CathexisVision 2018.2 Release Notes

Contents

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

CathexisVision 2018 Update Notices

1. The CathexisVision 2018 user interface may connect to previous revision CathexisVision servers, but with a loss of functionality. It is recommended that the viewing software and the recording software be of the same major version.
2. The ID process used for licensing a system running on a virtual machine changed in CathexisVision 2018.
3. CathexisVision 2018 does not support the viewing of wavelet video, whether in live, review or archives.

General Notices

1. 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.
2. The multisite user interface has been discontinued from 2016 onwards
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.

1 Critical Changes for 2018.2

#	Key area	Software Change	Type
1.	ANPR	License plate shapes and prefixes have been added to ANPR detection. The availability of these features is subject to the ANPR engine.	Feature
2.	ANPR	Added classification for Arabic plates. This classification includes: • Shape. • Prefix. • Tags (taxi, government etc.). This has been done, with varying degrees of support, for the following countries: • UAE. • Bahrain. • Jordan. • Kuwait. • Lebanon. • Oman. • Qatar. • Saudi Arabia. • Syria. • Yemen. The classification of plates is an ongoing process. If the shape, prefix or tags for a license plate are incorrect please send a sample image to Cathexis for analysis	Feature
3.	ANPR	There is now a single base license for LPR **(CLPR-2000)**, with per-detector licenses **(CLPR-1001)**. These licenses must be applied to the server that the LPR integration device is configured on. The **CLFF-2000** (freeflow dongle), **CLPK-2000** (parking dongle) and **CLDT-1001** (lane license) license have been deprecated. The **CLFF-2000 and CLPK-2000** will be considered a **CLPR-2000** license, and the **CLDT-1001** will be considered a **CLPR-1001** license so that existing sites continue to function. **Existing sites will continue working after an upgrade to 2018 as long as the integration device was configured on the same server as the LPR algorithms.**	Modification
4.	General	There are no firmware changes for the SAM3104 and SAM3101. It is recommended that these devices remain using 5043bx firmware.	Modification

5.	Integration	CathexisVision now supports the BACnet protocol. Functionality includes: • Device and object discovery. • Receiving events. Note: Since the BACnet protocol supports many different systems it is recommended that the user consult support@cat.co.za for proposed BACnet integrations.	Feature
6.	Integration	System events were time-stamped using a second resolution, which meant the video and the event may not have been accurately synchronised. The time-stamp resolution has now been increased to millisecond resolution to provide closer synchronisation The time zone used for marking events may be incorrectly specified, resulting in the affected drivers (below) not working correctly in some time zones for older software releases. This has been corrected in CathexisVision 2018.2. Drivers affected: • ACT access control • Caddx alarm panel • Design International CCTV • DSC IT100 alarm panel • FSK alarm panel • FFT perimeter monitoring • Galaxy alarm panel • Impro IXP20 • Impro IXP220 • Impro IXP400 • Matrix barcode reader • Moduteq 2W perimeter monitoring • Moduteq C perimeter monitoring • Paradox EVO192 alarm panel • SACO access control • SAFLEC access control • SkyNet • SoftCon access control • Technoswitch fire panel • Texecom Elite alarm panel • Texecom Premier alarm panel • Trek scale • WBX weighbridge	Fix
7.	Licensing	The ID used for licensing a system running on a virtual machine has changed. This may impact on servers running on Virtual machines in the field.	Feature

8.	Licensing	Changes to the software licensing scheme have been implemented. Consult the 2018 Product Description and License Document.	Feature
9.	Licensing	Added the CVGA-2001 license which allows unlimited video-walls on a site.	Feature
10.	Network Cameras	Added the HikVision V2 integration driver, as some more recent HikVision products only support this newer protocol. Using the V2 driver (instead of V1) is recommended if the camera firmware is issued after2015. **Note**: Please consult the camera manufacturer for firmware and protocol information.	Feature
11.	User Interface	Manuals are now included in the software. They can be accessed via **Help Menu → Manuals**.	Feature

