VSS

VAST Security Station

VAST Security Station

Release Notes

Revision Number: v1.1 Software Version: v1.1

VIVOTEK

A Delta Group Company

Contents

Contents 2
Upgrade Consideration for VAST 2 Users 4
Documents 4
System Specifications and Requirements 4
VSS 1.1.0.2000 – Jan 17, 2024 5
Release Summary 5
Changed Features 5
Bug Fixed 5
VSS 1.1.0.1000 – Oct 12, 2023 6
Release Summary 6
New Features 6
Changed Features 6
Improvements 7
Bug Fixed 7
Known Issues 8
Known Limitations 8
VSS 1.0.0.3000 – Aug 03, 2023 9
Release Summary 9
Bug Fixed 9
Known Issues 9
Known Limitations 9
VSS 1.0.0.2900 – Jun 07, 2023 10
Release Summary 10
Changed Features 10
Bug Fixed 10
Known Issues: 10
Known Limitations 10
VSS 1.0.0.1000 – Feb 27, 2023 11
Release Summary 11

Major Features.....11

Known Limitations.....11

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 1.1.0.2000 – 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 1O 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.