Avigilon H3A Camera Line Camera Line Firmware Release Notes

Version 3.28.0.168– Released Aug 18, 2021
Issue Fixed
- Addresses an important security issue. Avigilon customers are advised to take this upgrade

Version 3.28.0.86 – Released Jun 4, 2019
Issue Fixed
- Fixed an issue where analytic event rules may be triggered on ACC when network connectivity is lost and restored to the camera.

Version 3.28.0.76 – Released May 17, 2019
Issue Fixed
- Attention: All ACC users with camera firmware version 3.28.0.50 must update to this version. This version fixes a critical bug where many analytic cameras connected to ACC might degrade the server recording and streaming performance. Upgrading to this version will disable ONVIF analytics metadata stream by default. Third party VMS users will need to enable this in the WebUI to receive analytic events.

New Features
- Added support to enable ONVIF compliant analytics metadata in the WebUI. This feature can be enabled/disabled in Setup under 'Analytics' tab.

Version 3.28.0.50 – Released March 28, 2019
New Features
- Added support for ONVIF Profile T conformance.
- Added support for ONVIF analytics events. This includes support for bounding boxes on classified objects and events such as Analytics Line Detector, Field Detector and Loitering Detector.
- Added support to disable Night Visibility Check in the WebUI. This feature can be enabled/disabled in Day/Night Settings under Image and Display tab.
- Issues fixed:
- Fixed an issue where ONVIF streaming may have issue with certain VMSs due to difference in interpretation of the ONVIF specification. Media services call
- GetGuaranteedNumberOfVideoEncoderInstances to camera will now return the maximum number of concurrent streams available instead of the minimum value of 1.
- Fixed an issue where 802.1x authentication over SSL protocol TLSv1.2 would fail. • Fixed an issue with ONVIF profile S where push notifications were not being sent to end points.
- Fixed an issue where the camera would not allow hostname to start with a number. • Fixed an issue where the camera drops and restarts stream if the requesting host has the term "VLC" in its name.
- Fixed an issue where streaming over TCP may result in dropped frames.

- Fixed an issue where any changes saved from mobile webUI may overwrite blank DNS server field.

Version 3.24.2.96 – Released September 21, 2018
New Features
- TLSv1.0 disabled to improve security
- Implemented failed password retry throttling on the WebUI
- Enables camera to accept DNS server address as an IPV6 address
- Upgraded wpa_supplicant to more secure 2.6 version. This version also addresses network authentication failure with RADIUS servers in certain scenarios
- Added support for full resolution secondary streaming when connected to third party VMS
- Issues fixed:
- Fixes an issue where the IP address cannot be configured via the WebUI on IE11
- Fixes an issue where tamper events may be generated for certain scenarios

Version 3.16.0.216 – Released October 11, 2017
New Features
- Added support for IPv6, not including H4 ES cameras
- Enables control over motion compensated temporal noise filter strength
- Supports face detection for use with Avigilon Appearance Search™ technology

Version 3.16.0.178 – Released July 11, 2017
Issues Fixed
- Fixes critical vulnerability CVE-2017-9765. While the risk for Avigilon products installed behind a firewall or isolated network is limited, we highly recommend all users to update to this release.

Version 3.16.0.138 – Released July 7, 2017
New Features
- Added camera tamper configuration to WebUI
- Improved Appearance Search accuracy for two objects closed together or when crossing paths

Issues fixed:
- Fixed an issue preventing FW upgrades via the WebUI
- Fixed an issue where the 8MP camera may crash in high frame rate mode when configuration is changed on the tertiary stream

Version 3.16.0.90 – Released April 24, 2017
Issues Fixed:
- Camera now accepts power from a PoE+ source outputting at PoE level.
- Fixed an issue where the ARP ping method could not be disabled in the WebUI
- Corrected an issue where privacy zones created at the far right edge can wrap around to the left edge or is smaller than intended.

- Corrected an issue resulting in poor audio input quality.
- Corrected an issue where formatting SD cards via the WebUI would not actually initiate the process.
- Addressed CVE-2016-5195

Version 3.10.2.10 – Released January 26, 2017
Issues Fxed:
- Fixed an issue where sometimes scenes with frequent analytics activity would cause the camera to crash.

Version 3.10.2.8 – Released November 29, 2016
Issues Fixed:
- Fixed an issue where the MIB files would sometimes generate an error upon upload.

Version 3.10.0.162 – Released November 14, 2016
New Features
- Upgraded OpenSSL version to v1.0.2h.
- Added support for configurable secondary stream up to the same resolution as the primary.
- Iris aperture size is displayed under Image and Display Settings in the WebUI.
- Added an option to restore to SNMP defaults
- Added an option to enable or disable HTTP from the WebUI.