2 Feature Changes for 2018.2

#	Key area	Software Change	Type
1.	Alarm	Corrected an occasional crash that occurred when an alarm with an alarm preview received no footage for the alarm.	Fix
2.	Alarm	Fixed an access rights issue for users handling an alarm in the Alarm Management Gateway. Previously users could review alarm footage even if they did not have access rights to the camera which generated the alarm; this change ensures that camera access rights are carried through to the AMG.	Fix
3.	ANPR	The AR Hungary software occasionally locks up when using motion detection to trigger license plate detection. This change forces a restart of the ANPR server under these conditions.	Fix
4.	ANPR	Increased the maximum size of encodable JPEGs from 500kB to 1MB. This fixes an issue where the ANPR API does not supply snapshots.	Fix
5.	ANPR	Corrected an issue where the ANPR algorithm did not always supply a plate location within the image boundary which could result in a restart of the ANPR server.	Fix
6.	ANPR	Support has been added for a context menu in the 'Cathexis LPR v3' metadatabase.	Fix

#	Key area	Software Change	Type
7.	API	Made the following changes to the API: • Included a camera in the API list even if the camera has no feeds. • Fixed packet loss from API server when serving high bitrate streams using UDP. • Fixed an issue where the html server was unable to start on Ubuntu if apache was already running.	Fix
8.	API	Fixed a possible authentication problem in the API. Multiple simultaneous authentications could result in one or more failures because messages would be rejected by a different authentication module. This is most likely to be seen in the API server, but could also affect other servers which login.	Fix
9.	APR	Added the following information to the API camera list: • server_internal_ip (the IP address of the server the camera is configured on). • server_camera_id (the internal ID of the camera on the server). • user_assigned_id (the user ID assigned to the camera in GUI resource panel).	Fix
10.	Archiving	When archiving from the Archive Player, the option to copy the Archive Player has been removed.	Fix
11.	Archiving	Fixed an issue with exporting archives to MP4 format, where previously the buffer size of the converter was too small.	Fix
12.	Archiving	Fixed a problem with exporting archives to MP4 if the archive contained corrupt video. Specifically, if the final frame of the source GOP could not be decoded, the MP4 conversion would fail.	Fix
13.	Archiving	Fixed a problem with the Archive Player timeline when viewing an archive created in a different time zone.	Fix
14.	Archiving	On some Windows systems the standalone Archive Player may not run due to a missing dependency (MSCVR120.dll). This change removes the dependency on this dll.	Fix
15.	CatObserver	Fixed CatObserver only partially capturing a screen not set to 100% scaling in Windows' display settings. Windows by default scales a 4K resolution screen to 150% and this causes catObserver to only capture the top left part of the screen.	Fix
16.	Configuration	Changed the 'Control PTZ' event action option to only list PTZ cameras. Previously non-PTZ cameras were included in the list.	Modification
17.	Core	Fixed issues with the following components accessing archives greater than 2GB on Windows 32-bit: • Virtual encoder. • Algorithm simulator.	Fix

#	Key area	Software Change	Type
18.	Failover	Fixed a problem with reinserting data after failover when multiple hotspares were configured, where only data from the first hotspare in the list was accepted.	Fix
19.	Failover	Failover restore points are now created at start up and then every 2 hours thereafter in order to pick up site configuration changes.	Fix
20.	Gateway	Fixed a problem with generating gateway reports.	Fix
21.	Gateway	Fixed a problem introduced in CathexisVision 2017.1, where a second Windows base station login to a gateway would terminate sessions from other Windows base stations.	Fix
22.	General	Fixed a memory leak on Windows when running processes that read std out.	Fix
23.	Integration	Fixed a bug which may cause the Edeka Scale integration driver to crash.	Fix
24.	Integration	Modifications have been made to the Impro Portal metadatabase filters. The metadatabase filters for the following fields will now have a dropdown menu: • Event description. • Terminal name. • User name. • Zone name. • Direction.	Modification
25.	Integration	Support has been added to the Impro Portal integration for a dropdown list of options when configuring an 'Access Event' event.	Fix
26.	Integration	Fixed an issue which prevented the Impro IXP400 integration from communicating with the Microsoft SQL database from a Linux NVR.	Fix
27.	Integration	Fixed an error in the state change acknowledgement sent to the Nemtek device.	Fix
28.	Integration	Additional event descriptions have been added to the Paradox Alarm Panel integration.	Modification
29.	Integration	Modified the Stinger integration by relaxing the message verification rules in order to accommodate Stinger's 'AutoReset' setting.	Fix
30.	Integration	CathexisVision now integrates with the TecnoAlarm Alarm Panels through the TECNO OUT protocol.	Feature

