



# CathexisVision 2019.2 Release Notes

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Types	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 2019 Update Notices

- i. From 2019 onwards, all sites support direct SV connections, which relates to streaming video to Video Walls. The “Allow direct SV connections” setting (Enterprise Manager → Site Properties) has been removed from the interface.
- ii. From 2019 onwards, varying levels of encryption is supported for all external site connections. Previously it was only available on high priority connections.
- iii. CathexisVision 2019 will be the last release to support Windows 32-bit installs.

### General Notices

- 1. CathexisVision 2018 is the last release to support the Linux Fedora 16 operating system.
- 2. From CathexisVision 2018, the user interface may connect to previous versions of CathexisVision Server software, but with a loss of functionality. It is recommended that the viewing software and the recording software be of the same major version.
- 3. Support for Windows Vista and Windows Server 2008 has been dropped from CathexisVision 2018.3 and onwards. Support for Windows Server 2008 R2 remains.
- 4. The ID process used for licensing a system running on a virtual machine changed in CathexisVision 2018.
- 5. 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.
- 6. The multisite user interface has been discontinued from 2016 onwards.
- 7. 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.
- 8. AVM3000 framegrabbers and SAM1000 encoders are not supported from CathexisVision 2016 onwards.

## 1 Critical Changes for 2019.2

#	Key area	Software Change	Type
1.	API	<p>API. The following changes have been made to the API:</p> <ul style="list-style-type: none"> <li>• A large number of alarms queued for transmission would cause the API server to restart. This has been fixed by limiting the transmission queue to a maximum of 1000 alarms.</li> <li>• The reference image request for the help documentation is changed from <b>/referenceimage&amp;camera_id=C</b> to <b>/referenceimage?camera_id=C</b>.</li> <li>• When recorded video was fetched from the API server using the "pull" flag, the client received corrupt video. This is fixed.</li> </ul>	Modification
2.	Core	<p>Alarm. If an event was started while a camera was offline, the recording alarm for the event continued to trigger after the camera came back online. This is fixed.</p>	Fix
3.	General	<p>Outlook. When the default email client is Outlook, the emailing of Sherlocks and reports on Windows is fixed.</p>	Fix
4.	Site	<p>Site Connections. The number of per process sockets on Windows limited clients to 64 simultaneous site connections. This number is now increased (2019).</p>	Modification
5.	System Monitoring	<p>NVR. The NVR now includes stats from the DFI SD311 motherboard in the environment report. E.g. CPU, system temperature, and fan speed.</p>	Feature

## 2 Feature Changes for 2019.2

#	Key area	Software Change	Type
1.	Analytics	Line Triggers. Within Intermediate and Advanced analytics suites, advanced line triggers will now display an arrow in the direction of the trigger.	Modification
2.	Analytics	Motion Search Database. Changes to the motion search database size will now take effect.	Fix
3.	Analytics	Object Classification. The following changes have been made to Object Classification analytics: <ul style="list-style-type: none"> <li>• Object tracker can now filter based on object classification such as person, vehicle, and/or animal.</li> <li>• Resolved scaling improves classification of objects at a distance.</li> <li>• Once object classifier is enabled, the object classification information will appear in the existing 'Object' tracker overlay. Overlay settings may be customised.</li> <li>• Fixed object classification database when running on a single server site without a valid IP address.</li> </ul>	Modification
4.	Analytics	Reference Image. Reference image comparison is now fixed when cameras have a large privacy zone.	Modification
5.	ANPR	Hikvision ANPR camera integration. Fixed the HikVision ANPR camera integration when the camera's time zone offset is set to 0. Previously the camera did not format the ANPR event time correctly.	Fix
6.	ANPR.	ANPR. A JPEG image of the frame within which the license plate is detected can now be sent with the notification for HikVision and Dahua cameras. <b>Note:</b> This only affects the API because the image is not sent if the frame is not in JPEG format.	Fix
7.	Archiving	Archive Player. An issue with zoomed viewport scrolling in the multi-camera archive player is fixed.	Fix
8.	Codecs	Decode performance has been improved.	Modification
9.	Database	Video database. Video database file corruption is now prevented in cases where there is an unexpected shutdown on Windows operating systems.	Fix

