Release Notes for CathexisVision 2014 Service Pack 4

Contents

Severity	⊘ Critical	⚠ Major	Normal	Minor	Informational

Types	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/

Pre-release notices for 2015

This document covers release notes for CathexisVision 2014. Before updating to CathexisVision 2015 it is worth noting that:

1.   From CathexisVision 2015 onwards NetBSD 3, and earlier releases of NetBSD, will not be supported.
2.   Support for VOM2x10s will be discontinued in from CathexisVision 2016 onwards.

1 Critical

#	Severity	Type	Software Change	Key area
1		Bug	**Scheduled archive on Ubuntu.** Fixed a process lock up condition, when the scheduled archive process signs archive files on Ubuntu.	Archiving
2		Bug	**Incorrect handling of NTSC with SAM3104s.** NTSC cameras were streaming as pink and green blotches in some circumstances. This was addressed.	Network devices
3		Bug	**Advanced database recording problem.** Fixed an Advanced database issue where a camera recording is not assigned to a database, and so is not recorded, until the system is rebooted.	Database

2 Major

#	Severity	Type	Software Change	Key area
1.	⚠	Bug	**Watchdog process correction** Address a problem with the watchdog erroneously triggering when the embedded file-system was full.	Network devices
2.	⚠	Bug	**Resolved a memory leak in the analytics video decompression chain.**	Frame grabbers
3.	⚠	Bug	**Correctly save rotation of text for cameras, inputs etc. and bitmaps in the map editor.**	Map
4.	⚠	Bug	**Camera detection on SAM3101s** Corrected a problem with camera detection that meant that the SAM3101 might have taken over 10 minutes, to determine the camera was up.	Alarms
5.	⚠	Bug	**New restore point management system, from the unlicensed tab.** Corrected for an issue where, erroneously, the old restore point mechanism was being used on Ubuntu.	Configuration
6.	⚠	Bug	**Fixed streaming for QCIF channels for NTSC cameras, on SAM3101s.**	Alarms
7.	⚠	Bug	**Corrected an archiving problem, on Ubuntu, which occurred when copying the archive viewer to a folder containing spaces in the name.**	Archiving
8.	⚠	Bug	**Fixed a GUI crash which would happen after restoring a configuration backup remotely.**	Configuration
9.	⚠	Modification	**Move the location of camera snapshots to a permanent store.** The snapshots were being stored in the tmp folder, which meant they were cleared on every system restart.	Configuration
10.	⚠	Modification	**Allow netstep to forward any connection to 127.0.0.1, when running in auto-configured mode (default).**	Communications
11.	⚠	Modification	**Added PTZ functionality to the Geovision driver.**	Network devices
12.	⚠	Modification	**Added PTZ functionality to the Sunell driver.**	Network devices

13.	⚠	Modification	**Modify the POS display to allow it to be used for Matrix barcode reader.** The changes are: • Using the object type for the name (Till/Reader etc.) • Adding a flag to the display line, to have the display cleared before the line is displayed.	Integration
14.	⚠	Problem	**Linux disk management issue detecting disk partitions.** Fixed an issue with the disk manager in the GUI. There was a problem checking the partitions present for disks connected to certain disk controllers. These disks cannot be attached to the system via the GUI's disk manager.	Configuration
15.	⚠	Problem	**Set NetBSD web interface review limit to 2.** Resolved an issue introduced by NetBSD review limits, when cameras are changed while reviewing.	Mobile
16.	⚠	Problem	**Path permissions for scheduled archives.** Corrected the path permissions, on Linux, for scheduled archives to ensure that all users have read access to the files.	Archiving
17.	⚠	Problem	**Startup of the gateway server (using PostgreSQL)** This modification substantially improves the speed with which the gateway loads alarms at startup on PostgreSQL. The slow load could make it appear as if the gateway server was not working. This was not an issue in previous versions using MySQL.	Alarms

3 Normal

#	Severity:	Type	Software Change	Key area
1		Feature	**Adjusted FLIR driver for compatibility with the Flir FC-Series.** The Flir driver now works with the FC-Series.	Network devices
2		Feature	**Added Etrovision EVxx5x driver** <u>Note</u>: We do not support multicast as when this is enabled, both the unicast and multicast streams may not work. Motion triggers from the camera are not supported as the camera does not send the state changes.	Network devices
3		Feature	**Illovo Weighbridge integration**. An integration to support a single weighbridge device.	Integration
4		Feature	**Audio out capability for the Surveon camera integration.** Supported models using at least firmware version 2.4.C07.20140910 are: AM1300/1301/1320/1201/4211/4221/3351/2301A/4311/4321/2311/3361/4361/2331/2311P/3371/4371. Other models to be supported with upcoming firmware (so anything from September 2014 and later) are: CAM7511/3571/2511/3471/4471/2441/4521LV/4561LV/2511SC/4421LV/4461LV/4321LV/4311S2/4351R2/4361LV/2311SC	Network devices
5		Feature	**Trek Scale integration.** Added support for the Trek Scale. (Note: mass will only be displayed in grams.)	Integration

