Avigilon H4 PTZ Firmware Release Notes

Version 4.18.0.80 – Released Sep 17, 2021

New Features

- Added support for IP address access filtering on the camera. Users can now configure an IP access grant/block list from the camera's WebUI
- Added support for ONVIF Core Specification, Section 4.7, which enables a camera's GeoLocation to be stored on the camera. GeoLocation attributes can be set and retrieved from the camera using standard ONVIF specified operations
- Support added for TLS (Transport Layer Security) v1.3

Issues Fixed

- Addresses an important security issue. Avigilon customers are advised to take this upgrade
- Fixes an issue where the camera's range limits could sometimes be set to incorrect values which would cause PTZ control issues to occur with certain VMSes
- Fixes an issue where some cameras would be unable to stream video after upgrading to a version 4.10.x.x of firmware

Version 4.10.0.38 – Released Mar 8, 2021

Issues Fixed

- Fixes an issue where the camera's video stream could sometimes be interrupted for a short period of time

Version 4.10.0.38 – Released Mar 8, 2021

Issues Fixed

- Fixes an issue where the camera's video stream could sometimes be interrupted for a short period of time

Version 4.10.0.36 – Released Dec 7, 2020

Issues Fixed

- Fixes an issue in the previous firmware version where unchecking 'Disable Http Connections' in the WebUI would have no effect
- Fixes several issues related to 802.1x EAP-TLS client authentication

Version 4.10.0.18 – Released Oct 16, 2020

New Features

- Added support for edge storage and retrieval via Profile G conformance. Supported Profile G compliant VMSes can retrieve video recordings from the camera's SD card. Cameras that are upgraded to this firmware version will need to enable Profile G functionality from the WebUI. Enable Profile G option can be found in Setup > Storage tab. Refer to the web interface user guide to configure edge storage settings. Note: Once enabled, the "Enable Profile G" button will disappear.
  - Avigilon Control Center users require version 7.6 or later to support video retrieval functionality from the camera's SD card.
  - Video playback is only supported for recordings in H.264 format. MJPEG videos can be stored on the SD card but cannot be retrieved by the VMS.
- Added support for HTTP Strict Transport Security (HSTS)

- Added the ability to set the camera's home position via the webUI
- Added a long range analytic mode which can be enabled using the Camera Configuration Tool or Avigilon Control Center

Issues Fixed

- Fixed an issue where recording on motion events would sometimes not function correctly when the connection to Avigilon Control Center is interrupted
- Fixed an issue where cameras could sometimes go into a lockout state after a password change is performed, in systems that incorporate failover servers
- Fixed an issue where the camera would display "Insufficient Power" in the live view, after upgrading to the latest firmware version

Version 3.30.0.98 – Released July 16, 2020

Issues Fixed

- Fixes an issue where the image would sometimes flicker under certain conditions

Version 3.30.0.90 – Released June 18, 2020

Issues Fixed

- Bug fixes related to powering cameras with UPoE and 60W/90W injectors

Version 3.30.0.40 – Released Jan 4, 2020

New Features

- Added support for high power PoE compatibility with Cisco UPoE standard, up to 60W over 4 pairs.
- Updated camera's webUI jQuery version.
- Added support to enable ONVIF analytics events for supported third party VMSes. This includes support for bounding boxes on classified objects and events such as Analytics Line Detector, Field Detector and Loitering Detector. ONVIF compliant analytics metadata can be enabled in the WebUI by selecting 'Analytics' tab under Setup.
- Added support for ethernet speed and duplex setting. The setting can be found in the 'Network' tab under Setup on the camera's WebUI.
- Added support to enable/disable Tamper detection. The setting can be found in the Tamper Detection tab under Setup on the camera's WebUI.

Version 3.28.0.148 – Released Nov 19, 2019

New Features

- Added support to set Subject Alternative Name via ONVIF or as a part of the certificate signing request.

Version 3.28.0.112 – Released Aug 16, 2019

Issues Fixed

- Fixed an issue where GetVideoEncoderConfigurationOptions under Media2 was not returning all configurable frame rates.

- Fixed an issue from 3.28.0.94 where the temporal filter strength was changed on firmware upgrade.

