



# CathexisVision 2018.3 Release Notes

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<b>Types</b>	Feature (Addition)	Modification (Change)	Fix (Problem fix)	Deprecated (Removed)
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**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. Support for Windows Vista and Windows Server 2008 has been dropped from CathexisVision 2018.3 onwards. Support for Windows Server 2008 R2 remains.
2. 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.
3. The ID process used for licensing a system running on a virtual machine changed in CathexisVision 2018.
4. CathexisVision 2018 does not support the viewing of wavelet video, whether in live, review or archives.

### General Notices

- i. 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.
- ii. The multisite user interface has been discontinued from 2016 onwards
- iii. 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.
- iv. AVM3000 framegrabbers and SAM1000 encoders are not supported from CathexisVision 2016 onwards.

## 1 Critical Changes for 2018.3

#	Key area	Software Change	Type
1.	Codecs	Updated to FFMPEG 3.4.2. This means that the installation of OpenCL is no longer a requirement.	Modification
2.	General	Support for Windows Vista and Windows Server 2008 has been dropped.  <b>Note:</b> Support for Windows Server 2008 R2 remains.	Modification
3.	User Interface	Various changes have been made to the translation of the CathexisVision 2018.3 GUI, including: <ul style="list-style-type: none"> <li>• Much broader coverage of translatable text,</li> <li>• Fixes for text that was incorrectly marked for translation,</li> <li>• Standardisation of the mechanism that determines which language to use, including a user-configurable language setting,</li> <li>• French translations have been updated,</li> <li>• Added multi-language support to the following components: <ul style="list-style-type: none"> <li>○ Video Wall,</li> <li>○ Archive Viewer,</li> </ul> </li> </ul> Windows performance wizard.	Feature
4.	Network Cameras	Introduced a new way of setting up network cameras where the entering the camera setup will no longer stop the video in the system. The camera will only be brought offline while adjusting the video feed, resulting in a short gap while the settings are applied as the camera will need to reconfigure itself. The duration of this gap will depend on the camera model.  The old setup mechanism is still supported as an option in the drop-down menu and this will detach the camera from the system before configuring it.	Feature
5.	User Interface	Added a review-only access right that does not require access rights for live view.	Feature

## 2 Feature Changes for 2018.3

#	Key area	Software Change	Type
1.	Analytics	Corrected a problem with the stabiliser, where low resolution images occasionally shifted when they were actually still.	Fix
2.	Analytics	Fixed the 'no motion' trigger on Smart VMD analytics which did not function when configured.	Fix
3.	Analytics	When enabling 'Track Object' filter during Advanced Analytics setup, the Filter objects were previously greyed out, giving the impression that the couldn't be selected. This has been corrected.	Fix
4.	ANPR	Added ANPR integration to Thai Police.	Feature
5.	ANPR	Made the following updates to the ANPR engine: <ul style="list-style-type: none"> <li>Added the ability to extract province from license plates for Bangladesh, Cambodia, Iraq, Laos, and Thailand.</li> <li>Automatically determine license plate prefix if it has not already been explicitly defined.</li> </ul>	Feature
6.	API	Added the following information to the API camera list: <ul style="list-style-type: none"> <li>server_internal_ip (the IP address of the server the camera is configured on),</li> <li>server_camera_id (the internal ID of the camera on the server),</li> <li>user_assigned_id (the user ID assigned to the camera in GUI resource panel).</li> </ul>	Modification
7.	API	Fixed API/RTSP authentication issues with Ozeki RTSP SDK.	Fix
8.	Archiving	Fixed an issue which caused the MP4 conversion of an archive to fail if the source archive contains corrupt video.	Fix
9.	Archiving	Fixed an issue which was preventing the virtual encoder and the algorithm simulator from accessing archives greater than 2GB on Windows 32-bit systems.	Fix
10.	Archiving	Fixed an issue with scheduled archives of a camera that had characters in its name that were not supported by the target filesystem.	Fix
11.	Archiving	Made the following changes to the Archive Viewer: <ul style="list-style-type: none"> <li>Fixed an issue with the timeline which occurred when viewing an archive in a different time zone,</li> <li>'Maintain aspect ratio' setting will now default to 'enabled,'</li> <li>Added a context menu option to toggle the 'maintain aspect ratio' setting.</li> <li>Changed the password error message from "Incorrect" to "Access Denied – Password Incorrect."</li> </ul>	Fix
12.	Archiving	On a Windows unit, an alert will be sent if a scheduled archive target doesn't exist.	Fix

