

Mettler Toledo Scale (UC3) Integration App-note



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1. Introduction

This document will detail the integration of the Mettler Toledo Scale UC3 Device with the CathexisVision software. This scale uses the UC3 interface. Functionally this integration will entail the recording of data and triggering of standard CathexisVision Events, based on data and triggers received from the Mettler Toledo Scale UC3 device.

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.**

1.1. General Requirements

- CathexisVision 2020.4 Service Pack 2 and later.
- Mettler Scale UC3 compatible with the Standard Interface Command Set (SICS).

Note:

- 1. For information regarding the regular operation of a Mettler Toledo Scale UC3 device, please consult the relevant Mettler documentation.
- 2. This is a multi-channel integration and data is sent over an RS232 serial connection.

1.2. License Requirements

The Mettler Scale integration license requirements are as follows:

License	Name	Description
CMUC-2000	Mettler Scale (UC3) device	This is the "base" license to integrate with a scale system. It is applied to the server to which the scale device is connected. It will allow for the connection of a Mettler scale system.
CMUC-1001	Mettler Scale (UC3)	These licenses apply to the scales in a scale system. The CMUC-1001 will license a single scale, and may be added on a scale-by-scale basis.
CMUC-3000	Mettler Scale (SICS) bundle	This license includes the CMUC-2000 Mettler scale device license, and also provides support for unlimited CMUC-1001 scale licenses.

Note: In this integration, individual scales will require a **CMUC-1001** license for each scale.



1.3 Integration Components

All CathexisVision integrations have two component levels: **Device** and **Object**.

Device	The device is CathexisVision software's interface, which handles all the interaction between CathexisVision and the integrated hardware. When an integration is added to the CathexisVision system, a device is added. The messages received from the device are called Device Events.
Objects	Objects are the individual pieces of hardware that comprise the integration. There may be multiple "object types" under the objects group. For example, the main controller and door nodes of an access control system are both objects. They are different types of objects.

1.4 Features and Abilities

- CathexisVision receives event messages from the Scale device.
- System and scale device event messages can be used to trigger a CathexisVision system event.

1.4.1 Device Objects

Object Type		Feature
General Object Features		 Relevant Till objects populate when CathexisVision receives device event messages. Displays information about the associated Till. Till events on the device can be used to trigger CathexisVision system and map events. Supports camera overlays.
Object Properties Scale	 Name. State. Serial Number. Type. Version. Licensed. 	
	States	Connected.Disconnected.
	Licensed	True.False.
	Commands N/A. Scale cannot be commanded.	
Communication Channel	Object Properties	 Name of communication channel. Channel status. Details. Creation type. Creation time. Idle time (min).



Commands	N/A. Communication channel cannot be commanded.
	• Up.
Status	Down.

1.4.2 Device Events

Event Element Features/Abilities		Features/Abilities
 Event messages generated by the device event messages in Cather. These device event messages of system events. The following device event messages the device and displayed in the 		 system events. The following device event messages are received from the device and displayed in the CathexisVision device events tab and integration metadatabase:
	Start of Transaction	Transaction Number.Scale ID.Sales Person.
Device Events	End of Transaction	 Transaction Number. Scale ID. Number of Items. Total.
	Item Specific	 Transaction Number. Department Number. Scale ID. Product Information. Weight. Base price per unit. Price to Pay.
• CathexisVision Event Actions		CathexisVision, and can be used to create CathexisVision system events.

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	 All device events are sent to the integration metadatabase. Database entries include the footage from cameras linked to device objects. Multiple cameras may be linked to multiple objects. Device event metadata is displayed where applicable. Databased device events may be viewed in the embedded video player, which includes the standard CathexisVision video review tools. 	
View Options	Weight.Products.Transaction.	
Sort Options	 Time Note: The available sort options depend on the selected view. 	
Easy Search	 The metadatabase may be searched for: Transaction No. Scale ID. Salesperson. Total. Note: The available sort options depend on the selected view.	
Filter	 The metadatabase may be filtered according to: Time. Transaction No. Scale ID. Number of items. Total. Note: The available sort options depend on the selected view.	
Export	Database entries may be exported in CSV and PDF format.	

