













CatVision 2014 Release Notes

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Type	Severity
Modification	 Critical
Feature [addition]	 Major
Problem [fix]	 Normal
Bug [fix]	 Minor
Removed	 Informational



Note:

- I. further information on cameras listed in these Change Notes should be sought here:
<http://www.cathexisintegrations.com/supported-i-p-cameras/>
- II. Further information on integrated devices listed in these Change Notes should be sought here:
<http://www.cathexisintegrations.com/supported-integration/>







¹ 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 Critical















#	Severity	Type	Software Change	Key area
1		-	CatVision 2014 (5043b1) and higher will not be supported on older NetBSD 1.6 DVR units.	Compatibility
2		Bug	Force the MSI installer to overwrite files even if they are newer. This fixes a problem caused by the fact that the installer would not overwrite files that had been manually added to the installation folder.	Industrialisation
3		Bug	Updated HTML API version to 2.001 This fixes problems that were causing: <ul style="list-style-type: none"> • Increased memory, and CPU usage • Our of memory errors that caused crashes 	Mobile
4		Bug	Fixed a problem with Encoder Setup not being able to set encoder IP's when using Windows 7/XP/8. NB: Encoder Setup now requires administrator privileges to run correctly in Windows. The Windows User Account Control (UAC) notifies users when a program wants to elevate its privileges and requires the user to accept or reject this request. This prompting will happen twice when Encoder Setup is started and twice when it is closed. The user must accept the request for elevated permissions or Encoder Setup will not function correctly. On Windows 7 this can be avoided by <ol style="list-style-type: none"> 1. Running the Encoder Setup as an administrator (right-click icon and select Run as administrator) 2. Configure Windows UAC not to notify on permission changes 	Alarms
5		Bug	Fixed database delete issue where deleting a database could randomly result in another database being deleted.	Alarms
6		Bug	A technical coding change was made so that the GUI will not crash in Windows when the H264 feed is started.	Integration
7		Bug	Fixed potential crash when using the KBD3000.	User interface
8		Problem	The Vivotek FD8136 cameras only have one digital input, but send back states for two inputs. Added extra check for this condition.	Alarms
9		Problem	Fix potential stall of VOM15/VIO card MPEG4 video feeds.	Frame grabbers












10		modification	<p>A number of changes to the SAFLEC integration</p> <ul style="list-style-type: none"> • Event messages separated into each integration device object type. • Event message for each device type link to device object. • Metadatabase driver now contains Reader field for reader events. • Metadatabase entries now list tagholder and tag database ID's for lookup failures. • Object States have been removed because the NVR integration device is not guaranteed to receive all events and is therefore not able to represent the states accurately all the time. • Hook-up state changed from boolean to "Unknown, Unhooked, Hooking, Hooked". • Various unused object properties removed. 	Integration
11		modification	CatVision 2014 will not run on NetBSD with less than 512MB of RAM.	Industrialisation







2 Major

#	Severity	Type	Software Change	Key area
1.		Feature	<p>An event can be configured to a template.</p> <p>A trigger template allows you to add multiple triggers simultaneously to a single event.</p>	Logic
2.		Feature	<p>Extended SMTP server configuration</p> <p>This gives full email support, adding port connection security, and authentication options to the SMTP setup.</p> <p>The option to send a test email has also been added</p>	Configuration
3.		Feature	<p>Support has been added for automatically assigning the multicast addresses for cameras. Previously every camera would have to have a multicast IP and port assigned manually and any conflicts could cause problems and would be hard to debug.</p> <p>Every multicast address on a site needs to be unique. The address consists of a multicast group (which is an IP address) and a port. This pair needs to be unique, not the individual components.</p> <p>The way this works is that the site is assigned a large pool of multicast addresses which can be used. This is done by taking a range of N multicast groups (IPs) and a range of M ports in order to generate NxM addresses. Every unit in the site is assigned a range from this pool. When a camera is configured to use multicast, and the multicast type is set to auto, it will use one of these addresses for that camera.</p> <p>The multicast IP range, the port range and the number of addresses allocated to each unit are all configurable although the defaults should work in most cases. This can be done in the global settings page for the site. An important thing to note is that changing these settings will require every unit in the site to be restarted because the device multicast settings are reserved once they have been used.</p>	Network Devices
4.		Feature	<p>PTZ tours are a sequence of presets that a PTZ camera can be configured to run. They can be configured in the PTZ tab in the edit camera dialog, or by right clicking a PTZ camera in the camera pane.</p> <p>You may set access rights to start/stop these tours.</p>	Logic
5.		Feature	<p>Added the ability to play an audio clip as an Event Action.</p> <p>The audio may be played out of any of the server's audio outputs.</p>	Audio
6.		Feature	<p>Added disk monitoring for Windows and Fedora.</p>	Profiling

















