



**VAST Security Station**

# VAST Security Station Release Notes

Revision Number: 1.3    Software Version: 1.3

**VIVOTEK**  
A Delta Group Company

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## Upgrade Consideration for VAST 2 Users

- The license mechanism has changed from VAST 2. The previous VAST 2 license will be invalid after upgrading to VSS. A corresponding new VSS license is required for each VSS edition. Contact your distributor or VIVOTEK sales representative for new licenses before you upgrade to VSS.
- 32-bit systems are no longer supported in VSS. The installer will only run on 64-bit operating systems.
- Please refer to the How to Migrate to VSS Instruction Manual before upgrading from VAST 2 to VSS - Available at <https://www.vivotek.com/vast-security-station#support>.

## Documents

The user manual and datasheet are available at <https://www.vivotek.com/vast-security-station#support>.

## System Specifications and Requirements

System specifications and requirements are available at <https://www.vivotek.com/vast-security-station#specifications>.

## VSS 1.3.0.1100 – Sep 30, 2024

### Release Summary

This is the first release of VSS version 1.3, which introduces significant enhancements and new features. Key highlights include:

- CMS-Driven Remote Software Upgrade for VSS Substations (Pro Edition).
- List Management for VVTK FR/LPR cameras (Beta, Pro Edition).
- Web Client with camera live view and control.
- Health Monitoring with new device locating features (Beta, Pro Edition).
- Upgraded software interface framework to Qt 6 for better interface compatibility.
- Enhanced security with OpenSSL 3.0 and OpenVPN 2.6.10 upgrades.

This release aims to improve system management efficiency, expand functionality, and enhance overall performance and security.

### New Features

- **CMS-Driven Remote Software Upgrade for VSS Substations (Pro Edition Exclusive)**  
Enables seamless remote software upgrades for VSS substations (including VIVOTEK NR-series NVRs, CMS Failover Servers, and Substation Failover Servers) from CMS station in VSS Pro edition, improving efficiency and reducing manual effort.
  - Notice:
    - This feature is handy for systems managed by a CMS station, ensuring that all substations match the version of the CMS station after it is upgraded. If the substation has a client installed, it will also be upgraded to match the CMS station version.
    - To maintain system-wide version consistency, when a client logs into a server with a newer version, you can download the installer from the server and manually run the upgrade.
    - The CMS station can only upgrade the substations directly beneath it. To upgrade third-layer substations, you must log in to the second layer and upgrade them from there.
    - This feature is supported from version 1.3 onwards. You must manually upgrade your entire system (both CMS station and VSS substations) to version 1.3. After this, you can use the remote upgrade feature for version 1.3.X or later.
- **List Management (Beta; Pro Edition Exclusive)**  
Provides centralized list management for VVTK FR/LPR cameras, allowing users to enroll the list with multiple cameras and set the list as an alarm trigger in the VSS Pro edition.
  - Notice:
    - Users must first add VIVOTEK's FR or LPR cameras to VSS and configure the

data source in Data Magnet.

- Users must also configure the VADP Package specific to FR and LPR cameras to ensure data is correctly sent back to the VSS Server.
  - When configuring the VADP settings for FR cameras, users must enter "VSS\_List" in the VSS event push settings category field.
- Support VVTK Camera models:
  - FD9387-FR-v2: FW version: 1.2101.37.01m or later; VADP Package version: 1.00.82 or later.
  - FD9387-FR-v3: FW version: 1.2302.37.10c or later; VADP Package version: 1.00.82 or later.
  - IB9387-LPR-v2 (N)/IB9387-LPR-W-v2(N): FW version: 1.2101.37.01m or later; VADP Package: 4.8.2.39 or later.
  - IB9387-LPR-v2 (V)/IB9387-LPR-W-v2(V): FW version: 1.2101.37.01m or later; VADP Package: 1.1.15 or later.

## ● **Web Client**

Provide a web-based client with the group view and saved view from the VSS client, allowing the user to control the camera in live view.

