VIVOTEK
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# Release Note

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|---|---|
| Product Name: | < SD9384-EHL > |
| Release Version: | < 1.2602.35.01c > |
| Date: | < 2026/07/17 > |
| Product Type | ☒ Camera ☐ NVR ☐ Software |

## New Feature:

- Added support for RealSight Auto Focus for PTZ cameras.

## Changed Feature:

- Added RTSP/RTSPS session timeout configuration.
- Added weak certificate blocking conditions and warning messages in Camera Certificate Management.
- Enhanced operator permission controls to allow detailed privileges to be granted or revoked.
- Added event log alignment for Tampering, Audio Detection, and Shock Detection.
- Changed image operation behavior to remove affected VCA rules when video mode, mirror, flip, or EIS settings are changed.
- Added support for customizing camera branding, including theme, logo, logo link, background image, browser tab title, and favicon.
- Changed the default hostname format from extended model name to model name-MAC address for easier camera identification.

## Pre-view Feature:

- N/A

## Bugs Fixed:

- Fixed an issue where audio in recordings stops after 10 seconds.
- Fixed an issue where date-time overlay will disappear after a reboot when the "Zoom factor display" is disabled.
- Fixed an issue where stream1 and stream2 displayed greenish images.
- Fixed an issue where the camera experiences disconnections on VSS.
- Fixed an issue where the camera happens disconnection associated with a memory leak condition.
- Fixed an issue where the SDP returned by the RTSP server should not include audio track information when the camera does not support audio.
- Fixed an issue where the audio file cannot be played completely on the camera.

## Relevant module and package information:

- Web API version 0331c
- VADP version 1.6.1.1
- Stratocast version 1.xx.a1.6.0
- Trend Micro pkg version 1.3g.a2.14.0_1.097
- Genetec Protocol version v3.0.3.6
- Onvif version 25.06
- Smart Tracking Advanced v7.16.12.1
- Event action through Http/Https 1.4.6

## Known Issue:

- Privacy mask alignment issue: when the drawn box is positioned outside the central area of the camera's field of view, there may be a discrepancy between the drawn box and actual effective position.
- PTZ adjustment with maximum zoom: at maximum zoom levels, when drawing a privacy mask, changes in the camera's pan, tilt or zoom settings may cause objects that should be obscured to become visible.
- EIS adjustment requirement: when EIS is enabled, due to changes in the field of view, it may be necessary to reset the privacy mask.

## Limitation:

- N/A

## Important Notice:

- N/A

## Release Version: <1.2601.35.01f>
## Date: <2026/05/29>
## New Feature:

- Transitioned from the legacy Camera web interface to an enhanced version, now supporting H.265 and AAC playback over secure HTTPS connections. (Web API 0326b)
- Extended the Camera Event action to include support for HTTPS connections, in addition to the existing HTTP support. (Web API 0326b)
- RTSP Encryption over TLS. (Web API 0327d)
- Supported SNMP Traps: (Web API 0327d)
    - Rebooting

- Booted
- Alive
- Audio Detection
- Shock Detection
- Tampering Detection
- Motion Detection

- SNMP MIB Extensions: (Web API 0327d)
  - SD Card Usage:
    - SD Card Mount Status
    - SD Card Total Size
    - SD Card Free Space
    - SD Card Life Expectancy
  - Video Information:
    - Video Resolution
    - Video Codec
  - Health Monitoring:
    - CPU Utilization
    - RAM Usage
    - Configuration Changes (Time of last modification)
    - Recording Status (Indicates whether recording is active)
- Event Actions improvement: (Web API 0327d)
  - Support for HTTP and HTTPS servers
  - GET and POST methods supported
- Enhanced event integration with Genetec through standardized video analytic event (Web API 0328d)
  - Missing detection → object removed
  - Loitering detection → loitering
  - Intrusion detection (true) → object entered
  - Intrusion detection (false) → object exited
  - Unattended object detection → object left
  - Line crossing detection → object crossed line
- Smart SD event integration with Genetec through custom event (Web API 0328d)
  - SD card ejected
  - SD card error
- Administrators can now enable or disable user accounts directly on the camera, improving account-level access control and system security. (Web API 0328d)