#	Key area	Software Change	Type
31.	Integration	Fixed an object linking bug in the TecnoAlarm integration, where events associated with the Remote_Control object had the following issues: • Remote_Control events in the metadatabase had empty camera links (footage was not being linked). • Map state changes for the object did not occur. • Map notifications for the object did not occur.	Fix
32.	Integration	The Ziton ZP2 integration has been updated to resolve a crash when the panel went offline unexpectedly. The following updates have been made: • The driver now uses the Ziton panel date and time. • Multiple code optimisations for improved performance.	Fix
33.	Integration	Unknown states in the State columns of the Ziton ZP2 integration have been changed to show 'Awaiting Update' instead of 'Unknown.'	Modification
34.	Integration	Fixed a problem where integration objects with linked cameras would show the camera links after the objects had been deleted and recreated, however the cameras would not be linked to the objects in the meta-database, and after the next reboot the camera links would disappear.	Fix
35.	Integration	Fixed a problem where unlicensed integration objects could still be issued commands.	Fix
36.	Integration	Removed the camera icon from metadatabase transactions which did not have camera links. The following integrations were affected: • Impro portal. • Lenel. • OptaSense. • Paradox V2. • ProWatch. • Salto. • TecnoAlarm.	Fix
37.	Keyboard	Fixed the following issues with the KBD3000: • Incorrect text/labels displayed when using navigation arrow keys. • When arrow keys were pressed the actions were being processed twice. • Keyboard can only control selected panels, but when a salvo/layout was applied the panel selection was cleared. • Certain cameras only responded to zoom when the maximum zoom value was received.	Fix
38.	Network Devices	Support for 6MP dual-lens Arecont cameras has been added to the Arecont H264 driver.	Modification

#	Key area	Software Change	Type
39.	Network Cameras	A single HTTP instance will now be used to query multiple Axis cameras on the same IP with different video inputs. This resolves an issue where the camera did not respond to queries sent over multiple HTTP connections to and Axis camera with multiple video inputs. This seems to have been a resource issue on the Axis cameras. **Note**: The I/O, PTZ and serial communication queries are still done over individual connections.	Modification
40.	Network Devices	Fixed an issue with streaming multicast using the Axis quad-view stream by using the correct index to setup multicast.	Fix
41.	Network Cameras	The following changes have been made to the Canon driver: - The audio source is now setup independently of the video and audio format settings. This resolves an issue where a video setup command may fail as the camera might have audio but not a configurable audio source. - The driver will attempt to open an admin session every 5 seconds in order to control the PTZ of a locked camera.	Modification
42.	Network Devices	The following changes have been made to the Dahua camera driver: - All Dahua camera event triggers are now supported by CathexisVision. - Audio_out capability is now correctly identified. - Users are now able to select the video input number when using the Dahua driver.	Modification
43.	Network Cameras	Added support for the Dedicated Micros SmartVU camera.	Feature
44.	Network Cameras	Fragmented H265 frames will now be assembled into a complete frame before decoding. This resolves an issue where only part of the video was visible.	Fix
45.	Network Cameras.	H265 frame buffer size will be estimated based on resolution which will reduce the chances of frame corruption. If there is corruption, this means the buffer was not large enough, and it will be increased again.	Modification
46.	Network Cameras	Handling digest authentication for HikVision events.	Fix
47.	Network Devices	Fixed a potential crash that could occur in the JVC VN-T driver.	Fix
48.	Network Cameras	Made the following changes to the Milesight camera driver: - Added area zoom and light switch functionality to the Milesight Camera driver. - Resolved PTZ problem with tilting. - Made PTZ control less sensitive.	Modification
49.	Network Cameras	Fixed a possible crash wit handling MxPEG frames from Mobotix cameras.	Fix