### ■ Notice:

- Users must first create a user account in the VSS client.
- Support Chrome/Edge only.
  - Chrome browser version 128.0.6613.114 or later
  - Edge browser version 128.0.2739.54 or later

## ● **Health Monitoring (Beta; Pro Edition Exclusive)**

Introduces a Health Monitoring service version v1.0.1.830 that includes features for easier device identification and system monitoring:

- Adds a feature that makes the NVR emit beeping sounds to help locate the device.
- Adds a feature that makes the LED lights on the PoE switch blink for easier identification.
- Add a report feature allowing users to search and export a one-month device status history.
- Notice:
  - Health Monitor service uses port 5056. Ensure this port is open for remote access in the firewall.
  - The user interface is available in English only.
- Compatibility:
  - Supported VSS/NR substations version: VSS v1.2.0.3300 or later.
  - Supported ND series NVR substations version: ND v4.6.0.4 or later.
  - Supported PoE models: VIVOCAM L2 Managed PoE Switches (e.g., AW-GEV-108A-130, AW-GEV-288A-370).

## Changed Features

- The Playback interface allows users to switch between recordings from different recording groups.
- The display name of NR-series NVR models has been updated to the format “VSS Pro (NRXXXX-XX)” for consistency with other VIVOTEK applications.

## Improvements

- **Qt 5 to Qt 6 Framework Upgrade:**

Upgraded software interface framework from Qt 5 to Qt 6 for better interface compatibility, including:

- Support for high-DPI displays, delivering smoother text and icons and enhanced camera view cell quality on 4K+ resolution displays.
- Removed the "DirectX (ANGLE)" display compatibility option in the Display Setup tool, as it is not supported in Qt 6.
- Fixed a black screen issue in VSS live view when “No resampling” was set in the image sampling method on some VM platforms.

- **Security Upgrades:**

- OpenSSL: Upgraded from version 1.1 to 3.0 for enhanced system security.
- OpenVPN Update: Upgraded from version 2.4.8 to 2.6.10, providing enhanced reliability and security. This optional update may disconnect some OpenVPN connections between ND series NVR and VSS CMS station. After updating, check the connection status in the VSS device tree and re-enable the connection from “VMS remote connection” settings on each NVR device if needed.

- **Open Source Software Notice:**

Updated the “Open Source Software Notice” and added it to the “About” page.

- **User Management**

- Improved the device multi-selection behavior in the Users and Roles feature to prevent users from accidentally deselecting previously selected devices during the operation.

- **View Cell Display Enhanced Mode**

- Enjoy improved visual clarity with the enhanced view cell display mode. This feature enhances contrast for a better viewing experience but may cause overexposure in certain scenes.

## Bug Fixed

- **Health Monitoring**

- Fixed an issue where certain operations may cause the health monitoring page to reload.
- Fixed an issue where the redundant server information shown on health monitoring was incorrect.
- Fixed an issue where the camera's recording mode from substations was not displayed correctly.

- **Counting Report**

- Fixed an issue where multiple duplicate emails were sent for the weekly report in certain situations.
- Fixed a problem where camera previews from substations were not visible in the Counting Report.
- Fixed an issue where scheduled VCA reports sent via email had no data in certain situations.

- **License**

- Fixed an issue in version 1.2.0.3300 where VAST2 licenses could not be converted to VSS licenses while migrating VAST2-embedded NR/NS devices.
- Fixed an issue where adding cameras without a MAC address caused license calculation errors.
- Fixed an issue where license data could become corrupted during installation repair or upgrade after hardware changes.
- Improved performance of the License table when the Dashboard and License Tab were used simultaneously.

- **VCA**

- Fixed an issue where Deep Search could crash under certain conditions.
- Fixed a crash issue in specific computer environments due to unsupported instruction sets used by Smart Search I.

- **Data Magnet**

- Fixed an issue where search results in Data Magnet were not fully sorted when sorting the results.

- **Failover**

- Fixed an issue where CMS could not display the recordings of some cameras under substations after failover was activated °.

- **Dashboard**

- Fixed an issue where the total camera count on the CMS Dashboard was incorrectly calculated under specific CMS/Substations structures.
- Fixed an issue where devices were shown as disconnected on the Dashboard when they were connected.
- Fixed an issue where the snooze function did not apply to cameras in certain scenarios.