7.		Feature	Implemented a high performance write policy for the Advanced Database, which will seek to balance the write load across multiple slices for improved performance.	Database
8.		Feature	Add user recordings feature in the Cameras Tab, which allows users to manually trigger recordings.	User interface
9.		Feature	Added the ability to send a Technical Alarm when an EIO is down.	lo
10.		Feature	Added audio input support, on Surveon Cameras	Network devices
11.		Feature	Add analogue matrix support to 5043 setup	Configuration
12.		Feature	Added a unit monitoring tech alarm. This a technical alarm that is generated when a unit on the site goes down.	Site Management
13.		Feature	Changes to the Alarm Gateway: <ul style="list-style-type: none"> Made a change to allow the launch of the Heartbeat Monitoring setup, from within CatVision. Fixed the gateway alarm to monitor function 	Gateway
14.		Bug	People Counting now works on 5043	Algorithms
15.		Bug	Fixed two bugs One that caused loss of an audio channel when mixing G.711A audio for a network device output. The other occurred where a stereo input on the motherboard (of a Win32 NVR) is incorrectly down mixed to mono.	Audio
16.		Bug	Fixed problem in Fedora software, where it would create a device driver node identical to the Cathexis watchdog driver, but for a different device. This caused problems when Cathexis software tries to talk to this driver.	Alarms
17.		Bug	Fixed a bug that caused the people counter algorithm to fail, or default to 'disabled' when it was added.	Algorithms
18.		Bug	Fixed potential corruption of a database slice after a file system error.	Database
19.		Bug	Fixed a bug that caused the NVR web server to cause very high CPU usage	Mobile
20.		Bug	Fixed a bug that wouldn't allow non-admin users to set encoder IPs using Fedora	Network Devices
21.		Bug	Fixed an issue where partition state errors would not force a partition rebuild. The result is that there will now be better handling of corrupt partition files in advanced databases.	Database
22.		Bug	Fixed a bug where the broadcast packets from encoders could be erroneously filtered out.	Alarms
23.		Bug	HikVision DS-610HFI-IP-A Fixed a PTZ problem with this encoder that caused commands to fail.	Integration














24.		Bug	Fixed Bosch MPEG4 live/review in API.	API
25.		Bug	Use default locale for floating point representations to standardise xml communication on Windows 8.	Core
26.		Bug	Fix a bug in the conversion of the gateway MySQL database to PostgreSQL.	Gateway
27.		Bug	Fixed a bug that caused constant switching between day/night modes on algorithms that had automatic Day/Night switching enabled.	Algorithms
28.		Bug	Switching between Day\Night modes configurations improved, on algorithms that have automatic Day/Night switching enabled	Algorithms
29.		Bug	Fixed a bug that caused Case attachments to fail to upload\download.	Gateway
30.		Bug	Fixed a bug in the MySQL to PostgreSQL conversion utility that caused it to not terminate on failure.	Gateway
31.		Bug	Fixed a problem switching between NTSC and PAL	Network devices
32.		Bug	Numerous Advanced Database Fixes/Improvements. Technical details below: <ul style="list-style-type: none"> • Improved vectoring performance in reader. • Fixed potential lockup of writer thread in Windows on misbehaving (probably virtual machine) CPUs. • Flush cached write data on request to allow access to recently written data in review. • Recover from unrecoverable partition read error. • Extended alarming on slice errors. 	Alarms
33.		Bug	Fixed a bug where a group alarm could not be acknowledged, when using the Moduteq 2W.	Integration
34.		Bug	Bug fixes and improvements to the Ixp20 integration: <ul style="list-style-type: none"> • Fixed a bug that caused a potential server crash if the device was edited/disabled/re-enabled • Added HTML stats for the Impro server • UDP IP is now automatically set by the driver to match the setup on the IXP20 controller. 	Integration
35.		Bug	Removed reliance on multicast for auto upgrading of SAM3's. This improves the reliability of the automatic upgrading.	Alarms
36.		Problem	Support MPEG4 AVI export from archive player. Note: Audio in MPEG4 streams recorded by VOM15/VIO cards is not currently supported in the AVI export.	Archiving
37.		Problem	Fixed a problem that meant that the H264 feed could not be configured in Constant Bit Rate mode on Hikvision camera model DS-2DF1-718 (and possibly many more untested Hikvision models).	Integration