#	Key area	Software Change	Type
50.	Network Devices	The following fixes have been made to the Paxton driver: • Corrected a potential memory leak. • An extra door was created if the door name had spaces in the name.	Fix
51.	Network Cameras	Added A new Pelco Sarix/Spectra HD driver which replaced the old Pelco driver.	Modification
52.	Network Cameras	Made the following changes to the SAM-3204 driver: • Corrected device information not displaying correctly during camera setup. • Users now unable to select audio-in. • Max bitrate changed from 2.5 to 2.0 Mbs. • Added an independent audio-in channel to camera input 1.	Modification
53.	Network Cameras	Fixed a problem with the camera reading capabilities of the SAM3204 driver. The driver was not reading all the capabilities on cameras 2, 3 and 4 because they don't provide audio_in. This would cause the driver to prematurely exit the capabilities extraction function. To fix this, the driver will just log absent capabilities without exiting, unless it affects video streaming.	Fix
54.	Network Cameras	The following changes have been made to the Samsung V2 driver: • Support for zoom added on the Samsung XND-6080. • Support added for intrusion and loitering detection triggers. • Resolved an issue with the software timing out when setting up streams. This prevented the remaining streams from being setup.	Fix
55.	Network Cameras	Support has been added for 6th generation Sony cameras.	Modification
56.	Network Devices	Transport types have been added to the Sony driver. TCP or UDP using Live555 is now supported.	Modification
57.	Network Cameras	Resolved an issue where streams may not have been presented in the UDP Technology driver. This arose as a result of receiving HZTTP errors to our requests after the camera was rebooted/repowered. In this case, the stream details were not filled out.	Fix
58.	Network Devices	Fixed an issue where streams may not have been presented in the Vista V1 driver.	Fix
59.	Network Cameras	Support has been added to the Vivotek driver for VBR and CBR bitrate types.	Modification
60.	Onvif	Added support for zoom whilst panning/tilting in the ONVIF driver.	Modification
61.	Restore Points	Default restore point settings will be used in the event a restore point configuration file fails to load.	Fix

#	Key area	Software Change	Type
62.	Site	Made a change to the time taken to mark a unit as absent. Previously a unit was marked as absent within a site when it had not connected for 2 weeks. This has been extended to 4 weeks. **Note**: Once a unit is marked as absent, any licenses which were tied to the unit are no longer available to the site. This may cause problems if other units rely on them.	Modification.
63.	Site	Support has been added for naming site resources using non-Latin characters, such as Arabic. E.g. Arabic camera names in the resource panel.	Fix
64.	User Interface	The following changes to the Smart Search features (Activity Trails and Motion Search) have been made in order to clarify when a feature is not enabled: • When attempting to perform a Motion Search on a camera that is not being recorded in the motion database, a notifying popup will be displayed. • When attempting to enable Activity Trails on a camera that is not being recorded in the motion database, a warning notification is displayed.	Modification
65.	User Interface	French translation of the GUI has been updated.	Feature
66.	User Interface	Added a filter option to the resource panel in the camera tab.	Feature
67.	User Interface	The GUI load on the CPU has been reduced when rendering to the monitor.	Modification
68.	User Interface	Fixed an issue which occurred when double-clicking on an Activity Trail to switch to review; the double-click would change the panel size.	Fix
69.	User Interface	Fixed an issue in which the license description window (Status Bar → Licenses Icon → More) would cover other open windows, preventing the user from selecting them. This change allows a more natural ordering of windows.	Fix
70.	User Interface	Fixed an issue on Linux where the user interface would not restart after the system did a watchdog restart.	Fix
71.	User Interface	Fixed an issue in which camera review access rights were not applied when reviewing meta-database video.	Fix
72.	User Interface	Fixed a problem with saving meta-database settings which would occur if the user's home directory did not exist.	Fix
73.	User Interface	Fixed a text wrapping issue in the procedures panel.	Fix
74.	User Interface	If the resource panel only has folders at the root level (no resources), then when the filter is disabled the folders would not be visible. This fix makes the folders visible.	Fix