- **VSS Client**

- Fixed an issue where multiple VSS clients logging into the server simultaneously could cause inaccurate camera connection/disconnection status updates.
- Fixed an issue where the auto-login setting in VSS Client was turned off after a failed login.

- **Live View/Recording/Playback**

- Fixed an issue where recordings added to Recording Group Storage using "Restore recordings from this path" could not be played back in certain conditions.



- Fixed an issue where taking screenshots in 1R view of a Fisheye camera could sometimes produce screenshots in 1O view instead ◦
- **Device**
  - Fixed an issue where configuring cameras under VSS sometimes resulted in "Failed to apply" or "VSS.exe is not responding" errors.
  - Fixed an issue where adding cameras under specific DVR models could cause inaccurate camera connection status.
- **Log**
  - Fixed an issue where duplicate VCA events appeared in logs under certain conditions.
  - Improved log search performance when dealing with large quantities of logs.
- **Email**
  - Fixed an issue where email notifications failed to send due to an SMTP server crash in certain situations.



## VSS 1.2.0.3300 – July 24, 2024

### Release Summary

This release introduces a new health monitoring feature and enhanced view cell display mode, delivering a range of improvements and bug fixes to optimize system performance and user experience.

### New Features

- Health Monitoring (Beta; Pro Edition Exclusive)
  - Gain valuable insights into the health of your system with a new bundled background service that collects data from cameras, VSS stations, substations, and managed PoE switches.
  - A web-based interface provides a clear view of this critical information, allowing you to proactively identify and address potential issues.
  - Accessing and enabling the Health Monitoring service requires Administrator permissions.
  - Health Monitor service uses port 5056. For remote access, ensure this port is open in the firewall.
  - Health Monitoring Service version: v1.0.0.705
  - The user interface is currently only available in English.
  - Compatibility:
    - ◆ Supported VSS/NR substations version: VSS v1.2.0.3300 or above.
    - ◆ Supported ND series NVR substations version: ND v4.6.0.0 or above.
    - ◆ Supported PoE models: VIVOCAM L2 Managed PoE Switches, such as AW-GEV-108A-130 and AW-GEV-288A-370.
  - More information and documentation available at: <https://www.vivotek.com/vast-security-station#support>
- View Cell Display Enhanced Mode
  - Enjoy improved visual clarity with the enhanced view cell display mode. This feature enhances contrast for a better viewing experience but may cause overexposure in certain scenes.

### Changed Features

- Mobile NVR Wi-Fi Backup (Beta; Pro Edition Exclusive)
  - Improved backup efficiency: The updated mechanism ensures that only one backup occurs for alarms with the same trigger source, even if multiple alarms are activated simultaneously.
- License Invalid Process
  - Streamlined license management. If a license becomes invalid due to hardware changes, VSS will allow you to log in to a page where you can export a license request (REQ) file containing the latest hardware fingerprint. This file can then be

submitted to the support team for evaluation.

## Improvements

- Improved error messages for failed Substation additions, making it more explicit for users to understand the reasons for failure.
- Adjusted the expiration time of SSL certificates to enhance security.

## Bug Fixed

- Resolved an issue that prevented the CMS failover server from returning to Standby status after failover, potentially causing Substation and CMS server disconnection.
- Fixed an ND-series NVR issue that caused the system to misidentify substation versions and display warning messages upon login.
- Fixed an issue where, in live view, switching from one camera to another before the first camera's feed loads might result in a perpetual loading screen.
- Fixed an issue where Shepherd could not find the installed VSS version NR-series NVR.
- Fixed an issue where, if multiple clients logged into the same server simultaneously, only one client might receive camera status change notifications (e.g., disconnection, connection, recording start).
- Fixed an issue where multiple clients operating the same IP Speaker might experience connectivity issues.
- Resolved the APP "iViewer" hanging issue that might have happened during the VSS server login.
- Fixed an issue where the Client would display a successful setup message when NAS is used as Storage in the backup function, but NAS permissions were not successfully obtained, resulting in an actual failure.
- Fixed an issue where images in the exported Counting Report might be cropped in certain situations.
- Fixed an issue where removing a camera from one of two recording groups it was added to might result in missing playback.
- Optimized Dashboard layout to prevent camera count information from obscuring when managing many stations.
- Fixed an issue where the warning message filter on the Dashboard might be unusable when the number of Stations is high.
- Fixed an issue where the Dashboard would not display camera disconnection messages under certain conditions.
- Fixed an issue where the version of the redundant server would incorrectly display as VSS Lite instead of VSS Pro when the redundant server takes over a failed Substation.

