



# CathexisVision 2021.2

## Release Notes

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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.

# 1. General notices

Types	Feature (Addition)	Modification (Change)	Fix (Problem fix)	Deprecated (Removed)
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**Note:**

- I. Further information on the cameras listed in these Release Notes should be found here: <http://integrations.cathexisvideo.com/supported-i-p-cameras>
  - II. Further information on integrated devices listed in these Release Notes should be found here: <http://www.cathexisintegrations.com/supported-integrations>
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 Window 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.
  9. 2020 is the last release to support Ubuntu 12.04.
  10. Windows 32-bit of CathexisVision is not available from CathexisVision 2021. For guidelines on converting 32-bit software to 64-bit, see the relevant document, **Converting 32-bit Software to 64-bit App-note**.

### A NOTE ON CAMERA CHANNELS

The CathexisVision software packages have **limits on camera channels**. A multi-sensor camera is physically a single device (camera) but it **requires a camera channel for each one of the internal cameras**. The same applies to an encoder: a 16-channel encoder will account for 16 camera channels on the CathexisVision software, even though it is a single device. Even when a camera or device only uses a single IP license, the camera channel limit will still apply.

### USEFUL LINKS

To view **tutorial videos** on CathexisVision setup, visit <https://cathexisvideo.com/resources/videos>

Find answers to Cathexis **Frequently Asked Questions**: <https://cathexis.crisp.help/en/?1557129162258>

## 2. Critical changes for 2021.2

#	Key area	Software Change	Type
1.	Analytics	<p>Basic object classifier.</p> <ul style="list-style-type: none"> <li>- Hold object trigger in area for 'n' seconds.</li> <li>- Occupancy API available in basic object classifier algorithm. Changes to occupancy triggers.</li> <li>- Improved tracking of missing objects.</li> <li>- Added minimum/maximum object size.</li> <li>- Changes to custom minimum motion. When tracking still objects temporarily, a custom minimum motion can be selected. Added lower option for processing frequency.</li> </ul>	Feature
2.	Analytics	<p>People proximity. Improvements:</p> <ul style="list-style-type: none"> <li>- Allow algorithm to run in threaded mode when possible;</li> <li>- Use improved tracker;</li> <li>- Merge close objects;</li> <li>- Classify on motion.</li> </ul>	Feature
3.	Integration	<p>CathexisVision now integrates with:</p> <ul style="list-style-type: none"> <li>- Matrix COSEC Access Control</li> <li>- Jablotron Alarm Panel directly through a serial port.</li> <li>- Multitone i-Message.</li> <li>- Vivotek License Plate Recognition.</li> <li>- Urmet Access Control.</li> </ul>	Feature
4.	Integration	<p>Wisenet. Added support for Wisenet FFGroup LPR app.</p>	Feature

### 3. Feature changes for 2021.2

#	Key area	Software Change	Type
1.	Analytics	Basic object classifier. <ul style="list-style-type: none"> <li>- Improved object tracking.</li> <li>- Added classifier results overlay. Change to min motion check. Only show selected occupancy metric in area overlay.</li> </ul>	Modification
2.	Analytics	Basic object classifier. <ul style="list-style-type: none"> <li>- Thumbnails API.</li> <li>- Fixed crash when detected objects are extremely small.</li> <li>- Change to basic object classifier in area rule, to only trigger on recent object in area.</li> <li>- Fixed auto setting on Intel models so that target didn't have to be set manually.</li> </ul>	Fix
3.	Analytics	Human pose estimator. Limit human pose estimator max score to 100.	Fix
4.	Analytics	Models. Assigning models person-detection-retail-0013 and person-vehicle-bike-0078 to algorithms.	Fix
5.	Analytics	Neural network algorithms. Alternate method for detecting enabled Nvidia cards.	Fix
6.	Analytics	Object tracker. <ul style="list-style-type: none"> <li>- Fixed so that human pose estimation model returns classifications in object tracker.</li> <li>- Fixed bug in flare suppression.</li> </ul>	Fix
7.	Analytics	Occupancy. The occupancy trigger will now respect the user's selection of current, average or maximum count/area for triggering.	Feature
8.	Analytics	Still object detection. Option added to trigger on appeared or disappeared objects.	Modification
9.	Analytics	Still object. Fixed typos.	Fix
10.	API	API. Added support for MxPEG review and live camera feeds in the API.	Feature
11.	API	API. Fixed choppy and delayed audio when using the API to transmit audio to a network speaker.	Fix
12.	API	API. <ul style="list-style-type: none"> <li>- Added the option to set the UDP port range used for SIP audio in the API.</li> <li>- Improved transcoded API transmission of mxpeg video in low bandwidth conditions.</li> </ul>	Modification

