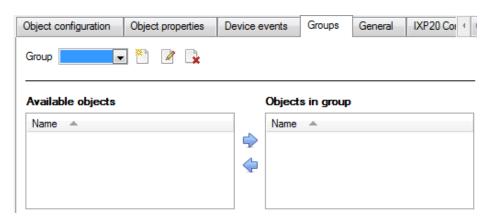


The Device Events tab, lists real time events happening on this device. It is an excellent way for installers to see that the integration is functioning, and to monitor the live events happening on site.



If you have too many events to easily sort through, or are only interested in a specific subset of events, you have the option to sort the events by object type. The image to the left identifies the specific sorting objects available in the ACT integration.

Groups Tab

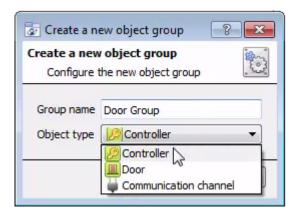


You can create groups of the same type of object.

<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 zones/partitions in that group is triggered.)

• Create a Group

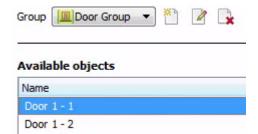
To create/edit a group click on (Note: Once a group has been created, you may not edit the object type of the group.)



When creating a group you will select what object type to include in the group. Once the group is created the available objects panel will fill up with all available objects of that type. From this list you will choose which objects you want to use in your 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.



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 \bigcirc / \bigcirc .

General tab

Currently the general tab deals with the integration database. Here you will be able to select a pre-created database, or you will be able to configure a new database.

• Select an Integration database

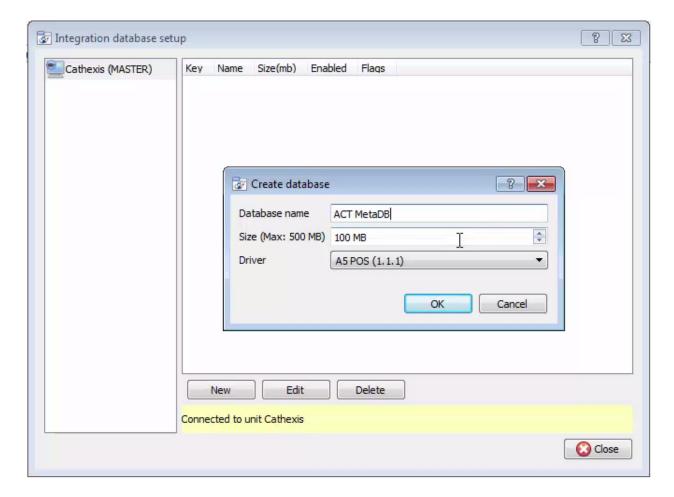
Integration database Access To select a database click on and select the relevant database. Only databases which relate to the device you are adding should appear.

• Configure a new database



If there is no database created yet, clicking on this button will take you to the integration database setup, as in the image below:

Name the database, set the size and select the applicable driver.



A successfully added integration database will show up in the list like so:

Key	Name	Size(mb)	Enabled	Flags
24	ACT MetaDB	100	Yes	

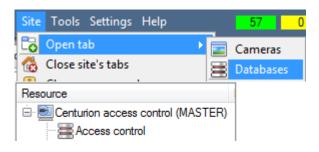
3 Database

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.

b. Navigate to the Database

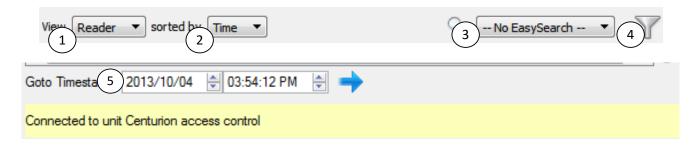


You may view the information stored in the Integration database, by following the path you see to the left. This will take you to the Database Tab.

Once in the databases tab you will have to select the relevant integration database. The databases are ordered under the NVRs that they are attached to. An ACT database will look like so:



c. Database Interface



① View	You may change the way that your database is presented. Some integration databases
	have multiple view options. The ACT database has sorting options of Reader and Door.
② Sorted By	You may sort the Events based on the following parameters: Time .
3 Easy Search	The easy search option allows you to quickly search the database within one of the
	following options: User.
4 Filter T	Filter offers a more advanced manner of sorting information in the Integration Database

table. You are able to filter based on the following parameters: time, ID, and description. Once you have the filters dialogue open you will have the following options: 1. To enable filters check this box: Enable filters 2. To **add** a new filter click on 6. The filter icon will change to when filters are active. 3. To **delete** an added filter click on **6**. The ACT device offers the following filter options: Door ID is equal to Time Door ID Location Event Username Note: 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 <u>Timestamp</u> to change the filter from Timestamp, to any of the other available

⑤ Go to Time

options.)