## Known Issues

- For VAST2-embedded NR/NS devices: This version cannot convert VAST2 licenses to VSS licenses. To upgrade to VSS, please first use VSS

v1.1.0.2000 or v1.2.0.2000 and then update to this version.

- Certain operations may cause the health monitoring page to reload.
- Information of the redundant server shown on health monitoring is incorrect.



## VSS 1.2.0.2000 – Apr 01, 2024

### Release Summary

This is the first release of VSS 1.2, a milestone update featuring the innovative Case Vault for Deep Search, enhanced PoE Switch integration, and PTZ functionality enhancements, alongside significant system improvements, spec changes, and bug fixes. This update is essential for all users seeking to elevate their VSS experience with cutting-edge capabilities.

### New Features

- Case Vault for Deep Search (Pro Edition Exclusive)
  - A new functionality within Deep Search allows users to organize and analyze desired footage by adding it to Case Vault.
  - Videos in Case Vault are arranged chronologically, with their locations displayed on the E-Map during sequential playback for review.
  - This feature also supports automatic PDF report generation and bulk video export based on the Case Vault list.
- PoE Switch Integration
  - Offers support for embedded PoE Web, including PoE on/off, Topology view, and traffic monitoring.
- PTZ Enhancements for VIVOTEK PTZ camera
  - Support the Area zoom within view cell.
  - Support the selection of different preset points for advanced smart tracking within view cell.
- Dashboard Enhancements
  - The storage usage panel now shows estimated remaining recording days and total recorded days for each recording group.
  - A warning message appears on the dashboard when the sum of remaining and total recorded days falls below the set retention period in recycle options.
  - Support for snooze and refresh options in warning messages related to disconnections.
- E-Map Enhancements
  - It supports importing E-Maps created at substations from CMS.
  - E-Maps imported from Substations are usable in live view, alarm, and E-Map features within CMS but cannot be edited within CMS.
- Mobile NVR Wi-Fi Backup (Beta; Pro Edition Exclusive)
  - Enables Mobile NVRs to back up specific Alarm recordings near a Wi-Fi Access Point connected to the same domain as the VSS CMS server. Currently, only System DI-triggered alarms are supported.

### Changed Features



- VSS Std Edition SPEC Change
  - Support adding ND series NVRs as substations via VIVOCLOUD.
  - The limitation of the total connected camera adjusts from 128 channels to 256 channels.
  - The free license of cameras connected under ND series NVRs increases from 128 to 192 channels.
  - Support VSS Embedded NVR Camera License for cameras connected under ND series NVRs.
- Deep Search Enhancements
  - For a better user experience, VSS introduces a new capability for the Deep Search function to prevent functionality irregularities among different software/firmware version combinations of clients, servers, and substations. This change will result in no search results for the Deep Search function if:
    - ◆ VSS clients, servers, and substations are not on the software version 1.2 or later.
    - ◆ ND series NVRs are not on the firmware version 4.4.0.4 or later.
  - The Re-Search function supports searching across cameras under supported VIVOTEK ND series NVRs with firmware 4.5 or a later version, which will be released by the end of April.
    - ◆ It is suggested not to Re-Search for more than ten cameras per ND series NVR.
- License Calculation Method Update
  - The method for calculating licenses for VIVOTEK MA series cameras connected to ND and NR series NVRs has been updated. Each MA camera device now counts as a 1ch camera license, aligning with those directly connected to the VSS Station.