#	Key area	Software Change	Type
		- Included an option for a user with the correct permissions to hide the privacy zones in an API stream. The API version has been bumped to 1.008.1.	
13.	Archive Player	Archive Player. Fixed missing face redactor files in standalone Enterprise desktop app and standalone installations.	Fix
14.	Archive Player	Changed process to deal better with video and audio being exported to MP4 when there are gaps in the source recording.	Fix
15.	Archive Player	MP4 archive. Capped time jumps in MP4 archive to 3 seconds.	Fix
16.	Archive Player	MP4 Writer. Fixed crash when exporting an mp4 that has no audio.	Fix
17.	Archive Viewer	The standalone Windows archive viewer has changed from a 32-bit to a 64-bit application.	Modification
18.	Archive Viewer	Archive Viewer. - Fixed overlay context menu in Multi-camera Archive Viewer. - Fixed running Archive Viewer on Windows where ngraph.dll is not already in the system path.	Fix
19.	Cameras	Added camera MAC address to camera setup report.	Feature
20.	Cameras	Dahua. Added a LPR model DHI-ITC215-PW6M-IRLZF to list.	Fix
21.	Database	Prevent chance of excessive nvr_fsdb memory usage when loading a corrupt partition file.	Fix
22.	Database	Fixed issue in database usage report where camera span isn't populated.	Fix
23.	Database	Fixed retrieval of disk size on systems where the local uses a '.' For the 1000s separator.	Fix
24.	Database	Disabled pre-event writes to SSD by default. Unless the target path for pre-event disk space is overridden, the pre-event footage will be cached in memory only if the primary disk is an SSD.	Modification
25.	Database	Added option to specify target location for pre-event disk-based storage. Added option to specify that only memory should be used.	Modification
26.	Database	The following can now be configured for pre-events: - Maximum memory to use - Use of disk cache - Location of disk cache	Modification
27.	Enterprise	Added support for event distribution to a connected Enterprise.	Feature

#	Key area	Software Change	Type
28.	Enterprise	Properly communicate changes to the Enterprise when cameras are enabled and disabled. Previously, a reboot on the VMS was required for the changes to reflect.	Fix
29.	General	Added detailed log of emails sent by the system.	Modification
30.	General	Fixed issues with the scheduled report server running on the latest Ubuntu 20 releases.	Fix
31.	General	Increased the maximum number of site actions in a site action group from 6 to 8.	Modification
32.	General	Fixed potential memory leak with MxPEG frame handling.	Fix
33.	General	Apache server update 2.4.47 and PHP 7.4.19	Modification
34.	General	Translation. Fixed Russian translation of "Edit".	Fix
35.	GUI	Audio. By default, only a single audio stream will play when viewing or reviewing video footage. This can now be changed to allow simultaneous playback of audio from multiple video feeds.	Modification
36.	GUI	Improved the review system's handling of corrupt database slices.	Fix
37.	GUI	Fixed crash in UI when setting up streaming video CPU affinity on a system with more than 32 cores.	Fix
38.	GUI	Fixed time constraint for meta-database scheduled reports.	Fix
39.	Integration	ACT driver. Use global ID for the doors.	Fix
40.	Integration	Bosch V2. Added audio out.	Fix
41.	Integration	Galaxy. Fixed an issue where some zone states may not update.	Fix
42.	Integration	Galaxy V2. Fixed a bug which may cause the zone states to be incorrect under certain conditions.	Fix
43.	Integration	Galaxy Alarm Panel. <ul style="list-style-type: none"> <li>- Prevented invalid zone status from the alarm panel from being processed.</li> <li>- Increased the frequency at which the integration requests the zone status from the Galaxy Alarm Panel.</li> <li>- Fixed an issue where a zone object can change state, without a "zone state change" device event.</li> <li>- Fixed an issue with how the zone and group numbers are determined for the "zone event" and "group event" device events respectively.</li> <li>- Added a warning log when the main communication channel goes down.</li> <li>- Fixed incorrect zone events after re-establishing a connection to the Galaxy Alarm Panel.</li> </ul>	Fix

#	Key area	Software Change	Type
44.	Integration	Gallagher. Display a device event when the required Command Centre license is missing.	Modification
45.	Integration	Ipsotek XML. Fixed a bug that could rarely cause an event to be displayed twice.	Fix
46.	Mobile	Enterprise Mobile. Hide back button for initial Enterprise settings in mobile app.	Fix
47.	Network cameras	Fixed crash when using ONVIF v2 camera driver.	Fix
48.	Network cameras	Vivotek. Added the AV Streamer transport type to the Vivotek driver in order to handle high resolution streaming issues with the MS9321-EHV camera.	Feature
49.	Video Wall	Added the option to show live time overlay and set the fill mode in the accelerated video wall. <b>Note:</b> these settings are only available for all monitors – there is no per-monitor option.	Feature
50.	Video Wall	Removed milliseconds from video wall live time.	Modification