SightLogix Enterprise Security System Release Notes 16.2

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June 26, 2024 Release

The latest release of 16.2 firmware adds SightTracker support for the Axis Q6225-LE and fixes a bug with the Axis Q6315-LE's zoom scale.

Device Firmware - 16.2.232

- **New PTZ model supported for SightTracker:** Support was added for the Axis Q6225-LE dual sensor PTZ camera.
- **Tweak to Axis Q6315-LE zoom scale:** The zoom scale has been adjusted slightly. This should improve tracking at longer distances.

May 22, 2024 Release

The latest release of 16.2 firmware contains a new Smart Upscaling feature for the thermal image stream, improved AI models, a new heater power control setting, and bug fixes for device firmware and SightMonitor II/Discovery.

Device Firmware - 16.2.230

- **Smart Thermal Upscaling:** The thermal stream's resolution can now be doubled by selecting "Smart Thermal Upscale" in the MPEG/JPEG tab for WebConfig. This feature is not available for SightSensors with 640x480 thermal cores.

- **Improved AI models:** The AI Classification nuisance alarm filter has been extended to cover targets that fall within 70% of the Inbound detection range of the camera for HD products and 65% of the Inbound detection range for NS and TC products.
- **Improved heater control:** SightSensors now have the ability to limit heater power usage on the Device page where an estimated maximum power usage in cold temperatures is shown.
- **Improved AI detection line colors:** The colors and line styles for AI Detection, Crosfield and Inbound have been changed to enhance visibility.
- **Day/Night mode LED presence correction:** The Device page day/night mode was showing LED options for some sensors without LEDs.
- **Block blank IP/Netmask in static mode:** It should no longer be possible to set a camera in static IP mode without specifying an IP/Netmask combination.
- **Overwrite Factory Calibration button removed:** This button would delete factory calibration with no recourse. Users are reminded not to press this button in old firmware.
- **Do not disable fallback IP when managed from fallback IP:** SightLogix devices should no longer disable the fallback IP address when they are managed from 192.168.0.99 or IPv4LL. The fallback IP (192.168.0.99 and IPv4LL) will still be disabled when settings are modified from a DHCP address. Fallback is always disabled when in static IP mode.
- **Fix Audit regression:** A regression to the audit system is fixed. This was introduced in firmware 16.2.182. This caused the auditing system to stop recording events.

SightMonitor II / Discovery - 1.4.0

- **Improved discovery when devices boot to fallback mode:** SightLogix devices in fallback mode may have multiple addresses (192.168.0.99, IPv4LL, DHCP). Discovery will attempt to show the most useful address based on the PC's available network settings. The discovery window will also show hover text including all registered IP addresses for a given SightLogix device.

Mar 29, 2024 Release

The latest release of 16.2 firmware contains minor changes.

Device Firmware - 16.2.195

- **Support for TC220-622:** Added manufacturing support for the TC220-622 model.

Feb 26, 2024 Release

The latest release of SightLogix Coordination System software (SightMonitor I) includes support for Thermal AI Classification on SightSensors.

Coordination System - 15.12.25

- **Support Added for Thermal AI Classification:** The Coordination System now allows SightSensors it manages to enable and use AI Classification.

Feb 16, 2024 Release

The latest release of 16.2 firmware for SightSensors contains a fix for SightMonitor II.

Device Firmware - 16.2.192

- **Fix for missing cones in SightMonitor II:** Fixed a regression introduced in 16.2.191 where SightMonitor II would fail to display zone information, and the sensor icon would turn yellow.

Feb 13, 2024 Release

The latest release of 16.2 firmware for SightSensors contains a new Auto Zone feature which will automatically draw a zone out to maximum distance based on the calibration. The 17.0 SightTracker PTZ firmware contains a streaming performance enhancement.

Device Firmware - 16.2.191

- **WebConfig Auto Zoning feature:** When zones are initially created or reset, the default zone will be automatically drawn to cover the area to the maximum detection distance (previously, the default zone covered the entire field of view).

The user can select Crossfield or Inbound detection distances for the Auto Zone. Also, new lines are shown in the Calibration and Policy snapshots as a visual aid to show maximum detection distances for standard detection and AI detection.

- **Default Human Detection Rules for Auto Zoning:** When adding a new zone, the default rules have been changed to common settings that can help reduce nuisance alarms. Duration is now 1.5 seconds (previously .5 seconds), Minimum Speed is 1 MPH (previously undefined) and AI Alarm Filtering is set to "Everything Except Person/and Vehicle").
- **AI Classification Distance:** The AI Classification nuisance alarm filter has been extended to cover targets that fall within 60% of the Inbound detection range of the camera (previously the AI Classification filter only covered targets that fell within 50% of the Inbound detection range).
- **Improved AI classification:** Improvements to the AI classification system for large detections.
- **Improved AI model:** The AI models were updated to incorporate the latest training data.

Feb 09, 2024 Release

The latest release of 16.2 firmware contains a manufacturing only fix.