38.		Problem	The license for the IXP220 has been changed from: FEATURE_DEV_AC_IMPRO To: FEATURE_CATVISION_ACCESS And a: CATVISION_ACCESS_DOOR Per door license has been added.	Integration
39.		Problem	Doors are now added to CatVision as they are used/activated. This means that to add/edit a door you must have an event occur at that door. This information cannot be pulled automatically from the Impro device. Importantly, it also means that the door states (whether they are open, closed, locked) are no longer accessible.	Integration
40.		Problem	Fixed an issue in Linux disk management, where formatting certain disks could potentially fail due to slightly wrong disk size geometry.	Database
41.		Problem	Fixed a problem where using an unlimited door license on the IXP220 would not license any of the doors	Integration
42.		Modification	Version 4.105 of the API is supported on Windows 7	API
43.		Modification	Disabled night settings could not be re-enabled, as they were when they were disabled. They would have to be configured again. Changes have been made to rectify this.	Algorithms
44.		Modification	Add the ability to enable/disable of Windows support user, from within the CatVision interface.	User interface
45.		Modification	Add Windows Support User, when installing CatVision.	Industrialisation
46.		Modification	A number of modifications to the IP camera setup options: <ul style="list-style-type: none"> • Allow driver type to be changed, for an existing camera. This allows a camera to be replaced with a camera of a different type. • Add camera information section to edit dialog and camera wizard. • Removed offline setup of IP cameras. • Minor display improvements. 	User Interface
47.		Modification	Added a button to launch meta database setup from Integration Setup under Configure Servers. The button is in the 'General' pane in the integration setup. Also added the standard 'New', 'Edit' and 'Delete' buttons to the meta database setup dialog to be consistent with the rest of the interface.	Configuration
48.		Modification	Increased the VOM15/VIO motherboard audio bitrate to improve the audio quality.	Frame grabbers














49.		Modification	Migrated gateway alarm forwarding to a new mechanism. Note: Alarm previews are not forwarded.	Gateway
50.		Modification	Modification to allow a <i>maximum</i> number of live streams to be configured for VGA monitors. This is done in the monitor setup. If the number of live streams is exceeded then the camera shows "Max live streams".	User interface
51.		Modification	Added the ability for netstep to configure itself automatically when the configuration file is not present. Automatic forwarding is only available on the site master unit for connections to configured slave units.	Communications
52.		Modification	Added ability to set up Vivotek serial port parameters (baud/stop bits/parity) from CatVision.	Network devices
53.		Modification	Added ability to add VGA monitors to Lite and Core systems.	Licensing
54.		Modification	Added support for a recording times report, on both Windows and Fedora.	















3 Normal















#	Severity:	Type	Software Change	Key area
12		Feature	Adding the DSC It100 alarm panel integration. (This is yet to be available on 5043 software)	Integration
13		Feature	Surveon CAM3361/CAM4365 Integration	Network Devices
14		Feature	An algorithm tab has been added to the Server Setup, in the Setup Tab.	Algorithms
15		Feature	The ability to Copy/Paste cameras has been added to the Cameras Section of the Server Setup	Configuration
16		Feature	Integrated the Skynet device	Integration
17		Feature	Added the option to send an email when a technical alarm is activated	Profiling
18		Feature	Added the option to send an email, as part of an event. (Found in the Events Setup)	Logic
19		Feature	Integrate the JVC VN-T	Network devices
20		Feature	Added a PTZ Home position as a feature. The camera can be configured to go to the home preset when manual control of the camera is relinquished, as well as after a period after the PTZ is controlled by the system e.g. an event action to switch a camera to a preset.	Core
21		Feature	Added base-stations tab to general setup, with option to send test alarm	Alarms
22		Feature	The API now supports Archiving.	API
23		Feature	Provide support for editing the RTSP address in the generic RTSP encoder.	Network devices
24		Feature	Added the following features: <ul style="list-style-type: none"> The Event Notifications Feature. Switch Display option in Events now allows 8 camera resources to be switched. Switch Display will now switch cameras equally across the available camera slots. 	User interface
25		Feature	Add access rights for inputs.	Configuration
26		Feature	Improved file system write performance for SAM3's, IVR's and MVR's	Network devices
27		Feature	Integrated the SAFLEC access control device	Integration











