








# Release Notes CatVision 2014 Service Pack 2

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<b>Severity</b>	 Critical	 Major	 Normal	 Minor	 Informational
<b>Type</b>	Modification	Feature (addition)	Problem (fix)	Bug (fix)	Removed






**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 Change Notes should be sought here: <http://integrations.cathexisvideo.com/supported-i-p-cameras/>
- III. Further information on integrated devices listed in these Change Notes should be sought here: <http://www.cathexisintegrations.com/supported-integrations/>












## 1 Critical












#	Severity	Type	Software Change	Key area
1		Feature	<b>Integrated the Future Fibre Technology Perimeter Monitoring driver</b>	Integrations
2		Bug	<b>Fixed JPEG quality settings</b> Fixed an issue where JPEG quality settings, in the video profiles for a VOM15xx card, were being ignored, and fixed at 100%.	Frame grabbers
3		Bug	<b>Fixed the occasional crashing of the integration server, when using the Galaxy integration device.</b>	Integration
4		Bug	<b>Fixed the occasional crashing of the integration server during its automatic database retrieval routing.</b>	Integration









## 2 Major

#	Severity	Type	Software Change	Key area
1.		Feature	<b>Design International CCTV alarm system integration added</b>	Integration
2.		Feature	<b>ImproNet IXP400 Integrated</b>  <i>Note: This integration is currently limited to Windows and Linux operating systems, using a Firebird Database.</i>	Integration
3.		Feature	<b>Sony Integration</b> General integration, of Sony cameras, with CatVision 2014 Service Pack 2.	Network devices
4.		Feature	<b>PTZ Zoom Out</b> Added an option to zoom a PTZ camera out completely. This is achieved by pressing the 'z' key (with the camera selected), or by holding the left mouse button for half a second, and selecting the "zoom out" menu option.  <i>Note: This feature will only appear if supported by the camera. It is not function on Dahua PTZ or Hikvision PTZs.</i>  <b>PTZ Help Screen</b> Also added a help screen for the PTZ, and digital zoom controls. To view this select "Help" from the context menu for the camera.	User interface
5.		Feature	<b>Added SoftCon Access Control Integration</b> Added the SoftCon Access Control Integration.  This will need the following licenses: <ul style="list-style-type: none"> <li>• FEATURE_CATVISION_ACCESS license, for the integration.</li> <li>• FEATURE_CATVISION_ACCESS_DOOR license to license the readers.</li> </ul>	Integration











6.		Feature	<p><b>PTZ control (zoom to area, and centre on point)</b></p> <ul style="list-style-type: none"> <li>If a PTZ supports these features you should see two icons, on the bottom left of the camera panel, representing a PTZ camera , and a fixed camera respectively:  </li> <li>The option selected will have an enlarged icon. By selecting the PTZ camera the control should be as described below. By selecting the fixed camera the control should give you digital zoom.</li> <li>If it is supported, <i>zooming to an area</i> can be achieved by left-clicking with the shift key held, and dragging an area. (In CatVision 2014 the rectangle should have a green outline with a transparent centre)</li> <li>If a PTZ camera supports <i>centre on a point</i>, you can left-click with the shift key held, and the PTZ will centre on the point you clicked.</li> </ul>	User interface
7.		Feature	<p><b>Digital Zoom</b></p> <ul style="list-style-type: none"> <li>The digital zoom has been modified so that the zoom (using the mouse wheel) focuses on the mouse pointer location.</li> <li>It is possible to zoom to an area: Left-click with the shift key held down, and drag an area. The view should zoom to the area specified. In CatVision 2014 the rectangle should have a red outline with a transparent centre.</li> </ul>	User interface
8.		Feature	<p><b>General Mouse Handling</b></p> <p><i>Drag Panel</i></p> <ul style="list-style-type: none"> <li>Move a panel using right-click and drag.</li> <li>Copy a panel using right-click and drag, with CTRL pressed.</li> </ul> <p><i>Panel Selection</i></p> <ul style="list-style-type: none"> <li>Toggle selection using left-click with CTRL pressed.</li> <li>Group selection using left-click, with SHIFT pressed. (Click top-left, shift click bottom right and the all the panels should be selected.)</li> </ul> <p><i>Pan/Zoom (camera specific)</i></p> <ul style="list-style-type: none"> <li>Pan using left-click and drag.</li> <li>Zoom to area using left-click and drag, with SHIFT pressed (PTZ/digital zoom).</li> <li>Centre on area (for PTZ cameras) using left-click with SHIFT.</li> </ul>	User interface