Device Firmware - 16.2.185

- **Manufacturing only fix for TC4 cameras:** This fixes a manufacturing only issue. There is no need to upgrade to this firmware.

Feb 2, 2024 Release

The latest release of 16.2 firmware contains a fix for WebConfig where the Save/Revert buttons won't show under certain conditions.

Device Firmware - 16.2.184

- **WebConfig no Save/Revert for SightSensors:** An issue was fixed that caused SightSensor devices to not show Save/Revert buttons after changes in WebConfig. The issue is present for 16.2.182 in the factory default state. The fix

is to load a different firmware to these problem devices. This issue does not affect the SightTracker product.

Jan 8, 2024 Release

The latest release of 16.2 firmware contains the new SightLogix Thermal AI feature. Users can learn more about this new capability for Gen4 sensors at (https://portal.sightlogix.com/help/using-sightlogix-thermal-ai).

There is also a new Live View tab in WebConfig to show the thermal or visible image from the browser.

Device Firmware - 16.2.182

- **SightLogix Thermal AI nuisance alarm rejection:** SightSensors now have the ability to filter alarms using an AI trained classifier to reject nuisance alarms. Users will find a new "AI Alarm Filtering" section in the policy page of WebConfig where they can specify that valid alarms require classification as a person or vehicle.
- **SightLogix Thermal AI captures**: SightSensors now have the ability to record data from alarms and package them for inclusion in future SightLogix Thermal AI models. Users can enable this feature in the WebConfig Device page. Then then can download and clean out these files after sending them to SightLogix Support to help enhance the nuisance alarm rejection capability. This capture file only contains thermal stream data so privacy is preserved.
- **SightLogix Thermal AI detection distance display**: There is now a blue line shown in calibration images in WebConfig that denotes the detection distance for thermal AI nuisance alarm rejection. Objects whose foot shows below the blue line will benefit from Thermal AI nuisance alarm rejection.
- **LiveView feature in WebConfig**: The visible and thermal live streams are now available in the LiveView tab of WebConfig.
- **WebConfig page breaking on firmware upgrade**: An issue was fixed where sometimes, after a firmware upgrade, the WebConfig page will break until the user performs a hard reload.
- **Support for larger firmware images**: SightLogix firmware prior to 16.2.124 had a low firmware size limit. With the introduction of Thermal AI, the firmware has grown. Firmware upgrades *from* pre-16.2.124 firmware may fail with "OSError:

[Errno 28] No space left on device" in a red box in WebConfig. If this happens users can install 16.2.124 as a bridge firmware to enable larger images, and then re-install the target firmware to the latest release.

- **DSA at night**: Dual sensor products now have the ability to enable Dual Sensor Analytics at night for cases where the night scene is well lit. Important: this mode requires adequate lighting or it can cause the sensor to miss targets. Dual sensor analytics is normally disabled when the sensor switches into night mode.

Device Firmware - 16.2.124

- **AI bridge firmware:** This firmware is used to allow upgrading to larger firmwares including and after 16.2.182.

July 21, 2023 Release

The latest release of 16.2 firmware contains a new feature, "Night DSA" which allows using both visible and thermal sensors in night mode when there is sufficient lighting available in the sensor's view. There is also another fix for OpenEye's proxying of WebConfig on SightLogix devices.

Device Firmware - 16.2.122

- **DSA at Night:** There is now an option in the device tab of WebConfig for "Night DSA" which can use both imagers in dual imager products when there is sufficient light in the camera's scene.
- **Performance regression fix:** Some TC and GTC products had a performance regression that has been fixed.
- **OpenEye proxying regression:** Another corner case was uncovered for OpenEye, see previous description. Firmware 16.2.122 or greater should be used with OpenEye.

Feb 16, 2023 Release

The latest release of 16.2 firmware contains a fix for OpenEye's proxying of WebConfig on SightLogix devices.

Device Firmware - 16.2.113

- **OpenEye proxying regression:** An issue was fixed which prevents logging in through OpenEye's proxy of the SightLogix device's WebConfig. Users were able to login through OpenEye, upgrade to 16.2.112, and configure the camera, but once the session expired they were no longer able to access WebConfig through the OpenEye proxy. The issue was introduced in firmware version 16.2.112 and addressed with this new .113 release. Direct access to WebConfig and SightMonitor II will still work and are unaffected.

Feb 6, 2023 Release

The latest release of 16.2 firmware contains the new privacy zone feature.

Device Firmware - 16.2.112

- **Privacy Zone feature:** This release adds the ability to define a privacy zone which will blank out sections of the visible image for dual imager SightSensors.

Feb 6, 2023 Release

The latest release of 16.2 firmware contains the new shock detection feature.

Device Firmware - 16.2.102

- **Shock Alarm feature:** This release adds a capability that automatically monitors the camera's position and sends a Shock Alarm when the camera is impacted, tilted or moved from its current position by more than 3% of the total field of view.
- **Visible zone update bug fixed:** Fix an issue where zones on the visible image might not get updated when clicking save from WebConfig.