6		Feature	**Gallagher Integration.**	Integration
			Licensing	
			The Gallagher integration requires the following license: CDEV-2000 (Other Device License)	
			Gallagher Integration device:	
			The Gallagher integration uses a software wrapper (GallagherWrapper) which is installed on the same machine as the Gallagher Command Centre. This wrapper provides an interface between the command center software and the nvr. The wrapper receives access events for doors and alarms on fence zones and transmits these to the NVR via UDP.	
			Gallagher integration features:	
			- Fence zone objects used to identify individual fence zones. - Door objects used to identify door access. - Messages for fence zones - Messages for door objects - Messages for both fence zones and door objects stored in a metadb	
7		Feature	**Implemented the use of serial a port for PTZ, in the Acti H264 driver**	Network devices

8		Feature	**Illovo weighbridge integration.**	Integration
			The following licenses are required:	
			• CWBG-2000 (Weighbridge device license).	
			• CWBG-1001 (Single weighbridge license).	
			• CWBG-3000 (Bundle of the above, with device license, and unlimited weighbridges).	
			The driver is designed to connect to multiple weighbridge devices across serial ports or ESP ports. Each weighbridge connects on a separate serial or ESP port.	
			Illovo weighbridge features:	
			• Connects to multiple weighbridges on separate serial or ESP ports.	
			• Each weigh bridge is associated with a weighbridge object.	
			• Transaction events are received from each weighbridge and displayed.	
			• Each transaction event is stored in a metadatabase.	
9		Feature	**Santec Panoramic camera integration.**	Network devices
			VMD	
			To set up VMD on the camera, follow the below steps:	
			• Go to the settings page.	
			• Go to the "Event" page.	
			• Select "Motion Detection" on the left.	
			o Configure zones.	
			• Select "Motion Detection" on the left, and add an event type, with the following:	
			o Trigger by: "Motion Detection".	
			o In Window: Select the window that you configured.	
			o Select "Send Message Notification (TCP)" with the following settings:	
			• Server IP: IP of NVR.	
			• Server Port: 32305.	
			• Message: A user defined message. This message must match up with the trigger message on the NVR.	

10		Feature	**ACT integration.** **Required licenses:** • CACC-2000 (Access control device license). • CACC-1001 (Access control single door license). • CACC-3000 (Bundle of the above licenses, as Access control device license, with unlimited door licenses). <u>Note</u>: This requires the Cathexis ACT Server which needs to run on the same system as the ACT software.	
11		Modification	**Added support for the Hikvision DS-2CD6332FWD sub-models.**	Network devices
12		Modification	**Relax constraints on analytics feeds for network devices.** The resolution constraints on analytics feeds have been relaxed, for feeds from IP cameras and encoders. A feed can be configured for use by analytics if either one of the following is true: 1. Its width is <= 720 (<= 360 for a NetBSD server). 2. Its height is <= 576 (<= 288 for a NetBSD server). <u>Note</u>: These limits can be manually adjusted, by editing the settings/system.ini file, but this should *only* be done in consultation with Cathexis, as it could cause unexpected side effects.	Network devices
13		Modification	**Iolan streaming file integration.** Ported the old streaming file integration, for Iolan, to CathexisVision 2014.	Integration
14		Modification	**Nero 16 (2015) support for legacy archiving.** Added support for Windows disc burning using Nero 2015 for legacy archiving.	Archiving
15		Modification	**Matrix barcode reader integration device.** Added.	Integration

16		Modification	**Added access rights for disabling alarms in the gateway.** The access rights are set in **Menu -> Gateway -> Users -> Manage levels -> Edit** and are called: • can disable specific alarms • can disable server alarms • can disable site alarms	Gateway
17		Modification	**Modifications to the Paxton Access Control integration.** The maps now display notifications, and readers can now be identified.	Modification
18		Problem	**Corrected an issue that caused stalled live video, with audio enabled, from SAM3 on Fedora.** In this instance the audio was not played back at the incoming rate (it was played slower). This resulted in the live video stalling.	Audio
19		Problem	**Control Device event action widget.** The button to select the object to control in the "Control device" event action is now visible.	Integration
20		Problem	**Alarm history when user does not have access to view all cases.** Corrected an alarm history issue that occurred when the user did not have access to view all cases. In this case it would have shown no cases at all. This problem was introduced by the MySQL to Postgres conversion.	Gateway
21		Problem	**Corrected problems creating gateway PostgreSQL databases, on disks mounted by the Cathexis disk management system.**	Alarms
22		Problem	**Corrected an issue on Fedora ("Cannot talk to klauncher..."), that occurred when attempting to restore an existing configuration backup, as a non-root user.**	Configuration
23		Problem	**Pelco.** Dealt with a crash that occurred if a camera's stream on the web interface had been cleared.	Network devices
24		Problem	**Force file sync during a Fedora archive to flash drive.** On Fedora, an archive being written to a USB flash drive may not fully complete by the time the drive is unmounted, and then removed by the user.	Archiving

