

# Avigilon Control Center™ 6 Release Notes

Version 6.8.6.4 – Released May 15<sup>th</sup>, 2018

## Release Summary

This is a service release of Avigilon Control Center™ 6.8. Customers who use H4 Fisheye cameras should apply this update in order to avoid the issue described below. As each service release improves system security and stability, we recommend all users upgrade to the most recent version.

Customers who wish to use the new Analytics add on kit for NVR3 Value models must install this service release.

Due to security improvements, ACC 6.8 cannot be downgraded to a previous version without deleting all configuration data. Customers are always recommended to back-up their ACC Site Settings before any upgrade.

ACC 6 is a paid major version upgrade for ACC 5 customers and requires upgrade license keys in order to use the software – customers with ACC 5 systems should contact their integrator partner or Avigilon sales representative for more information including upgrade pricing. Customers with ACC 5 systems that are not yet ready to upgrade to ACC 6 can continue to install ACC 5.10 service releases made available on the Avigilon website in order to pick up fixes for software defects.

Integration users may need to upgrade their integration software to a version supported by ACC 6. Please consult the website to determine which versions of your integrations are supported and available for ACC 6.

Note – ACM must be upgraded to ACM 5.10.10 or later to support the latest ACM/ACC native interactions including panel inputs. As well, ACC-ACM integrations must be updated to “AvigilonAcmlIntegration-5.8.4.13” or newer to use the alarm gateway and VidProxy with ACC 6.8.

## New Features

- Support for the Analytics add on kit for NVR3 Value models (HD-NVR-ANK2-1) which enables Avigilon Appearance Search™ technology on that model line.

## Issues Fixed

- Resolved an issue in the ACC client and ACC Player that degraded the image quality for the H4 Fisheye during live and recorded playback. Video frames in storage were not impacted by this issue, so review of paused or still images was unaffected. Playback of existing recorded footage should now exhibit improved clarity.

## Avigilon Control Center™ 6 Release Notes

### Version 6.8.6.4 (continued)

#### Known issues in this release (unchanged from previous release)

- Users may not be able to deactivate any Product Keys after removing their LPR dongle and restarting the server. The workaround is to reattach the LPR dongle and restart the server.
- With the addition of inputs in ACC, operators with ACM privileges (door grants for example) may experience long ACC login times (up to 10 seconds) when ACC is connected to a large (> 500 door) ACM systems. Optimizations are planned for ACC 6.10.

#### Avigilon™ Device FW Included

- V3.18.0.36 for Presence Detector
- V3.16.0.234 for H4 Mini Dome cameras
- V3.16.0.234 for H4 SL Bullet and Dome cameras
- V3.16.0.168 for H4 Pro H.264 cameras
- V3.16.0.216 for H.264 H3 cameras with self-learning analytics
- V3.22.0.36 for H4 Thermal cameras
- V3.20.0.54 for H4 IR PTZ cameras
- V3.16.0.172 for H4 Fisheye cameras
- V3.2.0.54 for H3 Multi-sensor cameras
- V3.16.0.202 for H4 PTZ cameras
- V3.24.2.52 for H4 Box Bullet Dome cameras with self-learning analytics
- V2.6.0.168 for H3 Micro Dome cameras
- V2.6.0.166 for H3 PTZ cameras
- V2.6.0.168 for H3 Bullet cameras
- V2.6.0.168 for H3 Box Dome cameras
- V2.2.0.72 for H.264 encoders
- V.2.2.0.58 for HD H.264 cameras

## Avigilon Control Center™ 6 Release Notes

Version 6.8.4.0 – Released April 9<sup>th</sup>, 2018

### Release Summary

This is a service release of Avigilon Control Center™ 6.8. This release corrects an issue affecting the use of digital outputs on some Avigilon recorders/appliances with the ACC Mobile 3 Preview app, and includes several other fixes. As each service release improves system security and stability, we recommend all users upgrade to the most recent version.

Due to security improvements, ACC 6.8 cannot be downgraded to a previous version without deleting all configuration data. Customers are always recommended to back-up their ACC Site Settings before any upgrade.

ACC 6 is a paid major version upgrade for ACC 5 customers and requires upgrade license keys in order to use the software – customers with ACC 5 systems should contact their integrator partner or Avigilon sales representative for more information including upgrade pricing. Customers with ACC 5 systems that are not yet ready to upgrade to ACC 6 can continue to install ACC 5.10 service releases made available on the Avigilon website in order to pick up fixes for software defects.

Integration users may need to upgrade their integration software to a version supported by ACC 6. Please consult the website to determine which versions of your integrations are supported and available for ACC 6.

Note – ACM must be upgraded to ACM 5.10.10 or later to support the latest ACM/ACC native interactions including panel inputs. As well, ACC-ACM integrations must be updated to “AvigilonAcmlIntegration-5.8.4.13” or newer to use the alarm gateway and VidProxy with ACC 6.8.

### Issues Fixed

- Corrected an issue that caused local digital outputs on an ACC ES Analytics Appliance, ACC ES HD Recorder, or HDVA (2nd Generation) to be displayed as "Unknown" in the ACC Mobile 3 Preview app for iOS and Android
- Fixed an issue that caused problems playing back recorded video from Axis M3005 cameras in some cases
- Corrected an issue that prevented the playback of the video between the first two keyframes after a recording gap when viewing the lower resolution stream in ACC Client.

## Avigilon Control Center™ 6 Release Notes

### Version 6.8.4.0 (continued)

#### Known issues in this release

- Users may not be able to deactivate any Product Keys after removing their LPR dongle and restarting the server. The workaround is to reattach the LPR dongle and restart the server.
- With the addition of inputs in ACC, operators with ACM privileges (door grants for example) may experience long ACC login times (up to 10 seconds) when ACC is connected to a large (> 500 door) ACM systems. Optimizations are planned for ACC 6.10.

#### Avigilon™ Device FW Included

- V3.18.0.36 for Presence Detector
- V3.16.0.234 for H4 Mini Dome cameras
- V3.16.0.234 for H4 SL Bullet and Dome cameras
- V3.16.0.168 for H4 Pro H.264 cameras
- V3.16.0.216 for H.264 H3 cameras with self-learning analytics
- V3.22.0.36 for H4 Thermal cameras
- V3.20.0.50 for H4 IR PTZ cameras
- V3.16.0.172 for H4 Fisheye cameras
- V3.2.0.54 for H3 Multi-sensor cameras
- V3.16.0.202 for H4 PTZ cameras
- V3.24.2.52 for H4 Box Bullet Dome cameras with self-learning analytics
- V2.6.0.168 for H3 Micro Dome cameras
- V2.6.0.166 for H3 PTZ cameras
- V2.6.0.168 for H3 Bullet cameras
- V2.6.0.168 for H3 Box Dome cameras
- V2.2.0.60 for H.264 encoders
- V.2.2.0.58 for HD H.264 cameras

## Avigilon Control Center™ 6 Release Notes

Version 6.8.2.8 – Released March 8<sup>th</sup>, 2018

### Release Summary

This is a service release of Avigilon Control Center™ 6.8. This release corrects several critical issues that could prevent recordings from being created when ACC is recording based on motion, as well as another critical issue that could cause continuous and manual archive to not report failures when writing to network locations. As each service release improves system security and stability, we recommend all users upgrade to the most recent version.

Due to security improvements, ACC 6.8 cannot be downgraded to a previous version without deleting all configuration data. Customers are always recommended to back-up their ACC Site Settings before any upgrade.

ACC 6 is a paid major version upgrade for ACC 5 customers and requires upgrade license keys in order to use the software – customers with ACC 5 systems should contact their integrator partner or Avigilon sales representative for more information including upgrade pricing. Customers with ACC 5 systems that are not yet ready to upgrade to ACC 6 can continue to install ACC 5.10 service releases made available on the Avigilon website in order to pick up fixes for software defects.

Integration users may need to upgrade their integration software to a version supported by ACC 6. Please consult the website to determine which versions of your integrations are supported and available for ACC 6.

Note – ACM must be upgraded to ACM 5.10.10 or later to support the latest ACM/ACC native interactions including panel inputs. As well, ACC-ACM integrations must be updated to “AvigilonAcmlIntegration-5.8.4.13” or newer to use the alarm gateway and VidProxy with ACC 6.8.

### Issues Fixed

- Corrected an issue that could cause misconfiguration of ONVIF events between ONVIF cameras, including Avigilon cameras, and ACC Server. This could cause missed motion events, among other things, resulting in missed recordings when ACC is set to record based on motion.
- Addressed an issue where ACC would never receive a start of motion event after connecting to an Avigilon camera that has continuous motion activity in its field of view. This affected recordings (when recording was configured to be based on motion), rules (based on motion start) and alarms (based on motion).
- Fixed an issue where recordings wouldn't be created from an Axis M3037 camera when ACC was set to record on motion
- Ensured that continuous and manual archive correctly produce an error response when they fail to successful write the full data for the archive to a network location.

## Avigilon Control Center™ 6 Release Notes

### Version 6.8.2.8 (continued)

#### Issues Fixed (continued)

- Fixed an issue that could cause the ACC Player to not skip over areas without recorded video when playing back native (.AVE) exports
- Ensured that ACC Player doesn't skip over short recorded segments of video when playing back at accelerated speeds (fast forward)
- Corrected an issue where using the Avigilon Pro Joystick's spin wheel would cause an ACC view to switch to recorded mode and present an empty timeline for users that don't have the group privilege to access recorded video. Note that only an empty timeline was presented and it was not possible to view any recorded video in this scenario.
- Ensured that dewarping now works correctly in ACC Client for Oncam Grandeye cameras
- Fixed an issue that could cause blank video to appear in the preview window shown in the ACC Client's export and archive interfaces, and blank video in the created native (.AVE) export or ACC archive (.AVK) as well
- Fixed a bug that could cause ACC Server to crash when sending out central station notifications with image attachments in some cases
- Addressed an issue that was preventing Hikvision cameras running version 5.5 firmware from connecting to ACC Server
- Corrected an issue where Axis M3005 cameras would be listed using that model name in certain places in the ACC user interface rather than the custom camera name that had been configured
- Fixed an issue that could cause ACC Player to take a very long time to load recordings from Avigilon cameras that had idle scene or HDSM SmartCodec enabled and active at the time of the recording
- Corrected an issue that could cause a View to go completely blank if a microphone for a camera in that view was disabled while a user was listening to it

#### Known issues in this release

- Users may not be able to deactivate any Product Keys after removing their LPR dongle and restarting the server. The workaround is to reattach the LPR dongle and restart the server.
- With the addition of inputs in ACC, operators with ACM privileges (door grants for example) may experience long ACC login times (up to 10 seconds) when ACC is connected to a large (> 500 door) ACM systems. Optimizations are planned for ACC 6.10.