Jan 18, 2023 Release

The latest release of 16.2 firmware contains a bug fix for some HD models.

Device Firmware - 16.2.93

- **Fix a detection regression present in some newer SightSensor HD products:** Some HD products with recent manufacture dates were experiencing degraded performance when detecting fast moving objects. This also caused the thermal and HD visible streams to appear out of sync. This release addresses that issue.

Sept 13, 2022 Release

The latest release of 16.2 firmware contains a manufacturing change.

Device Firmware - 16.2.92

- **Manufacturing only change:** This change fixes a manufacturing issue, customer upgrade is not necessary.

Aug 25, 2022 Release

The latest release of 16.2 firmware contains a manufacturing change.

Device Firmware - 16.2.90

- **Manufacturing only change:** This change fixes a manufacturing issue, customer upgrade is not necessary.

Aug 8, 2022 Release

The latest release of 16.2 firmware includes support for the NS4 and TC4 line of SightSensors.

Device Firmware - 16.2.87

- **Support for NS4 and TC4 Models:** the NS4 and TC4 line of SightSensor has been released.

June 28, 2022 Release

The latest release of 16.2 firmware includes small bug fixes.

Device Firmware - 16.2.33

- **Infinite cone length bug in TC cameras:** WebConfig will now show the correct cone length on calibrated TC cameras.

June 16, 2022 Release

The latest release of 16.2 firmware includes small bug fixes.

Device Firmware - 16.2.32

- **Block WebConfig downgrade for certain SightSensor NS models:** WebConfig will now correctly block downgrading below 16.2 for certain models with newer parts. Customers are reminded that downgrading cameras to firmware versions preceding original shipping firmware is never supported.
- **Infinite cone length bug in NS220-620:** WebConfig will now show the correct cone length on calibrated NS220-620 cameras.

June 10, 2022 Release

The latest release of 16.2 firmware and 1.2 SightMonitor II release includes a new Audit Feature in SM2 and improved support for GT/GTC cameras.

Device Firmware - 16.2.27

- **Add support for new models:** Support has been added for NS220-620 and Senstar TC600.
- **Camera Name in Camera Neighborhood and Associations tabs in WebConfig:** The camera name field will now be displayed in the Camera Neighborhood and Associations sections of WebConfig to more easily identify which camera is which.

- **Cones not changing in SM2 using certain new camera models:** Fixes an issue where cones would not update in SightMonitor II after changing calibrations for certain cameras.
- **Show Yaw on calibration page:** The calibration page of WebConfig now shows the calibrated yaw value to more easily perform the IMU maintenance procedure.
- **Adjust GT/GTC product model numbers:** SightSensor GT/GTC product model numbers have been finalized. Some early release cameras will have different Model numbers.
- **New PTZ model supported for SightTracker:** Support was added for the Pelco P2820-ESR 20x optical zoom PTZ camera.
- **Quicker object size calculation:** When the camera calibration is slightly off or the ground is not flat the initial size estimate of a far object can become a negative number (object is below horizon). This can delay the calculation of an accurate object size. To fix this issue we do not accept a negative object size as an initial estimate.

SightMonitor II - 1.2.0

- **SightMonitor II Audit feature:** Users are now able to audit logged camera configuration changes. Auditing is not compatible with auto backups taken prior to SM2 1.2.0.
- **Remove device confirmation dialog fix:** An issue has been fixed where, when removing a device, the confirmation dialog would sometimes incorrectly show a message about exclusive access.
- **Download map feature:** The "Move to Site" submenu now has a "Download Map" option for map-calibrated, online cameras. It will create the appropriate site by downloading it from the camera and moving that camera into the new site.
- **Backup failures will no longer block UI:** An issue was fixed where multiple auto backup failure windows stack and cannot be closed. SM2 now closes previous auto backup failure windows before creating new ones.

February 11, 2022 Release

The latest release of 16.2 firmware contains support for new SightSensor GT and GTC models.

Device Firmware - 16.2.2

- **Add support for GT and GTC models:** Support has been added for the new SightSensor GT and GTC models.
- **Corrupted position blocks WebConfig login/getConfiguration:** Fixes an issue where WebConfig login fails after CS corrupts the camera's GPS Position field.
- **WebConfig displays cones incorrectly with non-zero height calibration points:** A bug has been fixed to display cones correctly when calibration points have non-zero height.
- **CS to WebConfig migration with non-latin characters breaks WebConfig login:** Non-latin characters in the camera name field would cause the ForceLogin checkbox to not show up, blocking WebConfig management. This change generally fixes migration from CS to WebConfig in the presence of non-latin characters. Customers should check their text fields after such an upgrade as these characters are generally not translated correctly. However; WebConfig should no longer crash or become unusable.
- **WebConfig can handle complex CS zones:** WebConfig can now handle complex zones with repeated vertices. This issue caused WebConfig to fail to load zones in some cases when the zones are created in CS and then WebConfig is opened.
- **Add list of core files to debug report:** A list of core dumps present in the camera can help with debugging and this list is now present in debug reports.
- **Bugfix in edge recording table:** Fixes a problem where changes to edge recording settings in WebConfig may not show save/revert buttons.
- **Upgrade OpenSSL to 1.1.1l:** OpenSSL library has been upgraded addressing CVE-2021-3711.