## Improvements

- Added shortcuts for "Analytic Report" and "Standalone Player" applications to the Windows Start menu program.
- Introduced an API to close alarm notifications, E-Map tab, and Alarm tab.
- Seamless Recording now supports Deep Search metadata.
- The live view displays related to the Camera VCA package rule, and FOV updates are now automatically updated rather than manually.
- Optimized CGI performance for fetching Snapshots via API.
- Enhance the method for retrieving deep search screenshots from ND by switching from mainstream screenshots to sub-stream and reducing screenshot capture frequency.

## Bug Fixed

- Fixed an issue where only stream one was available for ONVIF cameras added using the "Add as offline camera" method.
- Corrected the timing of bookmarks generated by the "Unattended object detection" alarm trigger, which was previously incorrect.

- Resolved a problem where exporting video would fail when the server uses port forwarding.
- Fixed a bug where the backup function would fail if the storage path contained non-English characters.
- Addressed issues with exporting camera recordings from ND NVR being more prone to failure under limited bandwidth conditions.
- Fixed a display issue where VCA counting data would not appear on the FD8166A-S live view.
- Resolved a problem where the tracking block would not display in SC8131's live view and playback.
- Corrected an issue where cameras supporting deep search would sometimes be incorrectly shown as not supporting deep search after a camera reboot.
- Fixed a login timeout issue that could occur when the client attempted to log into the server during times of high system activity.
- Resolved a problem where some cameras could not be configured after migrating from VAST2.

## **Known Issues**

- VSS does not support use on Windows with the time zone set to UT+13:00 to +14:00.



## VSS 1.1.0.2000 – Jan 17, 2024

### Release Summary

This maintenance release of VSS 1.1 focuses on bug fixes and introduces face snapshot controls for the Deep Search function. Users encountering these issues or with privacy concerns related to Deep Search are recommended to upgrade for improved stability and functionality.

### Changed Features

- The installer process now includes the option to Enable/Disable the Deep Search function and the switch for using and storing face snapshots. This switch will only appear during a fresh VSS installation and not during upgrades.
- The Deep Search settings have a new switch for using and storing face snapshots. When upgrading from a prior VSS version, the default setting will be enabled, while for a fresh installation, it will follow the configuration set during the installer process.

### Bug Fixed

- Fixed the issue where logging into the server using the client would sometimes display "server not responding" due to an excessive number of connected substations.
- Fixed the problem with specific models of AXIS cameras, where changes in the parameters of the latest AXIS firmware caused live view and recording issues on VSS.
- Adjusted the timestamp of the bookmark triggered by the VCA event "Unattended Object Detection" to the time the event was just triggered.
- Fixed the issue where the bounding box of the triggered object in the VCA event "Unattended Object Detection" was not displayed in the view cell.
- Fixed the occasional system crash problem when using the "Send HTTP" alarm action.



## VSS 1.1.0.1000 – Oct 12, 2023

### Release Summary

This is the first release of VSS 1.1. This update brings several new features and improvements over VSS 1.0, making it a highly recommended upgrade for all existing users.

### New Features

- Sends Mobile Notification
  - Support “Send mobile notification” in alarm action.
  - Manage iViewer users in the mobile device list.
  - Available in both VSS Std and Pro editions.
  - Requires iViewer version 3.15 or higher.
- Privacy Mask on Exported Video
  - Exclusive to VSS Pro edition.
  - Applies mosaic or solid black masks to exported video clips for enhanced data protection.
  - Exported videos are compatible with most standard media players.
  - This feature will disable the ability to simultaneously use VCA metadata display, video encryption, and digital and display watermark functions.
- Re-Search for Similar Faces
  - Exclusive to VSS Pro edition.
  - Requires an update for Deep Learning VCA package to v7.7.4.4 or higher on [supported VIVOTEK cameras](#) for face detection
  - Allows users to search for similar faces by clicking on the face best shot of an object.
- Support for Virtual Machine (VM)
  - Exclusive to VSS Pro edition.
  - Support is exclusively available for VMware and Microsoft Hyper-V platforms.
- Integration with ND Series NVRs
  - Configures camera settings when using ND 9000 series NVRs with firmware version 4.3 or higher.
- Support NS9521 Series Model
  - Enables upgrading from VAST2 v2.13 to VSS Pro edition. The original number of licenses will be retained after the upgrade.