#	Key area	Software Change	Type
13.	CatMobile	Fixed an issue where the SAM3xxx devices were not streaming live video to mobile devices.	Fix
14.	CatObserver	Fixed an issue where catObserver would only partially capture a screen that was not set to 100% scaling in Windows' display settings. <b>Note:</b> 4K monitors on Windows will default to 150% scaling.	Fix
15.	Core	Resolved the overlay decompression failure in review. The decompressor successfully decompressed the overlay packs but reported an error despite this. A workaround has been added.	Fix
16.	Failover	It is now possible to configure the network interface that the failover server should register. This is required where the failover server has multiple network interfaces but not all of them are visible to the client machines viewing the site.	Modification
17.	Failover	Fixed an occasional netstep crash.	Fix
18.	General	Decreased the frequency of disk checks to reduce the impact of a memory leak on Windows.	Modification
19.	General	Fixed a memory leak on Windows that occurred when running processes that read " <b>std out.</b> "	Fix
20.	General	Fixed an issue where emailing out from the VMS would stall if there was an email in the queue that could not be delivered. The email client will now skip over an undelivered email and deliver others in the queue before retrying the failed email again.	Fix
21.	General	Fixed the following CNVR issues: <ul style="list-style-type: none"> <li>Resolved the issue preventing the CNVR hardware from being detected and licensed on Linux kernel 4.18 and later.</li> <li>Fixed an issue with CNVR driver on Ubuntu kernel 4.13.</li> </ul>	Fix
22.	Integration	Added the following user configuration options to the MAXxess Access Control integration: <ul style="list-style-type: none"> <li>Added a database poll rate setting,</li> <li>Added a door object unlock time.</li> </ul>	Feature
23.	Integration	Added the JVA Perimeter Patrol software integration.	Feature
24.	Integration	Added the Mobotix V2 integration.	Feature

#	Key area	Software Change	Type
25.	Integration	<p>Made the following changes to the Home Bargains POS integration till transactions:</p> <ul style="list-style-type: none"> <li>• Added support for the following transaction types:               <ul style="list-style-type: none"> <li>○ Staff discount,</li> <li>○ Customer return,</li> <li>○ Cash refund,</li> <li>○ Card refund,</li> <li>○ Declined card payment,</li> <li>○ Swiped transaction,</li> <li>○ Product usage report,</li> <li>○ Cash drawer ID slip.</li> </ul> </li> <li>• Till transaction number added to overlay,</li> <li>• Modified how the card number is read to counter for newly introduced cases where, in addition to the last four numbers, the first few numbers of the card number are shown.</li> </ul>	Feature
26.	Integration	Added the Ipsotek2 Analytics integration.	Feature
27.	Integration	The map notifications for the Impro Access Portal Pro now also show terminal and user name.	Modification
28.	Integration	The Lenel integration will now present a drop-down menu for many device event fields when configuring events and when using meta-database filters.	Modification
29.	Integration	<p>Made the following changes to account for systems where the MAXxess driver was configured before settings for states refresh and door unlock time were added:</p> <ul style="list-style-type: none"> <li>• Added a states refresh rate (default is one minute),</li> <li>• Added door unlock time (default is ten seconds).</li> </ul>	Modification
30.	Integration	<p>Made the following changes to the Ziton ZP2 driver:</p> <ul style="list-style-type: none"> <li>• Changed the description of integration object states from “Unknown” states to “Awaiting Update,”</li> <li>• Driver now uses the Ziton panel data and time,</li> <li>• General/various code optimisation for improved performance,</li> <li>• Fixed a memory leak which would occur with the FP10_ConnectTCPIP call if the dwConnTimeout was set to a value greater zero but less than its internal connection timeout (about twenty seconds). Resolved this by threading the call and setting the timeout to zero.</li> </ul>	Modification
31.	Integration	<p>Made the following fixes to the Impro IXP20 driver:</p> <ul style="list-style-type: none"> <li>• Message IDs will not re-assigned to a request that has already been sent,</li> <li>• TCP connections will be closed before starting a new connection,</li> <li>• Removed the “Reset anti-passback” button in the Controller window, which had no effect.</li> </ul>	Fix