Issues Fixed:
- Fixed an issue where Kanji characters in the camera name may corrupt the time zone settings.
- Fixed an issue where the MIB files would not return the correct object via SNMP query.
- Fixed an issue where the IR Focus Offset slider would interact with the image and display in the WebUI.
- Fixed a time synchronisation issue that appeared in some cameras.
- Fixed an issue where the NTP server would not revert to default settings when Restore Defaults is executed in the WebUI.
- Fixed an issue where triggering a digital output would prevent the user from applying changes to Digital Inputs and Outputs settings in the WebUI.
- Fixed an issue where the time zone and day light savings settings would not revert to default settings when Restore Defaults is executed in the WebUI.

Version 3.10.0.136 – Released September 6, 2016
Issues fixed:
- Fixed an issue where cameras may experience a gradual reduction in encoding framerate

Version 3.10.0.118 – Released May 31, 2016
New Features
- Added support for Idle Scene Mode
- Upgraded to OpenSSL version 1.0.2d to improve security when streaming data between the ACC Client software and ACC Server software.
- Improved exposure offset setting. It can now be manually configured.
- Added the iris aperture size display on the Image Settings page of the camera WebUI. • Improved

the ability to configure the threshold for switching day/night mode by changing the control to a slider in the WebUI.
- Added the ability to configure SNMP to version 2c or 3 in the WebUI. When using SNMP v3, the username and password can be configured in the WebUI.
- Added high sensitivity outdoor mode for analytics

Issues Fixed:
- Fixed an issue where the camera would reboot every 45 days.
- Fixed an issue where the firmware upgrade would not start when the Upgrade button is clicked.
- Fixed an issue where changing the motion detection sensitivity would cut off part of the detection area.
- Resolved issues with the compression formats that caused the Max Bitrate to drop to 0. • Improved motion detection under low light conditions.
- Fixed an issue where audio playback and camera image were out of sync. • Fixed an issue where the privacy zones could be dragged beyond the camera field of view.

Version 3.6.0.36 – Released March 3, 2016
Issues Fixed:
- Fixed an issue where the camera would be given an unintentional static IP address after a firmware upgrade

Version 3.6.0.34 – Released January 14, 2016
New Features
• Added video overlays to show the camera date, name, time and location settings

Issues Fixed:
• Upgraded OpenSSL version to improve security between client and server • Fixed an issue where the camera would go out of focus after reboot

• The camera motion detection area is now shown properly without going over the image preview window in the camera WebUI

• Improved auto focus capabilities

• Fixed an issue where configuring the camera to a static IP and back to DHCP in the WebUI would cause the camera to report the IP address in the wrong part of the ONVIF message. • Fixed an issue where the status bar was hidden in some WebUI pages

• Fixed an issue where reducing the maximum gain would shut down the IR sensors and cause incorrect day/night behavior

• Fixed an issue where the iris would re-initialize when image settings were modified

• Corrected motion detection behavior under low light conditions

Version 3.6.0.30 – Released December 16, 2015
Issues Fixed:
• Fixed an issue where the camera would reboot after configuring video analytics events

Version 3.6.0.26 – Released November 2, 2015
Issues Fixed:

• Corrected an issue where a false tampering event would be detected upon IR self-test

Version 3.6.0.24 – Released October 7, 2015

Issues Fixed:
• Fixed an issue where the cameras randomly reboot
• Corrected the camera certification issues to resolve registration errors
• Fixed an issue where changing some camera settings would error out the camera
• Corrected the behaviour where the WebUI would appear to have started the upgrade but the upgrade was not actually triggered
• Fixed an issue where switching to monochrome mode (IR on) would turn images red • Fixed an issue with the WebUI where the icons under motion detection would not display properly
• Upgraded OpenSSL version to improve security between client and server

Version 3.6.0.18 – Released August 24, 2015

Issues Fixed:
• Fixed an issue where Object Bounding Box on target objects was offset
• Fixed an issue where the frame rate would jump to next applicable frame rate upon camera reboot.
• Corrected an issue where the top of the image would show a region with different black level. • Fixed an issue where the audio playback was not synchronized with the camera image

Version 3.6.0.16 – Released June 30, 2015

New Features
• Added a feature where the effective max bitrate is independent of image framerate • Upgraded to OpenSSL version 1.0.2b to improve security between client and server
• Added capability to use x-dimensions RTSP SDP attribute to handle MJPEG RTP streams exceeding 2040 pixels for clients not using the ONVIF extensions

Issues Fixed:
• Fixed an issue where analytic bounding boxes are offset at lower resolutions
• Corrected the ONVIF response as MotionActive for both Pull Message and Get Event Properties responses
• Fixed a security issue where the 802.1x passwords were being returned in plaintext
• Corrected an issue where a space character in the 802.1x description prevents it from being used

