



Release Notes CathexisVision 2017.1

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Types	Feature (Addition)	Modification (Change)	Fix (Problems and Bugs)	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: <https://integrations.cathexisvideo.com/supported-i-p-cameras/>
- III. Further information on integrated devices listed in these Release Notes should be sought here: <https://integrations.cathexisvideo.com>

Update Notices

- 1. CathexisVision 2017 does not support the viewing of wavelet video (and VOM2x10 cards), whether in live, review or archives. CathexisVision 2016 was the last major release to support the viewing of wavelet video. 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. 2017 systems cannot be downgraded to earlier software versions. Video databases created on a 2017 server should never be imported to servers running older software (i.e. 2016 or earlier). Doing this is likely to result in unrecoverable corruption of the database. However, 2017 servers can import a 2016 database.
- 3. Older Windows operating system need to have run Windows updates in order to install Windows 10 Universal C Runtime. **See Critical Change #1 for details.**
- 4. The OpenCL driver is required. **See Critical Change #2 for details.**
- 5. Unit groups for a user are no longer supported. Unit groups will be supported for connection to sites running earlier software versions.
- 6. CathexisVision 2017 is backwards compatible with CathexisVision software versions 2015 and 2016. However, older software cannot connect forwards to CathexisVision 2017.

1 Critical Changes

#	Key area	Software Change	Type
1	Core	<p>CathexisVision 2017 uses updated Windows runtime libraries. This means that the Windows 10 Universal C Runtime update must be run on systems prior to Windows 10 (see list below).</p> <p>This update requirement applies to:</p> <ul style="list-style-type: none">) Windows Server 2012 R2) Windows 8.1) Windows RT 8.1) Windows Server 2012) Windows 8) Windows RT) Windows Server 2008 R2 Service Pack 1 (SP1)) Windows 7 SP1) Windows Server 2008 Service Pack 2 (SP2)) Windows Vista SP2 <p>Windows XP and earlier is not supported.</p> <p>Windows updates can be run, or the specific update KB2999226 may be run. The Windows 10 Universal C Runtime update can be downloaded from: https://support.microsoft.com/en-us/kb/2999226.</p> <p>Running the KB2999226 update has prerequisites, and you may first need to install:</p> <ul style="list-style-type: none">) Windows Vista Service Pack 2 (download from https://support.microsoft.com/en-us/kb/935791)) Windows 7 Service Pack 1 (download from http://windows.microsoft.com/installwindows7sp1)) Windows Server 2008 Service Pack 2 (download from https://support.microsoft.com/en-us/kb/968849)) Windows Server 2008 R2 Service Pack 1 (download from http://go.microsoft.com/fwlink/?LinkID=199583)) Windows RT 8.1, Windows 8.1, and Windows Server 2012 R2 update <ul style="list-style-type: none"> o KB2919442 (download from https://support.microsoft.com/en-us/kb/2919442) o then KB2919355 (download from https://support.microsoft.com/en-us/kb/2919355) 	Modification
2	Core	<p>The OpenCL™ driver is required. This is usually installed by the graphics card driver, but we have seen instances on virtual machines where that driver is not present. On these virtual</p>	Modification

		<p>machines the graphics device is an Intel® device and installing the Intel® OpenCL™ drivers resolves this issue. The Intel® OpenCL™ drivers can be downloaded from https://software.intel.com/en-us/articles/opencl-drivers.</p> <p>Please note: The OpenCL™ Runtime for Intel® Core™ and Intel® Xeon® Processors can be used on VM's without OpenCL.</p>	
3	Core	<p>2017 systems <i>cannot</i> be downgraded to earlier software versions. Video databases created on a 2017 server should <i>never</i> be imported to servers running older software (i.e. 2016 or earlier). Doing this is likely to result in unrecoverable corruption of the database. However, 2017 servers <i>can</i> import a 2016 database.</p>	Modification
4	NetBSD	Removed support for NETBSD servers in 2017.	Deprecated
5	Site management	Unit groups for a user are no longer supported. Unit groups will be supported for connection to sites running earlier software versions.	Deprecated

2 Feature Changes

#	Key area	Software Change
1.	Analytics	Added camera tamper analytics to the software.
2.	API	Added new site API based on HTTP/RTSP/SIP.
3.	Archive	The following extra security measures have been added to the archiving process: <ul style="list-style-type: none">) The overall archive signature is retained.) Critical portions of video/audio are now also independently signed and can be explicitly linked to the source NVR.) Added extra audit logging regarding an archiving client on each NVR sourcing data for an archive.) Provided more detailed breakdown in the archive viewer of the verification result.) Archives are now encrypted when a password is set when creating an archive.
4.	Cathexis framegrabbers	Added support for 64-bit drivers for Cathexis compression cards in Linux systems.
5.	Core	H265 decoding support has been added and is available for use in future camera integrations.
6.	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.
7.	Integration	An overlay has been added for the Matrix barcode reader integration.
8.	LPR	The following changes to the LPR have been made: <ul style="list-style-type: none">) Added LPR API.) Added LPR device access rights.) Added meta-information (place of issue etc.) to LPR detection.
9.	Network devices	Added the inMotion camera integration.
10.	Network devices	The following changes have been made to the Milesight driver: <ul style="list-style-type: none">) Added support for inputs.) Streaming JPEG using Live555 only.) Limiting JPEG resolution to 1280x960.) Only publish feeds that have been configured.
11.	Network devices	Added the following features to the UDP Technology camera driver: <ul style="list-style-type: none">) PTZ control via serial port.) Streaming video via RTP/TCP.) Onboard PTZ support.
12.	Review	Added the snap search feature. This feature uses snapshots taken in review to search recorded video for similar frames.