SightMonitor II - 1.1.1

- **Add support for GT and GTC models:** SightMonitor II and SightLogix Discovery tool now support the new SightSensor GT and GTC models.
- **Shared SightMonitor II datafile across windows users:** Multiple Windows users will now have access to the same SightMonitor II data. Previously each user on a Windows machine had their own copy of SightMonitor II data. Now these users will all have access to the same set of cameras and settings per PC.

December 2, 2021 Release

The latest point release of 16.0 firmware contains minor changes and bugfixes for Senstar TC200.

Device Firmware - 16.0.44

- **ONVIF manufacturer will be blank for Senstar TC200:** Senstar TC200 will now show a blank manufacturer in the ONVIF response.

October 18, 2021 Release

The latest point release of 16.0 firmware contains minor changes and bugfixes.

Device Firmware - 16.0.42

- **Fix pairwise calibration regression:** SightTrackers with 16.0 firmware before 16.0.42 contain a bug that causes cameras to reboot until they come up with a "Severe Error" overlay as soon as the tracker has performed a pairwise calibration. Cameras can safely upgrade to 16.0.42 or downgrade to pre-16.0.x firmware to clear the issue.
- **Update Core detection for HD332:** Newer HD332 models will require 16.0.42 firmware or greater.
- **Support for Senstar TC200:** Manufacturing support for Senstar TC200 model has been updated, none were shipped with 16.0.34.

October 1, 2021 Release

The latest point release of 16.0 firmware contains minor changes.

Device Firmware - 16.0.34

- **Support for Senstar TC200:** Manufacturing support for Senstar TC200 model.

August 11, 2021 Release

The latest point release of 16.0 firmware contains minor fixes.

Device Firmware - 16.0.33

- **WebConfig can burn "old." firmware:** The Coordination System retains previously installed firmware with a prefix "old." WebConfig can now burn these files without removing the prefix.
- **Edge Recording Stability Improvement:** Fix an issue causing cameras with edge recording running 16.0.30 may reboot every few months.

July 21, 2021 Release

Release 16.0 of SightLogix Security System software introduces several capabilities. **SightMonitor II** (SM2) version 1.1 is released which adds new security features including: Exclusive access which locks SightLogix devices to a single SM2 installation, Enhanced user management, device audit trail, automatic device backups are now encrypted, and an enforce password change policy is available.

Device Firmware - 16.0.30

- **Audit Feature:** SightLogix devices now log administration events to an internal log file which can be accessed through SM2.
- **Exclusive Access:** Add support for exclusive access mode in SightMonitor II.
- **Genetec Protocol support updated:** Genetec protocol support now works with h.264 video, rtsp over tcp transport mode, and dual imager devices.
- **Hardware encoding:** SightLogix devices now use a hardware encoder.
- **Checkbox to enable persistent UUID for ONVIF discovery:** A checkbox has been added to the Web Server tab in WebConfig to make ONVIF discovery UUID persist between reboots. This should help with EagleEye ONVIF integration.
- **IMU Calibration Improvements:** IMU Calibration in WebConfig now has an "Overwrite Factory Calibration" button as well as editable pan/tilt values so users can tweak the calibration without overwriting the factory calibration. It also records the last time factory calibration was overwritten.

- **Improve PTZ WebConfig section for IP Domes:** Calibration table should now say "PTZ" instead of "Camera" to clarify what device this coordinate represents. PTZLimits now say "(advanced)" and have a reset button to trigger reloading them. PTZ changes may reboot the SightTracker more.
- **New ONVIF PTZ support:** Support was added for the Avigilon 2.0C-H4IRPTZ-DP30 ptz with firmware 4.10.0.38(32363) and Axis Q6315-LE with firmware 10.4.4
- **Update Core detection for HD324:** Newer HD326 models will require 16.0 firmware or greater.
- **Improve low contrast detection for objects close to the camera:** Only cameras using the Coordination System will be affected by this improvement.
- **Bugfix - WebConfig not displaying error when booting to incorrect bootslot:** WebConfig should now correctly display an error in the Maintenance page when the device does not boot to the selected slot.
- **Bugfix - Fix a watchdog event triggered by sluggish motion on event servers:** MotionOnEventServers using http(s) protocols need to respond within 14 seconds. The SightLogix device will now terminate the connection at this point instead of risking a watchdog event.
- **Bugfix - Apply Template:** Template restore should no longer change the calibration method to IMU. It will now correctly leave the calibration method along when applying templates. Manually created templates will no longer require the ignored Zones field.
- **Bugfix - XML metadata:** SightTracker should produce tracking information more quickly on XML metadata stream.
- **WebConfig service upgrades:** Upgrades to modernize various packages supporting WebConfig.
- **Upgrade communications packages:** Openssh 8.3p1 and openssl 1.1.1k.
- **Stability improvement:** fix an issue causing rtsp service to crash sometimes when the timezone wasn't set.

