Zeag Parking System Integration White Paper

Contents

1 Introduction

This document indicates the features/abilities of the Zeag Parking System when integrated with CathexisVision.[1]

a. Integration Purpose

The CathexisVision integration of the Zeag Parking System allows for local and remote monitoring of the parking system from within the CathexisVision interface. The Zeag parking station sends HTTP post messages to the Zeag integration driver in CathexisVision, which generates Gate and Paystation transactions and state change events, and stores them in the integration database. All device objects may be linked to cameras, allowing associated footage to be databased according to the configuration of CathexisVision events and alarms which trigger on information received from the device. CathexisVision only receives information from the system and cannot issue commands.

b. Requirements

CathexisVision Requirements

- CathexisVision 2017.2 and later.

CathexisVision License requirements

The Zeag integration license requirements are as follows:

License Name	License Description
CZPK-2000	Zeag Parking Station license.

Zeag Requirements

- ZMS (Zeag Management System) version 4.5.201.42.[2]

---

[1] 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.

[2] This version was used to configure this integration. Please consult the manufacturer for more information.

2 Features and Abilities

This section details the main features of the integration, and the associated abilities.

a. General Integration Features

Connection

- Zeag system sends HTTP post messages to CathexisVision.
- System parameters need to be configured in ZMS (Zeag Management System) software to match parameters required in CathexisVision.

Integration Objects

- Integration provides gate and paystation transaction and state change events.
- Some device objects can be used to trigger events, and some can be controlled as event actions.
- Device can be embedded in a site map which offers multiple action options when messages are received from the device, and/or the device triggers an event.
- Overlays not supported.

b. Device Objects

Device objects populate automatically once the device is connected and messages are received.

Object Type	Abilities	
Gate	Object Properties	Following object properties are indicated in CathexisVision: • Name of gate, • State of gate, • Region code, • Direction.
Station	Object Properties	Following object properties are indicated in CathexisVision: • Name of station, • State of station, • Region code.

c. Device Events

The ZMS software sends HTTP post messages to the CathexisVision Zeag integration driver which then generates integration device events. These integration device events (such as state changes) may then be used to trigger CathexisVision system events.

Event Element	Features/Abilities
General	• HTTP messages are sent from ZMS to CathexisVision. • Device event types are Gate and Paystation Transactions and State Changes.

CathexisVision System Event Actions	Zeag device events are reflected in CathexisVision and can be used to create CathexisVision system events

d. Meta Database

A unique meta-database 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	• Database entries include the footage from cameras linked to device objects. • Multiple cameras may be linked to multiple objects. • Device event meta-data 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	The meta-database may be viewed by the following options: • Gate Transactions, • Station Transactions, • Gate State Change, • Station State Change, • All.
Sort Options	The meta-database may be sorted by: • Device event time.
Easy Search	The meta-database may be searched specifically for: • Name, • Transaction Type, • Park House Number, • State.
Filter	The meta-database may be filtered according to: • Timestamp, • Name, • Entry Time, • Transaction type, • Ticket number, • Media type, • Rejection code, • Park House Number • L300number, • Status, • State.
Export	Database entries may be exported in CSV and PDF format.

e. Map Features

Map Element	Features/Abilities
General	- 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.
Map Action Triggers	- 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 *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.

Map Actions Options	- When triggered (see above), objects may perform the following map actions (where applicable):
	   o Connect to a site.
	   o Perform an animation.
	   o Go to a camera preset.
	   o Load a map.
	   o Set a PTZ relay output.
	   o Show a popup menu.
	   o Set a relay output.
	   o Show an HTML block.
	   o Show a block of text.
	   o Show a device popup menu.
	   o Show a device event notification.

3 Conclusion

Please remember that this document 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