1.4.4 Maps

The CathexisVision GUI provides for configurable site maps that feature multi-layered, hierarchical, interactive interfaces providing representation and control of a site and its resources. The table below highlights some features.

Map Element	Features/Abilities		
	 Device objects can be embedded in a site map, which offers multiple action options when: 		
General	 Messages are received from the device, 		
General	 The device triggers an event, 		
	 The user manually initiates a map action. 		
	 System and Scale objects support map functionality. 		



- All device objects may be set to trigger a map action if the user leftclicks on map.
- System object may be set to trigger a map action if a state change message is received from the device.
- Scale object may be set to trigger a map action if a device event message generated by the device is received.
- All device objects may be set to perform a map action if any event occurs on the device.
- Device objects, which can be configured to trigger CathexisVision events, may also be set to perform a map action when specific CathexisVision events are triggered.

When triggered (see above), objects may perform the following map actions (where applicable):

- Connect to a site.
- Perform an animation.
- Go to a camera preset.
- Load a map.
- Set a PTZ relay output.
- Show a popup menu.
- Set a relay output.
- Show an HTML block.
- Show a block of text.
- Show a device popup menu.

Map Actions Options

Map Action Triggers



2. Device Addition and Configuration

This section will detail the procedure for adding and configuring a Mettler Toledo Scale UC3 device to CathexisVision.

2.1 CathexisVision Specific Mettler Setup

Communication is done entirely via FTP over a network connection. The connection works as follows:

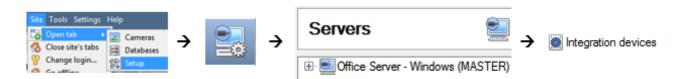
- 1. The following FTP details are defined on the Mettler system:
 - Username
 - Password
 - Port
 - IP Address (this is the IP address of the NVR running the integration)
- 2. In Cathexis, the integration is set up with the according details (as above).
- 3. Cathexis receives receipt data from Mettler on this FTP connection.

2.2 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:

2.2.1 The Integration Panel

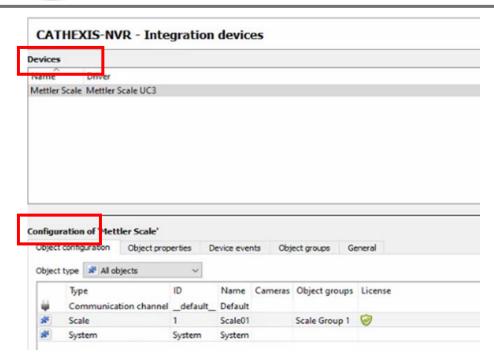
To get to the Integration Panel, follow this path: Site / Open tab / Setup / Configuration icon / Server / Integration devices.



There are two sections in the Integration Panel:

- 1. The **Devices** list shows the integration devices attached to the integration database.
- 2. The **Configuration** section enables editing/reviewing the device selected in the **Devices** section.

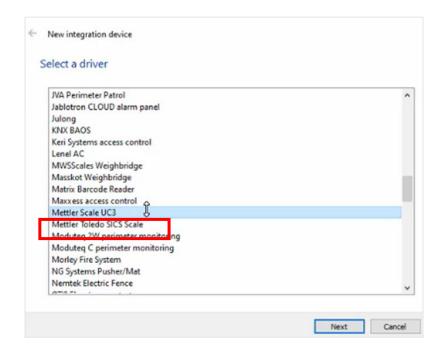




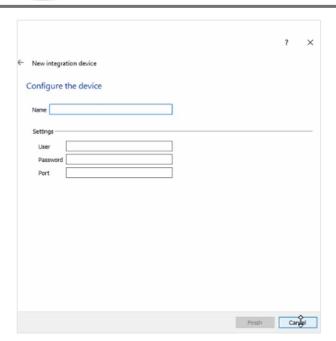
2.2.2 Device Addition



- 1. Once in the Integration Panel, click on New device in the Devices section. This will open the addition dialogue.
- 2. Select Mettler Scale UC3 driver from the list.