## Avigilon Control Center™ 6 Release Notes

Version 6.8.2.8 (continued)

### Avigilon™ Device FW Included

- V3.18.0.36 for Presence Detector
- V3.16.0.208 for H4 Mini Dome cameras
- V3.16.0.222 for H4 SL Bullet and Dome cameras
- V3.16.0.168 for H4 Pro H.264 cameras
- V3.16.0.216 for H.264 H3 cameras with self-learning analytics
- V3.22.0.36 for H4 Thermal cameras
- V3.20.0.50 for H4 IR PTZ cameras
- V3.16.0.172 for H4 Fisheye cameras
- V3.2.0.46 for H3 Multi-sensor cameras
- V3.16.0.202 for H4 PTZ cameras
- V3.24.2.52 for H4 Box Bullet Dome cameras with self-learning analytics
- V2.6.0.168 for H3 Micro Dome cameras
- V2.6.0.166 for H3 PTZ cameras
- V2.6.0.168 for H3 Bullet cameras
- V2.6.0.168 for H3 Box Dome cameras
- V2.2.0.60 for H.264 encoders
- V.2.2.0.58 for HD H.264 cameras

# Avigilon Control Center™ 6 Release Notes

Version 6.8.0.26 – Released February 13<sup>th</sup>, 2018

## Release Summary

This is the first release of Avigilon Control Center™ 6.8, introducing Unusual Motion Detection. This release also includes new features as described below, including security enhancements, support for new Mobile 3 Preview features and further support for native ACM interoperability with ACM inputs for rule triggers.

Any users who experience symptoms described within the fixed issues list should install this release.

Due to security improvements, ACC 6.8 cannot be downgraded to a previous version without deleting all configuration data. Customers are always recommended to back-up their ACC Site Settings before any upgrade.

ACC 6 is a paid major version upgrade for ACC 5 customers and requires upgrade license keys in order to use the software – customers with ACC 5 systems should contact their integrator partner or Avigilon sales representative for more information including upgrade pricing. Customers with ACC 5 systems that are not yet ready to upgrade to ACC 6 can continue to install ACC 5.10 service releases made available on the Avigilon website in order to pick up fixes for software defects.

Integration users may need to upgrade their integration software to a version supported by ACC 6. Please consult the website to determine which versions of your integrations are supported and available for ACC 6.

ACM must be upgraded to ACM 5.10.10 or later to support the latest ACM/ACC native interactions including panel inputs. As well, ACC-ACM integrations must be updated to “AvigilonAcmlIntegration-5.8.4.13” or newer to use the alarm gateway and VidProxy with ACC 6.8.

## New Features

- This release introduces Unusual Motion Detection, initially for H4A cameras. After changing the Video Analytics Mode to Unusual Motion from Classified Object in the camera general settings, users can choose to filter the timeline to show only unusual motion. Users can adjust the UMD filters to control how much video is highlighted, then scrub through as normal or use the new skip play feature to view filtered video continuously.

## Avigilon Control Center™ 6 Release Notes

### Version 6.8.0.26 (continued)

#### New Features (continued)

- Native interactions with ACM now includes panel input synchronization so that ACC rules can triggered on input activation/de-activation and input fault detected / cleared events.
- This release provides support for Mobile 3.2 and 3.4, including activation of digital outputs and viewing of classified object analytics bounding boxes on live and recorded event video.
- Video export files may now be encrypted when created. Users may choose to specify a password that will be required to open the export file. ACC Player software from previous releases will not be able to open these protected AVE files, but will still be able to open non-protected files. Password protected files can be searched as normal, but re-export, snapshot and event exports are disabled to prevent re-distribution of contents of the protected file.
- Privacy conscious users may now restrict operator access to recorded video by removing the 'View images recorded before login' privilege now granted by default when view recorded images is granted. This will allow an operator to access video recorded since the time of their login to ACC (which is recommended to be the start of their shift) but they will not be able to access video recorded before their login.
- Microsoft Active Directory users who are not able to manage group membership in Active Directory groups but still want to leverage their Active Directory for authentication purposes can now synchronize individual users instead of just groups. Synchronized users may be added or removed from ACC groups to assign privileges.
- In order to further support ONVIF standardization, the default connection type for cameras connected to ACC will now be ONVIF. Users may still override the connection type and select a native driver if required, but ONVIF will be the preferred camera connection. Upgrading customers will not have their camera connections changed, as this default only applies when connections are made.

#### Issues Fixed

- ACC now provides a more clear error message when users attempt to upgrade a system and provide un-necessary upgrade license keys. Note that users may use combinations of license keys in excess of what is required, as long as none of those keys would be entirely un-used.
- Corrected a problem that could disable rules configured for an Axis Door Station if the unit is rebooted.
- Resolved an issue with the automatic re-creation of the AvigilonData folder when it becomes corrupted and must be re-built.

## Avigilon Control Center™ 6 Release Notes

### Version 6.8.0.26 (continued)

#### Issues Fixed (continued)

- Corrected an issue that caused the bandwidth in Camera Setup > Compression and Image Rate to be incorrectly shown as 0 mbps.
- Corrected an issue that prevented users from selecting the all supported resolutions for image exports on pro series cameras.
- Corrected a problem that prevented some Axis PTZ cameras from properly moving to a pre-set.
- Resolved a problem that could cause ACC Client to crash when using Intel video display adapters.
- Resolved an issue where ACC mobile client initiated audio talk down events did not appear in the ACC site logs.
- Corrected a behaviour so that the operator cannot control the PTZ movement from the Pixel Motion Detection setup Tab.
- Corrected an issue that prevented users of a higher rank from properly disconnecting users of lower rank when attempting to login to a server that had the maximum number of clients connected.
- Resolved an issue that caused ACC Client to be stuck in an error state requiring forced shutdown when microphone settings were applied to the secondary (failover) camera connection.
- Resolved an issue where the communications link between an ACM appliance and a linked ACC site times-out when there is large time gap between ACM events as can happen overnight. As a result, ACC was unable to retrieve the list of ACM user groups, users were unable to login to ACC, and the door grant button disappeared from the ACC client.
- Resolved an issue that incorrectly allowed users to protect bookmarks that span more than one day.
- Resolved an issue that could cause ACC Client to become unresponsive when performing bulk operations on large numbers of cameras such as selecting them for archive.
- Corrected a behaviour where a PTZ camera would continue to pan even if the view panel focus changed to different camera.
- Resolved an issue where continuous archive would prematurely pause if the current time exactly matched the end of the permitted time range and instead would wait for the start of the permitted time range.
- Corrected an issue where the selected Region of Interest (ROI) for an LPR lane was not always be saved correctly.

## Avigilon Control Center™ 6 Release Notes

### Version 6.8.0.26 (continued)

#### Issues Fixed (continued)

- Resolved an issue that could cause H4 Pro cameras to not stream correctly to ACC when speakers and microphones are configured when a resolution other than the default is selected.
- Enhanced detection and logging of when an archive storage volume becomes unavailable for manual and continuous archiving.
- Corrected an issue that could cause the configuration of Storage Management (continuous archive) to become stuck with a popup dialog that would not exit.
- Resolved an issue that could prevent the status of child sites in a site family being correctly updated and shown in Site Health.
- Corrected an issue that made several dialogs in ACC Client unusable if camera channel names were more than 60 characters long.
- Improved error and warning messages for manual and continuous archive operations.
- Corrected an issue with auto-layout mode on ACC Client and ACC Player which could cause pan and zoom changes when interacting with the timeline.
- Resolved an issue with ACM door grants incorrectly succeeding on elevator doors. ACM/ACC native interactions do not currently support granting access to elevator doors.
- Corrected a defect in ACC client that could cause the application to crash when moving back and forth among view tabs which contain large numbers of cameras.
- Improved playback of non-continuously recorded video when playing back at lower or higher than normal (1x) speed.
- Corrected an issue that prevented ACC from applying image and display settings for each head on an Avigilon multi-head camera when "Synchronize Image Settings with All Heads" option was selected.
- Corrected a defect in handling UNC paths containing non-alphanumeric characters such as period (".") in several areas of the product, including archive directory specification.
- Corrected an issue that was causing the ACC Player to incorrectly use the local time zone (of the PC running the Player software) for the Appearance Search results graph, rather than the time zone of the server that created the export or archive.
- Ensured that the Appearance Search results graph in ACC Client correctly reflects a new time zone setting after it is changed on the local PC.
- Corrected an issue that could prevent an H4ES camera from mounting a remote file system for continuous or manual archives.
- Corrected an issue that could cause manual and continuous archives to be only partially written with a missing .AVK file.
- Dutch is available again in Western Europe Language Packs

## Avigilon Control Center™ 6 Release Notes

Version 6.8.0.26 (continued)

### Known issues in this release

- Users may not be able to deactivate any Product Keys after removing their LPR dongle and restarting the server. The workaround is to reattach the LPR dongle and restart the server.
- Issue introduced in ACC 6.6.0 where Oncam camera de-warping does not work consistently. Workarounds include not using this camera in a symmetric (e.g.: 2x2 and 3x3) view, or ensuring the low resolution stream is enabled. This issue will be corrected in ACC 6.8 SR1.
- Under some conditions, continuous archive may successfully write video files but not the archive index (AVK) file, and not generate an error, which makes the archived video inaccessible. Using a mapped drive instead of a network path for the archive location is a known workaround. Customers that encounter this issue should contact technical support to rebuild their index files. ACC 6.8 SR1 will ensure that an error is produced if the AVK file is not successfully written.
- With the addition of inputs in ACC, operators with ACM privileges (door grants for example) may experience long ACC login times (up to 10 seconds) when ACC is connected to a large (> 500 door) ACM systems. Optimizations are planned for ACC 6.10.

## Avigilon Control Center™ 6 Release Notes

Version 6.8.0.26 (continued)

### Avigilon™ Device FW Included

- V3.18.0.36 for Presence Detector
- V3.16.0.208 for H4 Mini Dome cameras
- V3.16.0.222 for H4 SL Bullet and Dome cameras
- V3.16.0.168 for H4 Pro H.264 cameras
- V3.16.0.216 for H.264 H3 cameras with self-learning analytics
- V3.22.0.36 for H4 Thermal cameras
- V3.20.0.34 for H4 IR PTZ cameras
- V3.16.0.172 for H4 Fisheye cameras
- V3.2.0.46 for H3 Multi-sensor cameras
- V3.16.0.202 for H4 PTZ cameras
- V3.24.2.48 for H4 Box Bullet Dome cameras with self-learning analytics
- V2.6.0.168 for H3 Micro Dome cameras
- V2.6.0.166 for H3 PTZ cameras
- V2.6.0.168 for H3 Bullet cameras
- V2.6.0.168 for H3 Box Dome cameras
- V2.2.0.60 for H.264 encoders
- V.2.2.0.58 for HD H.264 cameras

## Avigilon Control Center™ 6 Release Notes

Version 6.6.4.6 – Released January 24<sup>th</sup>, 2018

### Release Summary

This is a service release of Avigilon Control Center™ 6.6. This release corrects a critical issue for users of the ACM-ACC door events integration and provides a fix for loss of intersystem communications which requires an upgrade of ACC. Each service release improves system security and stability, as such, we recommend all users upgrade to the most recent version.

ACC 6 is a paid major version upgrade for ACC 5 customers and requires upgrade license keys in order to use the software – customers with ACC 5 systems should contact their integrator partner or Avigilon sales representative for more information including upgrade pricing. Customers with ACC 5 systems that are not yet ready to upgrade to ACC 6 can continue to install ACC 5.10 service releases made available on the Avigilon website in order to pick up fixes for software defects.

