Release Notes CathexisVision 2016.2

Contents

Types	Feature (addition)	Modification	Problem (fix)	Bug (fix)	Removed

Note:

I.   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.

II.   Further information on cameras listed in these Release Notes should be sought here: http://integrations.cathexisvideo.com/supported-i-p-cameras/

III.   Further information on integrated devices listed in these Release Notes should be sought here: http://www.cathexisintegrations.com/supported-integrations/

Update Notices

1.   The multisite user interface will be discontinued from 2016 onwards.

2.   CathexisVision 2016 user interface will be able to connect to CathexisVision 2014 servers, but with a loss of functionality. It is recommended that the viewing software and the recording software be of the same major version.

3.   CathexisVision 2016 will be 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.

4.   AVM3000 framegrabbers and SAM1000 encoders are not supported from CathexisVision 2016 onwards.

5.   CathexisVision 2017 will not support the viewing of wavelet video, whether in live, review or archives.

1 Critical Changes for 2016.2

#	Key area	Software Change	Type
1	Network devices	Fixed a problem that prevented the addition of a generic encoder in CathexisVision 2016.	Fix
2	Network devices	A correction was made to the video format check and the resolution combinations for the various streams.	Modification
3	Network devices	The following critical changes have been made to Grundig cameras: • Allow GOP length to be configured. • Fixed available video resolutions when using multiple streams. • Adjusted presentation time stamp (PTS) frame to compensate for erroneous PTS's coming from the camera, which led to drastic time jumps. • Removed JPEG stream from time correction (the stream was freezing).	Modification

2 Feature Changes for 2016.2

#	Key area	Software Change	Type
1.	Alarms	Fixed dates in current/last week object counting reports on Windows counting servers.	Fix
2.	Alarms	The Hourly and Daily reset counts in the counting overlays have been corrected.	Fix
3.	Alarms	Fixed an issue with SAM3101 and SAM3104 devices where if they were externally powered and the ethernet cable was removed and reinserted within 5 seconds, video streaming could stop.	Fix
4.	Algorithms	If analytics licenses are temporarily removed from a system, when they are added back they will be linked to the original camera.	Modification
5.	API	Added I/O resource monitoring and control for the API and the mobile platforms. **Note**: - iOS mobile support added from CatMobile version 2.4.403. - Android support added from CatMobile version 2.0.169. - Requires port 33104 to be open.	Feature
6.	Archiving	Reduced the chances of connection timeouts when archiving to slow storage devices like (like USB flash drives).	Modification
7.	Archiving	Added the ability to export snapshots from archive viewer via the context menu. This includes the following options: - Printing. - Saving to a folder. - Copying to both the system clipboard and the Cathexis clipboard. - Overlay camera name and time when exporting snapshot.	Feature

8.	Archiving	Allow archiving USB file sync to be disabled on Fedora.
		
		To disable file sync while archiving to USB, add the following section and setting in:
		
		`/usr/nvr/settings/system.ini`:
		
		`[archive]`
		`disable_usb_sync 1`
		
		This is to speed up the writing of archives. However, the user should wait until the write LED on the USB key is off before removing the USB key, or risk losing data during the archive process.
			Modification

9.	Archiving	Fixed issues with missing files in the archive viewer when archiving a 2014 system remotely from a 2016 GUI.	Fix

10.	Archiving	Previously there were issues when burning archived material to optical disc when connecting from a CathexisVision 2016 NVR to a 2014 NVR (Windows units). The following issues have been resolved: • Fixed problem with copying archive viewer to optical disc. • Fixed problem when burning small archives to optical disc by merging in a fix from CathexisVision 2015 which addressed this issue.	Fix
11.	Archiving	The following changes have been made to archiving: • Allow legacy archives to be burned to CD/DVD. • Fixed CD/DVD burning with the standalone viewer.	Fix
12.	Archiving	There have been significant changes to CD burning on Windows and Linux: **Linux** • Third party burning software is no longer used by CathexisVision to burn media to CDs. • CD burning is now handled entirely from within the CathexisVision GUI. **Windows and Linux** • When archiving to CD media, the burn progress is now displayed in the GUI (in both Windows and Linux).	Feature
13.	CatObserver	Fixed missing CatObserver dlls. In the previous 2016.1 release, the missing dlls prevented CatObserver from running.	Fix
14.	Configuration.	Fixed internal camera ID for new frame-grabber cameras. Previously, if new frame-grabber capture cards were added to the system, the cameras were not assigned the correct ID, and would not work.	Fix
15.	Configuration	Fixed an issue when attempting to set the default pulse duration period to greater than 65 seconds. The effective duration would always be shorter than 65 seconds.	Fix
16.	Configuration	Changes made by users are retained when switching between access levels in the access rights setup.	Fix
17.	Configuration	Allow incrementing port/IP address when copying and pasting cameras using the "Generic Encoder" driver (RTSP).	Feature
18.	Configuration	Remove system inputs/outputs when network camera triggers/inputs/outputs are removed. If a trigger/input/output for a network camera was removed the system input/output representing it was not deleted. For example, after deleting a trigger for a network camera the input would still be available in the event trigger setup.	Fix

