CathexisVision 2022.2

Release Notes

Contents

1. General Notices

Types	Feature (Addition)	Modification (Change)	Fix (Problem fix)

Note:

I. Further information on the cameras listed in these *Release Notes* should be found here: https://cathexisvideo.com/supported-integrations/cameras/
II. Further information on integrated devices listed in these *Release Notes* should be found here: http://www.cathexisintegrations.com/supported-integrations

1. CathexisVision 2016 is the last major release to support the viewing of wavelet video (and VOM2x10 cards). CathexisVision 2016 software does not support wavelet hardware, but it does allow users to connect to and view wavelet video from earlier versions that do support it, subject to the usual restrictions on backward compatibility.
2. The multisite user interface has been discontinued from 2016 onwards.
3. AVM3000 framegrabbers and SAM1000 encoders are not supported from CathexisVision 2016 onwards.
4. From CathexisVision 2017, the concept of unit groups for a user is no longer supported. Unit groups will be supported for connections to sites running earlier software versions.
5. CathexisVision 2018 is the last release to support the Linux Fedora 16 operating system.
6. From CathexisVision 2018, the user interface may connect to previous versions of CathexisVision Server software, but with a loss of functionality. It is recommended that the viewing software and the recording software be of the same major version.
7. Support for Windows Vista and Windows Server 2008 has been dropped from CathexisVision 2018.3 and onwards.
8. The ID process used for licensing a system running on a virtual machine changed in CathexisVision 2018.
9. 2020 is the last release to support Ubuntu 12.04.
10. CathexisVision 2021 is the last release with a 32-bit installer for Windows. For guidelines on converting 32-bit software to 64-bit, see the relevant document, ***Converting 32-bit Software to 64-bit Software App-note***.
11. The Carbon user interface is supported from CathexisVision 2022 onwards.
12. The new CathexisVision mobile app is supported from CathexisVision 2022 onwards.
13. CathexisVision 2022 is the last release to support Windows 7, Windows 8, Windows 8.1 and Windows Server 2008 R2.
14. The CathexisVision 2022 software can only connect to sites running CathexisVision 2018 and above.

2. Cameras

2.1 Features

	Software Change
1	**Axis cameras** • Added a dropdown option in the advanced tab for the Axis driver to disable the heartbeat. This is on auto by default (which will check if there are cameras that can handle the heart-beat) but can now be turned on and off manually. • Added an option to disable the I/O polling of the device.
2	**Huawei**. Inputs/outputs and camera triggers are now supported.
3	**Mobotix**. Added support for ONVIF edge review and insertion.
4	**ONVIFv2 driver.** Added the "Enable horn speaker settings" option to the ONVIFv2 driver's Advanced options. This prevents a device without any video feeds, such as a horn speaker, showing a video feed error in the resources.
5	Improved performance of the secure HTTP (HTTPS) tunnel by running the server multi-threaded.

2.2 Modifications

	Software Change
1	**ANPR cameras** • **Wisenet FF Group ANPR.** Reverted to previous method of LPR detection and added custom settings (Auto, On, Off). • **Wisenet FF Group ANPR.** Updated the ANPR camera detection with a new CGI command for Wisenet cameras.
2	**Dahua camera driver.** Added Dahua DH-TPC-BF1241 to multi-view list.

2.3 Fixes

	Software Change
1	**Bosch NBN-80052-BA**. Fixed audio out authentication.
2	**Dahua ANPR detection** Advanced settings have been added to camera for ANPR. • The default setting should be Auto. On auto, the camera list should be used, and ANPR should be detected for ANPR cameras in the list. • When ANPR setting is On, the camera *should* be detected as a ANPR camera, whether or not it is a ANPR camera. • When ANPR setting is Off, the camera should *not* be detected as a ANPR camera, whether or not it is a ANPR camera.

3	**Edge insertion** • Fixed an issue where ‘edge insertion’ may get stuck when the inserted frames are too large. • Fixed an issue where the end time of the inserted frames could be incorrectly tracked if the camera went down while footage is being inserted. • Fixed an issue where a deleted camera could cause the file, storing the history of recordings to be inserted, to not be loaded. • Fixed an issue where the camera status was not properly updating at system startup.
4	**Encrypted camera connections** • Added RTSP tunnel header with the aim of helping the proxies handle the streams better by keeping them from caching the transaction. • Fixed connection and communication reliability issue. • Fixed multiple feed streaming for encoders encrypting streams. • Improved stream startup when using camera encryption. • Improved ability to deal with many simultaneous APT/RTSP connections.
5	**ONVIF** • Added a "Use ConstantBitRate numeric bool values" custom function that can be enable in cases where an ONVIF compatible camera requires these values, instead of true/false, to change video feed settings. • Added ONVIF G711A audio support for cameras using this codec. • Fixed audio resource references in 'call basestation' action when 'use trigger resources' is not set. This fixes the initiation of audio call and listen when responding to an alarm.
6	**Samsung** • Removed ‘quality’ as a setting needed to validate a profile for non-JPEG formats. • Fixed a bug where some audio parameters where incorrectly set to their default values. (Samsung SNV-7080)
7	Added support for audio with 11025Hz sample rate. This is typically when playing a .wav file out a camera's audio output.
8	Check applied to verify ‘stall enabled’ in camera technical alarm.
9	Corrected an issue where, after streaming for a long period, some H265 cameras were incorrectly reporting packet loss.