Give the device a descriptive name.

Add **New**, **Edit**, or **Delete** channels from the device by using the buttons on the right side of the configuration window.

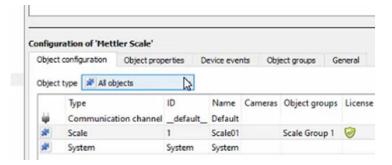
Once added, the device objects and information should populate automatically.

2.3 Configuration Section (Tabs)

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

2.3.1 Object Configuration Tab

Communication channel and Scale objects are automatically added when the NVR receives transactions from the Mettler scale. They can also be manually added by clicking on **New** and selecting **Scale** from the **Type** drop-down menu options, after which the option to add cameras to the scale will also be available.

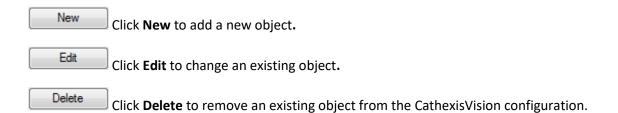


The object configuration tab is where all the individual objects that comprise the integration may be viewed.

The Mettler Integration has two object types: **Communication Channel** and **Scale**.



2.3.1.1 Object Configuration Buttons



2.3.1.2 Object Configuration Right-click Options



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

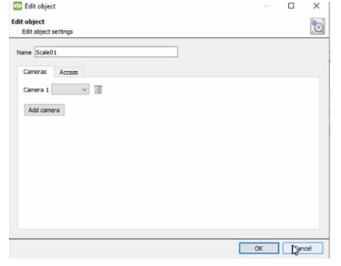
Disable/Enable allows manual enable/disable of individual objects.

Delete will permanently remove this object from the list.

Properties will open up the object properties. Objects may be edited from here. (Specifically, cameras may be assigned to this object and user access levels may be defined 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.



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



To edit the overlays, click the settings icon. See below.



To delete a camera, click on the trash icon.

Note:

- 1. Multiple cameras may be added here and all cameras added with the object will be linked in the integration database. They are individually selected on review.
- 2. If **continuous recording** is not set up on associated cameras, it 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.



Properties: Access



Access protects sensitive objects by only allowing certain user levels access to them.

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

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.

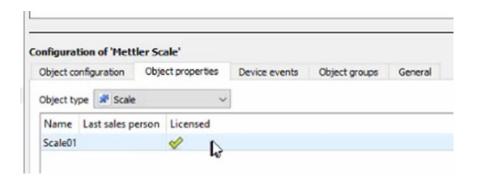
2.3.2 Objects Properties Tab

Object properties may be viewed for either Scale or Communication Channel objects.

Please see the below sections for details on each object type.

2.3.2.1 Scale Object Properties

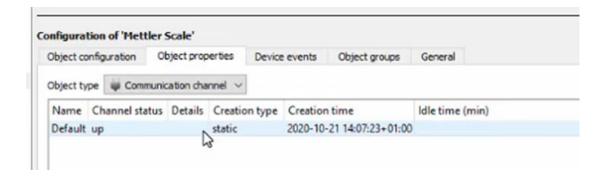
When the Scale object is selected in the Properties tab, the objects will be displayed as seen below:



- The Name of the Scale object will be displayed.
- The **State** column will show the state of the Scale object.
- The Serial number column indicates the serial number of the Scale object.
- The **Type** of the Scale object.
- The Scale object Version.
- The Licensed column displays whether or not the Scale object is licensed in CathexisVision.



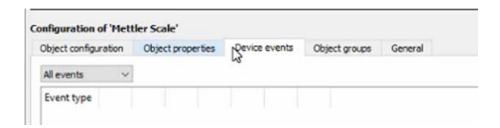
2.3.2.2 Communication Channel Object Properties



Column Name	Description	
Name	The name of the Communication channel object.	
Channel status	The Channel status of the Communication channel object: either up or down.	
Details	The Details of the Communication channel object.	
Creation type	The Creation type of the Communication channel object.	
Creation time	The Creation time of the Communication channel object.	
Idle time (min)	The Idle time (min) of the Communication channel object.	