9.		Feature	<p><b>Added the FSK Alarm Panel Integration</b></p> <p><i>Licenses</i></p> <ul style="list-style-type: none"> <li>This integration will require the FEATURE_CATVISION_ALARM license.</li> </ul> <p><i>Note:</i></p> <ul style="list-style-type: none"> <li>There are no cat map states, as the FSK protocol does not specify when a zone is no longer high.</li> </ul>	Integration
10.		Feature	<p><b>Added Hikvision DS-6716HFI (16 channel) encoder</b></p> <p><i>Features</i></p> <ul style="list-style-type: none"> <li>The encoder supports 16 video and audio channels, 16 inputs and 4 outputs.</li> <li>H.264 and MJPEG video.</li> <li>PTZ</li> </ul> <p><i>Note:</i></p> <ul style="list-style-type: none"> <li>Multicast not supported.</li> <li>VMD from the encoder is unreliable.</li> </ul>	Integration
11.		Feature	<p><b>Visec alert (blacklisting) support</b></p> <p>Will now receive alerts on the Visec integration, when a blacklisted number plate is detected.</p>	Integration
12.		Feature	<p><b>Recording indicator</b></p> <p>Added configurable recording indicator on CatVision Live View.</p>	Profiling
13.		Feature	<p><b>Modified the Canon driver, to support Canon VB-S products</b></p>	Network devices
14.		Modification	<p><b>Change video wall to use x shared memory on Linux</b></p> <p>This results in a performance improvement, for live viewing, and reviewing, in CatVision, and CatVGA.</p>	User interface
15.		Modification	<p><b>Improved scheduled archiving performance.</b></p>	Archiving
16.		Modification	<p><b>Improved pre-event memory/disk management</b></p> <p>Reduced disk access, when recording pre-event video</p>	Database
17.		Problem	<p><b>Hikvision models now have on-board PTZ support</b></p>	Network devices
18.		Problem	<p><b>Technoswitch, major changes</b></p> <p>Major changes to the Technoswitch driver, to fix problem where there were no device objects present.</p>	Integration
19.		Problem	<p><b>Present direct flash drive shortcut for creating restore points</b></p> <p>The directory selection dialog used to create/restore points now contains a direct shortcut to a USB flash drive plugged into the NVR.</p>	Configuration

20.		Bug	<p><b>Added multicast support, and fixed stream retrieval info for some Hikvision cameras</b></p> <p><b>Multicast supported added for camera models:</b> DS-2CD2032-I, DS-2CD2232-I5, DS-2CD2632F-I, DS-2DF7286-A.</p> <p><i>Note:</i> these cameras only stream to port 8860</p> <p><b>Stream retrieval fixed for:</b> DS-2CD2032-I, DS-2CD2232-I5, DS-2CD2632F-I</p>	Alarms
21.		Bug	<p><b>SAFLEC database door ID, and zone ID, column mismatch fixed</b></p>	Integration
22.		Bug	<p><b>Allow NetBSD units to have a Lite/core license applied</b></p>	Licensing
23.		Bug	<p><b>Fix problem with incompatibility between nvr_discover and nvr_encodersetup on Windows 7</b></p> <p>This caused older encoders (SAM2, EIO, ESP) to not be detected, and configured, using the nvr_encodersetup, on Windows 7.</p>	Alarms
24.		Bug	<p><b>Fixed a potential archive stall in the scheduled archiver.</b></p>	Archiving
25.		Bug	<p><b>Fixed Pelco Spectra Mini/IP110 streaming issue</b></p>	Network devices
26.		Bug	<p><b>Fixed a problem with SAM3104 capture timing out</b></p> <p>Fixed a problem where SAM3104 would not stream video even though you could ping it and it reported the camera as up.</p>	Alarms
27.		Bug	<p><b>Support XP switch monitor</b></p> <p>Fixed a bug whereby the XP switch monitor did no work on Linux.</p>	Industrialisation
28.		Bug	<p><b>Set postgres port for map editor, using sql site list</b></p> <p>A base-station can use a gateway for its site list. If the map-editor is run on the base-station, and it needs to show the same sites as CatVision, then it needs to use the gateway's site list.</p> <p>Fixed a bug whereby this was no longer working, after moving to postgres</p>	User interface
29.		Bug	<p><b>Fix Sam2 camera status reporting</b></p> <p>Fixed a problem where camera status was erroneously reported, if the camera connected to the sam2 was down while the NVR booted.</p>	Alarms
30.		Bug	<p><b>Fixed local user access level</b></p> <p>Fixed a bug that gave non-administrative users admin rights</p>	User interface