SightMonitor II - 1.1.0

- **Exclusive Access:** Exclusive access mode prevents configuration access from outside SM2. This access is tied to the License key. Users with existing SM2 installations will need to contact SightLogix support to request an updated license file in order to use this feature. This feature requires cameras to have 16.0 or greater firmware, otherwise they will not block administrative tasks.

- **Audit Feature:** Devices with firmware 16.0 or greater will include the device's administration log file in backups taken through SM2.
- **User Control:** SM2 now supports an arbitrary number of users with chief, admin and guard user levels. Chiefs have full control, admin's can administer cameras, while guards can only view camera alarm target information.
- **Device view cones update in realtime:** SightSensor and SightTracker cones should now update in real time in SM2 map.
- **Password requirements and change:** SM2 now has a required password complexity and require periodic change settings for passwords.
- **Automatic Backups:** SM2 now encrypts automatic backups. There is a new export backup function to extract these backups into a folder on disk. The date of the last backup now shows in the device's hover text.
- **View on Sitemap:** Users can now right click a camera and select View on Sitemap to highlight the specific camera.
- **Set Camera Credentials:** A new feature to set camera credentials from inside SM2 allows resetting credentials to groups of cameras. Group credential set and group template set will require device firmware 16.0 or greater going forwards.
- **SightLogix CA Certificate:** SM2 now prompts for permission to install the sightlogix self signed CA for HTTPS access to cameras through chrome and edge browsers.

Coordination System - 15.12.23

- **CVE-2020-1938 "Ghostcat" mitigation:** Port 8009 is no longer used mitigating CVE-2020-1938.
- **Coordination System no longer includes firmware files:** Starting with device firmware 16.0, Coordination system will no longer include new firmware updates inside the installer. Users can still place new firmware files on disk to upgrade devices.

Current Video Management Systems Supported

SightLogix SightSensors have been qualified with the following systems (SightSensor HD has been qualified with those noted, along with the VMS version):

- 360 Surveillance
- Aimetis Senstar Symphony 7.1.0.1
- AMAG 6.2
- American Dynamic Intellex IP
- Avigilon (HD v6.2.2.4, 6.8.4.0)
- Bosch DiBos
- Bosch BVMS 4.5.1 (SightSensor HD: v 7.5 & 8.0)
- Cisco
- Dedicated Micro
- DVTEL 5.3
- DVTEL 6.0
- Exacq Vision 8.4.2.111578, 9.2.2.129658
- Genetec 4.8, Omnicast 4.8 and Security Center 5.5 (HD visible), 5.8 (HD both streams)
- Geutebrück 6.0.880.282
- Honeywell DVM
- Honeywell Enterprise
- Honeywell NVR 2.0 Build 22
- IndigoVision Control Center 12, 15.1 (HD)
- Intellex IP
- Intergraph
- Lenel OnGuard 2010, 2012 NVR 7.2
- Luxriot (HD 2.5.8), EVO 1.6.0
- March Network Command 1.5 & 1.6, 2.1.0.63
- March Network VideoSphere 5.6.1.0561
- Milestone Enterprise (HD v10.0a)
- Milestone Corporate
- Milestone XProtect v11.3, R3 2017
- NICE 10
- Nice 11 Release 10
- ONSSI Netguard , EVDMS 8.6a Occularis 3.0
- OpenEye 1.8.0.8271
- Panasonic
- Pelco Endura
- Proximex
- Sony RealShot Manager
- SWI System with Intelligence Inc.
- SureView IMMX
- Verint Nextiva (HD v6.4)
- Viconnet
- VideoNext

Archive of Previous New Firmware Features

Release 15.x added the following new functionality to SightLogix firmware (including WebConfig). These features apply only to 15.x firmware, unless explicitly noted otherwise.

- **Add support for new HD and TC lenses:** Select SightSensor HD and TC cameras include a new lense model. These cameras (HD260, HD355 and TC62) will require 15.12.238 or greater firmware if they use the new lenses. New cameras that use the new lense will ship from the factory with the required firmware.
- **Fix PTZ detection problem in 3rd party tested units:** Axis Q6055-E and Q6155-E are now explicitly detected. This fix was left out of 15.12.239, users of this PTZ will need 15.12.240 or greater.
- **Update thermal core support for SightSensor HD236:** SightSensor HD236 cameras manufactured after December 2020 require 15.12.237 or greater. Customers are reminded to never downgrade past original shipping firmware.
- **Fix for HD startup issue:** Fixed an issue where HD236 and possibly other HD products occasionally have watchdog events when booting 15.12.230 firmware. When upgrading any HD to 15.12.232 or newer, users should make sure they reboot the SightLogix device once more, as burning a second slot would satisfy this extra reboot requirement.
- **SightSensor HD260-220:** Support has been added for SightSensor HD260, which has a 60-degree field of view. You must have FW 15.12.230 or newer.
- **Disable TLS 1.0 and 1.1:** Removed support for deprecated TLS 1.0 and 1.1 from https connections.
- **Improved WebConfig username restrictions:** WebConfig will no longer allow " and / characters in usernames which cause SightMonitor II not to open WebConfig.
- **New ONVIF PTZs supported:** Support was added for Axis Q6215-LE, Hanwha XNP-6550RH, and Pelco P2230-ESR.
- **Dual Sensor Analytics Improvements:** When a scene is very active, frames between sensors can become out of sync resulting in some missed detections. This was most visible in the TC640 product due to heavy CPU load. This problem is fixed in TC and HD models.
- **Expanded UlisseCompactDelux Detection:** IP PTZ UlisseCompactDelux parameters should get detected with more model numbers.