28		Feature	Added ability to archive meta-database transactions. Added a viewer, for viewing archived meta-database transactions.	Integration
29		Feature	Added a new integrated device: The DSC It100 alarm panel integration.	Integration
30		Feature	Integrated the Moduteq C range of devices	Integration
31		Feature	Integrated the Moduteq 2W range of devices	Integration
32		Feature	Integrate the Paradox EVO-series panels. Note: You will need a PTR3 printer module for the integration.	Integration
33		Feature	Integrated the Impro IXP20 device	Integration
34		Feature	You can now use the mouse scroll wheel to scroll the alarm archive pane.	Alarms
35		Feature	Allow the snapshot clipboard contents to persist between instances of the GUI. Also, added an option to enable or disable the persistent snapshot clipboard and specify the path to store the snapshots.	User interface
36		Feature	Added a Generic RTSP/HTTP Encoder	Network devices
37		Feature	Integrated the Dahua IPC camera	Network devices
38		Feature	Add support for ARC100 keyboard (Aivex keyboard)	Integration
39		Feature	Added a day/night mode column to algorithm table.	Configuration
40		Feature	Added 'Allow transcoded live video' setting to the general tab in the server setup. This setting enables/disables software encoded live video streams.	Configuration
41		Feature	Added Canon Audio output support. Note: The audio output needs to be enabled on the camera's web interface, and authentication needs to be set to "Basic".	Network devices






42		Feature	<p>Added notifications and warnings, when configuring video feeds.</p> <p>Added summary information when configuring an IP camera. Information is now provided about:</p> <ul style="list-style-type: none"> • live feeds • recording feeds • analytics feeds <p>If there is a problem this is indicated with an icon and automated solutions are presented using a wrench button if applicable. There is also help text for the different options which can be accessed by clicking the icon on the left hand side of the line.</p> <p>Note: These changes can be seen in the Video feeds tab when creating or editing an IP camera</p>	Network devices
43		Feature	Integrated the Dynacolor Camera	Network devices
44		Feature	Add list of cameras used by other servers to discover dialog	User interface
45		Feature	Added of IXP220 integrated device	Integration
46		Feature	Integrated Visec License Plate Recognition.	Integration
47		Feature	<p>The status bar, at the bottom of the CatVision window, will now include the following additional information:</p> <ul style="list-style-type: none"> • Camera status • License information 	User interface
48		Feature	<p>Added an option to limit the number of live video streams in the CatSite camera tab. The limit is a global limit and applies across all screens.</p> <p>It is configured in Menu -> Settings -> Video display -> Maximum live streams.</p> <p>On a NVR/DVR this setting is only accessible to an administrator.</p>	User Interface
49		Bug	<p>JVC VN-T Bug-fixes. Added PAL/NTSC resolution presentation based on camera settings</p> <p>Also fixed JPEG quality setting</p>	Network devices
50		Bug	Fixed Axis Multicast bug, to allow one multicast stream per video channel.	Network devices
51		Bug	Fixed H264 live stream performance when audio is present in the source stream.	API
52		Bug	Fixed a crash in the add camera wizard, that occurred when the user went from the PTZ page, back to the serial port page, and then forward again to the PTZ page.	User interface
53		Bug	Fixed a problem with the Advanced database where overloading a single disk can happen at restart, if the databases on the other disks take longer to initialise.	Database




54		Bug	Fixed bugs with the Surveon CAM4365 camera (driver called "Surveon" in the encoder setup list.) <ul style="list-style-type: none"> • Don't give 2.0MP as MPEG4 resolution option • Don't display quality options for H.264/Mpeg4 • Don't display GOP options for JPEG 	Network devices
55		Bug	Added special zone settings for when the motion algorithm is running in Night Mode.	Algorithms
56		Bug	Fixed a bug that caused the meta-database to work incorrectly with the SAFLEC integration	Integration
57		Bug	Fix multicast audio decoding issue	Network devices
58		Bug	Fixed a bug where larger frame size streams did not stream in catMobile.	Mobile
59		Bug	Fix a problem where auto update messages for SAM3's are not reflected in the editing GUI.	Network devices
60		Bug	Fixed problem where reboots issued from the Encoder Setup application did not reboot the SAM3101's or SAM3104's	Network devices
61		Bug	Audio GOP length shortened. This is to fix a review issue where audio in playback presented with short pauses.	Network devices
62		Bug	Fix bug caused when trying to disable Smart codec on cameras that do not support smart codec	Network devices
63		Bug	Allow only 1 disk format at a time in the disk management utility. Note: the disk management feature is only present on the Linux software.	User interface
64		Bug	Fixes an issue where an unused PostgreSQL user was created when installing NVR software, on a Windows unit, that was part of a domain.	Industrialisation
65		Bug	Fixed install error creating the support user on a Windows AD domain connected PC.	Industrialisation
66		Bug	This fixes a problem where an analogue camera may appear as unlicensed if a new card is added which replaces an existing IP camera. This ensures that analogue cameras always appear as licensed.	Site management
67		Bug	Fixed multiple issues with Samsung Streaming <ul style="list-style-type: none"> • Fix issue where low fps feeds would time-out while starting. • Fix issue where quality was displayed for h.264 feeds. • Fix quality setting for jpeg feeds. • Fix issue where 3rd stream was not presented on models that have 3 default profiles. 	Network devices