31.		Bug	<p><b>Fixed Hikvision DS-6716HFI (16 channel) encoder PTZ support</b></p> <p>The Hikvision DS-6716HFI uses a unique PTZ command set, which caused PTZ to not work, at all, in CatVision 2014.</p> <p><i>Currently supported features</i></p> <ul style="list-style-type: none"> <li>• Pan, Tilt, Zoom</li> <li>• Set preset</li> <li>• Go to preset</li> </ul> <p><i>Currently unsupported features</i></p> <ul style="list-style-type: none"> <li>• Iris open/close</li> <li>• Focus near/far</li> </ul> <p><i>Note:</i> the unsupported features do not currently work satisfactorily in Hikvision's own web interface, and were not added to CatVision 2014.</p>	Integration
32.		Bug	<p><b>Fixed archiving issue</b></p> <p>Fixed a bug in Scheduled Archiving that affected the transfer of larger files.</p>	Archiving
33.		Bug	<p><b>Fixed a crash caused by a corrupt performance counter database.</b></p>	Profiling
34.		Bug	<p><b>Refactor integrated device session in the Map Module</b></p> <p>Fixes a bug where some integrated devices weren't receiving updates on complicated maps.</p>	User interface
35.		Bug	<p><b>Allow creation of restore points to a path containing spaces on Linux</b></p> <p>Fixed issue where saving a restore point to a path containing spaces on Linux would appear to succeed but actually wouldn't work.</p>	Configuration
36.		Bug	<p><b>Added the ability to drop frames in the HTMLServer to cater for variable encoding performance.</b></p>	Mobile
37.		Bug	<p><b>Fix stream setup on Dahua SD6980</b></p> <p>Fixed issue where video settings, on Dahua SD6980, could not be configured.</p>	Network devices
38.		Bug	<p><b>Adjustments to Hikvision driver</b></p> <ol style="list-style-type: none"> <li>1. Added support for PTZ, on all Hikvision cameras.</li> <li>2. Fixed setting JPEG quality on third stream of DS-2DF7286-A.</li> <li>3. Allow cameras that do not have an audio channel list in their capabilities to be added.</li> </ol>	Alarms



