2.3.3 Device Events Tab

The Device events tab lists real-time events happening on this device. Installers can ensure that the integration is functioning, and monitor the Events happening on site.



2.3.3.1 Event Type Options

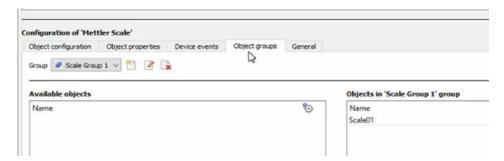


Once an Event type is selected from the dropdown menu, the column headings will be displayed according to the specific device Event.



2.4.4 Object Groups Tab

Groups of the same type of object can be created (e.g. groups of doors).



Tip: 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.)

2.4.4.1 Create a Group

- To create a group, click on this icon.
- To edit a group, click on this icon.
- To **delete** a group, click on this icon.

When creating or editing a group, new dialogue box will pop up.



Give the group a descriptive **Group name.**

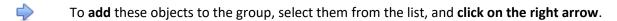
Click on the drop-down menu to select the **Object type** for grouping.

A list of Available Objects will then populate. To add/remove these objects, select (multiple may be selected at a time), and click on .

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

2.4.4.2 Add or Remove Objects

After creating a group, a list of all the available objects for that group will be displayed in the Available objects panel, on the left-hand side. These are ready to be added to the group.



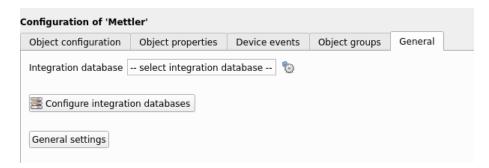
To **remove** these objects from the group, select them and **click on the left arrow**.

Note: Multiple objects may be selected at a time.



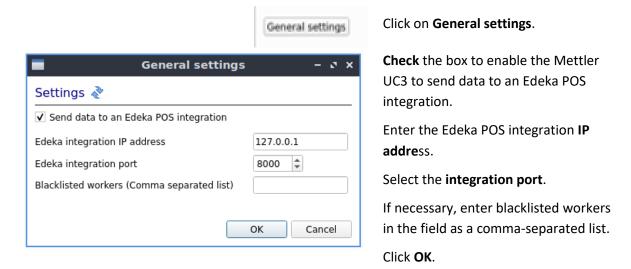
2.4.5 General Tab

Currently the general tab deals with the **Integration database**. Here an existing database can be selected, or a new integration database may be configured.



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

2.4.5.1 Configure Mettler Integration to Send Events to Edeka POS



Note: This option is supported in CathexisVision 2023.1 and later.

2.4.5.2 Configure a New Database



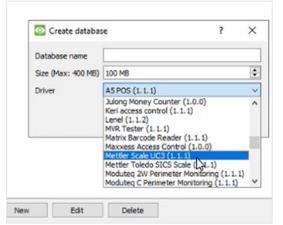
If there is no database created yet, clicking on this button will begin the integration database setup.



Configure Integration Database



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

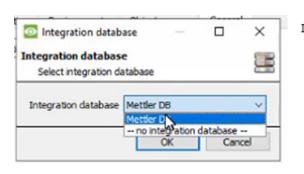


Give the database a name.

Set the database Size.

Select the **Mettler Scale UC3** driver from the drop-down menu.

Select the Integration Database



Integration database -- select integration database --



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

dialogue that appears.

Only databases which relate to the

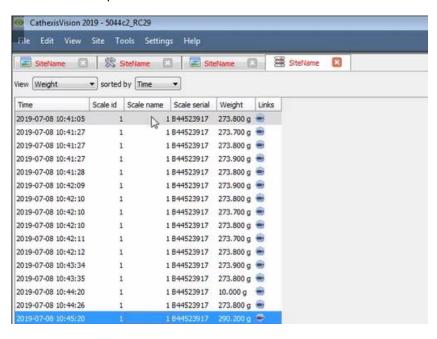
current device should appear.