Integration users may need to upgrade their integration software to a version supported by ACC 6. Please consult the website to determine which versions of your integrations are supported and available for ACC 6.

Note – ACM must be upgrade to ACM 5.10.8 or later for use with ACC 6.6 and communicate ACM door events between the systems. As well, ACC-ACM integrations must be updated to “AvigilonAcmlIntegration-5.8.4.13” or newer to use the alarm gateway and VidProxy with ACC 6.6.

### Issues Fixed

- Resolved an issue where the communications link between an ACM appliance and a linked ACC site timeouts when there is large time gap between ACM events as can happen overnight. As a result, ACC was unable to retrieve the list of ACM user groups, users were unable to login to ACC, and the door grant button disappeared from the ACC client.
- Resolved an issue introduced in ACC 6.4 where you see momentary images during recorded video playback if video for a camera has been recorded to a failover server. The recording timeline will show gaps where the video is recorded on the failover server but you should see fluid video in the gaps from the failover server.
- Fixed an issue where only a single speaker could be associated with a camera. Any attempt to link a second speaker, like an IP network speaker, would fail.
- Corrected a behaviour where the user might receive a message 'User does not have sufficient permissions to modify the item' when changing the gain value in the camera image and display setup dialog.

## Avigilon Control Center™ 6 Release Notes

### Version 6.6.4.6 (continued)

#### Known issues in this release

- Language Packs are missing support for Dutch. Users can download and install the ACC 6.4 Western Europe language pack from the Avigilon Website as workaround until this issue is resolved.
- The bandwidth in Camera Setup > Compression and Image Rate may be incorrectly shown as 0mbps. This will be addressed in an upcoming ACC 6 service release.
- Users may not be able to deactivate any Product Keys after removing their LPR dongle and restarting the server. The workaround is to reattach the LPR dongle and restart the server.

#### Avigilon™ Device FW Included

- V3.18.0.26 for Presence Detector
- V3.16.0.208 for H4 Mini Dome cameras
- V3.16.0.222 for H4 SL Bullet and Dome cameras
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- V3.16.0.216 for H.264 H3 cameras with self-learning analytics
- V3.22.0.32 for H4 Thermal cameras
- V3.20.0.34 for H4 IR PTZ cameras
- V3.16.0.172 for H4 Fisheye cameras
- V3.2.0.46 for H3 Multi-sensor cameras
- V3.16.0.202 for H4 PTZ cameras
- V3.18.2.34 for H4 Box Bullet Dome cameras with self-learning analytics
- V2.6.0.168 for H3 Micro Dome cameras
- V2.6.0.166 for H3 PTZ cameras
- V2.6.0.168 for H3 Bullet cameras
- V2.6.0.168 for H3 Box Dome cameras
- V2.2.0.60 for H.264 encoders
- V.2.2.0.58 for HD H.264 cameras

## Avigilon Control Center™ 6 Release Notes

Version 6.6.2.4 – Released December 5<sup>th</sup>, 2017

### Release Summary

This is a service release of Avigilon Control Center™ 6.6. It adds support for the Avigilon H4 IR PTZ camera and Avigilon H4 Thermal camera. Any users who experience symptoms described within the fixed issues list should install this service release. Each service release improves system security and stability, as such, we recommend all users upgrade to the most recent version.

ACC 6 is a paid major version upgrade for ACC 5 customers and requires upgrade license keys in order to use the software – customers with ACC 5 systems should contact their integrator partner or Avigilon sales representative for more information including upgrade pricing. Customers with ACC 5 systems that are not yet ready to upgrade to ACC 6 can continue to install ACC 5.10 service releases made available on the Avigilon website in order to pick up fixes for software defects.

Integration users may need to upgrade their integration software to a version supported by ACC 6. Please consult the website to determine which versions of your integrations are supported and available for ACC 6.

Note – ACM must be upgrade to ACM 5.10.8 or later for use with ACC 6.6 and communicate ACM door events between the systems. As well, ACC-ACM integrations must be updated to “AvigilonAcmlIntegration-5.8.4.13” or newer to use the alarm gateway and VidProxy with ACC 6.6.

### New Features

- Introduces support for the Avigilon H4 IR PTZ camera. The Avigilon H4 IR PTZ supports analytic event detection in the user defined home position. ACC offers the same analytic configuration options common to other H4 cameras with self-learning analytics. ACC introduces a new button in the ACC view panel that dynamically selects between the day/night settings of the camera and controls the IR illuminators for optimal viewing during dusk or marginal conditions. The camera’s wash and wipers functions can be trigger using AUX commands when configured in ACC.
- Introduces support for the Avigilon H4 Thermal camera which combines thermal imaging with self-learning video analytics. ACC supports configuration of the thermal image color palette along with analytic event configuration options common to other H4 camera.

## Avigilon Control Center™ 6 Release Notes

### Version 6.6.2.4 (continued)

#### Issues Fixed

- Corrected a security issue in the ACC SDK where authenticated SDK clients might receive system events for which they do not have explicit permissions to receive.
- Fixed an issue where depending on the camera video streaming bandwidth and the recording server load, more than last 60 seconds of recording would be lost if the server power failed.
- Corrected an issue which prevented reuse of a logical ID for a replacement camera even after the original camera has been logically disconnected using the ACC connect/disconnect camera dialog.
- Fixed an issue where the ACC Client memory usage would increase over time when associating with an ACC Server connected to many PTZ cameras.
- Improved responsiveness of PTZ camera movements to physical joystick pan-tilt-zoom commands.
- Corrected an issue for ACM appliances that are part of an ACC site where a failure in the ACM event delivery service was not detected and logged in the ACC site logs.
- Resolved an issue where panning is disabled for H4F Fisheye cameras after zooming the camera view in ACC Mobile 2.x and ACC HTML5 Web Client.
- Resolved an issue where users may be unable to press the 'apply' button when updating general camera settings.
- Corrected an issue where even though the settings are correct on the camera, ACC was not displaying the new settings on every head of an Avigilon multi-head camera after updating the Image and Display settings using the "Synchronize Images settings with all heads option".
- Resolved an issue for the ACC Image and Display Settings dialog where the Gain combo box presented blank values for certain ONVIF cameras
- Corrected a behavior where an ACC rule would trigger unexpectedly on a digital input even if the rule condition was disabled by a second digital input.
- Fixed an issue where the digital output button in the View panel is missing after the ACC client workstation has gone to sleep and is woken up.
- Fixed an issue for H4ES Cameras where when clustered with an ACC ES recorder they incorrectly generate "One or more sites not licensed" warnings.
- Corrected an issue for systems that have been upgraded from ACC 5 to ACC 6, where ACC would not add the Appearance Search ACC analytics service events to the ACC default rule to trigger an on-screen message when the service experiences an error.

## Avigilon Control Center™ 6 Release Notes

### Version 6.6.2.4 (continued)

#### Issues Fixed (cont.)

- Fixed a rendering issue which partially cut off the LPR watch list buttons in ACC client.
- Created a new LPR MSR template to correct an issue reading license plates from Ireland starting with 3 digits.
- Corrected an issue where users were experiencing connection problems with ACTi E37 cameras using ONVIF after upgrading from ACC 5.x to ACC 6.x.
- Fixed an issue where an Axis C-3003 Network Horn would incorrectly consume a camera license. If all the camera licenses were in use, the connecting the IP speaker would result in ACC reporting a licensing error.
- Addressed an issue with choppy audio in AVI exports from Bosch Flexidome IP Starlight camera recordings.

#### Known issues in this release

- Language Packs are missing support for Dutch. Users can download and install the ACC 6.4 Western Europe language pack from the Avigilon Website as workaround until this issue is resolved.
- The bandwidth in Camera Setup > Compression and Image Rate may be incorrectly shown as 0mbps. This will be addressed an upcoming ACC 6 service release.
- Users may not be able to deactivate any Product Keys after removing their LPR dongle and restarting the server. The workaround is to reattach the LPR dongle and restart the server.
- Under certain network conditions, the communications link between an ACM appliance and the ACC site will timeout. As a result, ACC is unable to retrieve the list of ACM user groups, users are unable to login to ACC, and the door grant button disappears from the ACC client. The workaround is to disconnect and reconnect the ACM appliance from the ACC setup dialog.

## Avigilon Control Center™ 6 Release Notes

### Version 6.6.2.4 (continued)

#### Avigilon™ Device FW Included

- V3.18.0.26 for Presence Detector
- V3.16.0.208 for H4 Mini Dome cameras
- V3.16.0.222 for H4 SL Bullet and Dome cameras
- V3.16.0.168 for H4 Pro H.264 cameras
- V3.16.0.216 for H.264 H3 cameras with self-learning analytics
- V3.20.0.30 for H4 IR PTZ cameras
- V3.16.0.172 for H4 Fisheye cameras
- V3.2.0.44 for H3 Multi-sensor cameras
- V3.16.0.202 for H4 PTZ cameras
- V3.16.2.218 for H4 Box Bullet Dome cameras with self-learning analytics
- V2.6.0.160 for H3 Micro Dome cameras
- V2.6.0.166 for H3 PTZ cameras
- V2.6.0.160 for H3 Bullet cameras
- V2.6.0.160 for H3 Box Dome cameras
- V2.2.0.52 for H.264 encoders
- V.2.2.0.58 for HD H.264 cameras

## Avigilon Control Center™ 6 Release Notes

Version 6.6.0.22 – Released November 7<sup>th</sup>, 2017

### Release Summary

This is the first release of Avigilon Control Center™ 6.6. This release introduces new ACC capabilities described below including Avigilon Appearance Search™ technology enhanced with face detections, ACC Tiered Storage and ACM door grants from the ACC client. Due to a critical vulnerability in the ACC gateway fixed in this release, we recommend all users upgrade to this version. Any users who experience symptoms described within the fixed issues list should install this service release.

ACC 6 is a paid major version upgrade for ACC 5 customers and requires upgrade license keys in order to use the software – customers with ACC 5 systems should contact their integrator partner or Avigilon sales representative for more information including upgrade pricing. Customers with ACC 5 systems that are not yet ready to upgrade to ACC 6 can continue to install ACC 5.10 service releases made available on the Avigilon website in order to pick up fixes for software defects.

Integration users may need to upgrade their integration software to a version supported by ACC 6. Please consult the website to determine which versions of your integrations are supported and available for ACC 6.

Note – ACM must be upgrade to ACM 5.10.8 or later for use with ACC 6.6 and communicate ACM door events between the systems. As well, ACC-ACM integrations must be updated to “AvigilonAcmlIntegration-5.8.4.13” or newer to use the alarm gateway and VidProxy with ACC 6.6.

