



Milesight Release Note For OpenVision Server Series

Firmware Version: OV_81.8.0.5-r1-NX

Applicable Model: SE0208-K, SE0216-K, SE0216R-K, SE0232R-K

Release Date: 7th September 2026

1. Overview

Milesight offers a variety of sensor products designed to capture meaningful data. By innovatively applying AI, 5G, and IoT technologies, Milesight brings significant impact to various applications. The company manufactures products with exceptional image quality, unparalleled flexibility, and reliability for the global market. Milesight is pleased to announce the release of the new firmware version 81.8.0.5-r1-NX for OpenVision Server.

This version introduces enhancements to storage management, VMS Edge integration, and system-level optimizations to improve overall performance and user experience.

2. Firmware Version Download

For the firmware version, please click the following link to download:

[Firmware Download|The Latest Innovation|Milesight](#)

3. What's new

3.1 New Features

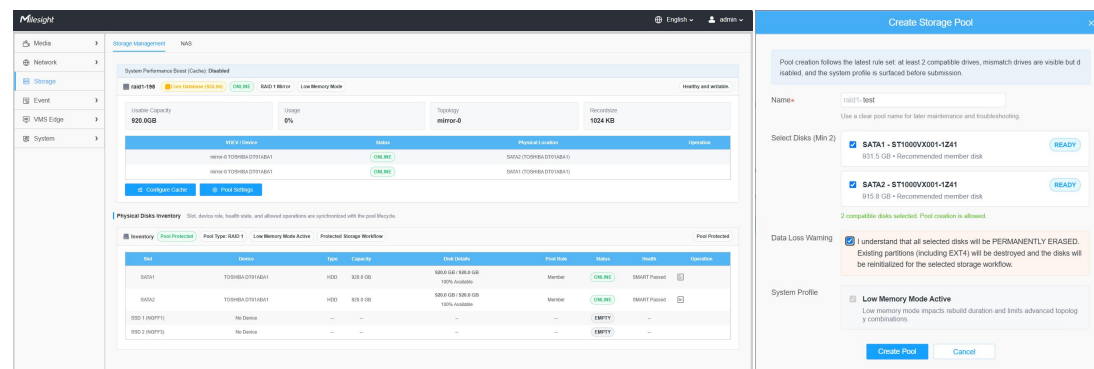
(1) New Product Lineup Debut

This firmware is the debut release for the 16ch/32ch 1U rack-mount OpenVision Server (SE0216R-K/SE0232R-K) and the NX Server Mini family, covering 8ch (SE0208-K) and 16ch (SE0216-K) models.

(2) Storage Management Enhancement

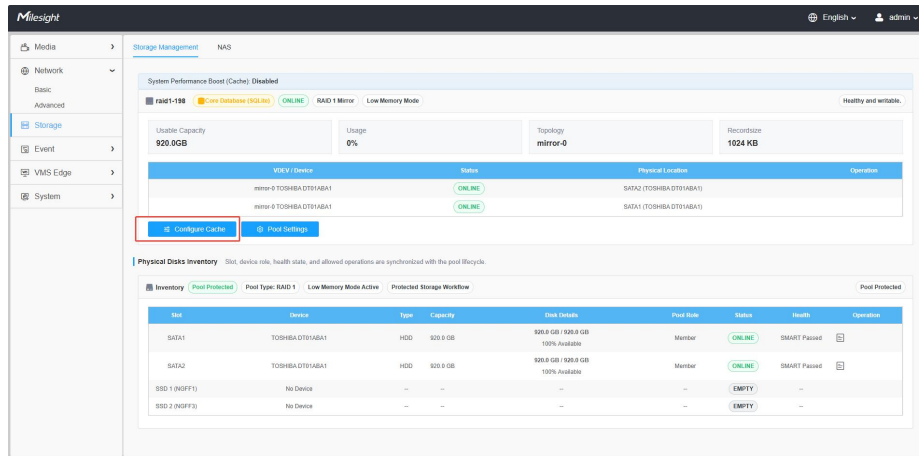
Added comprehensive storage management for up to 5 physical disks (3 SSDs + 2 HDDs), with unified management of physical disks and logical storage pools. Full RAID 1 lifecycle management is available via the web interface, covering pool creation, patrol inspection, degradation handling, repair, rebuild, and foreign array recovery, delivering enhanced data redundancy and reliability for critical recording storage. Storage formatting is now unified to the Ext4 filesystem, with FAT support removed.