## Changed Feature:

- Default maximum number of groups for media profile. (Web API 0327d)
- Fast Preset Transition(Zoom) with Freeze Image During Patrol. (Web API 0327d)
- Increased the file upload limit from 256MB to 512MB. (Web API 0327d)
- Removal of G.726 Support in Camera Web Audio.
- Removal of support for displaying the red box indicating motion detection on the Motion Detection page when using an HTTPS connection.
- Added support for removing DHCP/Fixed IP settings via configuration file. (Web API 0328d)
- SmartSD will remount as read-only when either SpareBlockRate > 90% or Lifetime > 90% is reached, ensuring data integrity. (Web API 0328d)
- Supports exporting application logs to a centralized syslog server for unified monitoring. (Web API 0328d)
- Server status reports are now encrypted when exported to enhance data security. (Web API 0328d)
- Includes query history in the audit log for improved traceability. (Web API 0328d)
- Limits RTSP and SIP connections when the camera is in factory default mode to enhance security. (Web API 0328d)
- During patrol, the camera supports fast pan/tilt transitions while freezing the image to provide a smoother viewing experience. (Web API 0328d)
- MAC address filter support for enhanced network access control. (Web API 0329d)
- Nginx limit control and security header improvements. (Web API 0329d)
- Updated OSS modules to address CVE risks up to 2024. (Web API 0329d)
- A new restore method is available to wipe all user data. (Web API 0329d)
- UPnP presentation is now disabled by default. (Web API 0329d)
- CSRF protection has been extended for improved security. (Web API 0329d)
- System log now supports type filtering. (Web API 0329d)
- First login security enforcement and password expiration policy for account management. (Web API 0329d)
- Added an option to disable Web interface access to the camera Web UI. (Web API 0330d)
- Enhanced remote log server to support TLS and up to two log servers. (Web API 0330d)
- Updated system log format to follow RFC5424. (Web API 0330d)
- Added an option to configure whether Audit logs are merged into System logs. (Web API 0330d)
- Introduced configurable system log levels with the following levels: (Web API 0330d)
    - 0: LOG_EMERG – system unusable
    - 1: LOG_ALERT – action must be taken immediately

  - 2: LOG_CRIT – critical conditions
  - 3: LOG_ERR – error conditions
  - 4: LOG_WARNING – warning conditions
  - 5: LOG_NOTICE – normal but significant condition
  - 6: LOG_INFO – informational messages
  - 7: LOG_DEBUG – debug-level messages
- Enabled idle timeout return to the previous action or preset point. (Web API 0330d)
- Enabled rule-free metadata output. (Web API 0330d)
- Enabled area zoom for Milestone integration. (Web API 0330d)
- Added WebSocket-based real-time status handling for VADP package upgrade. (Web API 0330d)
- Introduced custom language support on the Web portal. (Web API 0330d)
- Introduced content search on the Web portal. (Web API 0330d)
- Auto Tracking for Camera Link is no longer supported. (Web API 0330d)
- Added an Enforce HTTPS only option in Factory Mode, allowing users to restrict Web access to HTTPS only. (WEB API 0330d)
- Upgrade SMART SD and add support for SanDisk Video VD QD131 (SDSDQAS5-256G/512G/1T00/1T50) and Video VD QD111 (SDSDQAS4-032G/064G/128G) MicroSD cards.

## Pre-view Feature:

- N/A

## Bugs Fixed:

- Fixed CVE-2024-6387, An unauthenticated code execution vulnerability in OpenSSH.
- Fixed an issue where missing newline characters in the certificate would result in an "Invalid public key" status after upload.
- Fixed an issue that the camera switches between day and night modes at night after a firmware update.
- Fixed an issue where Dynamic Text Overlay did not display special or non-ASCII characters correctly on the OSD.
- Fixed an issue where the camera would display a "500 Internal Server Error" when the power supply was insufficient.
- Fixed an issue in the camera firmware with the bundle Genetec Protocol version before 2.2.5.1, which caused the camera to go offline from the Genetec Security Center unexpectedly.