### New Features

- Avigilon Appearance Search now includes face detection to enhance the accuracy of the search results to find a person of interest. After enabling Avigilon Appearance Search on ACC analytic cameras, new firmware for H4A and H3A cameras included in this release will now detect faces in a scene. Other analytic cameras will be updated at a later date. Appearance Search will compare characteristics of the face and body elements to return results of other similar looking individuals. This feature improves search results over a wider search period particularly where the person adds or removes clothing.
- Native interactions with Avigilon’s Access Control Manager (ACM) system enables ACC to link cameras with doors configured in ACM and receive related ACM door events. This release extends this capability and ACC operators can now trigger door grants to open doors from the ACC client. The operator is allowed to initiate the grant based on a privilege shared from their ACM user profile. Operator profiles can be shared between

## Avigilon Control Center™ 6 Release Notes

systems, and when configured, ACC will use ACM and ACM's integration to LDAP to authenticate user login requests.

### Version 6.6.0.22 (continued)

#### New Features (cont.)

- This release introduces ACC storage management with support for tiered storage and continuous archiving. Tiered storage supports the server tier which consists of the direct attached storage on the server, and an archive tier that can be targeted at network drives, storage servers or direct attached storage. Both tiers can be seamlessly accessed from the ACC client and allows the operator to view and scrub recordings from either tier. Continue archiving provides the capability to incrementally copy recordings from the server tier to the archive tier around the clock. The archive tier uses a standard windows file system which can be managed using existing IT storage policies.
- Enhances Avigilon Presence Detector event handling and adds support of basic presence events in addition to existing dwell events for use in ACC rules. Operators are now able use the ACC event search to find past instances of presence and dwell events and recall video from linked camera recordings.
- Enhances enforcement of privacy policies by introducing ACC client usage auditing records. ACC will log any operator access to live and recorded video indicating the username, client device used, cameras viewed and the start and end times of video viewed. Logs are created for activity on the ACC client, ACC mobile, VMA and collaborations.
- ACC administrators can now require dual authentication to allow viewing of recordings and enhance privacy. Users can be required to seek secondary login by a supervisor or authorized user before recorded video can be accessed.
- New password strength criteria enhances ACC cybersecurity protection. Administrators have a choice to enforce a minimum password strength for user groups. ACC provides users with visual feedback about password strength when creating their new passwords.
- ACC Site Health report has been enhanced to display a License ID which can provided to Avigilon customer support to lookup license keys. The Site Health now displays the license counts for factory installed licenses on HDVAs, ES Recorder and ES Analytics Appliance devices.
- Arbitrary Events across the ONVIF interface could only be used with a specific set of manufacturer's (or generic ONVIF) namespace. They can now be used with any manufacturer's namespace.

## Avigilon Control Center™ 6 Release Notes

### Version 6.6.0.22 (continued)

#### New Features (cont.)

- With this release, User Guides and in-client help are no longer available for the following languages: Danish (DA), Swedish (SV), Polish (PL), Korean (KO), Russian (RU), Portuguese (PT-BR), Simplified and Traditional Chinese (ZHS, ZHT). The ACC client interface will continue to be presented in these languages, but when the user requests in application help, it will be presented in the English language. If desired, users of these local languages can download and install ACC 6.4 user guides and client language packs from the Avigilon website.

#### Issues Fixed

- Fixed a critical vulnerability allowing remote attackers to potentially retrieve some files on the ACC server. It is recommended that users of the ACC Gateway and / or ACC HTML5 Web Client upgrade to the most recent ACC gateway.
- Enhanced security for ACC sites using Active Directory user login credentials
- Removed confusing time zone option from ACC Player client since video timestamp is always presented based on the device's time zone
- Fixed a memory leak in the ACC Client that could occur when cycling views and results in poor client performance
- Fixes an issue for where non-administrative users would see a blank list instead of a message that there are no more login sessions available
- Corrected a behaviour, where regardless of Motion activity checkbox setting in global client options dialog, the pixel motion overlay is always present in the motion search dialog. There is now a toggle button in motion search dialog.
- Resolved an issue where the camera image would flip between round and dewarped view while panning around in the camera field of view
- Corrected a behaviour where the camera time was required to be synchronized to server time in order to connect via ONVIF
- Resolved an issue where ACC would not display the camera location specified in the device configuration dialog when Sony SNC-DH160 cameras are connected to ACC using their native driver.
- Resolved an issue where exporting video from ACC player would indicate that it had exported an order of magnitude more frames than was expected. Under some conditions the resulting video would stutter during playback.
- Addressed an issue where in certain scenarios, audio from an operator Push-to-talk action would not be recorded with the video.

## Avigilon Control Center™ 6 Release Notes

### Version 6.6.0.22 (continued)

#### Issues Fixed (cont.)

- Corrected an issue that could cause cameras to be intermittently shown in license error on ES appliances.
- Corrected an issue where the analytics settings for ACC ES Analytics Appliances reported an inaccurate load for linked cameras using JPEG or MPEG4 streaming
- Fixed an issue where any analytic rule with a delay threshold would trip immediately when defined on an Avigilon ES Analytic Appliance
- Corrected a problem where tampering events were not aged out properly with the associated video.
- Corrected an issue where digital input and output (links) settings would sometimes not get saved correctly
- Fixed an issue preventing the removal of a POS data source that was no longer connected or reachable.
- Corrected an issue causing blank lines on the timeline during alarm and POS searches
- Resolved an issue for certain Windows server platforms where ACC server and ACC gateway incorrectly required the "lanmanserver" service to start.
- Corrected issues with alarm escalation in ACC mobile 3.0 preview app.
- Ensured that the ACC Web Endpoint will return the appropriate error code to a client (such as the ACC Mobile 3 Preview app) when the video is an unsupported streaming format.
- Fixed a defect which caused bookmark times written to a file (from a bookmark search) to be in UTC rather than in local time.
- Corrected an issue causing a client crash when attempting to export search results to an already open file.
- Improved responsiveness of auto-contrast adjustments during digital pan and zoom through a scene with high dynamic range.
- Corrected the labelling on the Compression and Image Rate dialog. The estimate of the total bandwidth used by the camera with the current camera settings is now labelled 'Total Camera Bandwidth' instead of simply saying 'Bandwidth'. It provides the total bandwidth for all streams from the camera.
- Removed the display of the current image EV level from ACC for H4 PTZ since the camera does not provide the real-time value. The view panel now says 'unsupported' and the image and display settings panel only shows the relative low-high position of the day/night threshold slider.

## Avigilon Control Center™ 6 Release Notes

### Version 6.6.0.22 (continued)

#### Issues Fixed (cont.)

- Fixed an issue where some device setting changes wouldn't be captured correctly in the site logs
- Fixed an issue where parts of the text in the Avigilon Presence Detector (APD) device setup screen appeared cut off when the Client was using certain non-English language settings
- Ensured that the precision for an APD device's dwell time setting is aligned between ACC and the device's WebUI
- Corrected an issue where the device name for an APD device was missing in the site logs
- Corrected an issue where extra blank space could appear below the timeline when modifying a view from one that contained more cameras to one that contained fewer cameras
- Fixed an issue where users (with group permission to create archives) could create a manual archive after it was disabled on a particular server.
- Fixed an issue where excessive log entries could be created when the ACC Analytics Service was shut down

#### Known issues in this release

- Language Packs are missing support for Dutch. Users can download and install the ACC 6.4 Western Europe language pack from the Avigilon Website as workaround until this issue is resolved.
- ACC Client memory usage will increase over time when associating with an ACC Server connected to many PTZ cameras. If ACC client appear to be sluggish when switching between camera views, the workaround is to restart the ACC client.
- After zooming the camera view in ACC Mobile 2.x or ACC WebClient, panning is disabled for H4F Fisheye cameras. Workaround is to reopen the camera view and pan before zooming
- Axis C-3003 Network Horn incorrectly reports a licensing error is all camera licenses are consumed. Will be addressed an upcoming ACC 6 service release.
- H4ES Camera users may experience incorrect "One or more sites not licensed" warnings. Will be addressed in an upcoming ACC 6 service release.
- The bandwidth in Camera Setup > Compression and Image Rate may be incorrectly shown as 0mbps. Will be addressed an upcoming ACC 6 service release.
- Customers may not be able to re-use a Logical ID for a replacement camera. Will be addressed in an upcoming ACC 6 service release.

## Avigilon Control Center™ 6 Release Notes

### Version 6.6.0.22 (continued)

#### Known issues in this release (cont.)

- Users may find the digital output button is missing after their workstation has gone to sleep and then woken up. Will be addressed in an upcoming ACC 6 service release.
- After updating the Image and Display settings using the "Synchronize Images settings with all heads option" with an Avigilon multi-head camera, ACC does not display the new setting on every head even though the settings are correct on the camera. Workaround is to apply another setting change on any camera head using "Apply to Devices..." Will be addressed in an upcoming ACC 6 service release.

#### Avigilon™ Device FW Included

- V3.18.0.26 for Presence Detector
- V3.16.0.208 for H4 Mini Dome cameras
- V3.16.0.208 for H4 SL Bullet and Dome cameras
- V3.16.0.168 for H4 Pro H.264 cameras
- V3.16.0.216 for H.264 H3 cameras with self-learning analytics
- V3.16.0.172 for H4 Fisheye cameras
- V3.2.0.44 for H3 Multi-sensor cameras
- V3.16.0.202 for H4 PTZ cameras
- V3.16.2.218 for H4 Box Bullet Dome cameras with self-learning analytics
- V2.6.0.160 for H3 Micro Dome cameras
- V2.6.0.166 for H3 PTZ cameras
- V2.6.0.160 for H3 Bullet cameras
- V2.6.0.160 for H3 Box Dome cameras
- V2.2.0.52 for H.264 encoders
- V.2.2.0.58 for HD H.264 cameras

## Avigilon Control Center™ 6 Release Notes

Version 6.4.4.2 – Released August 31<sup>st</sup>, 2017

### Release Summary

This is a service release of Avigilon Control Center™ 6.4. It adds support for Avigilon Presence Detector devices. Users of ONVIF cameras who experience stalling video, as well as users with a large number of cameras who experience system instability as described below should install this service release due to the corrected issue listed below.

ACC 6 is a paid major version upgrade for ACC 5 customers and requires upgrade license keys in order to use the software – customers with ACC 5 systems should contact their integrator partner or Avigilon sales representative for more information including upgrade pricing. Customers with ACC 5 systems that are not yet ready to upgrade to ACC 6 can continue to install ACC 5.10 service releases made available on the Avigilon website in order to pick up fixes for software defects.

Integration users may need to upgrade their integration software to a version supported by ACC 6. Please consult the website to determine which versions of your integrations are supported and available for ACC 6.

Note – ACC-ACM integrations must be updated to “AvigilonAcmlIntegration-5.8.4.12\_SR1” or newer for use with ACC 6.

### New Features

- Introduces support for the new Avigilon Presence Detector. The Avigilon Presence Detector can detect human presence and heartbeats with or without movement to generate events that can be used to trigger ACC rules designed to notify Central Stations, email users, display a specific camera, trigger alarms or other rule actions. Sites must be on ACC 6.4.4.x or newer to be compatible with this detection device.

### Issues Fixed

- Addressed a performance issue relating to aging of video for sites with a large number of cameras (>100), large number of protected bookmarks and motion events. These large video databases would experience spikes in memory utilization and system crashes in some cases when ACC aged data.
- Resolved an issue where after a temporary disk unavailability such as after a server restart, recordings on the secondary volume in the system do not age and are not removed.
- Resolved an issue where ACC would crash if a linked ACM instance is reinstalled in certain ACM configurations.