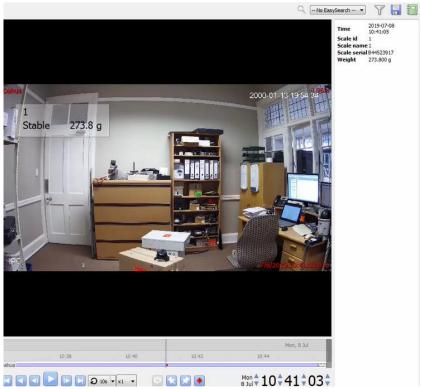


3. Database

The database tab will allow navigation of 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, it can be launched 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 Mettler scale database is information rich. This is an example of some of the information that is included.







3.1 Navigate to the Database



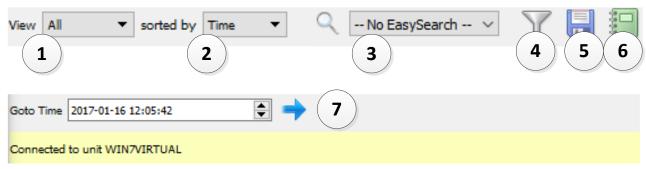
To open the Database tab, follow **Site / Open tab / Databases**.

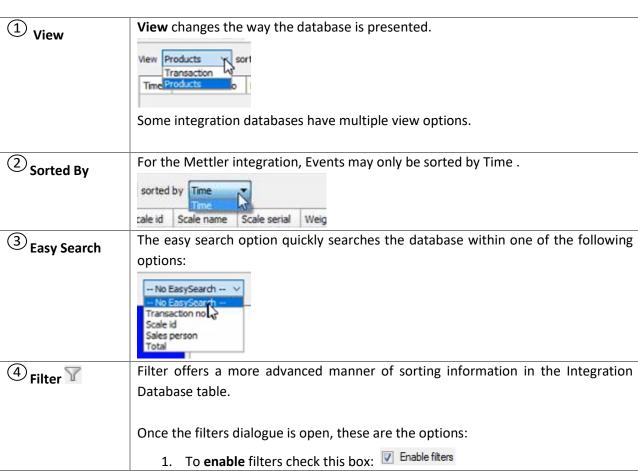
When the database tab opens, select the relevant integration database from the database panel that opens on the left-hand side. The databases are ordered under the NVRs that they are attached to.

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

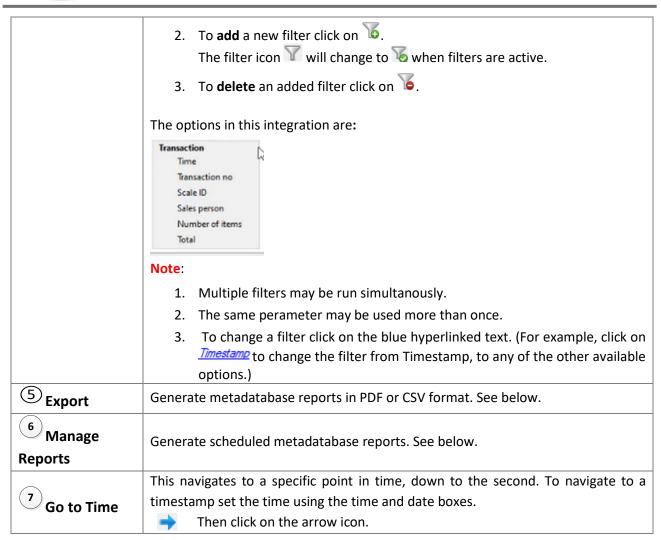


3.2 Database Interface



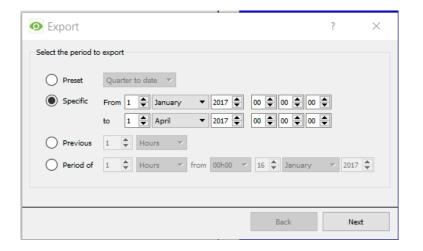






3.2.1 Generate Metadatabase Reports

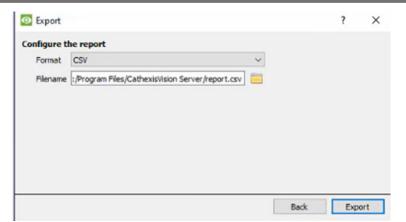
Click the save icon to open the Export window.