68		Bug	Fixed a bug in the Video Motion Detection, where zones would get skipped, if multiple zones triggered at the same time. (E.g. if zones 1, 2, 3 triggered, there would only be trigger messages sent for 1,3)	Network devices
69		Bug	Fix bug in the Windows performance wizard preventing the option to disable the Desktop Window Manager.	User interface
70		Bug	Onvif Multicast Setup Issue: The multicast address is not known during setup process if multicast mode is set to auto. This causes issues with Axis cameras when using Onvif driver. We now set multicast IP to 0.0.0.0 if multicast settings are empty.	Network devices
71		Bug	Fixed a bug which caused multicast on legacy encoders to fail.	Network devices
72		Bug	Fixed a crash on Canon cameras, related to audio output.	Network devices
73		Bug	Fixed a bug in the Onvif integration that caused cameras to not work	Network devices
74		Bug	Fixed a bug that caused Vivotek serial ports to be non-functional.	Network devices
75		Bug	Fixed a crash in the gateway attachment utility when uploading, or downloading a gateway attachment, on Windows clients.	Gateway
76		Bug	Fix issue with used network devices appearing as unused in the network device discover utility.	Network devices
77		Bug	Fixed a problem where the SAM3101, and SAM3104, could be configured with an invalid subnet mask.	Network devices
78		Bug	CatMap IXP20 event pop-up message box functionality was broken. The change is mostly a variable renaming and providing a richer description of an IXP20 event intended to be used as a pop-up message on CatMap GUI.	Integration
79		Bug	Fix a bug with G.711 A-Law encoder audio output, which had the potential to cause distorted audio, when playing multiple streams out to an encoder audio output.	audio
80		Bug	Fixed a bug that could occur after deleting a unit from a site.	User interface
81		Bug	The Requires acknowledgment and Requires reset flags were changed from indicating a groups permanent setup property with that name to indicating the groups' live status with that name. So they will now toggle whenever a group is in need of an acknowledgement or requires a reset.	Integration













82		Bug	Fixed a crash that could occur when fetching a file system report.	Profiling
83		Bug	The default H.264 profile on all Hunt cameras will now be set to baseline	Network devices
84		Bug	CatVision will now report an error when applying a restore point extraction on Linux (Fedora), when not running as a root user.	Configuration
85		Bug	Fixed issue with multi-channel H.264 encoder RTSP address	Network devices
86		Bug	The DSC IT 100 database driver was left out of the list of available drivers, which meant that there was no option to	Integration
87		Bug	Fixed an issue where Canon camera might not re-connect if the connection to the camera goes down.	Network devices
88		Problem	Fixed a problem whereby noise was being introduced into the right-hand audio channel when 2 clients were requesting the same stream. <u>Note:</u> This applies to the VIO/VOM5 when configured as MPEG4 with audio	Audio
89		Problem	No Input messages were being received on the NVR unit, when using integrated SAFLEC device.	Integration
90		Problem	Schedules Archive updates. These include the addition of stats, Improved FT throughput, and Fixed a startup issue.	Archiving
91		Problem	Show all legacy (NetBSD) databases in the import dialog, even if their name (ID) matches that of an attached database. This will allow the user to delete this unattached database if desired.	Database
92		Problem	Faster device registration information and improved Events Setup.	Integration
93		Problem	Hikvision DS-2CD7164-E The H.264 stream can now be set for the DS-2CD7153-E camera model type via our GUI for Constant Bitrate mode. Previously this could not be done successfully.	Network devices
94		Problem	The option to set the output on the GrandEye Evolution encoder has been removed, due to the fact that it is not integrate-able/compatible with our current framework.	Integration
95		Problem	Fixed a problem with multicast on the Hikvision DS-2DF1-514, where it was not viewable.	Integration
96		Problem	Implemented extra measures to work around bad sectors underneath Legacy database index files. (NetBSD only)	Database