3. Integrations

3.1 Features

	Software Change
1	**The following integrations have been added:** • C-Cure Access Control • Mavili Fire Panel • Southwest Microwave Intrepid POE • ZKTeco Access Control
2	**Mettler Scale UC3.** This integration now supports sending transaction data to the **Edeka POS** integration.
3	**Impro IXP20.** Added 'Enrolment' permission. Enrolment is now also allowed to be initiated from main site menu.
4	**Nedap AC.** Added ‘Provide Access’ command.
5	**Technoswitch Fire Panel**. Added support for multiple camera links in the integration database.

3.2 Modifications

	Software Change
1	**Axis Horn Speakers:** • Support for the Axis C1310-E horn speaker has been added. • A custom function has been added to enable Axis horn speaker compatible settings when an unknown Axis horn speaker is added. • Added a dummy jpeg feed to the Axis C3003-E horn speaker so that the speaker will show as ‘up’ even though it does not have a video feed.
2	**Design International CCTV**. Renamed Design International CCTV integration to Tasicca.
3	**Impro IXP20 access control**. When creating a new user in this integration, the tag will now default to expire in one year.
4	**Lenel**. Added an extra field—SSNO—to this integration's ‘Access Event’. SSNO has also been added to the metadatabase.
5	**RS2 Technologies Access Control.** Added ability to connect to a single site.

3.3 Fixes

	Software Change
1	**Edeka POS** • When determining if a “WaageTransaction” object should be deleted, the time an object was paid for is used, instead of the time the object was weighed. • Added an option which, when enabled, deletes all "WaageTransactions" at midnight.
2	**Gallagher.** Relaxed an overly strict check on a Gallagher API command, which prevented the integration from sending events to Gallagher.
3	**Impro Portal** • Fixed the empty description on the Terminal objects. This fix will require at least Impro Portal version 4.6. • Fixed an API login issue detected in version 4.5.0.1523.62380.
4	**Impro IXP20**. Added support for events on controller firmware version 3.18.
5	**Mettler Scale UC3.** • Added camera overlay. • Fixed a crash when the integration is disabled, and then enabled.
6	**Nemtek**. Fixed an issue sometimes causing the Nemtek integration to lose communication with the FG7 controller.
7	**Paradox Fire Panel.** Fixed an issue that could cause a fire alarm to be displayed incorrectly.
8	**Pelco**. Fixed framerate compliance for floating point numbers to support Pelco decimal number framerates.
9	**Risco Alarm Panel.** Fixed a rare bug that occurred when the panel sent error messages.
10	**Sasco Natal Weighbridge.** Fixed an error in reading the weight. Fixed a possible error after the connection to the weighbridge has gone down.
11	**Technoswitch fire detection**. Changed metadatabase ID column to text.

4. Other

4.1 Features

	Key area	Software Change
1	Analytics	Added day/night level trigger in analytics I, II, III.
2	Analytics	**'Analytics' and basic object classifier algorithms**. Added day/night support to these algorithms and added active period option to day/night settings.
3	Analytics	**'Advanced analytics' and 'basic object classifier'**. Added option to 'Basic object classifier' and 'Advanced analytics' algorithms to metadatabase only 'triggerable' objects.
4	Notifications	Support for pull-point event notifications has been added and will be used to get the initial IO states, IO state updates as well as camera analytics triggers from the cameras. There is an Advanced option to revert to the base event notifications.

4.2 Modifications

	Key area	Software Change
1	Analytics	Enacted speed improvement to object classifier used in advanced analytics.
2	Analytics	**Improved the video decode performance in CathexisVision resulting in:** • Increased video display framerates in CathexisVision User Interface when displaying multiple camera feeds. • Increased performance for analytics on systems with multiple cameras
3	Analytics	Limited the processing resolution of analytics feeds to a width of 720 pixels. The analytics feed from the camera can be higher (configured in system.ini) but this ensures that the feed will be scaled if required. This can be overridden using the system.ini file by changing the `[swdecomp] max_output_width` setting.
4	Analytics	Made internal change to make the 'Basic object classifier' and 'people proximity' algorithms less computationally expensive when running on the CPU.
5	API	**PTZ.** Added API queries for PTZ keys and menu.
6	User Interface	Added support for reference times so that Carbon notifications can vector to the relevant time in the video. For example, ANPR triggers.
7	User Interface	Updated the German translation of the CathexisVision interface

4.3 Fixes

	Key area	Software Change
1	Analytics	Line crossing arrows were updated to visually reflect trigger direction.
2	Analytics	Fixed a rare case where the onboard Intel GPU is supported but not found. Now if not found the target gets set to use the CPU.
3	Analytics	Improvement made to tamper detector to deal with frames corrupted by packet loss.
4	Carbon	Fixed an issue where the media file export was not available from the Carbon archive player.
5	General	**LDAP** • Fixed issue where LDAP failed to connect on Linux • Fixed issue when importing LDAP users on Windows
6	General	Media files where the source video width or height exceeds 8191 pixels are now exportable.
7	General	Increase initial frame buffer sizes for H264 and H265. This fixes a partial frame in the first GOP from the camera
8	User Interface	**Carbon**. Fixed issue so that metadatabase report jobs will terminate when a report is removed.
9	User Interface	**Carbon**. Marked disabled cameras as 'down' in resource status sent to Enterprise.
10	User Interface	**CathexisVision**. Fixed crash in CathexisVision User Interface when handling gateway alarms.