Version 3.28.0.98 – Released Aug 1, 2019

Issues Fixed
- Internal manufacturing release

Version 3.28.0.94 – Released July 25, 2019

Known Issues
- This release increased the noise filtering which may result in motion artifacts. Please upgrade to the latest version or adjust the temporal noise filtering

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 for IPV6.

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.
- TLSv 1.0 disabled to improve security
- 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 the camera would not allow hostname to start with a number.

Version 3.16.0.248 – Released November 15, 2018
- Fixed an issue where certain ONVIF calls for event subscription, related to monitoring digital input/output events, may fail.
- Fixed an issue where streaming over TCP to ACC might result in dropped frames.

Version 3.16.0.202 – Released October 4, 2017

Issues Fixed
- Improved stability in the presence of occasional communication errors.

Version 3.16.0.170 – 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 3.16.0.112 – Released May 30, 2017

Issued Fixed
- Manufacturing test improvements

Version 3.16.0.92 – Released April 10, 2017

New Features
- Added low power warning overlay if PoE power is used.
- Added low temperature cold start delay overlay if camera is powered up below minus 20°C.
- Improved the ONVIF relative zoom moves to be more granular at the wide end and less granular at the tele end.
- Added support for HDSM SmartCodec.

Issues Fixed:
- 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 where the camera may reboot if too many analytic objects are detected.
- Removed false certificate is expired warnings from logs during firmware upgrades.
- Improved WebUI privacy zone settings by including the drag to move arrow.
- Corrected an issue where E-Flip disabled setting is not retained during reboot or firmware upgrades
- Fixed an issue where the WebUI may crash while using the 'Restore default' button.
- Corrected the WebUI display to show the tilt limit is at 90 degrees when E-Flip is disabled.
- Corrected an issue resulting in poor audio input quality.
- Addressed an issue where the ONVIF subscription URL was not accounting for the URL query parameters.
- Removed the continuous and manual focus radio button options in the image and display settings.

Version 3.16.0.54 – Released February 21, 2017

Issues Fixed:
- Improvements to manufacturing tests

Version 3.16.0.40 – Released January 26, 2017

Issues Fixed:
- Upgraded OpenSSL version to v1.0.2h.
- Camera power source is now displayed on the WebUI 'About' page.
- Increased maximum number of PTZ presets from 100 to 500.
- Fixed an issue where the MIB files occasionally generated an error upon upload.
- Fixed an issue where the wrong object type was returned for the SNMP Temperature ID.
- Spaces can now be used in naming 802.1X configuration.
- Fixed an issue where deleting a privacy zone would cause the next privacy zone to be not selectable in the WebUI.
- Improved the accuracy of the field of view when it is moved from home position through the WebUI.
- Fixed an issue where the manual exposure values configured via ONVIF are not displayed in the WebUI.

- Fixed the camera LED behavior upon start.
- Fixed an issue where the PTZ guard tour dwell times were not obeyed.
- Fixed an issue where the digital defog functionality would revert to the default settings after flicker or WDR settings changed.
- Fixed an issue where the camera would detect false motion at night when WDR was enabled.
- Fixed an issue where the ARP ping method could not be disabled in the WebUI.
- Added support for 802.1x server certification check.
- Fixed an issue where performing Restore to Factory Defaults would not restore the SNMP settings to default values.
- 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.
- Improved PTZ movement when using continuous move feature.
- Fixed an issue where setting the camera pan, tilt, zoom via ONVIF would vary from the configured destination.

Version 3.14.0.50 – Released Nov 17, 2016

Issues Fixed:
- Corrected an issue where the camera may overshoot the pan and tilt target.
- Digital defog can now be configured in the WebUI.

Version 3.14.0.46 – Released Oct 21, 2016

Issues Fixed:
- Corrected an issue where PTZ may not achieve home position properly depending on its current position.

Version 3.14.0.44 – Released Oct 7, 2016

Issues Fixed:
- Corrected a manufacturing test issue.

Version 3.14.0.38 – Released Oct 4, 2016
- Initial FW release
- Compatible with the following display part numbers:
    - 1.0C-H4PTZ-DC45
    - 1.0C-H4PTZ-DP45
    - 2.0C-H4PTZ-DC30
    - 2.0C-H4PTZ-DP30