97		Problem	Fixed a timing issue on Samsung MPEG4 Multicast address that caused Multicast to not work, when using an MPEG4 stream.	Network devices
98		Problem	Fixed a problem where audio options were not present on the HikVision DS-2DF1-718.	Integration
99		Problem	Fixed bug that caused multicast to fail on the HikVision DS-2DF1-718	Integration
100		Problem	Improve audio review for some H264 IP cameras	Alarms
101		Problem	Fixed crash in audio server when corrupt .wav audio files are played as an event action.	Audio
102		Problem	<p>DSC It100 alarm panel integration.</p> <p>Fixed a problem where The zone partition association would be lost, and defaulted to have all the zones report to be in partition 1, whenever the driver is restarted.</p> <p>Note: It is important to bear in mind that our picture of which zones are in which partition, can be grossly inaccurate until an alarm happens. There is nothing we can do about this. Clients should change the zone-partition association with great care, and make sure this change is propagated via an alarm in the changed zones.</p>	Integration
103		Problem	<p>Impro IXP220 Denied time In/Out events were not working.</p> <p>The Impro IXP220 allows users to be granted/denied access based on a schedule. These events were not being handled correctly. This has been fixed.</p>	Integration
104		Modification	Fixed an issue where the Automatic Archive Server was not running at startup on NetBSD 4.	Archiving
105		Modification	The MySQL to PostgreSQL gateway database conversion utility is now included by default on installation	Gateway
106		Modification	<p>Made the following modifications to the license manager:</p> <ul style="list-style-type: none"> • Persistent windows sizes and positions between runs. • Improved repair descriptions. • Added a progress dialog during .pack extraction, • Changed to QT_MessageBox 	Licensing

107		Modification	<p>Add configuration of audio input and output names.</p> <p>This applies to IP cameras with independent audio input/output channels, AVM3, and AVM4 frame grabber cameras.</p> <p>The configuration is in the general tab of the camera setup</p>	Configuration
108		Modification	<p>Added an option to configure the local server, even if the connection to the site master is down. (This is useful when repairing units off site.)</p> <p>Also added an option to detach the local unit from the site (context menu on unit in local server configuration).</p>	Configuration
109		Modification	<p>Removed 'catViewer access' setting for site users, as CatViewer itself is soon to be obsolete.</p>	Configuration
110		Modification	<p>Replaced the option to delete gateway users, with the option to enable/disable them.</p>	Gateway
111		Modification	<p>Increased the allowed length of RTSP URL's on Generic RTSP Encoder</p>	Network devices












112		Modification	<p>Note: the changes below regard the API, unless you need to use the API or have relevant technical knowledge, you are not expected to read, or understand this particular note:</p> <p>Better handling of multi-feed encoders in the API server Made changes to give meaning to the resolution string the API client provides when starting a live feed to allow the API more control over which live feed is selected for a camera.</p> <p>There are 4 defined resolution strings in the API that were previously ignored:</p> <ul style="list-style-type: none"> • QCIF • CIF • 2CIF • 4CIF <p>Now these strings in the API startLive() on a camera command have the following meaning (the strings are retained to maintain backwards compatibility):</p> <table border="1" data-bbox="550 940 981 1265"> <tr> <td>"QCIF"</td> <td>Pick lowest res feed available</td> </tr> <tr> <td>"CIF"</td> <td>Pick highest res feed with width < 640 pixels wide</td> </tr> <tr> <td>"2CIF"</td> <td>Pick lowest res feed with width > 640 pixels wide</td> </tr> <tr> <td>"4CIF"</td> <td>Pick highest res feed available</td> </tr> </table>	"QCIF"	Pick lowest res feed available	"CIF"	Pick highest res feed with width < 640 pixels wide	"2CIF"	Pick lowest res feed with width > 640 pixels wide	"4CIF"	Pick highest res feed available	API
"QCIF"	Pick lowest res feed available											
"CIF"	Pick highest res feed with width < 640 pixels wide											
"2CIF"	Pick lowest res feed with width > 640 pixels wide											
"4CIF"	Pick highest res feed available											
113		Modification	<p>Cameras Tab Menu Changes:</p> <ul style="list-style-type: none"> • 'Layouts' menu is now called "Video wall" as it contains options for more than just layouts. • Added a 'Manage sequences' option to the 'Video wall' menu • Added a 'Recall sequence' option to the 'Video wall' menu 	User interface								
114		Modification	Changes were made to get PTZ to work on SNT-EX104 encoder	Network devices								