## Avigilon Control Center™ 6 Release Notes

### Version 6.4.4.2 (continued)

#### Issues Fixed (cont.)

- Resolved an issue where Central Monitoring Station notifications did not include requested video or image attachments for loitering rule events with a time threshold greater than 15 seconds.
- Addressed an issue which caused ACC to crash after triggering an ACC Rule to send a notification to a Central Monitoring Station with an image or video clip from a JPEG2000 camera.
- Resolved an issue introduced in ACC 6.4 where analytic settings would not be propagated to Rialto devices when the user clicked Apply / OK.
- Corrected an issue where two tamper events were reported by ES Analytic Appliance for each tamper event generated by a camera.
- Corrected a behaviour where Oncam Grandeye cameras images were incorrectly presented as an oval shape.
- Resolved an issue where live video from ONVIF cameras would stall momentarily when viewing video after resizing the view panel.
- Resolved an issue where the ACC Player would crash when requested to authenticate an ACC .AVE export file.
- Addressed an issue where the ACC 6.4 Player does not present a take a snapshot option when hovering over a view panel.
- Resolved a behaviour where the Edit User dialog would appear when clicking on the scroll bar after highlighting a user account.
- Fixed an issue where users are unable to open the settings page even though they were able to in the past.
- Resolved an issue introduced in ACC 6.4.2.10 where the default administrator could not change Logical ID of camera due to permissions.
- Resolved a behaviour introduced in ACC 6.0.0.24, where the thumbnail results for a Thumbnail Search won't load until all results are available rather than loading sequentially as they did previously. This is most noticeable for Clients connected over a remote connection.
- Resolved a display issue with certain labels when operating with Danish language or Italian language.

#### Known issues in this release

- None.

## Avigilon Control Center™ 6 Release Notes

### Version 6.4.4.2 (continued)

#### Avigilon™ Camera FW Included

- V3.16.0.194 for H4 Mini Dome cameras
- V3.16.0.194 for H4 SL Bullet and Dome cameras
- V3.16.0.168 for H4 Pro H.264 cameras
- V3.16.0.178 for H.264 H3 cameras with self-learning analytics
- V3.16.0.172 for H4 Fisheye cameras
- V3.2.0.44 for H3 Multisensor cameras
- V3.16.0.170 for H4 PTZ cameras
- V3.16.2.178 for H4 Box Bullet Dome cameras with self-learning analytics
- V2.6.0.160 for H3 Micro Dome cameras
- V2.6.0.158 for H3 PTZ cameras
- V2.6.0.160 for H3 Bullet cameras
- V2.6.0.160 for H3 Box Dome cameras
- V2.2.0.52 for H.264 encoders
- V.2.2.0.58 for HD H.264 cameras

## Avigilon Control Center™ 6 Release Notes

Version 6.4.2.10 – Released August 10<sup>th</sup>, 2017

### Release Summary

This is a service release of Avigilon Control Center™ 6.4. It adds support for Axis A8004-VE and A8105-E Door Station devices as well as corrects an issue with Central Station Notifications.

ACC 6 is a paid major version upgrade for ACC 5 customers and requires upgrade license keys in order to use the software – customers with ACC 5 systems should contact their integrator partner or Avigilon sales representative for more information including upgrade pricing. Customers with ACC 5 systems that are not yet ready to upgrade to ACC 6 can continue to install ACC 5.10 service releases made available on the Avigilon website in order to pick up fixes for software defects.

Integration users may need to upgrade their integration software to a version supported by ACC 6. Please consult the website to determine which versions of your integrations are supported and available for ACC 6.

Note – ACC-ACM integrations must be updated to “AvigilonAcmlIntegration-5.8.4.12\_SR1” or newer for use with ACC 6.

### New Features

- Axis A8004-VE and A8105-E Door Station devices can now be used with ACC. This includes the ability to view and record video, setup motion events, use two-way audio, and use the digital inputs/outputs.

### Issues Fixed

- Fixed an issue where Central Station Notifications, which are sent using SMTP, did not have both CR (carriage return) and LF (line feed) characters in the message header as required.

### Known issues in this release (unchanged from the previous release)

- Due to a regression introduced in ACC 6.0.0.24, the thumbnail results for a Thumbnail Search won't load until all results are available rather than loading sequentially as they did previously. This is most noticeable for Clients connected over a remote connection.

## Avigilon Control Center™ 6 Release Notes

Version 6.4.2.10 (continued)

### Avigilon™ Camera FW Included

- V3.16.0.186 for H4 Mini Dome cameras
- V3.16.0.186 for H4 SL Bullet and Dome cameras
- V3.16.0.168 for H4 Pro H.264 cameras
- V3.16.0.178 for H.264 H3 cameras with self-learning analytics
- V3.16.0.172 for H4 Fisheye cameras
- V3.2.0.44 for H3 Multisensor cameras
- V3.16.0.170 for H4 PTZ cameras
- V3.16.2.178 for H4 Box Bullet Dome cameras with self-learning analytics
- V2.6.0.160 for H3 Micro Dome cameras
- V2.6.0.158 for H3 PTZ cameras
- V2.6.0.160 for H3 Bullet cameras
- V2.6.0.160 for H3 Box Dome cameras
- V2.2.0.52 for H.264 encoders
- V.2.2.0.58 for HD H.264 cameras
- V4.6.0.14 for JPEG2000 HD Pro cameras
- V4.4.0.2 for JPEG2000 Panoramic cameras

## Avigilon Control Center™ 6 Release Notes

Version 6.4.0.18 – Released July 20<sup>th</sup>, 2017

### Release Summary

This is a service release of Avigilon Control Center™ 6.4 that corrects an issue with the installers. Users that downloaded the previous release, ACC 6.4.0.16, and attempted to install it on a computer that didn't already have Microsoft .NET 4.6.2 installed will have been unsuccessful. The installers provided with this new release address this issue. We recommend that all users upgrade to ACC 6.4 in order to address critical vulnerability CVE-2017-9765, a SOAP web services interface defect, which was corrected in ACC 6.4.0.16. Please see the previous release notes, below, for additional details.

ACC 6 is a paid major version upgrade for ACC 5 customers and requires upgrade license keys in order to use the software – customers with ACC 5 systems should contact their integrator partner or Avigilon sales representative for more information including upgrade pricing. Customers with ACC 5 systems that are not yet ready to upgrade to ACC 6 can continue to install ACC 5.10 service releases made available on the Avigilon website in order to pick up fixes for software defects.

Integration users may need to upgrade their integration software to a version supported by ACC 6. Please consult the website to determine which versions of your integrations are supported and available for ACC 6.

Note – ACC-ACM integrations must be updated to “AvigilonAcmlIntegration-5.8.4.12\_SR1” or newer for use with ACC 6.

### Issues Fixed

- Corrected an issue where the necessary Microsoft .NET Framework version was not included with the ACC 6.4.0.16 installers. This prevented ACC from being installed successfully on computers that didn't already have .NET 4.6.2 installed.

### Known issues in this release (unchanged from the previous release)

- Due to a regression introduced in ACC 6.0.0.24, the thumbnail results for a Thumbnail Search won't load until all results are available rather than loading sequentially as they did previously. This is most noticeable for Clients connected over a remote connection.

## Avigilon Control Center™ 6 Release Notes

Version 6.4.0.18 (continued)

### Avigilon™ Camera FW Included

- V3.16.0.176 for H4 Mini Dome cameras
- V3.16.0.174 for H4 SL Bullet and Dome cameras
- V3.16.0.168 for H4 Pro H.264 cameras
- V3.16.0.178 for H.264 H3 cameras with self-learning analytics
- V3.16.0.172 for H4 Fisheye cameras
- V3.2.0.44 for H3 Multisensor cameras
- V3.16.0.170 for H4 PTZ cameras
- V3.16.2.178 for H4 Box Bullet Dome cameras with self-learning analytics
- V2.6.0.160 for H3 Micro Dome cameras
- V2.6.0.158 for H3 PTZ cameras
- V2.6.0.160 for H3 Bullet cameras
- V2.6.0.160 for H3 Box Dome cameras
- V2.2.0.52 for H.264 encoders
- V.2.2.0.58 for HD H.264 cameras
- V4.6.0.14 for JPEG2000 HD Pro cameras
- V4.4.0.2 for JPEG2000 Panoramic cameras

## Avigilon Control Center™ 6 Release Notes

Version 6.4.0.16 – Released July 12<sup>th</sup>, 2017

### Release Summary

This is the first release of Avigilon Control Center™ 6.4. This release introduces new ACC capabilities described below including flexible dual HSDM streaming for Avigilon cameras and dual streaming from ONVIF cameras. This release addresses critical vulnerability CVE-2017-9765, a SOAP web services interface defect. While the risk for Avigilon products installed behind a firewall or isolated network is limited we strongly recommend all users to update to this release.

ACC 6 is a paid major version upgrade for ACC 5 customers and requires upgrade license keys in order to use the software – customers with ACC 5 systems should contact their integrator partner or Avigilon sales representative for more information including upgrade pricing. Customers with ACC 5 systems that are not yet ready to upgrade to ACC 6 can continue to install ACC 5.10 service releases made available on the Avigilon website in order to pick up fixes for software defects. (Specifically, CVE-2017-9765 is addressed by ACC 5.10.14.2.)

Integration users may need to upgrade their integration software to a version supported by ACC 6. Please consult the website to determine which versions of your integrations are supported and available for ACC 6.

Note – ACC-ACM integrations must be updated to “AvigilonAcmlIntegration-5.8.4.12\_SR1” or newer for use with ACC 6.

### New Features

- ACC can now be configured to connect to Avigilon Access Control Manager (ACM) and receive native ACM door events. ACM doors can be logically linked to any camera on ACC and enable ACC rules to start live streaming of video, send notifications, or take other ACC rule actions. All ACM door events are auditable in the ACC site logs. Minimally requires ACM Release 5.10.2 and ACC Standard or Enterprise edition to manage rules for door events. This new functionality can be used standalone or in parallel with the existing ACC-ACM integration for Vid-Proxy and access control platform events.
- ACC introduces support for flexible dual HSDM streaming which permits independently configuring primary and secondary streams while preserving HSDM bandwidth optimization for live streaming and recorded video playback. Both primary and secondary streams are still recorded and ACC manages the aging of the primary video from storage. This new ‘HSDM flexible’ recording profile is available when configuring video streams for Avigilon H4 1MP, 2MP and 3MP cameras.