25		Bug	**Corrected map rendering when MSAA renderer fails to initialise.** Corrected a problem viewing maps on Ubuntu systems when the multi-sampling anti-aliased render failed to initialise. When this happened the map would be blank.	Map
26		Bug	**Quicker recovery from an error state, on Technoswitch fire panel.**	Integration
27		Bug	**JPEG resolutions on Canon cameras.** Added support for the following resolutions: • 320x180 • 640x360 • 1280x720	Network devices
28		Bug	**The connection loss on a SAM3101 might have been reported as a firmware mismatch.**	Alarms
29		Bug	**Audio playback improvements.** A number of audio playback improvements, both on Windows and Linux.	Audio
30		Bug	**Removed I/O from Santec Panoramic integration.**	Network devices
31		Bug	**Automatically create the automatic configuration backup path, when the configuration backup is performed.**	Configuration
32		Bug	**Automatic firmware updating, on the SAM3s.** Automatic firmware updating for the SAM3101 and SAM3104 is now user configurable. By default it is off.	Alarms
33		Bug	**HTML server scaling.** Fixed an issue with mobile and web clients, where the video is cropped instead of scaled to fit the display.	Mobile
34		Bug	**Watchdog** Prevent profiler server watchdogs, when pruning performance counter database.	Profiling
35		Bug	**Addressed noise that would occur when looping audio input to audio output on Fedora**	Audio
36		Bug	**Improved camera type detection for SAM3104's**	Alarms
37		Bug	**Allow handling of strange resolutions in SmartVMD, from Bosch camera.** The maximum resolution for analytics feeds was increased, and this resulted in strange feed resolutions from some cameras, which were not handled correctly in SmartVMD. This corrects that.	Alarms

38		Bug	**Set 4CIF resolution to 704x576 on the Bosch driver.** Set 4CIF resolution to 704x576 on the Bosch driver. Previously, it was set as 704x504, which is incorrect.	Network devices
39		Bug	**Added support for wavelet review on the web/mobile interface**	Alarms
40		Bug	**H264 variable bit rate quality issue on the Sunell driver.** This corrects the issue were the quality is changed for the camera, and registers as changed on the camera, but there is no change in the video quality, from the stream. With this change there is a distinct change in quality for different values set.	Network devices
41		Bug	**Added a script to check for Intel I915 video controller bug.** Will reboot NVR if Intel I915 graphics bug is detected (Also this will only apply to Fedora.)	Alarms
42		Bug	**Check for NULL pointer access when retrieving RTP stats.** This fixes a crash that's caused when CathexisVision runs out of descriptors. A descriptor can be a TCP connection, an open file etc. So far this has only been seen on NetBSD, where the number of descriptors that can be opened on is quite limited.	Network devices
43		Bug	**Paradox alarm system** Fixes an issue where, when disarming the area object, it would go into the disarmed state then return to the armed state, and then change back to the disarmed state again.	Integration
44		Bug	**SAM3101 Audio.** This fixes a problem with SAM3101's, where the voice codec occasionally produced corrupt audio samples. This was particularly evident when the unit was very busy with video compression.	Network devices
45		Bug	**Fixed a problem where SAM3104's would incorrectly deem a video feed as stalled, and reboot themselves.**	Alarms

4 Minor

#	Severity:	Type	Software Change	Key area
1		Bug	**Addressed a GUI crash that occurred when connecting to the forensic database.**	Profiling
2		Modification	**Allowed a KBD3000 to access COM ports higher than 9 on Linux/NetBSD.**	User interface
3		Modification	**Allow the use of the advanced performance tool, with command line option: advanced_perf**	Profiling
4		Problem	**Save the user's archive settings in the user's OS home path.** On Ubuntu, store default archive paths (and viewer copy settings) independently for each archive user. Also fixed an issue where the first OS user to perform an archive is the only user that is able to change the archive settings.	Archiving

5 Informational

#	Severity:	Type	Software Change	Key area
1		Modification	**Inform users that, after restoring a configuration, the databases need to be manually imported.**	Alarms
2		Modification	**Removed the advanced performance counter tool.** Removed the advanced performance counter tool as it contains mostly test counter views. The important counter views are already contained in the forensic tool.	Profiling