Version 3.6.0.14 – Released May 18, 2015

• Internal manufacturing changes only

Version 3.6.0.12 – Released May 18, 2015

New Features
• Initial firmware release for the following cameras:

o 1.0C-H3A-DO1
o 1.0C-H3A-DO2
o 2.0C-H3A-DO1
o 2.0C-H3A-DO2

o 3.0C-H3A-DO1
o 3.0C-H3A-DO2
o 1.0C-H3A-DO1-IR
o 2.0C-H3A-DO1-IR
o 3.0C-H3A-DO1-IR
o 1.0C-H3A-DP1
o 1.0C-H3A-DP2
o 2.0C-H3A-DP1
o 2.0C-H3A-DP2
o 3.0C-H3A-DP1
o 3.0C-H3A-DP2
o 1.0C-H3A-BO1-IR
o 1.0C-H3A-BO2-IR
o 2.0C-H3A-BO1-IR
o 2.0C-H3A-BO2-IR
 o 3.0C-H3A-BO1-IR
o 3.0C-H3A-BO2-IR
o 1.0C-H3A-D1
o 1.0C-H3A-D2
 o 2.0C-H3A-D1
 o 2.0C-H3A-D2
o 3.0C-H3A-D1
 o 3.0C-H3A-D2
 o 1.0C-H3A-D1-IR
o 2.0C-H3A-D1-IR
 o 3.0C-H3A-D1-IR
o 1.0C-H3A-DC1
 o 1.0C-H3A-DC2
 o 2.0C-H3A-DC1
o 2.0C-H3A-DC2
 o 3.0C-H3A-DC
1 o 3.0C-H3A-DC2

Version 3.6.0.6 – Released March 31, 2015

New Features

• Added option to synchronize the digital I/O to the IR cut filter
• Changed SD card recording option to enable the "Record only when server connection is interrupted" by default
• Added an information display to report the current digital input status
• Added ability to optimize focus under IR lighting conditions
• Pixel change motion mask now set to enable across the entire field of view • Added ability to configure

MTU sizes in the network configuration
• Added support for UTF-8 and UTF-32 characters in the camera name and location fields I

Issues Fixed:

• Corrected the issue where only the initiating server receives the analytics event update for the camera. Now, all servers that are connected to the camera receive the same analytics event updates.

• Fixed a web server generic cookie injection and web server generic XSS vulnerability • Corrected an issue where certain cameras may incorrectly overexpose a scene

• Corrected the port range used for RTP / RTCP connections from 51000-63000 to 51000-55000 • Corrected an audio issue where the audio stream would be garbled when it is connected to two ACC servers simultaneously

• Reduced the real time clock battery drain

• Maximum exposure time default is set to 1/30s instead of 1/8s

• Corrected an issue where the RTSP URI generated in the Web UI did not follow the RTSP port settings

• Corrected an issue where a status of "Apply failed!" was reported when switching between DHCP and static IP. However, the actual settings were committed into the camera

• Corrected an issue where certain SD card recordings may have corrupted frames

Version 3.4.0.26 – Released January 30, 2015

Issues Fixed

• Corrected an issue where certain cameras may incorrectly overexpose a scene

Version 3.4.0.20

New Features:

• Added video analytics support for rotated camera images for 90, 180 and 270 degrees

Issues Fixed:

• Corrected an issue where a resolution change from the Web UI would result in the analytics bounding boxes being offset from the actual object.

Version 3.4.0.16

• Initial FW release packaged with ACC 5.4 initial release

• Please ensure that all cameras with Self-learning Video Analytics are upgraded to this release before use in a live surveillance system

• Compatible with the following display part numbers:

- o 1.0-H3A-DO1
- o 1.0-H3A-DO1-IR
- o 1.0-H3A-DO2
- o 1.0-H3A-DP1
- o 1.0-H3A-DP2
- o 1.0W-H3A-BO1-IR
- o 1.0W-H3A-BO2-IR
- o 2.0-H3A-DO1

- o 2.0-H3A-DP2
- o 2.0W-H3A-BO1-IR
- o 2.0W-H3A-BO2-IR
- o 3.0W-H3A-DO1
- o 3.0W-H3A-DO1-IR
- o 3.0W-H3A-DO2
- o 3.0W-H3A-DP1
- o 3.0W-H3A-DP2
- o 2.0-H3A-DO1-IR
- o 2.0-H3A-DO2
- o 2.0-H3A-DP1
- o 3.0W-H3A-BO1-IR
- o 3.0W-H3A-BO2-IR