Note: RAID 1 is only supported on HDDs, and is available for 32-channel OpenVision Server models.



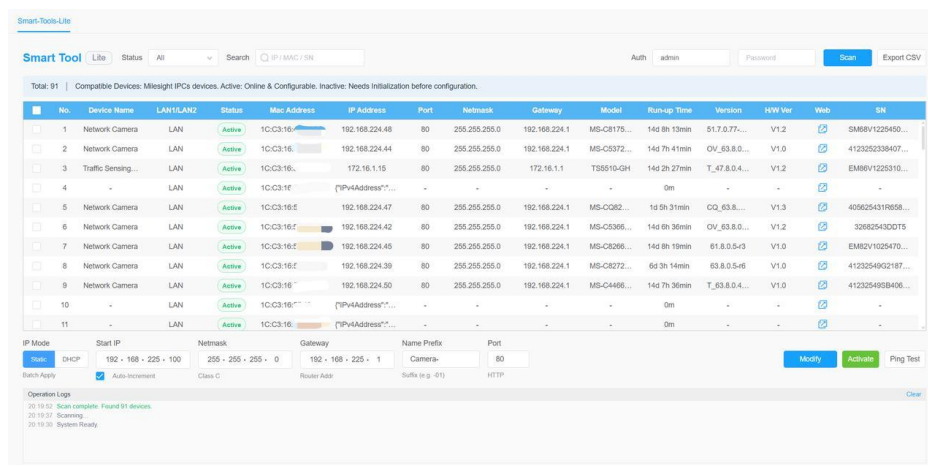
(3) Added support for configuring an external SSD as system swap (high-speed cache) on NX Server.

Users can now manually enable a dedicated swap partition on an attached SSD via Storage Management > Configure Cache. This improves multitasking performance under heavy memory load.



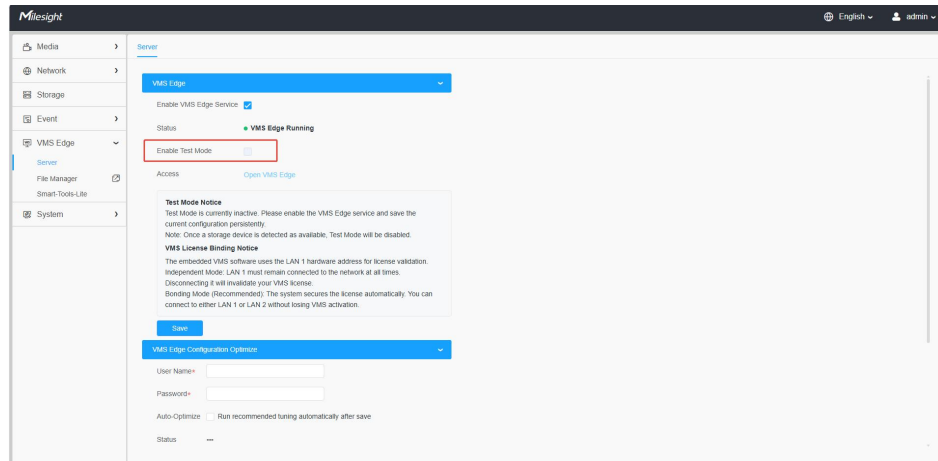
(4) VMS Edge Smart Tools Lite

Added Smart Tools Lite to the web interface, supporting cross-subnet discovery of Milesight cameras, batch IP address modification, and batch camera initialization.