- **Debug report improvements:** Debug report now contains additional information relating to PTZ logging.
- **Support for VideoTec NXPTZ:** Analog PTZ NXPTZ from Videotec is now supported with trackers running 10.10.85.
- **Dual Sensor Analytics is now enabled by default:**
  - New SightSensor HD and SightSensor TC cameras from the factory will default to DSA: Low False Alarm mode.
  - Existing cameras where the user **has not** modified the DSA mode will change to DSA: Low False Alarm mode upon firmware upgrade.
  - Existing cameras where the user **has** modified the DSA mode will retain their current setting upon firmware upgrade
- **SightSensor TC improvements:** Improved detection tuning for SightSensor TC. SightSensor TC also has various stability improvements. Visible core firmware is also upgraded.
- **SightMonitor II Backup feature:** SightMonitor II will now automatically backup all cameras when the administrator logs out or is logged in at 3am.
- **Miscellaneous SightMontor II new features:** Auto login to WebConfig, Grid has 100m and 20m options, better error reporting for corrupted firmware files, improved upgrade firmware checking and error reporting, support for device templates, group device credential changes, and support for https (default) communication with cameras.
- **Improved SureView communication in low bandwidth environments:** Communications timeouts have been adjusted to work better when upload speeds are severely limited by end user networks. The camera is now capable of uploading a clip to SureViewover a period of three minutes (180s). Long uploads will cause alarm delays and may cause subsequent alarms to be suppressed as the camera is not capable of queueing more than one clip for upload. Customers are recommended to size bandwidth requirements so that clips upload in 20s at most (roughly 4 mbps per camera with default settings). For additional information, refer to the [SureView setup instructions](#) in the SightLogix portal.
- **SureView clip statistics report:** The is now a "Clip Bandwidth Stats" button on the WebConfig Device page which produces a report containing information about SureViewclip upload sizes and times. This is helpful for determining if end user upload bandwidth is sufficient for effective monitoring.

- **SightSensor HD2XX False Alarm:** When temperature changes, SightSensor HD2XX could generate a false alarm after NUC. This problem has been corrected in FW 15.12.163.
- **Dual Sensor Analytics:** SightSensor HD and TC now have the ability to use the visible image to improve daytime detection. This feature can be turned on in WebConfig's Device page by turning on Dual Sensor Analytics. High Sensitivity and Low False Alarm modes are available. Low False Alarm mode should be used when High Sensitivity mode causes significant false alarms.
- **Disable Heater:** There is now an Enable Heater checkbox which, when disabled, will prevent the heater from engaging when the camera is powered by AC/DC.
- **SightSensor HD395-220:** Support has been added for SightSensor HD395, which has a 95-degree field of view. You must have FW 15.12.163 or newer.
- **Horizon in Quick Calibration:** In WebConfig's Quick Calibration page there is now a thermal image with the horizon drawn on it. This can be helpful for determining when the tilt sensor needs tuning and as feedback for such tuning.
- **Edge Recording:** Newer cameras equipped with SD card readers can use the new Edge Recording feature. Users can insert an SD card in the back of the camera and then schedule and view recordings on the "recording" tab of WebConfig. Please note this feature is not available for SightTracker. A setup guide for Edge Recording is also available.
- **Detection improvements:** Detection algorithms have been improved for some situations.
- **Image stabilization improvements:** The algorithm detecting whether to use image stabilization or gyro stabilization has been improved. New messages are now temporarily displayed in the thermal image when the stabilization method changes.
- **Increase shutter drive strength for 640 SightSensor:** Increase shutter drive strength to minimize stuck shutter issue for 15.x and 10.x firmware. (This change was not present in 15.12.7)
- **Edge Recording Bug Fixes:** Various bugs were fixed related to edge recording. Bytes written should now match expected bytes written to card based on bitrate. Card formatting should happen more reliably now. A bug was fixed that caused the items in the recording list to sort incorrectly.
- **Rules/Policy Page Bug Fixes:** It was possible to get the WebConfig UI into an inconsistent state where the rules page shows a rule from policy A but the rule

would actually be associated with policy B. Blank fields in the rules editor now have better explanations.