### Changed Features

- Deep Search
  - Introduces an ON/OFF toggle for the Deep Search function. For fresh installations, the feature is set to OFF by default.
  - Modifies multiple color selection search logic from "AND" to "OR" for more intuitive search results. Selecting multiple colors will list all objects that contain any of the

selected colors.

- Sets the default search time to the last hour for quicker access to recent data.
- Data Magnet
  - Adds a new type of rule trigger that supports using a mismatch watchlist.
- Recording
  - Event recording supports seamless recording.
- Counting Report
  - Changes the feature "VCA Report" name to Counting Report

## Improvements

- Security
  - Upgrades TLS to version 1.2 for enhanced security.
- IO Box
  - Adds online/offline status display for better monitoring.
- Dashboard
  - Network usage panel now displays the maximum network throughput of your system.
- API Enhancements
  - Provides API support to turn off alarm pop-up windows, E-Map, and alarm tabs triggered by an alarm.
- Installation
  - When upgrading VSS, the installer automatically backs up configuration files to the path "C:\ProgramData\VIVOTEK Inc\Backup\VAST\Server\VSS".
- License Activation
  - Adds a confirmation pop-up window when activating editions that do not require a license key.

## Bug Fixed

- Fixed an issue where using the symbols ' or " in user account names prevented the account from being deleted. A mechanism has been added to avoid using these characters.
- Removed "remaining people data" from exported weekly and monthly Counting reports.
- Fixed an issue where live view and playback were unavailable when adding cameras using UDP.
- Fixed an issue with camera recording icons incorrectly displaying when frequently toggling between continuous and event recording.
- Fixed a crash in the streaming server due to insufficient memory in CMS, leading to the loss of camera feeds from substations.
- Fixed an issue where alarms and other settings became unchangeable after importing a .bin file without logging into the server following an NR-v2 reset to default.
- Removed an unused file, "smartctl.exe," identified as a virus by some antivirus software.
- Fixed a licensing issue when upgrading from NR-v2 to VSS after using the Restore to

Default function.

- Fixed an issue where long-duration video exports from cameras under ND in CMS would fail.
- Corrected a display issue for 10G network cards on the dashboard.
- Resolved an issue where frequent joystick commands were interpreted as an attack by the Trend Micro package on cameras, leading to disconnection.
- Fixed an issue where the Import/Export Utility would still export a .bin file even if the database were corrupted.
- Closed Port 5544 to external connections to enhance security.
- Fixed an issue where the camera's ROI would offset when zooming in beyond 175% and reloading a saved view.
- Resolved an issue where alarms would not be triggered if the Data Magnet category character count was less than 2.
- Fixed a memory leak in the plug-in server when the camera's motion event frequency was too high.
- Improved the reliability of exporting camera recordings from substations in CMS during periods of high network traffic.

## Known Issues

- Changing the case of the Camera VCA rule name used in Counting Reports will cause the report to fail to display data. If you encounter this issue, reverting the name back to its original case will restore normal data display.

## Known Limitations

- The Privacy Mask feature is limited to recordings with a maximum size of 9.4 million pixels. For higher-resolution cameras, such as the MS9321 model, exported recordings will be automatically resized to fall below this limit.
- Only 10 mode supports privacy masks for Fisheye and SC9133 series cameras. To view the exported video in a dewarping mode, please use the VSS Standalone player and activate the ONVIF fisheye lens dewarping option.
- The default image resampling method for the VSS Client's live view is set to "No Resampling." Some Virtual Machines may not support this, resulting in an inability to view the live feed. If you encounter this issue, navigate to Settings -> Preferences -> Client and change the Image Resampling Method to "Nearest Neighbor."



## VSS 1.0.0.3000 – Aug 03, 2023

### Release Summary

This maintenance release of VSS 1.0 contains bug fixes and performance enhancements. This release is recommended for all VSS 1.0 users.

