



Mettler Toledo Scale (SICS) Integration White Paper



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1. Introduction

This document indicates the features/abilities of the Mettler Toledo Scale Integration with CathesisVision. This integration uses SICS (Standard Interface Command Set) interface.

For a detailed guide on the installation and configuration of the Mettler Toledo Scale device with CathesisVision please refer to the **Mettler Toledo Scale (SICS) App-note**, available on the Cathesis website.

1.1 Integration Purpose

Functionally, this integration will entail the triggering of standard CathesisVision Events, based on the triggers from the Mettler Toledo Scale device.

1.2 Requirements

1.2.1 General Requirements

- CathesisVision 2019 Service Pack 2 and later.
- Mettler Toledo compatible with the Standard Interface Command Set (SICS).

Note:

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

1.2.2 License Requirements

The Mettler scale integration license requirements are as follows:

License No.	License Name	Description
CMET-2000	Mettler scale (SICS)	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.
CMET-1001	Mettler scale (SICS) device	These licenses apply to the scales in a scale system. The CMET-1001 will license a single scale, and may be added on a scale-by-scale basis.
CMET-3000	Mettler scale (SICS) bundle	This license includes the CMET-2000 Mettler Toledo scale device license, and also provides support for unlimited CMET-1001 scale licenses.

Note: In this integration, individual scales will require a **CMET-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 features/abilities of the Mettler Toledo Scale (SICS) Integration with CathesisVision software. Functionally, this integration will entail the triggering of standard CathesisVision Events, based on the triggers from the Mettler Toledo device.

2.1 Device Objects

Objects are populated automatically as soon as communication between the Mettler Toledo software and CathesisVision is established.

Object Type		Feature
General Object Features		<ul style="list-style-type: none"> • This integration has Scale and Communication channel objects. • Objects are automatically created as soon as communication between the CathesisVision unit and device is established. • Information about the connected Mettler Toledo system is displayed. • State changes can be used to trigger CathesisVision system events.
Scale	States	<ul style="list-style-type: none"> • Online • Offline
	Object Properties	<ul style="list-style-type: none"> • Name • State • Serial number • Type • Version • Licensed
	Command	<ul style="list-style-type: none"> • N/A. The Mettler device cannot be controlled as a CathesisVision action.
	Overlays	<ul style="list-style-type: none"> • The Device object supports overlays in the camera feed. • Overlays display time. • Overlay location, text size, text colour, and background colour are configurable. • Overlays display scale ID and weight.
	Status	<ul style="list-style-type: none"> • Up. • Down.
	Object Properties	<ul style="list-style-type: none"> • Name • Channel status



		<ul style="list-style-type: none"> • Details • Creation type • Creation time • Idle time (min)
	Commands	<ul style="list-style-type: none"> • N/A. Communication channel cannot be commanded.

2.2 Device Events

The CathesisVision Paxton integration generates reflected in CathesisVision.

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.
Device Event Types	<ul style="list-style-type: none"> • Weight. • Communication.
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.

2.3 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 databased. • Database entries include the footage from the first camera 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 usual CathesisVision video review tools.
View Options	<ul style="list-style-type: none"> • Weight. • Communication.
Sort Options	<ul style="list-style-type: none"> • Time.



<p>Easy Search</p>	<ul style="list-style-type: none"> • Name. • Scale ID. • Scale name. • Scale serial. • Weight.
<p>Filter</p>	<ul style="list-style-type: none"> • Time. • Scale ID. • Scale name. • Scale serial. • Weight.
<p>Export</p>	<p>Database entries may be exported in CSV and PDF format.</p>

2.4 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.

Map Element	Features/Abilities
<p>General</p>	<p>Device objects can be embedded in a site map, which offers multiple action options when messages are received from the device, the device triggers an event, and/or the user manually initiates a map action.</p>
<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. • Some device objects may be set to trigger a map action if a state change message is received from the device. • All device objects may be set to perform a map action if <i>any</i> 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 about the CathexisVision software, consult the main manual (<http://cathexisvideo.com/>).

For support, email 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>