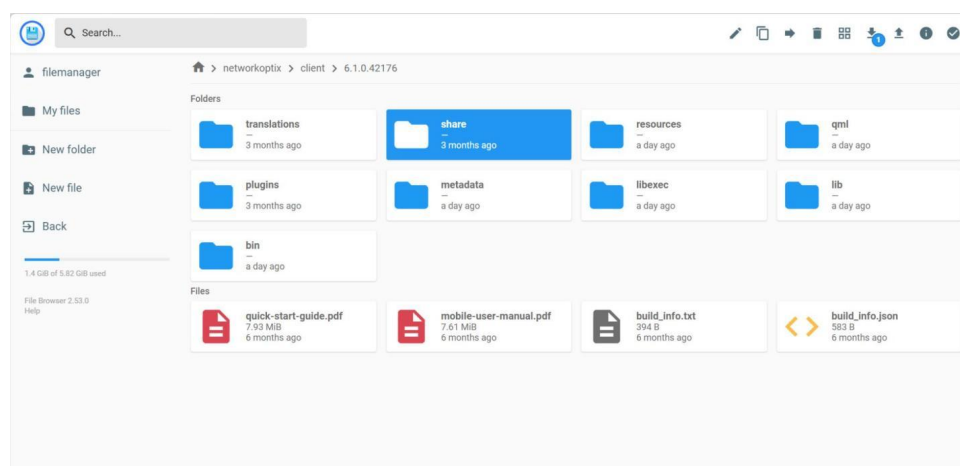
(5) Test Mode Support

Introduced Test Mode, enabling the server to run temporarily without any SSD/HDD installed for instant demonstrations right after unboxing; Test Mode exits automatically once storage is ready.



(6) Added File Manager functionality.

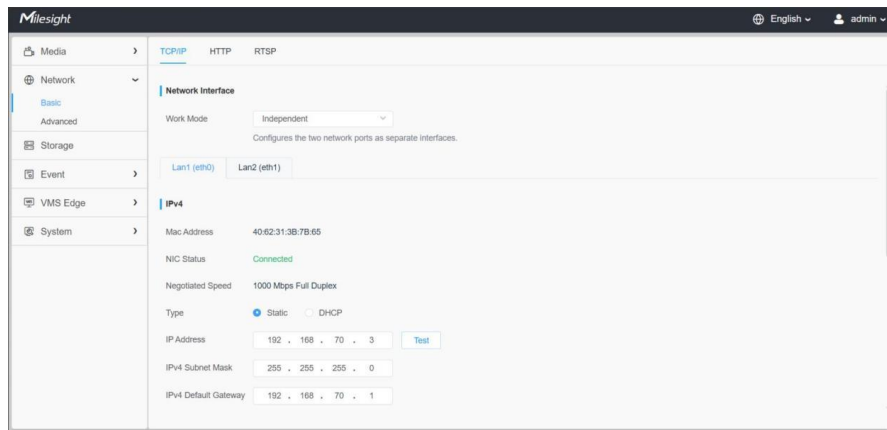
Users can now access File Manager from the sidebar to manage files in both the device and SSD directories, upload files via the web interface, and copy/paste files between the server and a USB drive.



(7) Added support for USB hard drive detection and mounting.

USB drives can now be used for device backup, document import/export, and video export only.

(8) Added support for dual 2.5G LAN ports with independent configuration and link aggregation (Active Backup / LACP / ALB).