## Avigilon Control Center™ 6 Release Notes

Version 6.4.0.16 (continued)

### New Features (cont.)

- ACC now supports dual streaming from ONVIF compliant cameras that advertise multiple video streams. Live video will automatically switch between a primary and a secondary stream to minimize bandwidth consumed by the client. ACC provides full configuration control of two video streams and offers selection of recording either the primary or the secondary stream.
- Seamless video failover is now available to cameras who are configured with failover connections to secondary or tertiary servers. When the primary ACC server becomes unavailable, ACC will begin live streaming from the backup server into the original view panel after a few seconds. Once the original server becomes available, the stream will automatically switch the live stream back to the original server. During recorded playback, ACC will render video segments recorded on backup servers if no video is available from the primary server. ACC continues to present multiple timelines based on the location of the recorded events and video but users are able to review and scrub video continuously from any of the related timelines. ACC search features require that users specify all locations where recorded video might reside. Seamless failover is supported on both the ACC client and ACC Virtual Matrix.
- Introduce support for new Avigilon Mini-dome camera with backward compatibility with earlier ACC 5.x and ACC 6.x releases
- Introduce support for an event trigger delay to supplement existing sensitivity control for camera tamper events. This configuration option is now available on H4SL and H4 Fisheye cameras and will be made available on other H4 cameras in future firmware updates. Additionally, ACC event searches can now filter specifically for tamper events.
- ACC can now configure digital outputs to operate in mono-stable/pulse mode or bi-stable/hold modes. New ACC rule actions permit creation of a follow function on outputs that are configured for bi-stable/hold mode. Rules can explicitly activate or deactivate outputs in response to an event. When an output is configured for pulse mode, the activate digital output rule action will trigger a pulse on the output and the deactivate digital output rule action is ignored.
- Camera field-of-view thumbnail previews appear when hovering over a camera name in the Site view device tree and over the camera icons on ACC maps.
- Device icons on maps are now configurable. Maps support five icon types, six unique colors for the icon, shape or field of view cone, and three sizes for the icon and label text
- Operators can cycle through live camera views using a two new keyboard shortcuts and Avigilon joystick functions that support camera next and camera previous functions

## Avigilon Control Center™ 6 Release Notes

## Avigilon Control Center™ 6 Release Notes

Version 6.4.0.16 (continued)

### New Features (cont.)

- ACC video archiving feature now can resume and retry a failed archive task rather than restarting from the beginning. The archive dialog provides administrators with archive progress status, retry count, last successful archive and next planned archive.
- Administrators can review failed login attempts by users in the ACC site logs
- Administrators can now use MSI installers to support automated installation of ACC clients and ACC servers

### 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.
- Addressed a problem connecting some models of Mobotix cameras which prevented motion information from being available.
- Corrected an ACC Player issue affecting the playback of archived video from Avigilon H4 cameras. The issue was observed when the archive was created from video where the primary stream had already aged out.
- Addresses an issue introduced in ACC 6.0.0.24 that occurred when stepping in during a Thumbnail Search, the included time range is smaller than it should be. It was possible that the time range for the stepped in section of video won't include the change in the background scene the user is trying to find.
- Corrected an issue that prevented an H4 ES camera from properly over-writing the oldest archive.
- Corrected the handling of secondary streams for some Oncam cameras.
- Addressed an issue where a secondary camera stream resolution would retain all manual settings changes when the profile was changed back from Manual to Automatic.
- Corrected a problem with properly restoring default groups from settings backup.
- Addressed minor issues with display of licenses during upgrades from ACC 5 to ACC 6
- Addressed an issue where child sites were not aware of servers added to a parent site and therefore could not function properly if the original server in the parent site was removed.
- Addressed an issue where users are not warned about losing their product key information when un-installing ACC Server.
- Prevented users from making site composition changes before licenses are activated after an ACC 5 to ACC 6 software upgrade which often caused licensing problems.

## Avigilon Control Center™ 6 Release Notes

Version 6.4.0.16 (continued)

Issues Fixed (cont.)

- Addressed issues with updating logical IDs on saved views.
- Corrected a situation where groups and users that had the same name could cause problems with modifying alarm notification lists.
- Addressed an issue where multiple H4 ES cameras in a site could cause spurious license problem notifications.
- Corrected a situation that could cause some of the cameras in an export not being listed properly on the audit log entry.
- Corrected an issue that could cause VMA to crash on shutdown.
- Corrected the behaviour of the alarm search panel when logged into multiple sites.
- Corrected an issue that could cause ACC client to crash when accessing the Image and Display settings panel when not logged into a server.
- Resolved an issue that prevented license deactivation on sites when ES Analytics Appliances were the last servers in a site after removing other Windows-based servers.
- Addressed an issue that could cause duplicate licensing error warnings on ES Analytics Appliance sites.
- Addressed a problem that mistakenly allowed a Windows ACC Server to be removed from a parent site leaving only an ES Recorder in the site in an unsupported configuration.
- Corrected an issue that could cause teach markers to disappear when using teach by example.
- Addressed several dewarping issues for cameras using ImmerVision 360° panomorph lens.
- Prevented servers from becoming unresponsive or crashing when infinite rules are accidentally created.
- Resolved an issue that prevented removal of disconnected cameras from ACC rule definitions
- Addressed a scenario that did not permit the modification or removal of the logical Id for a disconnected camera. If the camera is manually disconnected using the ACC client connect/disconnect dialog, the camera's logical Id will now be cleared. This permits the logical Id to be assigned to a replacement camera.
- Corrected a problem that could prevent a user from viewing alarms created during their first login session.
- Addressed a problem that could cause only high-resolution primary streams to be sent from an ES Recorder to ACC client regardless of zoom level for high resolution cameras.

## Avigilon Control Center™ 6 Release Notes

Version 6.4.0.16 (continued)

Issues Fixed (cont.)

- Corrected a problem that could prevent video clips being sent for all servers in a site for remote central monitoring notification messages.
- Addressed a problem that could cause poor performance with Pro series cameras when using HDSM SmartCodec.
- Corrected a problem that could cause the View Application Logs icon to be missing in ACC Server console.
- Corrected a problem that causes ACC Client or ACC Player to crash when exporting H4F de-warped footage.
- Corrected an issue where the HTML5 Web Client and ACC Mobile 2 app are unable to connect to the ACC Gateway using HTTPS. This issue affected Avigilon HDVAs that originally shipped with ACC Gateway version 5.10.8.4 and Avigilon NVRs that originally shipped with ACC Gateway version 5.10.10.4, including ones that were later upgraded to ACC 6.
- Resolved an issue where ACC would not save the last set of POS transactions if ACC timed out waiting for a Close string from the POS system
- Resolved an issue where exporting video from ACC player under certain conditions would create an export that stuttered during playback
- Resolved an issue when an SMTP server requires ACC to use STARTTLS authentication extension.

Known issues in this release

- Due to a regression introduced in ACC 6.0.0.24, the thumbnail results for a Thumbnail Search won't load until all results are available rather than loading sequentially as they did previously. This is most noticeable for Clients connected over a remote connection.

## Avigilon Control Center™ 6 Release Notes

Version 6.4.0.16 (continued)

### Avigilon™ Camera FW Included

- V3.16.0.176 for H4 Mini Dome cameras
- V3.16.0.174 for H4 SL Bullet and Dome cameras
- V3.16.0.168 for H4 Pro H.264 cameras
- V3.16.0.178 for H.264 H3 cameras with self-learning analytics
- V3.16.0.172 for H4 Fisheye cameras
- V3.2.0.44 for H3 Multisensor cameras
- V3.16.0.170 for H4 PTZ cameras
- V3.16.0.182 for H4 Box Bullet Dome cameras with self-learning analytics
- V2.6.0.160 for H3 Micro Dome cameras
- V2.6.0.158 for H3 PTZ cameras
- V2.6.0.160 for H3 Bullet cameras
- V2.6.0.160 for H3 Box Dome cameras
- V2.2.0.52 for H.264 encoders
- V.2.2.0.34 for HD H.264 cameras
- V4.6.0.14 for JPEG2000 HD Pro cameras
- V4.4.0.2 for JPEG2000 Panoramic cameras

## Avigilon Control Center™ 6 Release Notes

Version 6.2.2.6 – Released May 30<sup>th</sup>, 2017

### Release Summary

This is a service release of Avigilon Control Center™ 6.2. Users of the ACC Gateway that recently purchased Avigilon HDVAs that originally shipped with ACC 5.10.8.4 or Avigilon NVRs that originally shipped with ACC 5.10.10.4 and have upgraded them to ACC 6 should install this service release due to the corrected issue listed below.

ACC 6 is a paid major version upgrade for ACC 5 customers and requires upgrade license keys in order to use the software – customers with ACC 5 systems should contact their integrator partner or Avigilon sales representative for more information including upgrade pricing. Customers with ACC 5 systems that are not yet ready to upgrade to ACC 6 can continue to install ACC 5.10 service releases made available on the Avigilon website in order to pick up fixes for software defects.

Integration users may need to upgrade their integration software to a version supported by ACC 6. Please consult the website to determine which versions of your integrations are supported and available for ACC 6.

Note – ACC-ACM integrations must be updated to “AvigilonAcmlIntegration-5.8.4.12\_SR1” or newer for use with ACC 6.

### Issues Fixed

- Corrected an issue where the HTML5 Web Client and ACC Mobile 2 app are unable to connect to the ACC Gateway using HTTPS. This issue affected Avigilon HDVAs that originally shipped with ACC Gateway version 5.10.8.4 and Avigilon NVRs that originally shipped with ACC Gateway version 5.10.10.4, including ones that were later upgraded to ACC 6.

### Known issues in this release (unchanged from the previous service release)

- Due a regression introduced in ACC 6.0.0.24, when stepping in during a Thumbnail Search, the included time range is smaller than it should be. Because of this, it is possible that the time range for the stepped in section of video won't include the change in the background scene the user is trying to find. This issue will be fixed in the next release of ACC 6.
- Due to a regression introduced in ACC 6.0.0.24, the thumbnail results for a Thumbnail Search won't load until all results are available rather than loading sequentially as they did previously. This is most noticeable for Clients connected over a remote connection.

## Avigilon Control Center™ 6 Release Notes

Version 6.2.2.6 (continued)

### Avigilon™ Camera FW Included

- V3.16.0.110 for H4 SL Bullet and Dome cameras
- V3.10.2.10 for H4 Pro H.264 cameras
- V3.16.0.90 for H.264 H3 cameras with self-learning analytics
- V3.16.0.64 for H4 Fisheye cameras
- V3.2.0.40 for H3 Multisensor cameras
- V3.16.0.112 for H4 PTZ cameras
- V3.16.2.90 for H4 Box Bullet Dome cameras with self-learning analytics
- V2.6.0.156 for H3 Micro Dome cameras
- V2.6.0.150 for H3 PTZ cameras
- V2.6.0.156 for H3 Bullet cameras
- V2.6.0.156 for H3 Box Dome cameras
- V2.2.0.48 for H.264 encoders
- V.2.2.0.34 for HD H.264 cameras
- V4.6.0.14 for JPEG2000 HD Pro cameras
- V4.4.0.2 for JPEG2000 Panoramic cameras

## Avigilon Control Center™ 6 Release Notes

Version 6.2.2.4 – Released May 18<sup>th</sup>, 2017

### Release Summary

This is a service release of Avigilon Control Center™ 6.2. Users experiencing issues listed in the “Issues Fixed” list should consider upgrading to this release. In particular customers using ACC Mobile 3 Preview with the new ACC Web Endpoint service, customers using the standalone ACC Client application, and customers using more than 16 lanes of LPR should install this update due to the issues fixed listed below.