13.	User interface	Added adjacent cameras feature. This feature allows cameras to be mapped in the software to resemble their physical site locations, thus operators are able to swiftly navigate between adjacent cameras.
14.	User management	LDAP/Active Directory now supported. Only available on Pro and Premium sites.

3 Modifications

	Key area	Software Change
1.	API	HTTP server is now able to receive POST content up to 10MB.
2.	Archive	Removed meaningless 'Client Device' field in archive file inspection window.
3.	Audit	Added auditing for new review and archive systems.
4.	CatObserver	Added CathexisObserver password protection.
5.	Install	The desktop shortcut to CathexisVision on Fedora16 has been updated as it was still using the old naming convention.
6.	Integration	The following updates have been made to the inMotion SEEKER Metal Detector API: <ul style="list-style-type: none">) Implemented a new SEEKER API.) The old API can still be used by selecting a tick-box in the driver setup.) Sensor sensitivity and sensor name are now displayed on the overlay.) The driver now supports an Ethernet connection.
7.	Integration	The version information of both the alarm panel and the IPC module have been added to the RiscoSystem object.
8.	Integration	The initial setup of the postgres database, within which individual databases are created, is now allowed to use up to 50GB on Linux and Windows.
9.	Network devices	Please note the changes regarding the Bosch V2 driver: <ul style="list-style-type: none">) Only allows 2 streams which must be added consecutively (1, 2).) If the first stream is deleted, it will delete the second stream as well.) If the second stream is deleted, the first stream will stay in place.
10.	Network devices	The following changes were made to the Vivotek driver: <ul style="list-style-type: none">) Added support for RTP/TCP.) Resolved a PTZ issue where the user was occasionally not able to control the focus or go to a preset.
11.	User interface	PTZ joystick design has been improved for better user experience.

12.	User management	<p>The following changes have been made to the user management system:</p> <ol style="list-style-type: none">1. A new user management system replaces that found in earlier versions of the software. Previously there were 2 modes of operation:<ul style="list-style-type: none">○ Server-based users where every server had its own set of users○ Site-based users <p>Now all users are site-based which means that the configured users and their access rights will be applied to all servers on the site.</p> <p>Old user databases will automatically be converted to the new form. Please note the following regarding the conversion process.</p> <ul style="list-style-type: none">○ For old systems using server-based users, the users on the master will become the new site users○ 'change own password' will be reset and will be disabled by default. This can be changed in the user setup.○ 'show all resources' will be reset and will be disabled by default. This can be changed in the user setup.○ The concept of unit groups has been deprecated and is no longer presented for CathexisVision 2017 systems. <ol style="list-style-type: none">2. When connecting to older systems the original user management interface will still be used.3. NVR now supports importing users from an LDAP server. Only available on Pro and Premium sites.
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4 Fixes

	Key area	Software Change
1.	Archiving	Use Linux file dialog with USB shortcuts for archiving.
2.	Failover	Corrected a problem where the Linux installer removed the file marking a system as a failover server.
3.	Integration	Fixed a problem with ProWatch where 'door forced' events were not linked to valid objects.
4.	Integration	Fixes have been made to the Ziton ZP2 Fire Panel states to say offline and online only; other status changes are reported as events.
5.	Map	The following apply to the Map Editor: <ul style="list-style-type: none">) Fixed the saving of tooltips.) To display maps or edit maps using the Map Editor, the viewing system must support at least OpenGL 2.0.
6.	Network devices	Fixed a crash in CNB driver.
7.	Network devices	The following fixes have been made to Dahua cameras: <ul style="list-style-type: none">) Some Dahua models identify the 5MP resolution differently to when support was first implemented. This identifier is now handled.) Previously, if a Dahua camera was re-powered, it would take over 3 minutes to show up again on CathexisVision. It now appears within a few seconds after the camera initialises.) Transport options have been added to the Dahua driver.
8.	Network devices	The following changes have been made to Hikvision cameras: <ul style="list-style-type: none">) JPEG quality settings have been corrected on the Hikvision DS-2CD6412FWD.) Correctly focus near and far on Hikvision DS-2DF1-718.) Prevented crash that occurred if feeds were configured out of order in Hikvision driver.) Support Iris and Focus on Hikvision DS-2DF1-718.
9.	Network devices	Improved the jerky, live display for high frame-rate cameras.
10.	Network devices	Resolved an issue with motion detection triggers where occasionally trigger messages were not received from some Acti cameras.
11.	Review	Fixed an occasional corruption in MPEG4 review.