39.		Bug	<p><b>Correctly configure on-board serial ports for integration devices</b></p> <p>Integration devices using the on-board serial port were not being configured with the correct parameters. The correct device was being used, but the baud rate, parity etc., were not being set and defaulted to 9600 8N1</p>	Integration
40.		Bug	<p><b>Disallow firmware downgrade of Sam 3101, and 3104, units</b></p> <p>Sam units will be prevented from downgrading to 5042/CatVision 2014/CatVision 2014 SP1 after upgrading to CatVision 2014 SP2. This is to prevent accidental bricking of the Sam device.</p>	Alarms
41.		Bug	<p><b>Fix KBD3000 PTZ access rights</b></p> <p>Fixed an issue with KBD3000, allowing full PTZ move control access for users with no PTZ control rights.</p>	User interface
42.		Bug	<p><b>Fix Impro IXP400 timestamp issue and metadatabase filtering</b></p> <ul style="list-style-type: none"> <li>• Removed date-time offset</li> <li>• Added milliseconds to timestamp</li> <li>• Made changes to columns</li> <li>• Fixed filtering in meta-databases</li> </ul>	Integration
43.		Bug	<p><b>Fix Impro IXP220 time and metadb inconsistencies</b></p> <ul style="list-style-type: none"> <li>• Added milliseconds to timestamp</li> <li>• Removed date-time offset</li> <li>• Removed sorting of invisible columns</li> </ul>	Integration
44.		Bug	<p><b>Fix timing inconsistencies on ImproNet IXP20</b></p> <p>Added milliseconds to timestamp. This fixes a bug which caused the shown time of an event to potentially be about 1 second off.</p>	Integration
45.		Bug	<p><b>Accurately represent states of analytic triggers on Canon cameras</b></p> <p>Fixed handling of an issue with Canon cameras. Where they were sending both the previous and the current state of a zone's activity, in one message.</p>	Network devices
46.		Bug	<p><b>Frame rate issue on Hunt cameras</b></p> <p>Fixed an issue with Hunt cameras, where changing the frame rate of the second stream, would simultaneously change the frame rate of the first stream to 30 fps.</p>	Network devices
47.		Problem	<p><b>Prevent last admin user from having its access level changed to a non-admin access level</b></p> <p>Prevents last admin user on a site, from having status changed to non-admin, which would leave the site with no Admin-level users.</p>	Configuration
48.		Problem	<p><b>Add license file to Windows restore points</b></p> <p>The license file is not being added to Windows restore points.</p>	core








49.		Modification	<b>PTZ control standardised.</b> Change results in a response time improvement, from 100 to 200ms	Network devices
50.		Modification	<b>CDVR-1000 license for Linux systems</b> Linux systems, with an IO board, will now require the CDVR-1000 license	Licensing
51.		Modification	<b>Change licensing to allow Lite packages to add IP licenses up to a max of 24 cameras</b>	Licensing
52.		Modification	<b>No longer using OpenGL by default for catVGA on Windows.</b>	User interface
53.		Modification	Only objects that have available actions, will be presented in the “control device event action” dialogue.	Configuration
54.		Modification	<b>Added support for Hikvision DS-6701HFI, DS-6704HFI and DS-6708HFI</b> <ul style="list-style-type: none"> <li>• H264 and MJPEG unicast streaming and setup</li> <li>• Inputs</li> <li>• Outputs</li> <li>• Audio</li> <li>• VMD</li> <li>• Each video channel is represented as a different camera on the NVR.</li> <li>• The video input channel number corresponds to the Encoder input combo box number.</li> <li>• The 1/4/8 inputs are split across the 1/4/8 video channels.</li> <li>• <i>Note:</i> Multi-cast has not been integrated.</li> </ul>	Alarms
55.		Modification	<b>Added the ANALOGUE PRO license package (CANG-2000)</b> A new license package has been added, ANALOGUE PRO which has the same features as a normal PRO license with the exception that it may not have 3rd party IP cameras. It may however have Cathexis IP cameras and encoders added. It may be upgraded to a normal PRO license using the ANALOGUE_TO_PRO upgrade.	Licensing

### 3 Normal










#	Severity:	Type	Software Change	Key area
1		Feature	<b>Integrated the Ng Pusher/Mat</b>	Integration
2		Feature	<b>Flexwatch Integration</b> Integrated the Flexwatch camera	Network devices
3		Feature	<b>LG integration</b> Integrated LG cameras	Network devices
4		Feature	<b>Recording duration technical alarm</b> Added a technical alarm, which will trigger if a database does not record for a set duration.	Profiling
5		Feature	<b>Add multicast support for Canon cameras</b> Currently only supported on the VB-H series with at least firmware V1.1, and on the VB-S series.	Network devices
6		Feature	<b>Canon PTZ features added</b> <ul style="list-style-type: none"> <li>• Digital zoom <ul style="list-style-type: none"> <li>○ Zoom to area</li> <li>○ Centre on Point</li> <li>○ Step zoom</li> </ul> </li> <li>• Optical zoom <ul style="list-style-type: none"> <li>○ Zoom to area</li> <li>○ Zoom on cursor</li> </ul> </li> </ul>	Network devices
7		Feature	<b>Sony PTZ features added</b> <ul style="list-style-type: none"> <li>• Zoom to areas</li> <li>• Centre on point</li> <li>• Step Zoom</li> </ul>	Network devices
8		Feature	<b>Re-enabled PTZ control in the 4 feed view of CatMobile</b>  The 4 feed view of the CatMobile for HTML app now displays a control bar at the bottom of each feed which can be expanded to show PTZ controls.	Mobile
9		Feature	<b>Canon VB-M Integration</b> Integrated the Canon VB-M600VE camera.  <i>Notes:</i> Motion detection needs to be set up on the camera web interface "Admin Tools">"Intelligent Function Setting Tool"	Network devices
10		Feature	<b>Added Galaxy Alarm Panel integration device</b>	Integration