115		Modification	<p>All Hikvision <i>Old Platform SD Speed Domes</i> are now classified as PTZ cameras.</p> <p>The list includes:</p> <p>DS-2DF1-501, DS-2DF1-502, DS-2DF1-503-B, DS-2DF1-504, DS-2DF1-505-B, DS-2DF1-506, DS-2DF1-507-B, DS-2DF1-508, DS-2DF1-50C, DS-2DF1-50D DS-2DF1-713, DS-2DF1-713-B, DS-2DF1-715, DS-2DF1-715-B, DS-2DF1-717, DS-2DF1-717-B, DS-2DF1-714, DS-2DF1-716, DS-2DF1-718 ,DS-2DF1-511, DS-2DF1-512, DS-2DF1-513-B, DS-2DF1-514, DS-2DF1-515-B, DS-2DF1-516, DS-2DF1-517-B, DS-2DF1-518, DS-2DF1-51C, DS-2DF1-51D DS-2DM1-713, DS-2DM1-713-B, DS-2DM1-715, DS-2DM1-715-B, DS-2DM1-717, DS-2DM1-717-B, DS-2DM1-714, DS-2DM1-716, DS-2DM1-718, DS-2DF1-531, DS-2DF1-532, DS-2DF1-533-B, DS-2DF1-534, DS-2DF1-535-B, DS-2DF1-536, DS-2DF1-537-B, DS-2DF1-538, DS-2DF1-53C, DS-2DF1-53D, DS-2DM1-501, DS-2DM1-502,DS-2DM1-503-B,DS-2DM1-504,DS-2DM1-505-B,DS-2DM1-506,DS-2DM1-507-B,DS-2DM1-508,DS-2DM1-50C, DS-2DM1-50D, DS-2DM1-511, DS-2DM1-512, DS-2DM1-513-B, DS-2DM1-514, DS-2DM1-515-B, DS-2DM1-516, DS-2DM1-517-B, DS-2DM1-518, DS-2DM1-51C, DS-2DM1-51D " "DS-2DM1-531, DS-2DM1-532, DS-2DM1-533-B, DS-2DM1-534, DS-2DM1-535-B, DS-2DM1-536, DS-2DM1-537-B, DS-2DM1-538, DS-2DM1-53C, DS-2DM1-53D</p>	Network devices
116		Modification	Avigilon add a lot of custom parameters, which are not expected in the Onvif protocol. Added ability to ignore these parameters	Network devices
117		Modification	Support package upgrade licenses, to allow upgrade from CatVision Core to Pro, and from Pro to Premium.	Licensing
118		Modification	<p>Vivotek Multi Channel Encoders:</p> <p>Changes made, to support multi-channel devices</p>	Network devices
119		Modification	<p>Increase time between config snapshot requests from every minute to every hour.</p> <p>This will reduce the impact on the running system.</p>	Configuration
120		Modification	Allow encoders that support on-board PTZ to use a serial port for PTZ control	Configuration
121		Modification	<p>Minor GUI Modifications:</p> <ul style="list-style-type: none"> • Changed 'Add site' to 'New site' in enterprise manager. • Separate Enable and Event Name in add camera wizard VMD recording setup. (This clarifies that the user is, in fact, setting up an Event.) • Clarify settings in Audio tab in general setup. • Add message when changing IP camera driver that video feeds etc. will need to be reconfigured 	User interface
122		Modification	Fixed an Onvif issue that occurred when certain cameras presented a custom quality range for JPEG (i.e. not between 50-100)	Network devices

123		Modification	NetBSD: In the disk report there is now a log <i>from the disk</i> describing errors on the disk.	Profiling
124		Modification	If an alarm was handled the moment it was received there was a chance that the data would have not made it into the database yet. This would make this data irretrievable. This has been corrected.	Alarms
125		Modification	Hard Drives: Added warnings drawn from the drive to indicate that certain drives have known issues; along with information on how the user may ascertain whether or not the drive they are using is affected.	Profiling
126		Modification	Added Gateway Settings under the Gateway Tab in Server Setup. These settings are: Alarm Forwarding and moving alarms to the history.	Gateway
127		Modification	Device Discover has been updated to fix numerous bugs, as well as add a number of devices to the service.	Network devices
128		Modification	Gateway reports now work on gateways running the PostgreSQL database.	Alarms
129		Modification	Change path of .msi install log file, to prevent a failure that could occur on installation	Industrialisation
130		Modification	Multiple improvements to the Map Editor: <ul style="list-style-type: none">• Improved map rendering.• Improved font rendering in maps.• Updated map editor icons.• Improved map editor usability.	User interface
131		Modification	Windows executables are now signed, which means that the publisher can be validated. There was an issue which only allowed applications from certain publishers to run off removable media. In this case our archive viewer was not signed and so they could not run it.	Industrialisation
132		Modification	Template events can now be configured using the input or trigger on an encoder. An action to "Record trigger camera" will record the camera the input or trigger resides on.	Logic
133		Modification	Added year based versioning in the installation file name.	Industrialisation
134		Modification	When a new site is created it will now default to using the site password management.	Alarms

