Release Notes CathexisVision 2016.3

Contents

Types	Feature (Addition)	Modification (Change)	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 has been discontinued from 2016 onwards.

2.   The CathexisVision 2016 user interface may 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 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.

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

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

6.   CathexisVision 2017 will no longer support the concept of unit groups for a user. Unit groups will be supported for connections to sites running earlier software versions.

1 Critical Changes for 2016.3

#	Key area	Software Change	Type
1.	Algorithms	Fixed an issue where, in the Advanced tab of the Configure Video Analytics setup window, selecting options from the 'Block Size' and 'Source Size' drop-down menus in certain combinations would cause the algorithm server to crash.	Fix
2.	Core	Fixed high CPU usage of **nvr_launcher** process.	Fix
3.	Database	Prevented the corruption of a CathexisVision 2017 database which occurred when imported into CathexisVision 2016. **Note**: The CathexisVision 2017 database slices cannot be used in earlier software versions.	Modification
4.	Failover	Corrected an issue where the Linux installer removed the file marking a system as a failover server.	Fix
5.	Integration	The Edeka integration driver will now correctly do a check to see if the Edeka scale category is contained within the received transaction.	Fix
6.	Network Devices	Fixed remote audio calling to IP cameras.	Fix

2 Feature Changes for 2016.3

#	Key area	Software Change	Type
7.	Alarms	Fixed issue where remote connections routed through the site master may not be forwarded correctly to slave NVRs when running CathexisVision 2016 software.	Fix
8.	Alarms	Fixed a spelling error in the SALTO Access Control integration where the door state was spelled 'Unknwon' instead of 'Unknown.'	Fix
9.	Algorithms	Some labels in the setup of the TopDown 3D counter have been renamed.	Modification
10.	Algorithms	Fixed and issue in the configuration of advanced trigger settings for the basic VMD: A trigger on 'no motion' was set to use all zones, but did not take into account whether or not certain zones have been selected/de-selected.	Fix
11.	ANPR	The following changes have been made to the ANPR device: • In the integration setup, the 'Groups' tab has changed to 'Object groups' to differentiate between number plate groups when using an ANPR device. • Number plates have been made available in the event setup as soon as they are added. Previously it was required that a plate first be detected in that group. • Maximum overlay time increased from 30 seconds to 10 minutes.	Modification
12.	Archiving	The option to set target folder restrictions via Settings (menu bar) → Archive… has been removed from the software. It is now done using OS access rights.	Modification
13.	Configuration	Frame-grabber cameras (AVM4, VIO etc.) are generated by default as "Camera 1", "Camera 2", "Camera 10" etc. This has been changed to "Camera 01", "Camera 02", "Camera 10" etc. so that the order is as expected when sorted alphabetically.	Modification
14.	Configuration	Fixed an issue where the error message did not display properly when disk management operations failed on Linux.	Fix
15.	Core	Removed the log file generated by failed email transmissions on Windows. This file had the potential to use up significant disk space.	Fix
16.	Database	Name field has focus when database setup dialog is opened. This means the user does not need to click on the entry field before typing; the field is automatically selected.	Modification
17.	Database	Fixed an issue where the Saflec database data was not imported when the data contained the ':' character.	Fix
18.	Installer	Added Windows firewall exception for messaging to audit server. Without this exception audit logs for actions that occur on a slave unit are not mirrored on the master unit's audit log.	Fix
19.	Integration	Added integration driver to communicate with the SALTO ProAccess software using the SHIP and event stream protocols.	Feature

20.	Integration	Added the Cathexis EIO3148 Counter integration which counts the number of times an EIO3148 device's input goes high or low. Events can be configured according to counts on the device.	Feature
21.	Integration	The following inMotion integration drivers have been added: • inMotion SEEKER Metal Detector. • inMotion camera integration.	Feature
22.	Integration	Furthermore, the inMotion integration supports two versions on inMotion API: • The old API may be used by selecting a tick-box in the driver setup. • Sensor sensitivity and sensor name are displayed in an overlay. • The driver supports serial and ethernet (TCP/IP) connections.	Modification
23.	Integration	Added the integration driver for the Southwest Microwave Intrepid Perimeter Intrusion Detection System.	Feature
24.	Integration	Fixed an issue which was preventing the integration server from sending messages through ports 2, 3 and 4 of an ESP.	Fix
25.	Integration	Added a timer to the DCS IT-100 alarm panel integration so that the integration driver will poll the status of the device every minute, increasing accuracy of the displayed objects.	Fix
26.	Integration	Added the integration driver to communicate with the Impro Portal Access control software.	Feature
27.	Integration	Fixed an issue with the ProWatch integration where 'door forced' events were not linked to valid objects.	Fix
28.	Integration	Version information of both the alarm panel and the IPC module have been added to the RiscoSystem integration object.	Modification
29.	Integration	Added the Optex Redwall Laser Detector Integration.	Feature
30.	Integration	Added the Edeka Scale (Waage) integration.	Feature
31.	Integration	Added the Edeka Point of Sale integration.	Feature
32.	Integration	The Edeka PoS integration driver will now correctly do a check to see if the Scale category (generated by Edeka Scale integration) is contained within the received transaction.	Fix
33.	Integration	An overlay has been added to the Impro IXP20 integration.	Feature
34.	Integration	An overlay has been added to the Matrix Barcode Reader integration.	Feature
35.	Integration	Added the Nemtek Electric Fence integration.	Feature
36.	Integration	Added the OTIS Escalator integration which connects through an EIO3148.	Feature
37.	Integration	Added the OTIS Elevator integration which connects through an EIO3148.	Feature
38.	Licensing	CathexisVision 2016.3 supports 2017.1 camera licenses.	Modification