#	Key area	Software Change	Type
32.	Integration	The DSC IT100 integration now properly handles 4-digit passwords.	Fix
33.	Integration.	The Impro Access Portal Pro integration database filters will now have a drop-down menu for the following fields: <ul style="list-style-type: none"> <li>• Event description,</li> <li>• Terminal name,</li> <li>• User name,</li> <li>• Zone name,</li> <li>• Direction.</li> </ul>	Modification
34.	Keyboard	Fix KBD3000 on Windows broken in 2018.3_RC33.	Fix
35.	Keyboard	Fixed the KBD3000 arrow key release.	Fix
36.	Logic	Added a Windows firewall exception for triggering remote events. This fixes events triggered by integration devices where the camera to be recorded is configured on a different server to the integration device.	Fix
37.	Meta-database	Increased the number of items available in meta-database drop-downs from 500 to 2000.	Modification
38.	Meta-database	Made the following changes to the Paradox V2 metadatabase: <ul style="list-style-type: none"> <li>• The “Time” column is now displayed for every view,</li> <li>• The “Message type” column is now only displayed when the “All” view option is selected.</li> <li>• The metadatabase has been set to 1.1.2,</li> <li>• Fixed an issue which could crash the nvr_integration process.</li> </ul>	Modification
39.	Meta-database	Updated the integration database initialisation message after dropping support for NetBSD.	Modification
40.	Network Cameras	Fixed an issue in the HikVision V1 driver where preset, focus, and iris commands would not be issued.	
41.	Network Cameras	Added support for H265 and additional resolutions in the Vista V2 driver.	
42.	Network Cameras	Added the AR Hungary camera driver.	Feature
43.	Network Cameras	Made the following changes to the Milesight camera driver: <ul style="list-style-type: none"> <li>• Added support for Milesight fisheye cameras,</li> <li>• Added area zoom,</li> <li>• White light via [PTZ_KEY] SET 1 = On; SET 2 = Off.</li> </ul>	Feature
44.	Network Cameras	Support has been added for 6 <sup>th</sup> generation Sony cameras.	Feature
45.	Network Cameras	The SAM3204 driver now supports TCP streaming.	Feature

#	Key area	Software Change	Type
46.	Network Cameras	The 6MP, dual-lens Arecont cameras are now supported using the Arecont H264 driver.	Modification
47.	Network Cameras	A single HTTP instance is now used to query multiple Axis cameras on the same IP with different video inputs. This resolves a resource issue where the camera did not respond to queries sent over multiple HTTP connections to an Axis camera with multiple video inputs. The I/O. PTZ and serial communication queries are still done over individual connections.	Modification
48.	Network Cameras	A single license will now be used to license the Axis Q3708-PVE in CathexisVision.	Modification
49.	Network Cameras	Made the following changes to the Dahua driver: <ul style="list-style-type: none"> <li>• Added ANPR,</li> <li>• All event triggers are now supported,</li> <li>• Audio-out capability now correctly identified,</li> <li>• Added support for a third stream (if supported by the camera model).</li> </ul>	Modification
50.	Network Cameras	Made the following changes to the HikVision V2 driver: <ul style="list-style-type: none"> <li>• Removed H265 multicast support,</li> <li>• Added support for STARTSCENECHANGED, STARTDISKFULL, and STARTDISKERROR triggers,</li> <li>• Use a single license for the HikVision DS-2PT3326IZ-DE3 when adding different views.</li> </ul>	Modification
51.	Network Cameras	The following Sony integration driver now supports TCP or UDP using Live555.	Modification
52.	Network Cameras	Made the following changes to the Vivotek driver: <ul style="list-style-type: none"> <li>• Resolved issue with no audio in multiact stream,</li> <li>• Resolved issue with output taking a few seconds to reflect state change,</li> <li>• Added support for all tamper triggers,</li> <li>• Added audio trigger,</li> <li>• Improved representation of bitrate capabilities.</li> </ul>	Modification
53.	Network Cameras	Added bitrates to the Hunt, Acam and Aasset drivers. This resolves an issue where bitrates were defaulting to 64kbps when configuring the cameras, resulting in low quality streams.	Fix
54.	Network Cameras	The correct index ill now be used when setting up multicast on an Axis quad-view stream, resolving an issue where multicast could not be streamed using the quad-view stream.	Fix
55.	Network Cameras	Added the following triggers to the Bosch V2 driver: <ul style="list-style-type: none"> <li>• REFERENCECHECK</li> <li>• FLAMES</li> <li>• SMOKE</li> </ul> This change also resolves the issue where a maximum of nine triggers could be added.	Fix