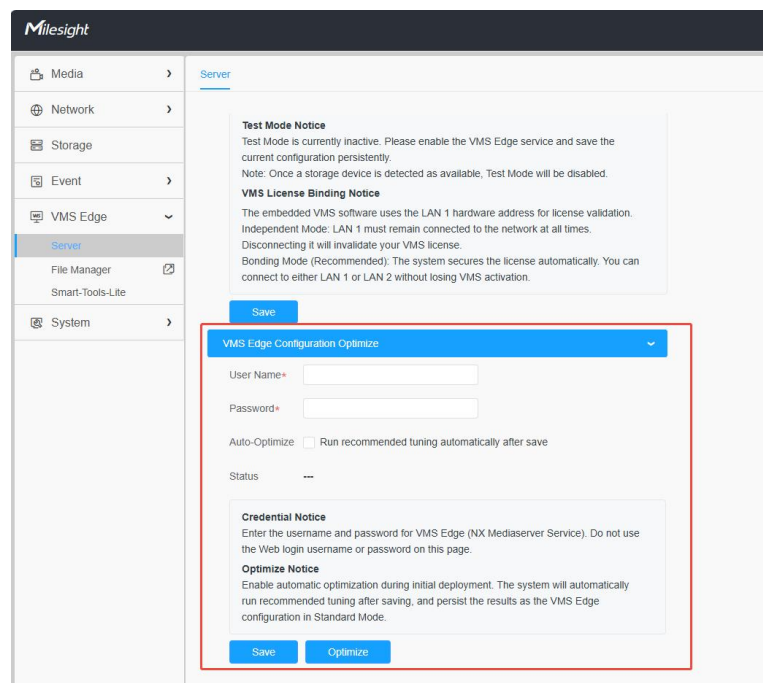


(9) DHCP with Static Fallback

Added DHCP with Static Fallback: when DHCP assignment times out, the server automatically switches to the backup address 192.168.5.190, preventing the device from becoming unreachable.

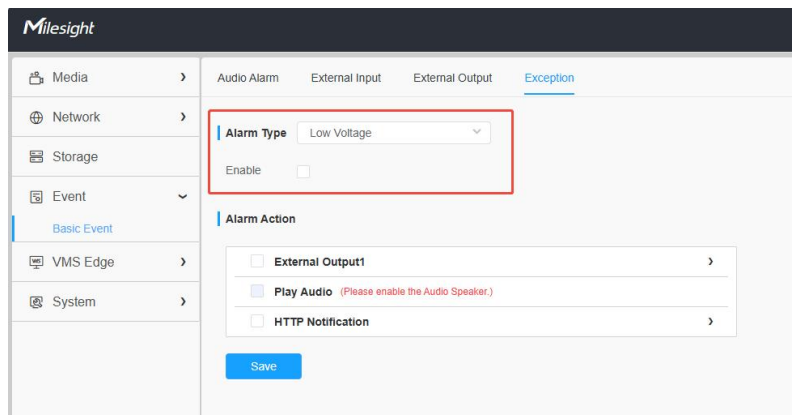
(10) VMS Edge Configuration Optimize

Added one-click optimization of NX Server configuration parameters from the web interface, with optional automatic optimization on every reboot.



(11) Low-Voltage Alarm

Added a low-voltage alarm that is reported when the input voltage drops below 10.8V.



(12) Intel PTT (TPM 2.0) Enabled by Default

Intel PTT (TPM 2.0) is now enabled by default in BIOS, providing hardware-level security support.

(13) Added front-panel Power/Run/Disk indicators and USB ports.

The indicator LED statuses are as follows:

Indicator		Status
Front Panel Indicators	Run Indicator	✓ Blinks once per second (green): Camera is operating normally ✓ Blinks five times per second (green): Firmware is upgrading ✓ Off: Indicator turns off during upgrade reboot
	HDD Indicator	✓ Solid green: HDD or SSD detected and available ✓ Blinks once per second (green): HDD/SSD is being accessed ✓ Fast blinking (green, five times per second): At least one disk has failed, but others are running normally ✓ Off: No available HDD/SSD, or all disks have failed
	Power Indicator	✓ Solid green: Power is on
Rear Panel Indicators	green Power & Run indicator	✓ Off: Camera is powered off ✓ Solid green: Camera is booting ✓ Blinks once per second: Camera is operating normally ✓ Blinks five times per second: Firmware is upgrading

3.2 Optimizations

- (1) NX Witness Pre-installation: Pre-installed NX Witness 6.1.1 with automatic NX Server startup on boot. All native NX plugins are included, with MS plugins upgraded to version 2.0.13-r4, and a new storage plugin version 1.0.3 added.
- (2) Added support for Dutch, German, Polish, Ukrainian, Swedish, Danish, Icelandic, Norwegian, and Finnish system languages, bringing the total to 15 supported languages.