39.	Logic	Fixed a crash in the **nvr_logic** process which occurred when level events and email/alarm actions were configured to run at the end of the event.	Fix
40.	Map	The integration device object list in the map editor is now scrollable to better handle many device objects.	Modification
41.	Map	Fixed an issue where fonts were not saved correctly in the Map Editor software.	Fix
42.	Metadatabase	Increased maximum size of initial postgres database from 25GB to 50GB on Linux and Windows. Individual databases are created within this.	Modification
43.	Mobile	Fixed an issue where CatMobile connections were always allowed even if they were disabled.	Fix
44.	Network Devices	Resolving an issue where audio in an RTP stream may not play.	Fix
45.	Network Devices	Added the ABUS drivers to support the ABUS range of cameras.	Feature
46.	Network Devices	Under certain conditions after pulling out the network cable and reconnecting it, the "camera failed" message wouldn't be cleared, although the camera was working perfectly.	Fix
47.	Network Devices	Added the following features for the UDP Technology camera driver: • PTZ control via serial port. • On board PTZ support. • Streaming video via RTP/TCP.	Feature
48.	Network devices	Resolved the following issues with Acti cameras: • Distorted images were displayed for Acti cameras. This only affected video streams that had a resolution of 2MP or higher. • Some motion detection triggers did not receive trigger messages from some Acti cameras.	Fix
49.	Network devices	Resolved the following issues with the Axis driver: • Fixed a problem with the Axis audio-out where audio was not coming through the speakers connected to Axis cameras. • Fixed a problem where the system reverted to the default dewarp if the user interface was run with the Axis dewarp enabled and the camera panel was enlarged or reduced. • Fixed an issue with the Axis Q3709 where H264 streams did not stream over UDP. The Axis driver has been modified to only stream H264 over RTP/TCP. • Resolutions are only presented if they have an even width and height. • The framerate limit has been increased to 120fps.	Fix
50.	Network Devices	The following changes have been made to the FLIR camera driver: • Added a temperature trigger. • Added a transport option for RTP/TCP. • Use a single license for multi-headed cameras.	Modification

51.	Network Devices	The following changes have been made to Canon cameras: • Transport options are now offered. • Fixed an issue with the presets on the newer models of Canon camera. (Because of an API change, user could set or go to presets.)	Modification
52.	Network Devices	Fixed a problem with camera signal detection on the SAM3101 that could have resulted in marking a camera as failed when it was working.	Fix
53.	Network Devices	Added support for RTP/TCP for the Vivotek driver which resolved some PTZ control issues.	Modification
54.	Network Devices	Fixed a crash which occurred when trying to change the video format from MPEG4 to JPEG/H264 via Live555.	Fix
55.	Network Devices	The following fixes have been made to the Hikvision driver: • Use one connection to receive event triggers per Hikvision encoder/camera • Correctly assign transport type to a stream in Hikvision driver.	Fix
56.	Network Devices	The following changes have been made to the Dahua camera driver: • Variable bitrates are now offered. • The JPEG resolution has been capped to 1920.1080 (2MP). • RTP/TCP and RTP/UDP transport options have been added.	Modification
57.	Network Devices	The following fixes have been made to the Dahua camera driver: • Resolved an issue on Dahua cameras where we may not present the option to select the 5MP resolution due to its identifier differing between the older and current camera firmware. • Resolved an authentication issue with Dahua cameras running the latest firmware which prevented it from being added to CathexisVision.	Fix
58.	Network Devices	Added support for Iris and Focus on the Hikvision DS-2DF1-718 camera.	Fix
59.	Network Devices	The following feature changes have been made to the Milesite driver: • Added support for inputs. • Added support for outputs and high framerates (up to 60fps). • JPEG streamed using Live555 only. • JPEG resolution limited to 1280x960. • Only configured feeds will be published.	Modification
60.	Network Devices	Added support for I/O and streaming RTP/TCP in the Surveon driver.	Feature
61.	Network Devices	Added RTP/TCP and RTP/UDP transport options to the Grundig driver.	
62.	Network Devices	Fixed an issue with the ESP3102 where data was not being sent to the second port by the integration server.	Fix