### Bug Fixed

- Fixed an issue where, during software uninstallation, the "remove the recorded data folder" option did not delete the recorded data folder.
- Fixed an issue with cameras under ND machines, where the snapshot function failed when the camera's name contained a "/" character.
- Fixed a VAST2 to VSS upgrade issue. This problem arose when a VAST2 system with a redundant station was upgraded to VSS, causing issues with activating the CMS station's license.
- Fixed a camera live view issue under a CMS/Substation structure where a "no permission" message could appear on the substation's camera live view upon CMS reboot if the auto-start live view page feature was used.
- Removing the 'remaining people' information from the weekly and monthly reports exported from the VCA Report.
- Fixed a memory leak problem that occurred when using the deep search feature.

### Known Issues

- On the MAC client, there is a possibility of crashing when switching between live view and playback modes on a camera stream with audio in macOS 13 Ventura.

### Known Limitations

- This release does not support running a VSS Server on a virtual machine. The next VSS release, v1.1, will support it.



## VSS 1.0.0.2900 – Jun 07, 2023

### Release Summary

This maintenance release of VSS 1.0 contains bug fixes and performance enhancements. This release is recommended for all customers.

### Changed Features

- Modifies the database mechanism of deep search metadata to improve search performance. The database storage mechanism changed from one database file per recording group to one database file per camera.
- Modifies license backup mechanism for NR models with VSS Pro edition. When the VSS license is updated, the original embedded NR VSS license will be replaced by the new updated VSS license.
- Adds a mismatch rule for Data Magnet. Users set up a mismatch rule to trigger an alarm or action when the data does not match watchlist keywords.
- Improves Send feedback and bugs user interface for better usability.

### Bug Fixed

- Fixed a motion event recording issue with the AXIS P3715-PLVE camera model.
- Fixed a VCA report issue: the counting data will not show if the VCA rule name contains a space character.
- Fixed a log-in problem: When upgrading from VAST2 to VSS, there is a possibility that the VSS client cannot log in to the server if too many logs exist.
- Fixed a license import issue: When the user uninstalls a VAST2 server that had activated licenses and then installs a new VSS server, the VSS license key may fail to be activated.
- Fixed a camera sync playback issue on the E-map function.
- Fixed a deep search issue that the object path does not show on the preview and playback video of the search results.
- Fixed a migration license fail-to-import issue: if any VAST2 server hardware fingerprints change after upgrading to VSS, the migration VSS license will not be able to import to the VSS server.

### Known Issues:

- On the MAC client, there is a possibility of crashing when switching between live view and playback modes on a camera stream that has audio.

### Known Limitations

- This release does not support running a VSS Server on a virtual machine. The next VSS release, v1.1, will support it.



## VSS 1.0.0.1000 – Feb 27, 2023

### Release Summary

This initial release of VIVOTEK's VAST Security Station (VSS) is an easy-to-use, all-around, AI-powered IP video surveillance software designed to help you manage tens of thousands of cameras with ease and focus on only what matters to you through VIVOTEK AI solutions. With three variants, VSS Lite, VSS Standard, and VSS Professional, you can choose what's best for your organization and scale up the whole system anytime.

### Major Features

- **Three VSS editions: VSS Lite, VSS Standard, and VSS Professional**
- **Deep Search**
  - The Deep Search function is an AI-driven post-search empowered by VIVOTEK AI cameras. The Deep Search enhances post-search capability with different types of object metadata, helping users search the target more precisely and faster using attributes and behaviors.
- **Recording Encryption**
  - Allows users to encrypt the recording videos with password protection.
  - The recording videos will be viewable only in the VSS Client and VSS Standalone player.
- **User-Defined Role**
  - A user-defined role allows you to define a common set of permissions for a group of users, reducing the setup time for different groups of users.
- 64-bit VSS server to support up to 16G memory.

### Known Limitations

- This release does not support running a VSS Server on a virtual machine. The next VSS release, v1.1, will support it.
- MAC client does not support fisheye dewarping.