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 the click on the icon.

Viewing an Entry's Associated Recording



If you have attached cameras to device objects in the Integration setup, and have set these cameras up to record continuously, each Integration database entry will have a corresponding recording. To view a databased event's recording double click it. A floating replay window will appear, from which you may review and archive video content.

will give you the view as shown on the left.

will break down the image into 4 sequential frame viewers.

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 ACT 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.

b. Creating and Event

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



- 1. Once in Events management click on New . This will open up the New Event window.
- 2. Once in this window, select the Triggers tab and click on the hyper link titled, standard triggers.
 - a. From the menu that drops down, left-click the ACT device that you want to trigger the event with.

• While/When and Any/All

When triggering on a door 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 set-off an event.

Trigger using <u>Door 3</u>

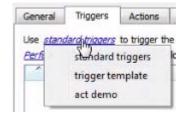
<u>Perform actions while any</u> of the properties meet the following criteria

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).

<u>Set your device as the trigger</u>

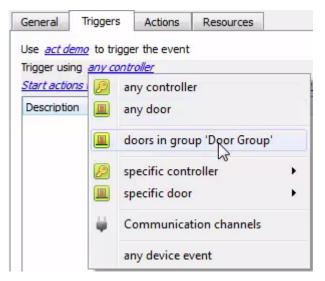


If you are creating a new event, the trigger type will default to:

Use <u>standard triggers</u>. To define which device you want to trigger the event, click on the hyperlink after "use". To set it as the ACT device, click on the hyperlink, and select the relevant device name from the dropdown menu.

Trigger Types (Trigger Using)

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



Any controller/door. Will trigger on any of the doors/controller that you choose.

Specific controller/door. Will trigger on a specific door/controller, chosen by the user.

Group options, will trigger based on the groups that you setup in the Integration addition stage.

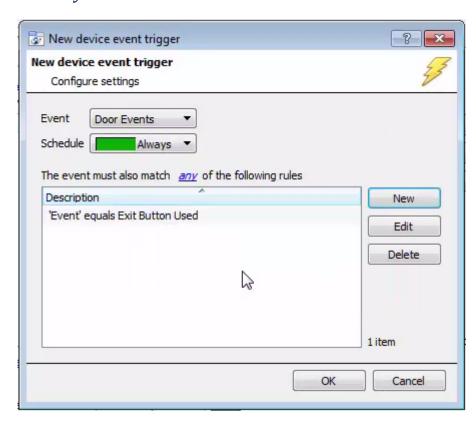
Any device event will trigger, initially, when any event occurs on the device. Within the "any device event" setup you may set "device event rules" which will constrain which events will trigger the event.

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. Here is an example which will database the text "Door Name" along with the name of the *door object* that triggered the event:

Description Door Name: \$obj_name

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

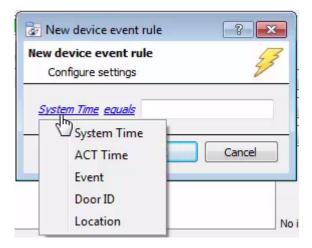
• Any Device Event



For example within the any device event option you may choose what type of device Event will be your trigger. Choose from the drop-down menu. The ACT device offers Alarm, Door, General and Reader Events.

Note: You may set multiple constraints. Choosing if (a), or constraints need to be fulfilled to set off a trigger. If you do not define a constraint literally every single device event will trigger this event.

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



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 ACT device. See either the ACT settings, or the **Integration devices** —> **Device Events**, for the strings needed here.

• Any Door/Fence

The non-**Any Device Event** triggers have a slightly different setup window. In these instances you do not need to set constraints, since you are essentially adding them one at a time. This option is better if you have a select few triggers that you want to use.



Since you are only using one type of object to trigger the event in this instance, the dialogue will appear as the **New Device Event Rule** window did previously.

Note: this is true for groups too, since a group may only be made up of one object type.

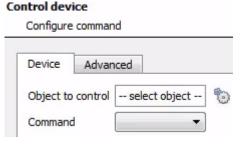
d. Actions

Once you have defined the triggers that are going to initiate your event, you will need to define some Actions. The ACT integration allows for control of the ACT device via the CathexisVision interface.

Add an ACT Control Action



Navigate to the **Actions** tab in the Event, click on **New**, and select your ACT device from the dropdown menu.

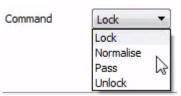


Once the Act device dialogue is open, click on the control icon to retrieve a list of ACT objects that are open to the CathexisVision system for control.



and click on **OK**.

Select the object you wish to control,



After you have selected your object the **Command** drop down menu, will be populated with the available commands.

In this instance, you may pass any of the commands, to the left, to the ACT door that was chosen in the previous step.

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 (http://cathexisvideo.com/).

For support please contact support@cat.co.za