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

Click Next.





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

See below for the two options.

3.2.1.1 Export CSV



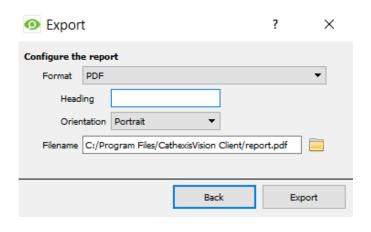
Select CSV Format.

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



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

3.2.1.2 Export PDF



Select PDF Format.

Give the PDF a **Heading**.

Select either Landscape or Portrait **Orientation** of the PDF.

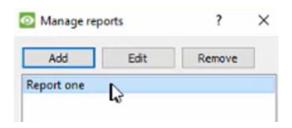
Edit the **Filename** by either entering it straight into text field (replacing **report.pdf)**.



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

3.2.2 Manage Reports

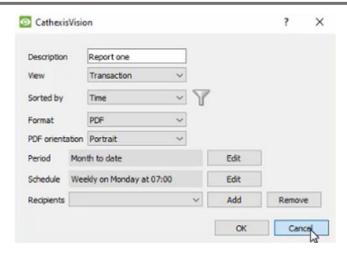
Metadatabase reports may be auto-generated according to a user-defined schedule.



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

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





Give the report a descriptive **name**.

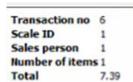
Select the default presentation of the database entries by selecting desired options for **View** and **Sort** Index.

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

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

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

3.2.3 Metadata

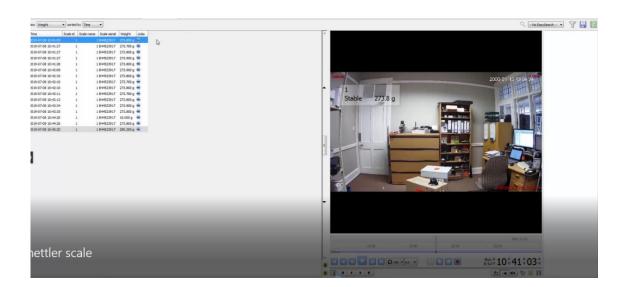


On the right side of the database, metadata about the Event entry is displayed.

3.2.4 Viewing an Entry's Associated Recording

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

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





4. Events

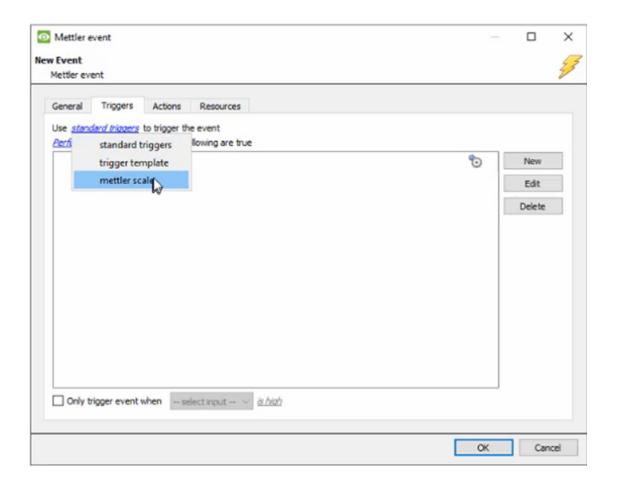
A CathexisVision Event has a trigger, which causes an action. Integrated devices can be set to act at triggers, or as actions. This document will detail the aspects of Events specific to the Mettler device. There is a comprehensive guide to CathexisVision Events in the main setup manual.

