



Mettler Toledo Scale (UC3)

White Paper



Contents

1. Introduction.....	3
1.1 Integration Purpose.....	3
1.2 Requirements	3
1.2.1 General Requirements.....	3
1.2.2 CathexisVision License Requirements	3
1.3 Integration Components	4
2. Features and Abilities	5
2.1 General Device Features.....	5
2.2 Device Objects	5
2.3 Device Events.....	6
2.4 Metadatabase.....	7
2.5 Maps	8
3. Conclusion	9

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 details the features/abilities of the Mettler Toledo Scale (UC3) when integrated with the CathesisVision software. This scale uses the UC3 interface. Functionally, this integration will include the triggering of standard CathesisVision system events, based on information received from the device.

For instructions on installation or configuration of the integration, please consult the **Mettler Toledo Scale (UC3) Integration App-note**, available on the Cathesis website, and/or the **CathesisVision Setup Manual**.

1.1 Integration Purpose

The Mettler Toledo UC3 is a POS that weighs items and prints a receipt showing the quantity, price and name of the items. It does not take payments itself. It is accessed by store staff, not the general public.

1.2 Requirements

1.2.1 General Requirements

- Windows 10 Pro.
- CathesisVision 2020.4 Service Pack 2 and later.
- Cathesis NVR 64-bit.

Note:

1. For information regarding the regular operation Mettler Toledo UC3 device, please consult the relevant Mettler documentation.
2. Data is sent over an RS232 serial connection.

1.2.2 CathesisVision License Requirements

License	Name	Description
CMUC-2000	Mettler Scale (UC3) device	This license 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 CathesisVision integrations have two component levels: **Device** and **Object**.

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

A NOTE ON CAMERA CHANNELS

The CathesisVision 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 CathesisVision 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.



2. Features and Abilities

This section indicates the Mettler Toledo UC3 Scale integration features.

2.1 General Device Features

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

2.2 Device Objects

Object Type		Feature
General Object Features		<ul style="list-style-type: none"> • Relevant Till objects populate when CathesisVision receives device event messages. • Displays information about the associated Till. • Till events on the device can be used to trigger CathesisVision system and map events. • Supports camera overlays.
Scale	Object Properties	<ul style="list-style-type: none"> • Name. • State. • Serial Number. • Type. • Version. • Licensed.
	States	<ul style="list-style-type: none"> • Connected. • Disconnected.
	Licensed	<ul style="list-style-type: none"> • True. • False.
	Commands	N/A. Scale cannot be commanded.
Communication Channel	Object Properties	<ul style="list-style-type: none"> • Name of communication channel. • Channel status. • Details. • Creation type. • Creation time. • Idle time (min).
	Commands	N/A. Communication channel cannot be commanded.
	Status	<ul style="list-style-type: none"> • Up. • Down.



2.3 Device Events

Event Element		Features/Abilities
General		<ul style="list-style-type: none"> • Event messages generated by the device will generate device event messages in CathesisVision. • These device event messages can be used to trigger system events. • The following device event messages are received from the device and displayed in the CathesisVision device events tab and integration metadatabase:
Device Events	Start of Transaction	<ul style="list-style-type: none"> • Transaction Number. • Scale ID. • Sales Person.
	End of Transaction	<ul style="list-style-type: none"> • Transaction Number. • Scale ID. • Number of Items. • Total.
	Item Specific	<ul style="list-style-type: none"> • Transaction Number. • Department Number. • Scale ID. • Product Information. • Weight. • Base price per unit. • Price to Pay.
CathesisVision Event Actions		<ul style="list-style-type: none"> • Events generated by the device are reflected in CathesisVision, and can be used to create CathesisVision system events. • The device and device objects cannot be controlled as part of the system events.



2.4 Metadatabase

A unique metadatabase is created on the CathesisVision 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 style="list-style-type: none"> • 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 CathesisVision video review tools.
View Options	<ul style="list-style-type: none"> • Weight • Products • Transaction
Sort Options	<ul style="list-style-type: none"> • Time <p>Note: The available sort options depend on the selected view.</p>
Easy Search	<p>The metadatabase may be searched for:</p> <ul style="list-style-type: none"> • Transaction No. • Scale ID. • Salesperson. • Total. <p>Note: The available sort options depend on the selected view.</p>
Filter	<p>The metadatabase may be filtered according to:</p> <ul style="list-style-type: none"> • Time. • Transaction No. • Scale ID. • Number of items. • Total. <p>Note: The available sort options depend on the selected view.</p>
Export	<p>Database entries may be exported in CSV and PDF format.</p>

2.5 Maps

The CathesisVision 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
<p>General</p>	<ul style="list-style-type: none"> • Device objects can be embedded in a site map, which offers multiple action options when: <ul style="list-style-type: none"> ○ Messages are received from the device, ○ The device triggers an event, ○ The user manually initiates a map action. • System and Scale objects support map functionality.
<p>Map Action Triggers</p>	<ul style="list-style-type: none"> • All device objects may be set to trigger a map action if the user left-clicks on map. • System object may be set to trigger a map action if a state change message is received from the device. • 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 CathesisVision events, may also be set to perform a map action when specific CathesisVision events are triggered.
<p>Map Actions Options</p>	<p>When triggered (see above), objects may perform the following map actions (where applicable):</p> <ul style="list-style-type: none"> • 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.



3. Conclusion

This document was designed to deal specifically with this integration. For further information regarding CathexisVision software, please consult the main manual (<http://cathexisvideo.com/>).

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

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>