- (3) The Storage page now displays disk slots by their actual interface names (SATA1/SATA2/SSD 1-3), and slots without a disk installed are hidden automatically.
- (4) The built-in ONVIF Server now supports dual-LAN scenarios, allowing this server to be added to an NX system via Profile S.
- (5) Upgraded the HDMI interface from Micro HDMI to standard HDMI, better suited for frequent on-site plugging and long-term maintenance.
- (6) Updated the Intel GPU driver to version 25.48.36300.8.
- (7) Optimized the power strategy for more stable low-power operation.
- (8) IPv6 is now set to Auto mode by default, with DNS also defaulting to Auto.
- (9) The MTU option under TCP/IP settings is now expanded by default.

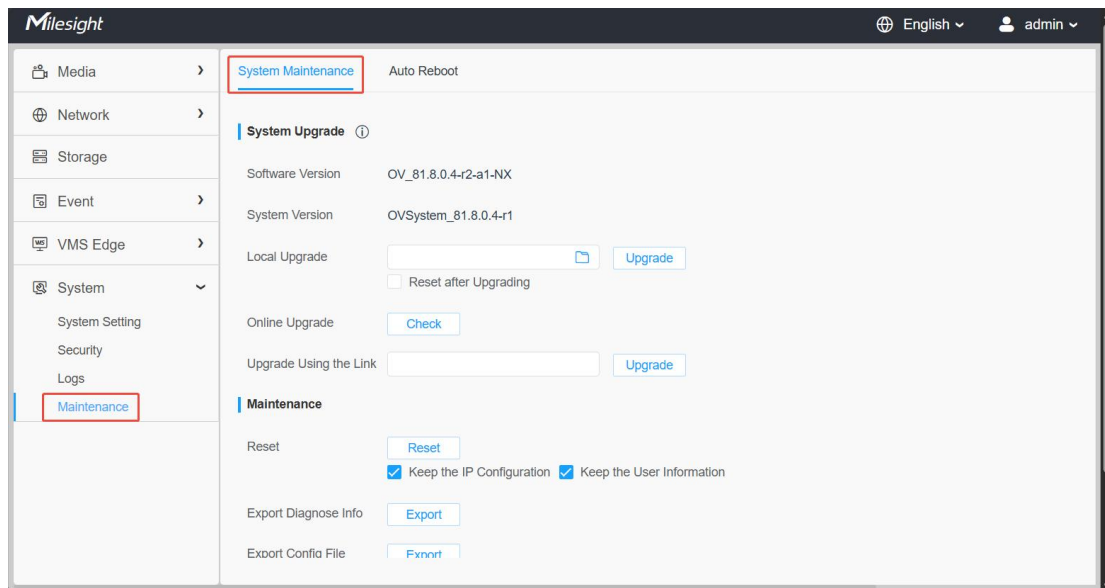
3.3 Bug Fixed

- (1) Fixed the issue of system time loss after power interruption (RTC battery solution optimized).
- (2) Fixed the high-risk security issues identified in this round of security assessment, covering the application, system, and web layers.