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.

4.1 Event Window

Events in CathexisVision are set up via the Event Window, which has four 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.





4.2 Creating an Event

To create an event using the Mettler device, navigate to Events by following the sequence: **Open Tab / Setup / Servers / Master Server / Events**. This is shown below.

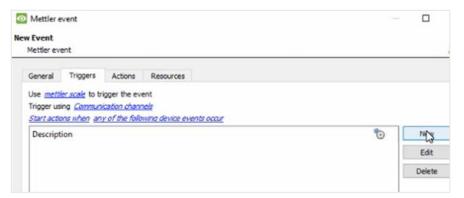


New

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

4.2.1 While/When and Any/All

When triggering on an object, there is an option to trigger while/when a trigger is active. Multiple triggers may be selected, and it should be defined whether all/any of the triggers need to be active to start an Event.



To change these settings click on the related, blue hyperlinks.

4.3 Triggers

A trigger is the user defined input that prompts the Event to start. The trigger causes the subsequent action, which the user will also define.

4.3.1 Set the Device as the Trigger



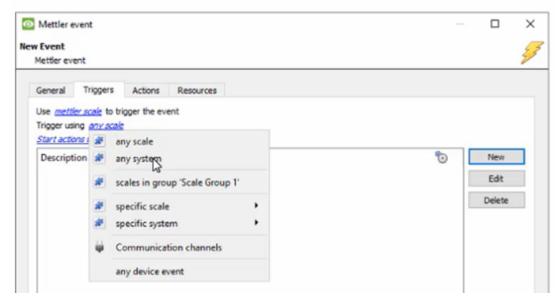
Use Mettler to trigger an Event. If creating a new Event, the trigger type will default to: Use standard triggers.

To define which device will trigger the Event, click on the hyperlink after "use". To set it as the Mettler device, click on the hyperlink, and select the relevant device name from the drop-down menu.



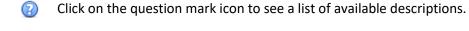
4.3.2 Trigger Types (Trigger Using)

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



Menu Option	Description of Trigger Type	
Any scale	will trigger when any of these objects sends the selected trigger.	
Scales in group 1	will trigger when any of these objects sends the selected trigger.	
Specific scale	will trigger an Event from the specific object selected.	
Communication channels	nels will trigger only on the Communication channels.	
	will trigger on any Event that occurs on the device. Within the "any device	
Any device Event	Event" setup, set "device Event rules", which will constrain which device	
	Events will trigger the Event.	

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



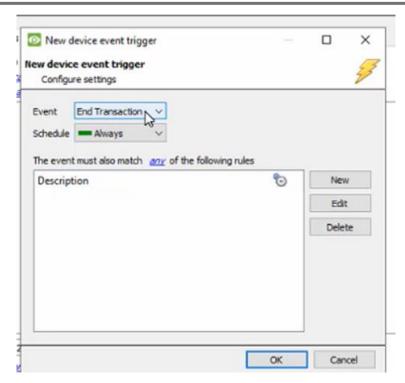
4.3.3 Define the Trigger

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



Click on New in the Triggers tab. This will bring up the dialogue box below, for the various trigger types:



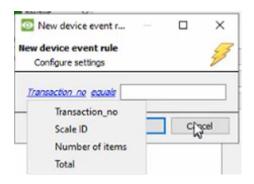


For example, within the <u>any device event</u> option, choose what type of device Event will be the trigger. Choose an Event type from the drop-down menu.

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

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

Note: Multiple constraints (**Device Event Triggers**) may be set. If a constraint is not defined, every single device Event will trigger this Event.



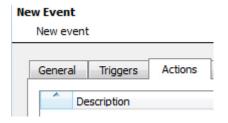
To change the constraint, click on the first hyperlink, this will bring up the full list of available rules.

To modify the way this rule will be treated click on the second hyperlink (*equals* in the example) this will show display the rules options.