- **Exacq:** Allow Exacq new cookie scheme which caused intermittent connection issues and could cause alarms to get missed. Also fix a recording gap problem. This fix requires the upcoming Exacq 20.03 point release expected March 2020. Before this release Exacq customers can request the unreleased server version 19.12.106.0 which SightLogix has tested against.
- **Memory Settings:** Memory settings have been changed. This was causing occasional dropped frames in compute-heavy situations when recording.
- **Unicast variable not being reset with factory defaults:** Fixes the problem where Unicast variable was not being reset during a factory reset.
- **Support Script:** SightLogix Support now has the ability to supply custom scripts for debugging/fixing problems from the Maintenance page of WebConfig. This feature was added in version 15.12.130.
- **Devel Page not redacting some variables:** Devel page should redact sensitive variables; some new variables were not being redacted.
- **WebConfig policy editor can show visible or thermal image:** Dual imager products now have the ability to draw policies on visible or IR image. Users can toggle the displayed image using "Use Visible Background" toggle button. This image is cropped to show the detection portion of the visible image.
- **Zone rendering can be disabled on visible image:** Dual imager cameras can now have the zones drawn on the thermal image but not on the visible image. There is now a checkbox "Disable Visible Zone Overlay" on the MPEG page in WebConfig.
- **OpenSSL / SSH security improvements:** Removed weak ciphers and upgraded OpenSSL and SSH programs. Upgrading SSH disabled CBD and Arcfour ciphers. Web Server mitigations implemented against Ticketbleed (CVE-2016-9244), SWEET32 (CVE-2016-2183, CVE-2016-6329), LOGJAM (CVE-2015-4000), RC4 (CVE-2013-2566, CVE-2015-2808), BEAST (CVE-2011-3389), removed low encryption strength ciphers. This change breaks backwards compatibility with older firmware SightTracker. See known issues below. HTTPS certificate signing algorithm has also been upgraded to SHA-256.
- **Zero-config fallback:** It is now possible to hook multiple unconfigured cameras on the same network and discover them with zeroconf/avahi DNS-SD. The camera will now adopt a 169.x address whenever the 192.168.0.99 address is active. This allows multiple cameras to boot in fallback mode on the same network segment.

- **Fallback IP condition modification:** Fallback IP, 192.168.0.99, is no -longer disabled on WebConfig Login. Fallback will trigger if: 1) the camera is in DHCP mode and the CS has never been connected camera is in DHCP mode or 2) the camera is in DHCP mode and the user has not clicked save to change settings via WebConfig. If the camera is not in fallback mode and no DHCP server is available it will reboot continuously until a DHCP server is found. Users should configure the network as the first task after connecting to WebConfig on 192.168.0.99.
- **WebConfig refuses to downgrade before WebConfig feature was added:** WebConfig firmware upgrade feature checks version and will not allow a firmware change to a version without WebConfig support.
- **HTTPS ONVIF:** Support was added for using the cameras ONVIF interface while the webserver is in HTTPS only mode.
- **ONVIF name is now editable:** ONVIF now uses the CameraName field when reporting the name of the camera through the onvif interface. This field is editable through WebConfig.
- **Capture debug information**: A button has been added to the WebConfig maintenance page and devel page "Capture Debug Information" to ease support communications. The user will be prompted for the camera password after clicking this the devel page link.
- **H.264 parameter change bug fix:** A bug was fixed which caused an H.264 glitch when input parameters were changed. If users selected a different bitrate between alarm and non-alarmed states for example. This glitch could cause BVMS viewer to crash.
- **SightTracker backup restore not restoring min/maxFOV:** A bug was fixed where min/maxFOV was not always restored when restoring from a WebConfig backup. New backups will behave correctly as of 15.12 firmware. Previous backups can be restored twice to get the correct min/maxFOV.
- **SightTracker has more options for Target Zoom:** SightTracker target zoom now has more options which will allow better fine tuning of how close trackers zoom their PTZ's.
- **CS not able to change poleheight:** A bug in firmware was fixed which prevented the camera height from being modified by the CS in some cases.
- **Fix IE11 login problem:** Previous versions of WebConfig had a problem which prevented IE11 users from logging into the camera, this has been fixed.

- **Fix WebConfig not showing errors properly:** After reverting changes in WebConfig configuration errors were not being properly displayed. Sometimes save/revert buttons were not showing after changing fields.

Upgrading to the New SightLogix Enterprise System

If you have an existing SightLogix system, do the following to install the new software—both the server (Coordination System) and client (SightMonitor)—over an existing installation:

- **Backup current settings.** This step is optional but recommended (current alarm policy and other information is not overwritten during an upgrade). See Chapter 5 of the System Manual for details.

- **Follow the upgrade steps** as described in the SightLogix Support Portal: http://portal.sightlogix.com/help/upgrading-cs-and-firmware

Known Issues in SightLogix Enterprise system

When using this release, please note the following:
- Edge Recording: Sometimes when playing back recording video at 16x the video will not play. Users can manually seek to resume expected fast playback.