19.	Core	Fixed an issue where the following jobs failed to run when scheduled for Saturdays: • Scheduled object counting reports. • Scheduled gateway reports. • Scheduled site reports. • Recording period technical alarm.	Fix
20.	Core	Fixed the names of days and months in the timeline and time selector for non-Latin characters (e.g. Arabic).	Fix
21.	Core	Fixed a memory leak occurring when system communications messages are discarded.	Fix
22.	Database	Remove unused database status file dumps to improve performance with very large databases.	Modification
23.	Database	Fixed a potential review stall when playing forward near the end of the recorded period.	Fix
24.	Gateway	Fixed a problem archiving footage to the gateway when the server generating the alarm and the viewer viewing the alarm are the same system, and the gateway is a second system. In this case the archive fails, resulting in a failure to view the archive. The review showed a blue screen.	Fix
25.	Integration	Added Integration driver for Honeywell's Pro-Watch access control software, communicating through their HSDK interface.	Feature
26.	Integration	Added Julong Money Counter integration.	Feature
27.	Integration	Corrected a mistake in the overlay for the Arch POS where 'Tender Amount' and 'Grand Total' were swapped.	Fix
28.	Integration	Made changes to the Ipsotek analytics integration heartbeat where the reboot time was set to 1 minute and the offline timeout was set to 5 minutes.	Feature
29.	Integration	Added integration driver for Lenel Access Control.	Feature
30.	Integration	Added Texecom Premier integration.	Feature
31.	Integration	Added Quido I/O integration device.	Feature
32.	Integration	The following changes have been made to the Impro IXP400 integration: • Now supports a Microsoft SQL Server database in addition to the Firebird database. • The driver will no longer create incorrect terminal objects when a controller goes offline. • The controllers' online/offline states are now detected correctly. • Only the terminals connected to the controller going offline will now be set to Unknown. • Removed the incorrect IP property from the controller object.	Feature
33.	Integration	Fixed an issue with the Impro IXP220 which might cause incoming data to be rejected.	Fix
34.	Integration	Implemented Woolworths POS text stream overlays.	Feature

35.	Integration	Fixed Axis Access Control crashing when the driver restarts (e.g. after driver settings are altered).	Fix
36.	Integration	Change Gallagher integration to use the Gallagher license (CGAL-2000).	Modification
37.	Integration	Added Galaxy v2 Alarm Panel with support for TCP connection. **Note**: The older Galaxy Alarm Panel driver is now available as "**Galaxy Alarm Panel (Legacy)**".	Modification
38.	Integration	Changed a column name in the meta database from "Distace" to "Distance". **Note**: Any previous databases will need to be re-created before this change will take effect.	Fix
39.	I/O	Increased the maximum pulse duration for controlling output event actions from 5 minutes to 1 hour.	Modification
40.	Licensing	Added a license summary to license manager when viewing order/unit licenses.	Modification
41.	Licensing	Added CLTE-1036 and CLTE-1048 product types, and increased the number of cameras on core to 48.	Modification
42.	Logic	The event markings on the timeline are written when an event completes. This is a problem for long running events. The timeline is now updated every minute.	Modification
43.	Map	The following fixes have been made to the Map Editor: - Fixed a crash when setting the state to trigger map action (when editing an existing action). - Fixed 'flashing' dock widgets in map editor when dragging objects onto the map. - Fixed a crash in the map editor when editing show/hide animation. - Fixed crash when modifying the "Fixed Size" or "Font" object property. - Fix "Layers" button in map tab in CathexisVision. The button now correctly hides/shows layers.	Fix

44.	Mobile	The mobile app now supports Presets for PTZ cameras. The following apply: • The user is now able to move the camera to any of the first 9 preset positions on a camera. • The preset selection window is opened by a new button at the bottom-right of the screen. **Note**: The changes are in CatMobile Version 2.4.417.	Feature
45.	Mobile	Added HTML server version 2 support and fixed review performance problems.	Fix
46.	Mobile	Digital zoom can now be controlled by pinching the screen with two fingers. Digital pan can now be controlled by panning on the screen with two fingers.	Feature
47.	Mobile	Disabled cameras are prevented from being displayed in the mobile app.	Fix
48.	Mobile	Correctly set up resolutions with the same height when using legacy camera drivers.	Fix
49.	Network devices	Fixed a problem where if Automatic Firmware Updating was enabled for SAM3's and the firmware did not exist, the system would continually retry and fail programming. Now it will determine the firmware does not exist and simply ignore the update and carry on.	Modification
50.	Network devices	The input and output states of the camera now show as Unknown when the camera is offline.	Modification
51.	Network devices	Added support for RTP over RTSP (TCP) streaming infrastructure. The following changes have been made: • Added live555 RTSP client. • Integrated live555 client into network devices RTSP receiver for use with TCP transport streaming. • Added rtspclientapp test utility. • Added rtsparchiverelay RTSP archive file server.	Feature
52.	Network devices	Added support for the EIO3148 Network Base IO Expander.	Feature
53.	Network devices	To fix support for dual EIO3148 interfaces, the following changes have been added: • Support both http and legacy interface at the same time. • EIO3148 is watchdog'ed. • Fix some i2c interactions.	Feature
54.	Network devices	The following fixes have been applied regarding the Live555 client: • Using Live555 client in LG driver for both RTP/UDP and RTP/TCP. • Discarded audio embedded with JPEG in Live555 client. • Use system time to timestamp frames when using the Live555 Client.	Fix

