



CathexisVision 2023.1

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: <https://cathesisvideo.com/supported-integrations/cameras/>
 - II. Further information on integrated devices listed in these **Release Notes** should be found here: <https://cathesisvideo.com/video-monitoring/support-integrations/>
1. **CathesisVision 2016** is the last major release to support the viewing of wavelet video (and VOM2x10 cards). **CathesisVision 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. The multisite UI has been discontinued from **2016** onwards.
 3. AVM3000 frame-grabbers and SAM1000 encoders are not supported from **CathesisVision 2016** onwards.
 4. From **CathesisVision 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.
 5. **CathesisVision 2018** is the last release to support the Linux Fedora 16 operating system.
 6. From **CathesisVision 2018**, the UI may connect to previous versions of CathesisVision 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.
 7. Support for Windows Vista and Windows Server 2008 has been dropped from **CathesisVision 2018.3** and onwards.
 8. The ID process used for licensing a system running on a virtual machine changed in **CathesisVision 2018**.
 9. **2020** is the last release to support Ubuntu 12.04.
 10. **CathesisVision 2021** is the last release with a 32-bit installer for Windows. For guidelines on converting 32-bit software to 64-bit, see the relevant document, [Converting 32-bit Software to 64-bit Software App-note](#).
 11. The Carbon UI is supported from **CathesisVision 2022** onwards.
 12. CathesisVision Mobile is supported from **CathesisVision 2022** onwards.
 13. **CathesisVision 2021** is the last release to support Windows 7, Windows 8, Windows 8.1 and Windows Server 2008 R2.
 14. **CathesisVision 2023** can only connect to sites running **CathesisVision 2019** and above.
 15. **CathesisVision 2023** is the first CathesisVision server version to support the MultiSite server.

2. General Changes for 2023.1

2.1 Features

	Key area	Software Change
1	Analytics	ANPR. Added support to the ANPR system for detecting the vehicle type, make, model, and colour. This has been implemented for the Axis (using the FF Group plugin) and Dahua cameras.
2	Analytics	Feature Search has been added. Feature Search allows the user to select an image of a person or vehicle, and search camera feeds for similar images. Feature Search is <i>only available in the Carbon UI</i> . For Feature Search to work, the Features Database needs to be enabled on the CathesisVision VMS.
3	General	Added support for push notifications from VMS sites.
4	General	CathesisVision 2023 is the first CathesisVision Server version to support the MultiSite server.
5	Integration	The following integrations have been added: <ul style="list-style-type: none"> • AVS Alarm • Dormakaba Access Control • SPAR dStore POS • Weighcomm Weighbridge
6	Network cameras	Mobotix. Added support for ONVIF edge review and insertion for Mobotix cameras.
7	Videowall	Added new 'site spot monitor' type. This monitor type connects to its local site <i>only</i> and can be controlled from the Carbon UI. It also supports site logic monitor control (camera to monitor, layout to monitor, sequence to monitor, salvo to monitor).

2.2 Modifications

	Key area	Software Change
1	Analytics	Added deep neural net AI thermal models for cameras (using the latest YOLO v5 technologies) and added additional equivalent RGB models. The AI backend was also updated to make use of cutting-edge AI developments.
2	Analytics	Basic object classifier. Added custom processing frequency (in fps).
3	Analytics	Object classifiers running on the Intel GPU can cause the analytics server to crash, or the entire Windows operating system to hang. This is caused by out-of-date Intel video controller drivers. The system now falls back to using the CPU for object classification if the drivers are out-of-date. Note: Intel video controller drivers must be version 31 or later in order to be up-to-date.
4	User Interface	<ul style="list-style-type: none"> • The option to view a camera in false colour has been removed. • The option to use 'fastest scaling' in has been removed. • CathesisVision resources with numerical prefixes are sorted numerically.

5	Integration	ANPR. Adjacent tokens are no longer combined when importing ANPR license plates from CSV.
6	Integration	Nedap AC. Added 'Provide Access' command.
7	Integration	RS2 Technologies Access Control. Added ability to connect to a single site.
8	Integration	Mettler Scale UC3 <ul style="list-style-type: none"> • Added camera overlay. • Added support for sending transaction data to the Edeka POS integration.
9	Integration	Technoswitch Fire Panel. Added support for multiple camera links in the integration database.
10	Integration	Edeka POS <ul style="list-style-type: none"> • When determining if a "WaageTransaction" object should be deleted, the time an object was paid for is used, instead of the time the object was weighed. • Added an option which, when enabled, deletes all "WaageTransactions" at midnight.
11	Integration	Impro AP LITE/IXP20 Access Control <ul style="list-style-type: none"> • Added support for controller version 3.18 +. This provides 32 readers and adds user enrolment options. • Changed the records window time format to be consistent with other integrations. Note: This also fixes a bug where there was a newline character at the end of the time. • Removed the option to disable a door on The Impro AP LITE/IXP20 Access Control due to a limitation on newer firmware versions.
12	Integration	Impro Portal. Set several properties of the Terminal object in this integration to "Unknown" at startup.
13	Licensing	Premium sites no longer require failover camera licenses.
14	Network cameras	Axis cameras. Added a dropdown option in the advanced tab for the Axis driver to disable the heartbeat. This is on auto by default (which will check if there are cameras that can handle the heartbeat) but can now be turned on and off manually.
15	Network cameras	ANPR cameras <ul style="list-style-type: none"> • Axis FF Group ANPR. Added vehicle type, make, model, and colour to data detected. • Dahua ANPR. Added vehicle colour, type, make, and model, ANPR, and plate colour to data detected. • Wisenet FF Group ANPR. Reverted to previous method of LPR detection and added custom settings (Auto, On, Off).
16	Network cameras	ONVIFv2 driver. Added the "Enable horn speaker settings" option to the ONVIFv2 driver's Advanced options. This prevents a device without any video feeds, such as a horn speaker, showing a video feed error in the resources.

17	Network cameras	Improved encrypted camera connection performance using multiple CPU cores.
18	Network cameras	Changed access rights for audio I/O on cameras. Previously all independent audio inputs and outputs were accessible to all access levels. If the audio input or output is on a camera, access is now granted based on the 'audio listen' and 'audio call' access rights for the camera.

2.3 Fixes

	Key area	Software Change
1	General	LDAP <ul style="list-style-type: none"> Fixed issue where LDAP failed to connect on Linux Fixed issue when importing LDAP users on Windows
2	General	Media files where the source video width or height exceeds 8192 pixels are now exportable.
3	Integration	Improve AP LITE/IXP20 Access Control. Fixed issue with newline character at the end of the time.
4	Integration	Mettler Scale UC3. Fixed a crash when the integration is disabled, and then enabled.
5	Network cameras	Encrypted camera connections <ul style="list-style-type: none"> Fixed connection and communication reliability issue. Fixed multiple feed streaming for encoders encrypting streams. Added RTSP tunnel header with the aim of helping the proxies handle the streams better by keeping them from caching the transaction. Improved stream startup when using camera encryption.
6	Network cameras	Edge insertion <ul style="list-style-type: none"> Fixed an issue where 'edge insertion' may get stuck when the inserted frames are too large. Fixed an issue where the end time of the inserted frames could be incorrectly tracked if the camera went down while footage is being inserted.
7	Network cameras	Camera factory drivers <ul style="list-style-type: none"> Bosch NBN-80052-BA. Fixed audio out authentication. Dahua DH-TPC-BF1241. Fixed parsing capabilities problem.