Note: When all available options are known to CathexisVision, a drop-down menu will appear. 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 Mettler device, see the Mettler settings for the strings needed here.

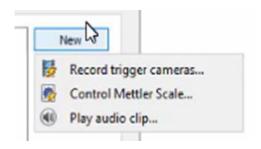


4.4 Actions



Once the triggers that are going to initiate the Event have been defined, define some Actions.

4.4.1 New Action



New

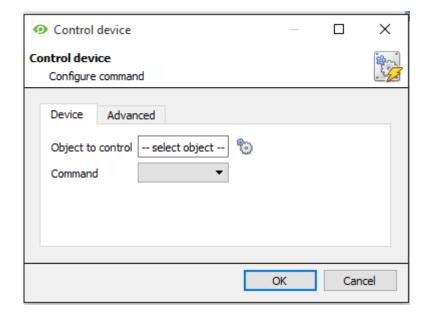
To create a new Event Action, click on New.

Select one of the actions from the drop-down menu, and then follow the directions in the windows that pop up.

Note: With many integrations there will be the option to control the integrated device, as one of the actions. The Mettler device may not be controlled unless the Mettler Scale UC3 integration is also connected.

4.4.2 Control Mettler Device

Although this option is presented, it is not possible to control the Mettler scale device as a CathexisVision action.





5. Maps

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

Online/Offline state changes. System Object:		
System Object.	CathexisVision system Event triggers.	
Scale:	CathexisVision system Event triggers.	

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

5.1 Add the Device as a Resource

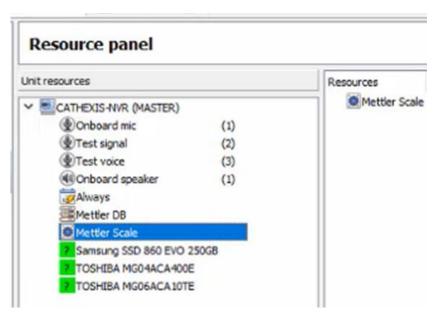
If this has not already been done, the device must be added as a resource to be added to the map.

5.1.1 Resources Panel

Navigate to the Resource Panel by following the path: Site / Open Tab / Setup / Resource Panel.



Click the **Resource panel** icon to select.



Drag the Mettler device from the **Unit Resources** list into the **Resources** list, on the right.



5.2 Add the Device to the Map

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

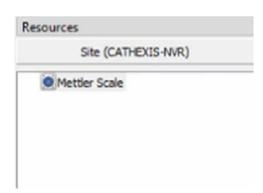
5.2.1 Connect to Site



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

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

5.2.2 Adding Device Objects



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

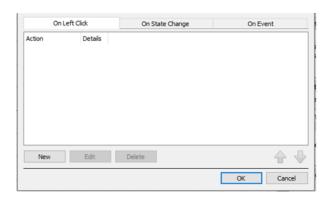
Note: To add multiple objects, repeatedly drag-and-drop the device onto the map area and select the desired objects individually.

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

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

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



To create a new action, select New.

5.3.1 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.

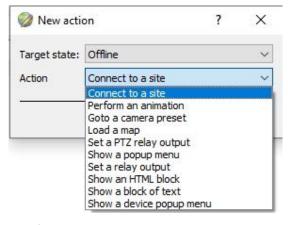
Tab	Map Action Trigger Detail
On Left Click	Left-clicking on the object in the map will trigger an associated map action.
	See below for actions.
On State Change	When the state of the selected object changes, the map action will occur.
	State change options will differ according to the selected object.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

5.3.2 Action Options



Click New in the relevant tab of the action window.

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



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

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

Once finished, save the map.

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



5.4 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.



6. Conclusion

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

For support, email support@cat.co.za.

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.

USEFUL LINKS

To view **tutorial videos** on CathexisVision setup, visit https://cathexisvideo.com/resources/videos

Find answers to Cathexis Frequently Asked Questions: https://cathexis.crisp.help/en/?1557129162258