55.	Network devices	Added Live555 support in 'Generic Encoder' driver. The transport options are as follows: - Default - Cat RTP/UDP - RTP/TCP - Live555 TCP - RTP/UDP - Live555 UDP	Modification
56.	Network devices	Added the Asus 3D camera driver.	Feature
57.	Network devices	Added support for RTP/TCP streaming on the Axis drivers.	Feature
58.	Network devices	Updated the Arecont H264 camera driver.	Feature
59.	Network devices	Added Vista V2 camera driver & support for RTP/TCP for the Vista drivers.	Feature
60.	Network devices	Added Milesight driver.	Feature
61.	Network devices	Added Bosch V2 driver.	Feature
62.	Network devices	Enabled second stream on Hunt cameras if it's disabled.	Fix
63.	Network devices	Fixed a problem with independent audio not restarting after a SAM3 reboot when the camera is down.	Fix
64.	Network devices	The following changes have been made to Hikvision cameras: - Setup multicast IP and port during RTSP negotiation on Hikvision cameras. - Hardcoding the multicast port on the Hikvision DS-2DE5174 to port 8860. - Adding support for audio triggers.	Fix
65.	Network devices	Added support for RTP over TCP using the Hikvision driver.	Modification
66.	Network devices	Added support for the HWI encoder models within the HikVision DS-67xx series.	Fix
67.	Network devices	The following changes have been made to Axis cameras and encoders: - Correctly focus near or far. - Do not enable autofocus by default. - Use one license for the Q6000 camera that has multiple camera heads. - Increasing the number of inputs to 17, where input 17 addresses the "quad" stream. - Address the second serial port on new Axis encoders when using PTZ over the serial port.	Fix

68.	Network devices	The following fixes have been made to LG cameras: • Resolved an issue on LG cameras where the second stream was not correctly configured. • Removed support for multicast on LG cameras as these cameras do not support unicast and multicast simultaneously. • Resolved a motion detection issue in LG driver.	Fix
69.	Network devices	The following changes have been made to the Grundig cameras: • Disabled multicast. • Audio port is read. • The audio data is correctly sent to the camera. • Changed the data size. • Limited the maximum fps to 25 for PAL and 30 for NTSC.	Modification
70.	Network devices	The following changes have been made to Dahua cameras: • Enabling zoom on Dahua IPC-HFW5200. • Increased timeout to cater for some Dahua cameras' longer response times to HTTP requests.	Fix
71.	Network devices	The camera software version is now displayed in the GUI setup of the Asus 3D camera.	Feature
72.	Network devices	Added support for RTP over TCP in the ONVIF driver.	Modification
73.	Network devices	Added support for RTP over TCP in the Grandeye Evolution driver.	Modification
74.	Network devices	Added support for RTP/UDP in the Live555 client.	Modification
75.	Network devices	Added support for the Vista VK2-1080XPTZF.	Modification
76.	Network devices	Fixed UDP relay encoder transmission to an NVR with multiple interfaces.	Fix
77.	Profiling	Fixed the hardware report that shows incorrect RAM size for Windows systems with more than 4GB of RAM.	Fix
78.	Review	Reduced the overall memory required by the review. This change reduces the likelihood of the GUI running short of memory when reviewing high-bitrate/long GOP length video streams.	Fix
79.	Review	Fixed an issue where MPEG2 video recordings with audio enabled would stall the review.	Fix
80.	Review	Fixed a problem where overlays would disappear temporarily after a long (>60s) gap in the review. It was possible that the overlays would take up to 5 seconds to appear directly after the gap. The data was recorded correctly, but the display responded incorrectly.	Fix
81.	Review	Improved review performance with embedded overlay data.	Modification
82.	Review	Fixed issue where, on a busy NetBSD system, the camera names in the event tab may not be present.	Modification

83.	User interface	Fixed the controls presented on the PTZ panel to correctly match the features supported by the PTZ camera.	Fix
84.	User interface	Added Axis T8311 keyboard controller support in CathexisVision (for use in CathexisVision running on Windows only).	Feature
85.	User interface	Added an option to hide privacy zones in camera image.	Feature
86.	User interface	A per-camera access right restricting access to the audio stream associated with a camera has been added. This prevents a user from listening to the audio associated with video in both live and review. **Note**: • This does not apply to the independent audio channels. • The restriction does not carry through to archived video.	Feature
87.	User interface	The viewer for clipboard images did not scale the images. This change scales the clipboard images to fit in the viewing window.	Modification
88.	User interface	The review time is now provided on printed images.	Fix
89.	User interface	Wait 30s after a USB device is unmounted on NetBSD/Linux to avoid dirty device extraction (that would possibly damage the exported data).	Modification
90.	User interface	Added camera grid navigation to KBD3000.	Feature