#	Key area	Software Change	Type
56.	Network Cameras	G711u audio will now be specifically requested in the Bosch V2 driver. This resolves an issue where the FCS-8000-VFD-B model's default audio is AAC, despite the default audio codec being G711u.	Fix
57.	Network Cameras	Resolved an issue where the Bosch AVIOTEC IP STARLIGHT 8000 could not be added.	Fix
58.	Network Cameras	Added admin sessions to Cannon driver presets; PTZ presets and GoTo preset will now use admin session ID if one is available.	Fix
59.	Network Cameras	Due to changes in Dahua firmware, Dahua PTZ control should be checked after upgrading to CathexisVision 2018.3. If a problem presents, do one of the following: <ul style="list-style-type: none"> <li>• Update Dahua firmware, or</li> <li>• Enable 'Legacy PTZ control' in advanced camera options.</li> </ul>	Fix
60.	Network Cameras	Fixed a potential crash that could occur in the JVC VN-T camera driver.	Fix
61.	Network Cameras	Fixed a possible crash when handling audio with Mobotix cameras.	Fix
62.	Network Cameras	Fixed the following in the Paxton driver: <ul style="list-style-type: none"> <li>• Memory leak,</li> <li>• Extra door created if the door name has no spaces.</li> </ul>	Fix
63.	Network Cameras	Made the following changes to the Pelco Sarix/Spectra HD driver: <ul style="list-style-type: none"> <li>• Resolved an issue with handling HTTP error messages. Previously the driver did not pick up HTTP errors upon the camera rebooting as the driver was requesting information whilst the camera was still initialising. The result was that the user could not stream anything.</li> <li>• Implemented PTZ support.</li> <li>• Added fall back to a different query to retrieve capabilities should the initial query fail,</li> <li>• Resolved an issue where motion detection may be disabled.</li> </ul>	Fix
64.	Network Cameras	Resolved an issue where the Huawei IPC6225-VRZ could not be added using the ONVIF driver.	Fix
65.	Network Cameras	Resolved an issue with retrieving capabilities in the Samsung V2 driver. On the XND series, there have been extra parameters added which caused parsing of the video capabilities to be incorrect. System parsing has been reworked to accommodate these extra parameters.	Fix
66.	Network Cameras	Resolved an issue with the UDP Technology driver where streams may not have been presented. This arose as a result of receiving HTTP errors in response to requests after the camera had been rebooted/repowered. In this case, the stream details were not filled out.	Fix
67.	Network Cameras	Resolved an issue where streams may not be presented in the Vista V1 driver.	Fix
68.	Network Cameras	Audio source has been correctly setup for the Vivotek FE9 range.	Fix

#	Key area	Software Change	Type
69.	Network Cameras.	Resolved an issue where frames may be timestamped incorrectly when using Live555.	Fix
70.	Network Discover	Fixed a problem where it was possible for malformed IPs with leading zeroes (e.g., 192.168.005.005) to be sent to encoders, resulting in the IPs being discarded by the firmware and leaving the network interface unconfigured.	Fix
71.	System Monitoring	Fixed an issue which could occur on multi-server sites if the system times were not synced, resulting in incorrect properties in the "Time since last recording" column of the "Recording Times" report.	Fix
72.	User Interface	Added "Left" and "Right" keys to the PTZ controls on the resource panel.	
73.	User Interface	Added an option in the GUI to include the date in the display of the time for live video, in both the camera panel and the Video Wall.	Feature
74.	User Interface	Integrators will now be able to add a custom help manual to the manuals menu in CathexisVision.	Feature
75.	User Interface	A timeout has been added to the camera edit dialog. After ten minutes of inaction the user will be presented with the option to continue editing the camera or to close the window. If there is no response within thirty seconds the window will close itself.	Modification
76.	User Interface	German translation of the VMS has been updated.	Modification
77.	User Interface	Fixed a potential GUI crash when vectoring to a review time.	Fix
78.	User Interface	Made the following various internationalisation fixes: <ul style="list-style-type: none"> <li>• Fixed non-latin1 camera/server names gateway reports,</li> <li>• Fixed non-latin1 camera/server name in site repots,</li> </ul> Fixed truncation of UTF-8 encoded sit names.	Fix
79.	User Interface	Resolved problematic handing of non-latin1 character strings in the following VMS components: <ul style="list-style-type: none"> <li>• Alarm procedures which did not function correctly,</li> <li>• UTF-8 encoding for emails is now specified to resolve a display issue for emails that contain non-Latin characters.</li> <li>• Alarm Management Gateway:               <ul style="list-style-type: none"> <li>○ Attachments,</li> <li>○ Custom comments,</li> <li>○ User defined preset comments,</li> </ul> </li> <li>• Event names, etc.</li> </ul>	Fix
80.	User Interface	The alarm window will appear on top of other application windows when a new alarm is received.	Fix
81.	User Interface	The task bar icon will now flash on Windows if an event notification occurs while the GUI is minimized. On Linux, the event notification will appear even on top of other applications.	Fix