4. Upgrade steps

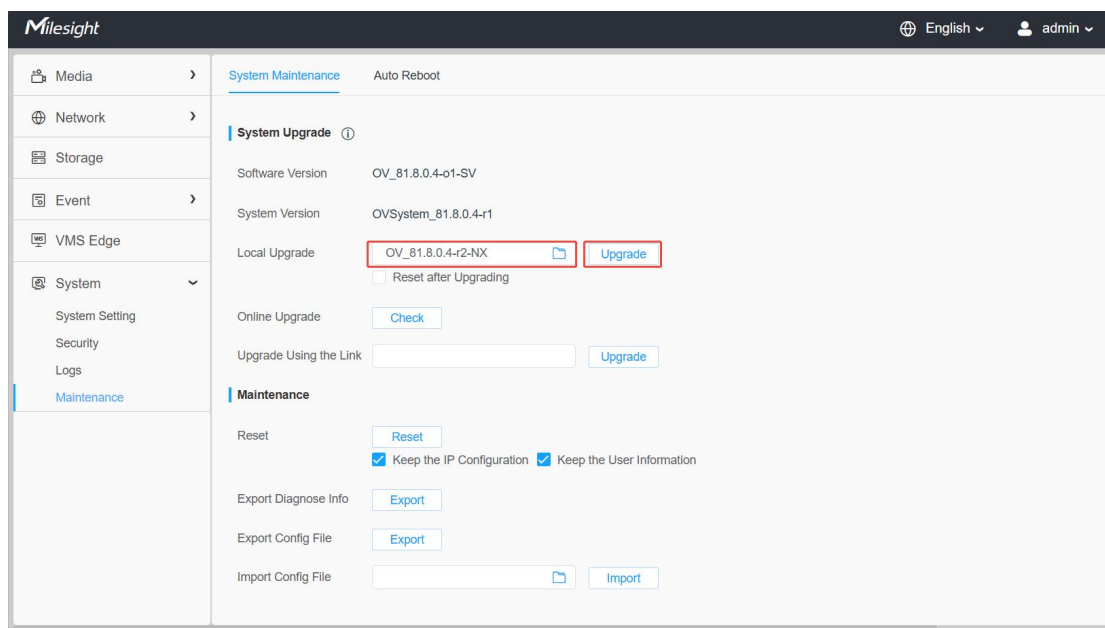
Please check each model with the right firmware version as mentioned above, then upgrade as the following steps:

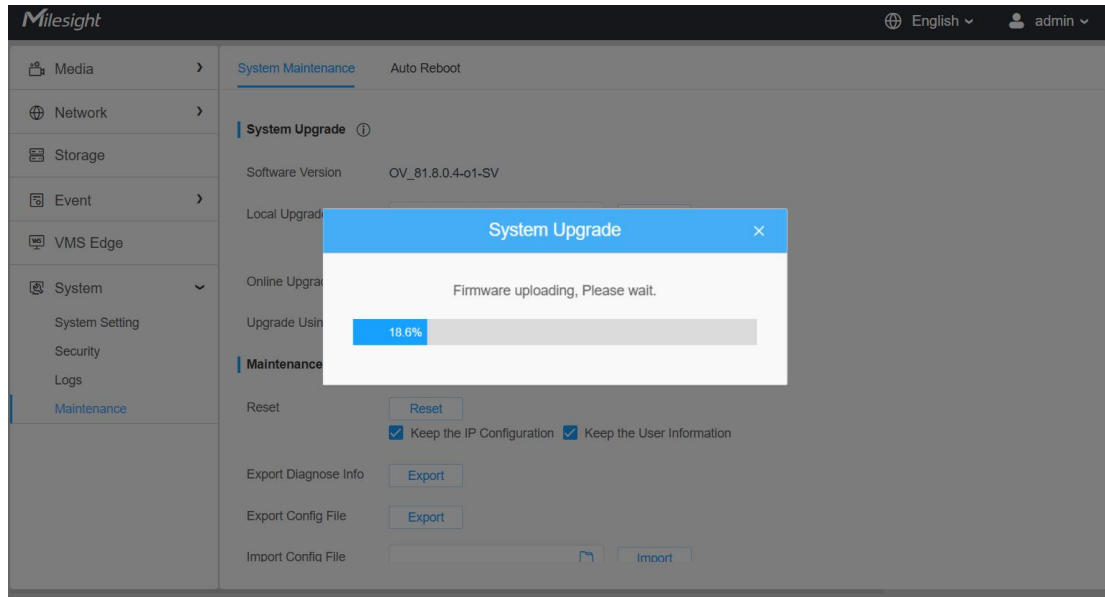
Step 1: Go to the web page of the OpenVision Server Mini, click *System -> Maintenance -> System Maintenance*.



Step 2: Choose the file for the upgrade.

Step 3: Click the "Upgrade" button, then please wait about 1~3 minutes. The upgrade will be done after the system reboots successfully.





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