4 Minor and Informational (🟡 and 🟡)

#	Severity:	Type	Software Change	Key area
135	🟡	Feature	Integrated Onvif	Network Devices
136	🟡	Bug	Fixed issue with VGA monitor go to time defaulting to 1970-01-01, on a review.	User interface
137	🟡	Bug	Disabled cameras will no longer be displayed in CatMobile clients	Mobile
138	🟡	Bug	On the Galaxy integration the default filled out code in the integration setup, filled out on be-half of the user, has been changed. It was set as the Master Manager (123456), but has been changed to the Remote User (543210).	Integration
139	🟡	Bug	Fixed a bug that caused certain gamma parameter values to be saved and loaded slightly lower than what they were set in the algorithm setup. For instance a gamma value of 2.3 will be saved as 2.2.	Algorithms
140	🟡	Bug	Fixed an issue with SAFLEC integration where certain event variables were being incorrectly mapped.	Integration
141	🟡	Bug	Fixed a bug that caused an unwanted HTML stats message to appear when using the Moduteq 2W integrated device.	Integration
142	🟡	Bug	Fixed a minor bug in the Moduteq C integration that caused minimal memory leak, over a long period of time. It would have been unlikely to impact on user experience.	Integration
143	🟡	Bug	When using the Impro Ixp20 integration, the widgets will now display an error message, when trying to read/write to the controller, if the password is wrong	Integration
144	🟡	Bug	When deleting a database that a scheduled recording was using, the scheduled recording did not have its database cleared. The database is now cleared for scheduled recordings when the scheduled recording's database is deleted.	Configuration
145	🟡	Bug	Fixed a file export issue where the avi file extension was left out, if the user renamed an archive. This is now automatically appended to the export filename.	Archiving
146	🟡	Modification	The legacy H263 feed option, which was available when viewing remote video, has been removed because it duplicates functionality provided by the software-encoded mpeg4 option.	Multimedia

147		Modification	<ul style="list-style-type: none"> Remove references to 'logging level' in user setup. Remove "catViewer access" setting (site management users) Remove "Remove access" setting (non-site management users) 	Configuration
148		Modification	Added option to select CBR/VBR on H.264/MPEG4 streams, on Axis cameras	Network devices
149		Modification	A camera id column has been added to the Algorithm and Scheduled Recording tables in Setup.	Configuration
150		Modification	Camera icons updated to better differentiate between domes and fixed cameras and between network down and camera down icons.	User interface
151		Modification	<p>User interface tweaks:</p> <ul style="list-style-type: none"> Be consistent with naming of recording channel in the setup. Event setup <ul style="list-style-type: none"> Add priority icon to the priority combo. Change 'Debounce' to 'Hold time' and add info buttons. Make 'communications channel' less prominent when configuring an event triggered by an integration device. Scheduled recording setup. <ul style="list-style-type: none"> In 'New..' dialog by default the camera selection lists the cameras that do not have a scheduled recording configured for it, with an option to show all cameras. In 'Paste new...' the camera list marks those cameras that already have a scheduled recording, and default selects those cameras that don't have a scheduled recording. Make 'communications channel' less prominent in the integration device setup. Clarify switch display settings. 	User interface
152		Modification	Change 'meta database' to 'integration database'	User interface
153		Modification	Increase the maximum dome override period from 10 minutes to 1 hour.	Configuration
154		Bug	Added the Scheduled Archive feature to the Server Setup Tab	Archiving
155		Bug	The camera name in the Scheduled Recordings table was not updating when the camera's name was changed. This has been resolved.	Configuration
156		Feature	Added combo box to group old and new licenses on order details from	Licensing
157		Problem	Clicking on hyperlinks in a report would cause it to go blank	User interface

158		Problem	<p>Further change to the configuration snapshots:</p> <p>Initially generate a snapshot at start up, and update the snapshots every hour.</p> <p>Generate new snapshots for new cameras within 2 minutes of the camera being added.</p>	configuration
159		Modification	<p>Naming changes</p> <ul style="list-style-type: none"> • background image updated • Menu->About updated • Windows title updated 	Industrialisation
160		Modification	<p>The license icon in the status bar turns orange if there are demo licenses about to expire (within 1 week).</p> <p>The license summary is displayed when the user clicks on the status icon. It shows the units that are using demo licenses, with warnings if they are about to expire, and a link to the unit's licenses.</p>	User interface