11		Feature	<p><b>Integrated Mobotix events</b></p> <p>The Mobotix cameras have a feature where they can send TCP/IP notifications for their various events. We can listen for these events, and use them as CatVision event triggers.</p>	Network devices
12		Modification	<p><b>FFT integration base license change</b></p> <p>The FFT integration device's base license was changed from <b>FEATURE_CATVISION_DEVICE</b> to <b>FEATURE_CATVISION_FFT</b>.</p>	Integration
13		Modification	<p><b>Moved deinterlacing into streaming video</b></p> <p>Fixed an issue that caused a deinterlacing to fail when streaming live video.</p>	Streaming video
14		Modification	<p><b>Changed driver to comply with new firmware</b></p>	Network devices
15		Modification	<p><b>Integrated the Samsung SNx-6804x range of cameras</b></p>	Network devices
16		Modification	<p><b>Allow inputs with unknown state to user last known state</b></p> <p>Gives the user the ability to tell set CatVision to use a specific input's last known state for an action, if that input's state is currently unknown.</p> <p>The default action for an input, which has an unknown state, is to assume that it's state is "low". For more information on this, and on how to set this, contact support.</p>	Logic
17		Modification	<p><b>Clear the screen if there are no video streams available</b></p> <p>Fixed an issue that occurred when a user has a layout of cameras displayed in CatVision, and then changes layouts or drags in different cameras. If any of the cameras are failed, the image from the last camera displayed there still shows with a "No available streams" message over it.</p>	User interface
18		Modification	<p><b>Added PTZ support, for Hikvision DS-2DF7284-A</b></p>	Integration
19		Modification	<p><b>Added support for Vista VK2-1080VRDIR3V9F (NVT-4211R)</b></p> <p><i>Supports</i></p> <ul style="list-style-type: none"> <li>• Supports up to 2MP resolution.</li> <li>• H264 on stream 1.</li> <li>• JPEG on stream 2.</li> </ul> <p><i>Notes:</i></p> <ul style="list-style-type: none"> <li>• Multicast will not work.</li> <li>• VMD and I/O both are untested.</li> </ul>	Network devices
20		Modification	<p><b>Use the unit login cache for review connections</b></p> <p>Fixed issue where users would have to login to slave units, each time they attempted to review cameras on these units.</p>	User interface

21		Problem	<b>Fixed AVI conversion of video with width greater than 2048</b> Fixed archiving to AVI conversion of video with a width greater than 2048 pixels.	Archiving
22		Problem	<b>Display correct camera driver when editing a legacy camera without legacy drivers enabled</b>	Configuration
23		Problem	<b>Added Hikvision DS-6716HFI (16 channel) encoder PTZ support</b>	Integration
24		Problem	<b>Fixes for Gateway default comments and icons</b> Fixed the insertion of Gateway preset comment groups, and added new preset comment icons after change to Postgres	Gateway
25		Problem	<b>Various changes to the Gateway Case View, after postgres conversion</b> <ul style="list-style-type: none"> <li>• show times with second resolution</li> <li>• order case comments with ascending time</li> </ul>	Gateway
26		Problem	<b>Use cached local site login for KBD3000</b> Use cached local site login for KBD3000 so that the keyboard user does not have to login more than once to the local site.	User interface
27		Problem	<b>Ignore disabled inputs for event templates</b> Fixed a problem that caused disabled inputs to be used when generating template events	Logic
28		Bug	<b>Improve pan and tilt on Canon cameras</b> The Pan/Tilt speeds, on Canon cameras, were not uniform, when panning/tilting in a direction opposite to the initial movement. This has been fixed.	Network devices
29		Bug	<b>Fixed a problem with reviewing Dynacolor cameras</b>	Network devices
30		Bug	<b>Fix incorrect message in license summary</b> Fixed a bug where, in some circumstances, the license summary incorrectly stated that servers had 3rd party cameras, when they were not licensed for them.	Licensing
31		Bug	<b>Retain scheduled archive markers when the archive is disabled</b> Restart scheduled archives from the last archive time after a scheduled archive is re-enabled instead of restarting from the beginning.	Archiving
32		Bug	<b>Fixed the indefinite retry of alarm if connection fails</b>	Alarms
33		Bug	<b>Fixed issue with Onvif discover.</b>	Network devices
34		Bug	<b>Axis multicast fix</b> Fixed an issue with the Axis multicast, related to the audio RTSP address	Network devices