#	Key area	Software Change	Type
10.	Failover	Failover. The following changes have been made to the failover: <ul style="list-style-type: none"> <li>When the master fails, and the hotspare runs as the temporary master, the time the slave unit takes to find the master is reduced from approximately 5 minutes to a few seconds</li> <li>A failover system crash, when failing over a single camera, is now prevented.</li> </ul>	Modification
11.	I/O	CNVR driver. The CNVR driver was unable to read the I/O and this caused nvr_io to go to 100% CPU usage. The driver has been updated and this is fixed.	Fix
12.	Integration	Cathexis POS Simulator. The Cathexis POS Simulator heartbeat messages will now be shown/hidden based on the status of the heartbeat tick box.	Modification
13.	Integration	Galaxy v2. The following improvements have been made to the Galaxy v2 integration: <ul style="list-style-type: none"> <li>There were several issues where the Galaxy v2 integration may become unresponsive. This is fixed.</li> <li>There were repeated disconnections after the TCP out connection went down. The problem is solved.</li> </ul>	Modification
14.	Integration	Impro IXP20. The following changes have been made to the Impro IXP20/Portal Lite integration: <ul style="list-style-type: none"> <li>There was a crash when entering the door setup. This is fixed.</li> <li>The Windows firewall prevented the CathexisVision user interface running the integration setup when the user interface was not run on Cathexis VMS. This is fixed.</li> <li>Added the events "Denied Lockdown In", "Denied Lockdown Out", and "Terminal Online".</li> <li>Product ID's have been updated.</li> </ul>	Modification
15.	Integration	Integrations. The line spacing, and vertical position, of the text-box overlay used by several integrations, is modified.	Modification
16.	Integration	JVA object properties. Fixed an issue where events configured to trigger based on certain JVA object properties did not work.	Fix

#	Key area	Software Change	Type
17.	Integration	Maxxes. Several modifications have been implemented with the Maxxes Access Control integration (2019): <ul style="list-style-type: none"> <li>• Parsing of input data is more robust.</li> <li>• Logging of SQL errors is fixed.</li> <li>• The integration caused high CPU usage. SQL queries are now done in a separate thread and the integration will no longer block while waiting for SQL queries.</li> <li>• 'State' field is added back to messages.</li> </ul>	Modification
18.	Integration	Mettler Toledo scales. CathexisVision can now receive events from Mettler Toledo scales, using the SICS protocol, over serial port.	Feature
19.	Integration	Pro-Watch integration. The Honeywell Pro-Watch integration will now reuse the same connection when determining whether or not the event subscription is valid.	Fix
20.	Integration	Risco LightSYS . A rare issue in the Risco LightSYS integration caused a message from the panel to be decrypted incorrectly. This is fixed.	Fix
21.	Integration	Risco ProSYS Integration. The Risco ProSYS integration server had a bug that sometimes caused it to crash. This is fixed.	Fix
22.	Integration	Videoguard. The NVR can now send the following events to Videoguard's web service: <ul style="list-style-type: none"> <li>• Video loss/restored.</li> <li>• Manual recording started/stopped.</li> <li>• Disk error.</li> </ul>	Feature
23.	Integration	Winpak integration. The Winpak AC integration has been added.	Feature
24.	Logic	Event variables for device events triggers are now fixed.	Fix
25.	Metadatabase	Metadatabase. Extended filtering has been added to scheduled metadatabase reporting.	Feature
26.	Network Cameras	Bosch. "Enable fast input polling" has been added to Bosch Cameras. This advanced option polls a camera for input status as soon as possible. <b>Note:</b> This will have an adverse effect on camera CPU usage in older/slower cameras and will be off by default.	Feature
27.	Network Cameras	Canon. Edge is now available on Canon cameras that support Onvif Profile G.	Feature
28.	Network Cameras	HikVision Camera. The ANPR overlay for the HikVision camera had the incorrect time, when daylight savings is in effect. This issue is circumvented.	Modification
29.	Network Cameras	Mobile/web interface. When the NVR has camera names containing backslashes, the mobile/web interface is fixed.	Fix

#	Key area	Software Change	Type
30.	Network Cameras	Mobotix V2 driver. An issue setting up the H264 bitrate in the Mobotix V2 driver is resolved.	Fix
31.	Network Cameras	ONVIF Edge. The ONVIF edge driver now deals with use cases, which previously were a problem.	Fix
32.	Network Cameras	ONVIF V2 Driver. Resolved an issue with setting a JPEG stream on the ONVIF V2 driver.	Fix
33.	Network Cameras	UNV (Uniview). The following changes have been made the UNV driver: <ul style="list-style-type: none"> <li>• Audio output is now supported.</li> <li>• Some cameras were incorrectly showing audio output. This issue has been resolved.</li> <li>• There is now an advanced setting that forces an audio output if the driver fails to detect one.</li> <li>• A workaround has been put in place for invalid JSON data. Event triggers will now be more reliable.</li> <li>• Edge review is now supported.</li> <li>• PTZ is now supported.</li> </ul>	Modification
34.	Point of Sale	ProdevTech POS integration. CathexisVision now integrates with ProdevTech point of sale devices.	Feature
35.	Review	User Interface. Transcoded review modes (240p, 480p, 720p), in the user interface, have been fixed.	Fix
36.	System Monitoring	Cameras. A camera report that lists the currently failed cameras is added.	Feature
37.	User Interface	Windows. There were problems with the device tab layout on Windows. This is fixed.	Fix
38.	User-Interface.	GUI. When a bookmark is removed, there was a potential GUI crash. This is fixed.	Fix