- Fixed an issue that motion artifact appears on decoded H.264 RTSP streaming after the camera reboots.
- Fixed an issue that the camera's IP address will be set to 0.0.0.0, after adding Genetec.
- Fixed an issue that Smart Motion Detection angle becomes -999 after upgrading firmware.
- Fixed an issue where the camera might occasionally experience drops off in the FLIR system.
- Fixed an issue where a potential clickjacking vulnerability in the web application was identified by a security scanning tool.
- Fixed an issue where the camera's webpage did not respond after port forwarding a newly added camera in the NVR.
- Fixed an issue where using a lowercase "t" in the Text String under Overlay Settings, with Text Type set to Customized, caused the time format to switch to 12-hour.
- Fixed an issue where the camera becomes inaccessible after working with Milestone via ONVIF for an extended period.
- Fixed an issue where the camera could disconnect from the third-party CMS when the CMS simultaneously sent a large number of audio-related requests.
- Fixed an issue where the camera link status remained displayed as "HTTP transmission failed" when the network response time was slow.
- Fixed an issue where the camera did not return to an online status in Nx Witness after it was power-cycled.
- Fixed an issue where the camera's actual time and NVR recording time mismatch.
- Fixed an issue where PTZ stopped working after a while.
- Fixed an issue where the event schedule is set to "Always" if the server name includes special characters.
- Fixed an issue where the camera was unable to send VCA events to Nx Witness after being connected for a period of time.

## Relevant module and package information:

- Web API version 0330d
- VADP version 1.6.1.1
- Trend Micro pkg version 1.3g.a1.14.0_1.095
- Genetec Protocol version v3.0.3.6
- Onvif version 25.06
- Smart tracking Advanced 7.15.3.2
- Event action through Http/Https 1.4.6

## Known Issue:

- Privacy mask alignment issue: when the drawn box is positioned outside the central area of the camera's field of view, there may be a discrepancy between the drawn box and actual effective position.
- PTZ adjustment with maximum zoom: at maximum zoom levels, when drawing a privacy mask, changes in the camera's pan, tilt or zoom settings may cause objects that should be obscured to become visible.
- EIS adjustment requirement: when EIS is enabled, due to changes in the field of view, it may be necessary to reset the privacy mask.

## Limitation:

- N/A

## Important Notice:

- Starting from FW2601, the downgrade policy has been updated on affected platforms due to security and firmware verification changes.
    - Devices running FW2601 can be downgraded directly only to versions between FW2502 and FW2301.
    - Direct downgrade from FW2601 to FW2204 or earlier is not supported.
    - To downgrade to FW2204 or earlier, please first downgrade to a version between FW2502 and FW2301 and then continue downgrading to the target version.
- Starting from FW2601, Auto Tracking for Camera Link is no longer supported. Please verify deployment and integration behavior if this function is currently in use.

## Release Version: <1.2401.35.01e>
## Date: <2024/08/23>

## New Feature:

- Unified management for encryption certificates enhances security, simplifies operations, and supports setting certificate expiration notification events (new web interface only). (Web API 0325c)

## Changed Feature:

- Support new stream overlay settings (new web interface only): (Web API 0325c)
    - Image overlay

- o Live streaming indicator
- o Dynamic text overlay

## Pre-view Feature:

- Add the ability to enable the new web interface.

## Bugs Fixed:

- Fixed an issue when the camera sets the codec to H.265, it cannot get any streams from ONVIF clients/devices.
- Fixed the issue that network connection works abnormally after importing configuration file exported from another camera.
- Fixed an issue where the camera would show as disconnected in tour view.
- Fixed an issue where the recorder could not function when using the old interface for recording integration.

## Relevant module and package information:

- Web API version 0325c
- VADP version 1.5.1.2
- Trend Micro pkg version 1.3g.a1.10.0
- Genetec Protocol version v3.0.2.1
- Onvif version 23.12
- Smart tracking Advanced 7.11.5.3-3e

## Known Issue:

- Privacy mask alignment issue: when the drawn box is positioned outside the central area of the camera's field of view, there may be a discrepancy between the drawn box and actual effective position.
- PTZ adjustment with maximum zoom: at maximum zoom levels, when drawing a privacy mask, changes in the camera's pan, tilt or zoom settings may cause objects that should be obscured to become visible.
- EIS adjustment requirement: when EIS is enabled, due to changes in the field of view, it may be necessary to reset the privacy mask.

