Titan Weighbridge Integration
White Paper

Contents

1. Introduction

This document indicates the features/abilities of the Titan Weighbridge when integrated with CathexisVision.

For a detailed guide on the installation and configuration of the Titan Weighbridge device with CathexisVision, please refer to the *CathexisVision Titan Weighbridge Integration App-note*, available on the Cathexis website (http://cathexisvideo.com/).

1.1 Integration Purpose

The CathexisVision Titan Weighbridge integration allows CathexisVision to communicate with the Titan weighbridge software. Device objects can be linked to cameras, providing operators with the associated footage. Events are databased and can be searched according to various filters. Operators can configure the device to trigger standard CathexisVision events, allowing for a range of actions.

1.2 Requirements and specifications

1.2.1 General requirements

- CathexisVision 2022.1 and later

- Cathexis NVR 64-bit version supported.

- This integration is supported on Ubuntu 20 and Windows 10 operating system.

- Minimum 4GB of RAM required.

1.2.2 Titan product information

Note: Cathexis makes a best attempt to ensure that the equipment and license requirements of third-party equipment are adequately specified. However, it is possible that the requirements of third-party equipment may change over time, including the interface hardware/firmware and licensing. The user is advised to clarify the latest requirements directly with the third-party equipment supplier.

Third-party software name	Titan
Third-party software version used in testing	Version 2.7.8
Third-party software license required	No Titan license required

1.2.2 CathexisVision license requirements

The CathexisVision Titan Weighbridge integration license requirements are as follows:

License	License Description
CTTN-1001	Titan weighbridge. Required per weighbridge
CTTN-2000	Titan weighbridge device. Base license for connecting into CathexisVision
CTTN-3000	Titan weighbridge bundle. Base License and unlimited weighbridge licenses

Note: in this integration, individual devices will require a license for each device.

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.

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 can be multiple "object types" under the objects group.

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*

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2. Features and Abilities

This section indicates the features/abilities of the Titan software when integrated with CathexisVision.

2.1 Connection type

CathexisVision communicates with the Titan Weighbridge via an IP UDP connection. The default port is 5000.

2.2 Device objects

Device objects populate automatically once communication is established.

Object Type		Abilities
General		- This integration has Weighbridge objects. - Objects are automatically created as soon as communication between the CathexisVision unit and device is established. - Weighbridge objects support overlays, which display the state of the object. - Objects may be linked to cameras to associate device events with video footage.
Weighbridge	Object Properties	- Name - ID - Online - Licensed

2.3 Device events

The CathexisVision Titan Weighbridge integration generates Message events, which are triggered on the device and reflected in CathexisVision.

Event Element		Features/Abilities
General		Events triggered on the device are sent to CathexisVision.
Device Event Types	Message	- Time - ID - Ticket number - Type - Bridge name - Customer, - Shipment number - Truck registration

- Product
- Container
- First mass
- Second mass
- Nett mass

2.4 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 databased. - Database entries include the footage from cameras linked to device objects. - Multiple cameras may be linked to multiple weighbridge objects. - Device event metadata is displayed where applicable. - Databased device events may be viewed in the embedded video player, which includes the usual CathexisVision video review tools.
View Options	Standard
Sort Options	Events can be sorted based on the parameter of **time**.
Easy Search	- Time - Ticket number - Type - Bridge name - Customer - Shipment number - Truck registration - Product - Container - First mass - Second mass - Nett mass
Filter	- Time - Ticket number - Type

	• Bridge name • Customer • Shipment number • Truck registration • Product • Container • First mass • Second mass • Nett mass
Export	Database entries may be exported in CSV and PDF format.

3. Conclusion

This document was designed to deal specifically with this integration. For further information about the CathexisVision software, consult the *CathexisVision Setup Manual* (http://cathexisvideo.com/).

For support, email support@cat.co.za