- When a user downgrades firmware using WebConfig earlier than 15.12 they will see the login message saying a CS was previously connected even though this was not the case. Users can click the force login button and continue login.

- Backup/restore testing has been stopped for 15.6 backups. Restoring to 15.12+ firmware. Customers can restore to 15.10 firmware and then upgrade to 15.12.

- Cameras with the new SD card readers are not compatible with firmware in the 15.8 major release, as it causes cameras with the SD reader to become unstable. WebConfig will refuse to load these firmwares, but CS will continue to load them. If users end up with 15.8 on a camera with the SD card reader and they perform a Factory Reset, the camera will slowly reboot for 30 minutes before entering safe mode. The camera can then be recovered by upgrading to a supported firmware. Users are encouraged not to downgrade new cameras that include the SD card reader.

- A condition has been identified where rules disappear when the SightLogix service restarts because of a CS computer reboot, CS upgrade or manual service restart prior to 15.10.6. When upgrading beyond 15.10.2, previously lost rules will reappear which may be old version of rules or duplicates. If users would like to maintain the current state of

devices and CS, they should use the following procedure when upgrading from versions before 15.10.6: 1) in SightMonitor execute a Backup Database Now from the edit menu 2) shutdown SightLogix system service 3) replace the active database from the backup just created 4) perform the CS upgrade using the installer. This will ensure that camera behavior with regards to rules is maintained through the upgrade process.

- SightSensor TC requires this version of firmware, 15.10 or later. Running older versions of firmware on the new SightSensor TC will cause functional problems.
- IndigoVision Firewall Friendly video connection method is currently unable to connect. It is recommended that the default mode be used (Reliable).
- Milestone Xprotect is unreliable connecting using Legacy Axis 211 (MPEG4 RTSP over HTTP). It is recommended that the camera be added using mjpeg in Legacy Axis 211 or using ONVIF mode.
- The Geolocate button on the DEVICE page of WebConfig has been removed. This button was primarily used for scheduling nighttime use of LED illumination; however since the introduction of "Auto sense with LED" mode, this Scheduled mode is obsolete. To continue using Scheduled mode, calibrate using the GPS Map Calibration or enter GPS position to enable calculation of Sunrise and Sunset.
- SightTracker WebConfig sometimes requires a reboot after changing the PTZ configuration. The "Reboot Camera" action can be initiated from the MAINTENANCE page. After changing SightTracker configuration, fake targets should be generated from associated SightSensors using "Test Mode" on the CALIBRATION page. If the fake targets do not cause the PTZ camera to move, you should initiate a reboot of the SightTracker.
- SightSensor HD, and future SightSensors with firmware 15.12 or later that are used with SightTrackers MUST be used with firmware 15.12 or later on the SightTracker. Earlier versions of SightTracker code will fail to successfully associate with the SightSensor devices. The SightTracker syslog will show repeated SSL errors from targetd process every. SightTrackers with 15.12 are compatible with all versions (15.12 and older) of SightSensor and SightSensor HD. SightTrackers running 10.x series firmware should also be upgraded to the latest release (10.10.79) when used with SightSensors running 15.12 firmware. 15.6 includes another similar incompatibility boundary.
- Two concurrent WebConfig users are able to login; however, changes made by one user may be undone by Save operations of the other.
- After changing the frame rate (MPEG tab of SightMonitor Configuration window), the length of the next clip delivered may be shorter than expected. Subsequent clips will have the correct length.

- After installing SightMonitor client software, the server firewall must have the appropriate exception rule added before the client can connect. Add incoming tcp rule for specific port 8443.
- Currently this release of SightLogix Coordination System requires that the user select the correct firmware image for the target hardware device. For cameras with 15.x firmware select version 15.x, for cameras with firmware 10.x select version 10.x; for cameras with previous generation firmware select version 5.x.
- When adding a previously configured camera which has been assigned custom Administrator Access username / password, the user must add these credentials to the Site Configuration template before an Add Camera operation will succeed. If the username and password are unknown, the camera can be added after it is reset to default state.
- In the Calibration window of SightMonitor, when entering calibration point information, cancelling from a save, after a warning about out of range values, the bad value should be reverted to the currently saved value. However, the fields retain the bad value. User should close and re-open the Calibration window to refresh values.
- SightTracker does not properly display "PTZ not connected" error message in debug video stream. Users should manually refresh PTZ page in WebConfig to determine dome connection status.
- Exacq as of version 9.8.4 no longer understands alarm signals from a SightLogix camera added in Vapix mode. Customers are encouraged to add cameras in Onvif mode. The last known version of Exacq where this feature was working is server version 8.4.2.

3rd-Party Known Issues with SightLogix Enterprise System

When using this release, please note the following:
- If a user has added, used, and then removed the SightLogix self signed Certificate authority with Google Chrome, subsequent usage of HTTPS WebConfig interface may not work correctly until the relevant browser cache is cleared. Users can open chrome settings and go to clear browsing data or re-install the SightLogix self signed CA.