## Limitation:

- N/A

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# Release Note

**Release Version: <1.2303.35.01e>**
**Date: <2024/04/01>**
**New Feature:**

- Support for account block to deny consecutive invalid access during a configurable time period on the user account page. (Web API 0322c)
- Support for audit log related to security events on the system page. (Web API 0322c)
- Support for session timeout to protect further access by initiating a session lock after a configurable time period of inactivity on the miscellaneous page. (Web API 0322c)
- Support for configurable password strength. (Web API 0322c)
- Support for display a system use notification message before authentication. (Web API 0322c)

**Changed Feature:**

- Support Https certificate CSR and private key upload method. (Web API 0320a)
- Support MPEG-2 AAC-LC audio type. (Web API 0320b)
- Support NTP server redundancy. (Web API 0320a)
- Support Missing Object Detection. (Smart Tracking Advanced version VCA-7.5.0.0-3e or above version)
- Support Unattended Object Detection. (Smart Tracking Advanced version VCA-7.5.0.0-3e or above version)
- Support MPEG-2 AAC-LC with Genetec. (Web API 0321a)
- Upgrade SMART SD and add support for Micron i400 series MicroSD card. (Web API 0322c)
- Support IEEE802.1x with TLS v1.2 and deprecation of TLS v1.0/v1.1. (Web API 0322c)
- Support for PTZ control mode with Click on image, Joystick and Areazoom. (Web API 0322d)
- Support for TLS 1.3 for Https and IEEE802.1x. (Web API 0323c)
- Support for configuring pre-event and post-event snapshots at up to 5 frames per second. (Web API 0323c)
- Add the ability to disable secondary Http port. (Web API 0324b)
- Support new stream overlay settings: (Web API 0324b)
    - New date/time format
    - New custom text format
    - New font size and color
    - New background color
    - Support transparency
    - Support custom positions
    - Support multiple text lines
- Update openssl to version v3.0. (Web API 0324b)

- Support for activating smart tracking once or always tracking for camera link. (Web API 0324b)
- Support for drawing polygon privacy masks for speed dome cameras. (Web API 0324b)

## Pre-view Feature:

- Add the ability to enable the new web interface.

## Bugs Fixed:

- Improved compatibility of Aimetis Symphony back-end system.
- Corrected rare occasional no effect for Smart Codec.
- Fixed devices stopped sending Genetec motion events after an SD card error.
- Fixed after uploading the configuration, the camera angle will be -999.
- Fixed a potential motion area issue when ROI home is set to 0 under ePTZ.
- Fixed the camera's probabilistic occurrence of showing a 500 server error when utilizing CGI commands to capture images.
- Fixed the camera randomly disconnecting and showing an abnormal live view when added to VAST2.
- Fixed no image after power loss or disconnection from the network if the camera is set to use ONVIF H.264 High profile.
- Fixed an issue when editing camera link configuration and clicking test function, it shows fail.
- Fixed an issue that the network QoS settings cannot be saved in the camera web UI.
- Fixed an issue where the camera's network would fail and return to normal after unplugging the SD card.
- Fixed an issue where, when adding a camera to VAST 2 and enabling seamless recording, after rebooting the camera or upgrading its firmware, VAST 2 might not be able to receive the stream from this camera.
- Fixed an issue that after adding the camera to Qognify, it is unable to connect properly using RTSP over HTTP.
- Unable to move to preset point using ONVIF connection.

## Known Issue:

- N/A

## Limitation:

- N/A

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# Release Note

## Important Notice:

- Not support Safe100.net DDNS server.
- Not support express link.

## Release Version: <1.2201.35.01j>
## Date: <2022/11/16>
## New Feature:

- Support SRTP on Genetec security center. (Web API 0319a)
- Support Genetec Certificate management. (Genetec SC#5.11 or above)
- Support preset & patrol setting on live view. (Web API 0319a)
- Upgrade smart tracking advanced with vehicle detection.
- Support PT auto calibration.

## Changed Feature:

- N/A

## Bug Fixed:

- Fixed the event with night motion still keeps triggering when camera is back to day mode.
- Fixed CVE-2022-0778, An infinite Loop Bug in OpenSSL.
- Fixed cannot send motion events to Genetec after a period of time.
- Fixed Security Center authorization fails when the network is unstable.
- Fixed the resolution cannot change after uploading the customer’s configuration.

## Relevant module and package information:

- Web API version 0319a
- VADP version: 1.5.1.0
- Genetec Protocol version: 2.2.4.0
- Onvif version: 21.06
- Smart tracking advanced version: 7.0.5.1-3e

## Release Version: <1.2101.35.01i>
## Date: <2021/11/8>
## New Feature:

- First Release.

## Change Feature:

- N/A

## Bug Fixed:

- N/A