63.	Network Devices	Fixed a crash which occurred when configuring a Generic Encoder with an invalid IP address. Now an error message is presented.	Fix
64.	Network Devices	Fixed a high processer usage issue which occurred when using the TCP transport type to get video from RTSP devices, where the RTSP device presented no valid media stream. For example, when an encoder has no camera connected.	Fix
65.	Network Devices	Added support for audio-out on truVision cameras and encoders.	Feature
66.	Network Devices	Added support for UDP Technology NVN1100 encoder.	Modification
67.	Network Devices	The following changes have been made to how the transport types will function when using the **Generic Encoder** driver: • If the transport type is set to either **RTP/L555UDP**, **RTP/L555TCP** or **RTP/L555UDP**, only the selected transport type will be used to stream. • If the transport type is set to Default, the software will switch between the transport types (listed above) until video frames are successfully received.	Modification
68.	Network Devices	The following modification has been made to how generic encoders are licensed: • If two (or more) cameras are added using the same RTSP URL, only one camera license is shared between them. • If two (or more) cameras are added using different RTSP URLs but the same IP, each camera uses its own license.	Modification
69.	Network Devices	Fixed an issue with the configuration of camera streams which made some of the streams unavailable if the streams were not added sequentially. For example, if a FLIR camera had 4 streams, and only streams 1 and 3 were configured, then stream 3 would not be available. This fix ensures all streams are available.	Fix
70.	Network Devices	FLIR cameras have DLTV (Daylight) and IR (Infrared) streams. Currently the DLTV streams are mapped to video input 1 on CathexisVision, and the IR streams are mapped to video input 2. This presented a problem in situations where the camera only had IR streams, and these were only presented using input 2 when the end user may have added them as input 1. Therefore, the following changes have been made: • If only IR streams are present, then these streams can appear on either input 1 or input 2. • If only DLTV streams are present, these will only appear on input 1. • If both DLTV and IR streams are present, then the DLTV streams will appear on input 1 and the IR streams will appear on input 2.	Modification
71.	Network Devices	The pan-and-tilt speed for the Vivotek SD93xx range has been increased.	Modification
72.	Network Devices	The JPEG quality settings on the Hikvision DS-2CD6412FWD have been corrected.	Fix

73.	Network Devices	Resolved an issue with the ONVIF driver where the incorrect media profile configuration was used when controlling PTZ. (This issue only presented when a device had multiple PTZ configurations, such as an encoder.)	Fix
74.	Network Devices	Added support for the truVision TVE range of encoders.	Modification
75.	Network Devices	Resolved an issue where the H264 resolution may not have been acquired correctly when using Live555.	Fix
76.	Profiling	Fixed a crash which occurred when a database usage report was generated before an hour of video had been recorded to that database.	Fix
77.	Profiling	Fixed an issue where a server added to the site would not automatically appear in the forensic tool statistics.	Fix
78.	Profiling	Fixed an issue with the forensic tool so that new servers added to the site are detected without requiring a reboot.	Fix
79.	PTZ	Implemented PTZ control using a serial port on a Windows server.	Fix
80.	Review	Fixed an occasional corruption in MPEG4 review.	Fix
81.	Site Management	The following changes have been made to the KBD3000 integration: • Reintroduced the auto-assignment of user IDs for cameras/monitors. The KBD3000 does not work correctly if user IDs are not set. • Fixed an issue with com ports on Windows with values >=10.	Modification
82.	Streaming Video	Improved the distribution of video decoding processing across multiple CPU cores.	Modification
83.	User Interface	Allow the use of COM ports greater than 9 for Cathexis keyboards on Windows.	Modification
84.	User Interface	Automatic resizing of column widths in the disk partition table of the database setup pane is prevented.	Modification
85.	User Interface	The video wall/GUI now dynamically select streams based on the display resolution.	Modification
86.	User Interface	Fixed a GUI crash on Windows which occurred when enlarging a camera panel.	Fix
87.	User interface	Fixed a crash that happened in review mode in the camera tab when overlays were enabled/disabled using the toolbar *after* being enabled/disabled using the context menu.	Fix
88.	User Interface	Updated the lock icon to clearly differentiate it from the unlocked icon.	Modification
89.	User Interface	Added Hungarian language support.	Feature
90.	User Interface	Fixed the open-file dialog in the archive player running standalone on Fedora.	Fix
91.	Web page	Fixed an issue where the web browser html server crashed when transcoding failed and privacy zones were enabled.	Fix