35		Bug	<p><b>Galaxy logging changes, to make group updates more rapid</b></p> <p>Group updates from disable to disabled ready should now happen with greater robustness.</p>	
36		Bug	<p><b>Technoswitch alarmed property fixed</b></p> <p>The Technoswitch integrated device was not showing up as alarmed, when an alarm was triggered. This has been fixed.</p>	Integration
37		Bug	<p><b>Fixed broken detection of EIO, ESP, and Sam2 units in Windows 7</b></p>	Alarms
38		Bug	<p><b>Fixed hard-coded time zones in Visec License Place Recognition integration</b></p> <p>Time-zones had been hardcoded, in the integration with the Visec LPR, to a +2 hour time zone. This has been fixed</p>	Integration
39		Bug	<p><b>Fixed repeating MAC address in encoder setup of Sam3xxx</b></p> <p>Fixed an issue caused by failure of multicast, where the MAC address would be appended to itself in the encoder setup.</p>	Alarms
40		Bug	<p><b>Prevent VGAserver from saving temporary layouts</b></p> <p>Fix issue where a VGAserver, when shut down while displaying a temporary layout, would save that layout, and recall it permanently after restarting.</p>	User interface
41		Bug	<p><b>Fixed metadb line item filtering with more than 1 filter</b></p> <p>Fixed issue with searching in an integration database when applying more than one filter.</p>	Meta database
42		Bug	<p><b>Fix map editor camera zone property persistence</b></p> <p>Fixed a bug with saving camera zone properties in the Map Editor</p>	User interface

## 4 Minor

#	Severity:	Type	Software Change	Key area
1		Bug	<b>Fix PTZ tours button for camera 1 in camera PTZ setup tab</b> The PTZ tours button was not being shown for camera 1.	Configuration
2		Bug	<b>Fix a GUI crash</b> The crash would occur when handling a gateway alarm, and the unit connection went down, while fetching the alarm video	User interface
3		Bug	<b>Force the removal of old start menu shortcuts, when upgrading in Windows</b> Fixes start menu icons left behind during an upgrade to 2014	User interface
4		Bug	<b>Alter how Flexwatch driver handles connection loss</b> Fixed an issue that occurred when a camera went down. The driver would still attempt to communicate with the camera, as if it had not gone down at all. This resulted in the logs getting flooded because it could not do so.  The change that was made here was to continuously ping the camera, and only when the camera is up does CatVision start requesting the camera's capabilities.	Alarms
5		Bug	<b>Check pre-frames for motion in SmartVMD was not set correctly</b> The check pre-frames for motion field was always set to 0 in SmartVMD algorithm	Algorithms
6		Bug	<b>Increase Basic database path poll frequency</b> Fixed issue where video retrieval from the Basic database could only take place 5 minutes after the data was written.	Database
7		Bug	<b>IXP220 door number ID fixed to display correct terminal subID</b> A minor bug, with no functional symptoms, that may have caused confusion.	Integration
8		Bug	<b>fix minor memory leak when forwarding alarms</b> Fixed a minor issue, which caused memory loss, when forwarding alarms.	Communication
9		Modification	<b>Modify handling of Saflec APB messages</b> Consolidated Saflec's three APB messages into one message, which is presented to the user	Integration