ACC 6 is a paid major version upgrade for ACC 5 customers and requires upgrade license keys in order to use the software – customers with ACC 5 systems should contact their integrator partner or Avigilon sales representative for more information including upgrade pricing. Customers with ACC 5 systems that are not yet ready to upgrade to ACC 6 can continue to install ACC 5.10 service releases made available on the Avigilon website in order to pick up fixes for software defects.

Integration users may need to upgrade their integration software to a version supported by ACC 6. Please consult the website to determine which versions of your integrations are supported and available for ACC 6.

Note – ACC-ACM integrations must be updated to “AvigilonAcmlIntegration-5.8.4.12\_SR1” or newer for use with ACC 6.

### Issues Fixed

- Resolved an issue in the Web Endpoint where it would permanently stop forwarding in-app alarm notifications to ACC Mobile 3 Preview clients if network conditions resulted in long enough notification delays
- Ensured the standalone version of the ACC Client checks that .NET 4.6.2 is installed before running
- Fixed an issue preventing more than 16 lanes of LPR from being used on a single site even when correctly licensed for more lanes
- Fixed an issue that could prevent successful license activation of a site that included multiple servers where some had been upgraded from ACC 5
- Corrected an issue where the start and end markers would align with the current time instead of the currently selected (red line) time on the timeline when exporting video
- Fixed an issue where the "Apply to Cameras" action would not apply the image and display settings to all sensors of H3 Multisensor cameras
- Corrected an issue where ACC 5 servers would report an inaccurate count for licenses in use when connecting from an ACC 6 Client. License usage counts are now only available when viewing the information for an ACC 6 server

## Avigilon Control Center™ 6 Release Notes

### Version 6.2.2.4 (continued)

#### Issues Fixed (continued)

- Fixed an issue where, in some cases, analytics would not run on a linked camera following a restart of the ACC ES Analytics Appliance
- Corrected an issue that could cause ACC Server to lock up when adding or editing bookmarks on systems with large amounts of video storage
- Fixed an issue for ACC ES devices where a higher bandwidth video stream is provided to clients than was actually requested
- Corrected the content of Central Station Monitoring Notifications for digital input events to include a list of all linked devices when rules specify no attachments are required

#### Known issues in this release

- Due a regression introduced in ACC 6.0.0.24, when stepping in during a Thumbnail Search, the included time range is smaller than it should be. Because of this, it is possible that the time range for the stepped in section of video won't include the change in the background scene the user is trying to find. This issue will be fixed in the next release of ACC 6.
- Due to a regression introduced in ACC 6.0.0.24, the thumbnail results for a Thumbnail Search won't load until all results are available rather than loading sequentially as they did previously. This is most noticeable for Clients connected over a remote connection.

#### Avigilon™ Camera FW Included

- V3.16.0.30 for H4 SL Bullet and Dome cameras
- V3.10.2.10 for H4 Pro H.264 cameras
- V3.16.0.90 for H.264 H3 cameras with self-learning analytics
- V3.16.0.64 for H4 Fisheye cameras
- V3.2.0.40 for H3 Multisensor cameras
- V3.16.0.92 for H4 PTZ cameras
- V3.16.2.90 for H4 Box Bullet Dome cameras with self-learning analytics
- V2.6.0.156 for H3 Micro Dome cameras
- V2.6.0.150 for H3 PTZ cameras
- V2.6.0.156 for H3 Bullet cameras
- V2.6.0.156 for H3 Box Dome cameras
- V2.2.0.48 for H.264 encoders
- V.2.2.0.34 for HD H.264 cameras
- V4.6.0.14 for JPEG2000 HD Pro cameras
- V4.4.0.2 for JPEG2000 Panoramic cameras

# Avigilon Control Center™ 6 Release Notes

Version 6.2.0.24 – Released April 19<sup>th</sup>, 2017

## Release Summary

This is an initial release of Avigilon Control Center™ 6.2. This release introduces a new ACC Mobile application to support remote alarm handling for small sites deploying ACC appliances. Avigilon Appearance Search™ technology now introduces support for vehicle search. Users experiencing issues listed in the “Issues Fixed” list should consider upgrading to this release. In particular customers experiencing archiving failures with ES Cameras and loss of alarms after clustering an ACC ES appliance with a Windows server should upgrade.

ACC 6 is a paid major version upgrade for ACC 5 customers and requires upgrade license keys in order to use the software – customers with ACC 5 systems should contact their integrator partner or Avigilon sales representative for more information including upgrade pricing. Customers with ACC 5 systems that are not yet ready to upgrade to ACC 6 can continue to install ACC 5.10 service releases made available on the Avigilon website in order to pick up fixes for software defects.

Integration users may need to upgrade their integration software to a version supported by ACC 6. Please consult the website to determine which versions of your integrations are supported and available for ACC 6.

Note – ACC-ACM integrations must be updated to “AvigilonAcmlIntegration-5.8.4.12\_SR1” or newer for use with ACC 6.

## New Features

- ACC Mobile 3 Preview app delivers mobile alarms for small sites and self-monitoring applications. ACC Mobile 3 Preview app can connect directly to ES appliances and recorders running ACC 6.2. When the new optional ACC Web Endpoint Service is deployed on HDVAs, it brings mobile alarm capability to ACC Core and Standard edition HDVA users.
- ACC client introduces a new simplified main application menu and workflow for opening new views. It also offers new unified search buttons for easier access to search options.
- In this release, Avigilon Appearance Search™ technology adds the ability for users to quickly find the instances where a vehicle of interest has appeared in the recorded video from analytic cameras across the entire site to existing capabilities to find a person of interest. Avigilon Appearance Search technology is included with Enterprise edition and requires compatible Avigilon self-learning analytic cameras, NVR analytic kit hardware, and the installation of the Avigilon Control Center Analytics Service component.

## Avigilon Control Center™ 6 Release Notes

### Version 6.2.0.24 (continued)

#### New Features (continued)

- ACC client can be used to configure the bandwidth reduction settings of Avigilon cameras featuring HSDM SmartCodec™ technology. An operator is able to select the desired background image quality and idle scene mode frame rate behaviour to achieve an overall bandwidth reduction.
- Camera failover licenses can now be purchased and applied to create a pool of contingency licenses that permit a camera to connect to a secondary or tertiary ACC server in case of failure of the primary connection
- ACC now offers de-warped image and video exports from Avigilon Fisheye cameras
- ACC Central Station Monitoring notification attachments can now be configured within the ACC rule definition. Attachments can include an image, a low resolution video clip or a high resolution video clip from one or more related cameras
- Site Health report provides a new filter option to search by server name
- The number of allowable PTZ presets that can be defined from ACC client has been increased to 250
- ACC can now be configured to recognize arbitrary events from 3<sup>rd</sup> party ONVIF conformant devices to trigger ACC rules and present them in the ACC event search results.
- ACC now offers a Middle East Language pack containing Arabic help files

#### Issues Fixed

- Fixed an issue where the preview image when requesting an export is incorrect
- Improved handling of RTSP uniform resource identifiers to correct a problem connecting to some devices.
- Resolved an issue where higher resolution cameras had different contrast on different portions of the image.
- Corrected an issue where JPEG2K HD-Dome Cameras Microphone Source Type cannot be configured for "Line"
- Fixed a case that would occasionally cause a client to crash while restoring a saved window layout
- Fixed an issue that could sometimes cause the client to crash in the connect/disconnect cameras screen
- Added a new file combining French and Swiss LPR font templates, updated combined Ireland and UK LPR font template, and added a new LPR font template for Western Australia

## Avigilon Control Center™ 6 Release Notes

### Version 6.2.0.24 (continued)

#### Issues Fixed (continued)

- Corrected an issue with French localization where labels for motion detection started and ended were reversed during rule configuration
- Fixed an issue with export permissions
- Ensured that rules and the analytic events they referred to are matched up with the cameras that can produce such events after rule import to a new server / site
- Corrected an issue making it difficult to navigate topics in the ACC player help
- Improved the performance of site health report for large sites
- Corrected an issue where AVI and snapshot fisheye exports would be a few pixels more than expected
- Fixed a crash in the ACC Player that could be caused by attempting to edit a bookmark
- Corrected improper colour for license management icon on site setup screen
- Corrected a cosmetic issue where the type of connection available (secure) was not shown when setting up the connection to some Avigilon cameras
- Ensured labels for image rate slider are sensible (cosmetic only)
- Fixed an issue preventing the "fit to panel" command on Avigilon fisheye cameras from returning to the overview
- Corrected an issue where it might be possible, in some circumstances, to pan out of the regular image bounds in an H4A camera view
- Ensured that the mouse tools menu bar is available in the sequential alarms view, so that users can pan, zoom, control PTZ, etc.
- Improved behaviour of an export operation that fails when attempting to overwrite (or create) a file without the appropriate permissions
- Added back the count of total number of licenses on a site to the site health report
- Addressed an issue that prevented an error from being generated in some cases when attempting to enable too many LPR lanes
- Ensured that the user interface reflects the fact that an appearance search can no longer continue when the server(s) in a site hosting the appearance search data is(are) shut down
- Fixed a problem where the link between a camera and the Rialto analytics appliance could be broken when the camera alone would reboot
- Fixed an issue during installer validity checks that could cause a small memory leak in the use of the remote upgrade feature
- Corrected a defect preventing Avigilon Appearance Search from being launched from the recorded video of an armed alarm panel
- Improved handling of ONVIF commands to set camera names

## Avigilon Control Center™ 6 Release Notes

### Version 6.2.0.24 (continued)

#### Issues Fixed (continued)

- Addressed an issue where a site would lose alarm capability after de-clustering a server from the site
- Corrected an issue that could cause Avigilon Appearance Search technology to not return any results in some cases when the search was initiated from a period of time where there was low analytics activity (i.e. not many people detected by the cameras)
- Corrected an issue where, in certain cases, a small amount of memory could leak on successful logins
- Fixed an issue with an incorrect error message relating to LPR licensing appearing in some cases on systems without any LPR licenses
- Fix a client crash that would sometimes occur when opening a web page by double-clicking it in the tree
- Fixed an issue causing start and end times not to be set properly when launching a manual archive operation
- Fixed an issue preventing an unlicensed server from joining a licensed site when active directory integration is enabled in the site
- Removed "licensing the server" topic from administration tool help topics, since licensing is now applied from the client
- Changed the process name for the analytics engine to be a "service" rather than a "daemon" to be up to date with Windows naming conventions
- Fixed an issue where the client or virtual matrix would sometimes crash when loading 100's of cameras through saved views
- Fixed an issue preventing users from entering multiple lines of text in a snapshot "export" to PDF
- Added help documentation for new rule events added in ACC 6.0 (Analytics server queue full, analytics server connection lost, user-defined event started, and user defined event ended.)
- Fixed a localization issue for the layout of the Compression and Image Rate dialog in Finnish
- Addressed an issue where a server could retain some or all of the site keys in an unlicensed state after removing the server from the site
- Corrected an issue where Active Directory logins could fail when Active Directory users accounts are inherited from a parent site
- Resolved an issue where camera failover to tertiary connections may fail with license errors when multiple server failures occur
- Improved retry mechanism when errors occur while attempting to connect to a Rialto

## Avigilon Control Center™ 6 Release Notes

### Version 6.2.0.24 (continued)

#### Issues Fixed (continued)

- Fixed an issue that caused the "Enable Appearance Search" video analytics camera setting to be out of sync when an Avigilon self-learning analytics camera was connected to multiple servers
- Corrected an issue that caused analytic bounding boxes and metadata in general to be missing for Avigilon self-learning analytics cameras when set to MJPEG image format
- Fixed an issue when requesting the stream properties in recorded playback mode, the popup indicates unknown state for light level and day/night state values
- Resolved an issue that caused the ACC client to become unresponsive or crash when switching sort order between "by relevance" and "by camera" during an Appearance Search
- Improved 3rd party camera compatibility with support for the latest ONVIF supported version scheme
- Ensured that Appearance Search is disabled if the ACC Analytics Service is installed on a server that doesn't have the necessary server hardware (i.e. the NVR analytics kit add-on)
- Corrected an issue where two tamper events were reported by ACC for each tamper event generated by a camera
- Corrected an issue where the license expiry information was partially clipped in the License Management dialog
- Corrected an issue where pixel motion search would return no results when specifying a date range
- Fixed an issue that could cause the ACC Client to crash when using "Find Camera" in the Connected/Disconnect Cameras tab and when logged into multiple servers
- Corrected a problem which could cause a server to crash when importing improper rules or alarms from a settings backup created on a different site
- Resolved an issue where the standalone ACC Player would not install without first disabling certain Anti-virus programs
- Ensured that alarm escalation in the sequential alarm view happens as scheduled by the alarm setup dialog, and that the timer is not reset when the alarm recurs before it escalates
- Resolved an issue when using an ACC 6 Client to add a new alarm on an ACC 5.x site and where the alarm trigger source is "System Error" caused the ACC 5 server to crash
- Addressed an issue that could cause a server to crash when performing a motion search
- Corrected an issue within camera setup dialogs where PTZ controls would not move camera to the requested position
- Upgraded third party libraries to address security vulnerabilities

## Avigilon Control Center™ 6 Release Notes

### Version 6.2.0.24 (continued)

#### Known issue in this release

- Due to a regression introduced in 6.0 (and 5.10.0), when starting an export operation, the start and end markers will align with the current time instead of the currently selected (red line) time on the timeline. This will be fixed in 6.2 SR1

#### Avigilon™ Camera FW Included

- V3.16.0.30 for H4 SL Bullet and Dome cameras
- V3.10.2.10 for H4 Pro H.264 cameras
- V3.16.0.90 for H.264 H3 cameras with self-learning analytics
- V3.16.0.64 for H4 Fisheye cameras
- V3.2.0.40 for H3 Multisensor cameras
- V3.16.0.92 for H4 PTZ cameras
- V3.16.2.90 for H4 Box Bullet Dome cameras with self-learning analytics
- V2.6.0.150 for H3 Micro Dome cameras
- V2.6.0.150 for H3 PTZ cameras
- V2.6.0.140 for H3 Bullet cameras
- V2.6.0.140 for H3 Box Dome cameras
- V2.2.0.48 for H.264 encoders
- V.2.2.0.34 for HD H.264 cameras
- V4.6.0.14 for JPEG2000 HD Pro cameras
- V4.4.0.2 for JPEG2000 Panoramic cameras

## Avigilon Control Center™ 6 Release Notes

Version 6.0.2.6 – Released March 8<sup>th</sup>, 2017

### Release Summary

This is a service release of Avigilon Control Center™ 6.0. Users experiencing issues listed in the “Issues Fixed” list should consider upgrading to this release. In particular customers with multi-server sites that have recently upgraded from ACC 5 to ACC 6, or customers using AD synchronization, should install this update.

ACC 6 is a paid major version upgrade for ACC 5 customers and requires upgrade license keys in order to use the software – customers with ACC 5 systems should contact their integrator partner or Avigilon sales representative for more information including upgrade pricing. Customers with ACC 5 systems that are not yet ready to upgrade to ACC 6.0 can continue to install ACC 5.10 service releases made available on the Avigilon website in order to pick up fixes for software defects.

Integration users may need to upgrade their integration software to a version supported by ACC 6. Please consult the website to determine which versions of your integrations are supported and available for ACC 6.

Note – ACC-ACM integrations must be updated to “AvigilonAcmlIntegration-5.8.4.12\_SR1” or newer for use with ACC 6.0.

### Issues Fixed

- Resolved an issue where a multi-server ACC 6 site may report being unlicensed one month after upgrading from ACC 5 licenses
- Ensured AD synchronization remains enabled after an ACC server restart
- Resolved an issue in multi-server sites where cameras report 'Not Authorized' after an ACC upgrade
- Resolved an issue that prevented setting the logical ID for a saved view
- Fixed an issue in the ACC Gateway that would cause a warning on some security scans
- Enhanced system behaviour to be more resilient to certain Denial-of-Service attacks
- Fixed an issue where the server could crash when the Find Camera dialog is used to find and connect a new camera
- Resolved an issue in the ACC SDK which in certain scenarios leads to high memory usage and the ACC server to crash
- Ensured the correct number of LPR licenses are recognized after adding new LPR licenses
- Ensured that Axis Q1941-E cameras connected via a Rialto do not crash the server
- Corrected an issue where analytic detection stops after zooming on a camera connected to a Rialto or an ACC ES Analytic Appliance

## Avigilon Control Center™ 6 Release Notes

### Version 6.0.2.6 (continued)

#### Known issues in this release

- Using an ACC 6 Client to add a new alarm on an ACC 5.x site and where the alarm trigger source is "System Error" can cause the server to crash. As a workaround, when adding alarms with this trigger source use an ACC 5.10 version of the Client.
- If the ACC Analytics Service is installed on an ACC Enterprise server that doesn't have the necessary server hardware (i.e. the NVR analytics kit add-on), the feature can incorrectly appear to be available for use but won't work in this scenario.

#### Avigilon™ Camera FW Included

- V3.16.0.30 for H4 SL Bullet and Dome cameras
- V3.10.2.10 for H4 Pro H.264 cameras
- V3.10.2.10 for H.264 H3 cameras with self-learning analytics
- V3.16.0.48 for H4 Fisheye cameras
- V3.2.0.40 for H3 Multisensor cameras
- V3.16.0.54 for H4 PTZ cameras
- V3.10.2.12 for H4 Box Bullet Dome cameras with self-learning analytics
- V2.6.0.150 for H3 Micro Dome cameras
- V2.6.0.150 for H3 PTZ cameras
- V2.6.0.140 for H3 Bullet cameras
- V2.6.0.140 for H3 Box Dome cameras
- V2.2.0.48 for H.264 encoders
- V.2.2.0.34 for HD H.264 cameras
- V4.6.0.14 for JPEG2000 HD Pro cameras
- V4.4.0.2 for JPEG2000 Panoramic cameras

# Avigilon Control Center™ 6 Release Notes

Version 6.0.0.24 – Released January 23<sup>rd</sup>, 2017

## Release Summary

This is the initial release of Avigilon Control Center™ 6.0, which includes Avigilon Appearance Search™ technology and other new features as summarized below. ACC 6 is a paid major version upgrade for ACC 5 customers and requires upgrade license keys in order to use the software – existing ACC 5 customers should contact their integrator partner or Avigilon sales representative for more information including upgrade pricing. Existing ACC 5 customers not yet ready to upgrade to ACC 6.0 can continue to install ACC 5.10 service releases that are made available on the Avigilon website, in order to pick up fixes for software defects.

Integration users may need to upgrade their integration software to a version supported by ACC 6. As the FTP site contains integration software for both ACC 5 and ACC 6, please consult the website to determine which versions of your integrations are supported and available.

Note – ACC-ACM integrations must be updated to “AvigilonAcmlIntegration-5.8.4.12\_SR1” or newer for use with ACC 6.0.

## New Features

- Avigilon Appearance Search™ technology enables users to quickly find the instances where a person of interest has appeared in the recorded video from analytic cameras across the entire site. Avigilon Appearance Search technology is included with Enterprise edition and requires compatible Avigilon self-learning analytic cameras, NVR analytic kit hardware, and the installation of the Avigilon Control Center Analytics Service component.
- Bookmark Search now allows multiple bookmarks to be selected at a time and actions taken on them including: deletion, change of protection status, and creation of a multi-clip native (.AVE) export using the video associated with the individual bookmarks.
- Standard Edition now has 21 rules available (20 user configurable rules and 1 default rule), allowing increased flexibility to take action or generate notifications for analytic events.
- Remote licensing allows users to adjust licensing using ACC Client instead of the server admin console. With this feature, customers can simply connect to a site from their ACC Client to add or remove product license keys, or to reactivate their licenses when servers are added or removed from the site.
- Site-based licensing pools the licenses across all servers in a site so that the licenses do not need to be assigned to a particular server. A larger 48 channel enterprise license product key is now available to simplify license management in larger sites.

## Avigilon Control Center™ 6 Release Notes

- Video Clip attachments sent with Central Station Monitoring notifications now include analytic bounding boxes and are higher resolution if the camera offers a compatible video stream. ACC ES Cameras do not include bounding boxes in their attachments.

### Version 6.0.0.24 (continued)

#### New Features (continued)

- Updated security for client-server and server-server connections using Secure Remote Password. This technology improves the trust between ACC components without requiring third-party certificates while maintaining secure communications over the LAN or WAN.

#### Updates to Supported Platforms

- Windows Vista and Windows Server 2008 are no longer supported.
- ACC Server is only available for 64 bit versions of the supported operating systems.
- The ActiveX Web Client is no longer available. The ACC Gateway's HTML5 Web Client is available for users that wish to access an ACC site from a browser. For users that require the full ACC Client's functionality, but don't wish to or aren't able to install it, they can use the standalone version of the Client (no installation required).

#### Known issues in this release

- Active Directory (AD) synchronization can become disabled after an ACC Server restart in some Windows domain environments for single server sites. In order to allow AD users to login after a server restart in these cases, a local ACC administrator will need to re-enable AD synchronization.
- It is currently not possible to properly specify the logical ID for a saved view.

## Avigilon Control Center™ 6 Release Notes

Version 6.0.0.24 (continued)

### Avigilon™ Camera FW Included

- V3.12.0.34 for H4 SL Bullet and Dome cameras
- V3.10.2.8 for H4 Pro H.264 cameras
- V3.10.2.8 for H.264 H3 cameras with self-learning analytics
- V3.14.0.28 for H4 Fisheye cameras
- V3.2.0.40 for H3 Multisensor cameras
- V3.14.0.52 for H4 PTZ cameras
- V3.10.2.8 for H4 Box Bullet Dome cameras with self-learning analytics
- V2.6.0.150 for H3 Micro Dome cameras
- V2.6.0.150 for H3 PTZ cameras
- V2.6.0.140 for H3 Bullet cameras
- V2.6.0.140 for H3 Box Dome cameras
- V2.2.0.48 for H.264 encoders
- V.2.2.0.34 for HD H.264 cameras
- V4.6.0.14 for JPEG2000 HD Pro cameras
- V4.4.0.2 for JPEG2000 Panoramic cameras