Milesight Release Note For Q Series Network Camera

Firmware Version: CQ_63.8.0.6-r1

Applicable Model: MS-CQXXXX-XXPG1

Release Date: 17th August, 2026

1. Overview

Milesight offers a variety of sensor products designed to capture valuable 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 CQ_63.8.0.6 for Q Series cameras.

This release improves image quality and enhances the usability and detection accuracy of the event module. It adds support for low-power mode and local metadata storage, along with various other optimizations and bug fixes.

2. Firmware Version Download

To download the latest firmware version, please click the following link:

Firmware Download|The Latest Innovation|Milesight

Note: CQ_63.8.0.6-r1 fixes known bugs based on CQ_63.8.0.6.

3. What's New

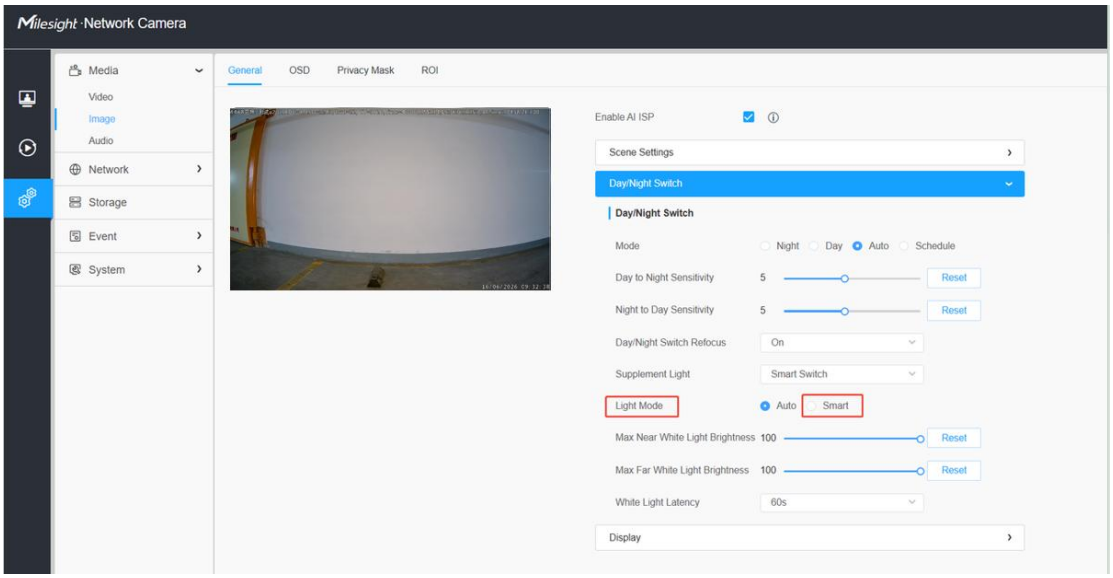
(1) AI ISP Enhancements

- **Expanded Support:** AI ISP is now available for the MS-CQ54XX-HYPG1 and MS-CQ81XX-HYPG1, enhancing color, brightness, and clarity of static images in low-light conditions. With this release, all Q series models now support AI ISP.
- **Performance Optimization:** AI ISP performance in dynamic scenes has been enhanced, improving target clarity. This optimization is only for the MS-CQ44XX-HYPG1 model. The MS-CQ82XX-HYPG1 model will be supported in the next release.

AI ISP OFF *AI ISP ON*

(2) Added Smart Mode for Supplement Light Brightness Control

This version introduces Smart mode for supplement light brightness control, enabling intelligent automatic adjustment of light intensity based on scene conditions. In Smart mode, the camera dynamically adjusts the supplement light brightness to prevent overexposure of nearby targets while maintaining adequate illumination for distant objects, ensuring optimal image quality.

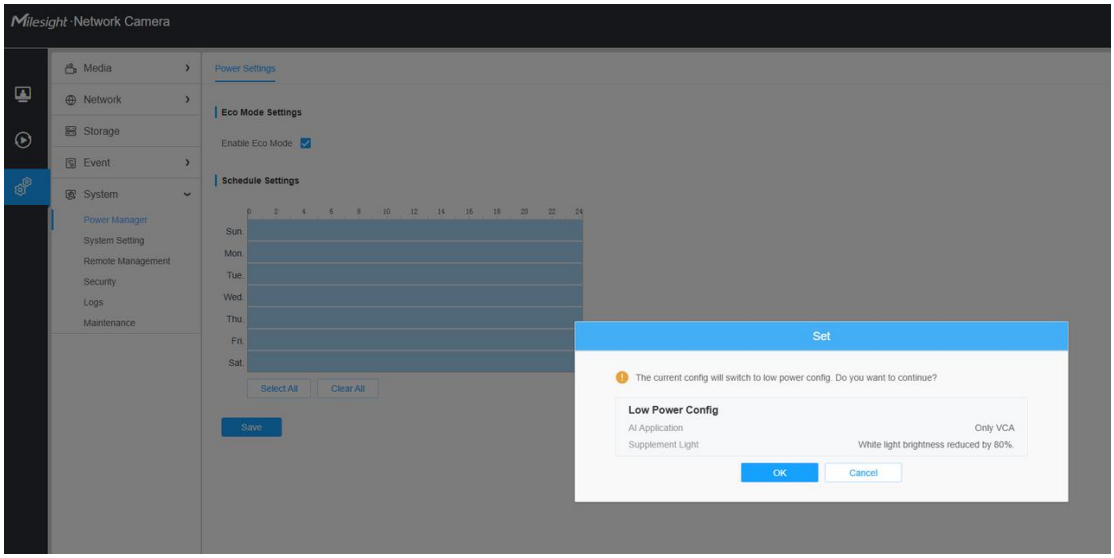


Configuration Interface

Milesight *Other Brand*

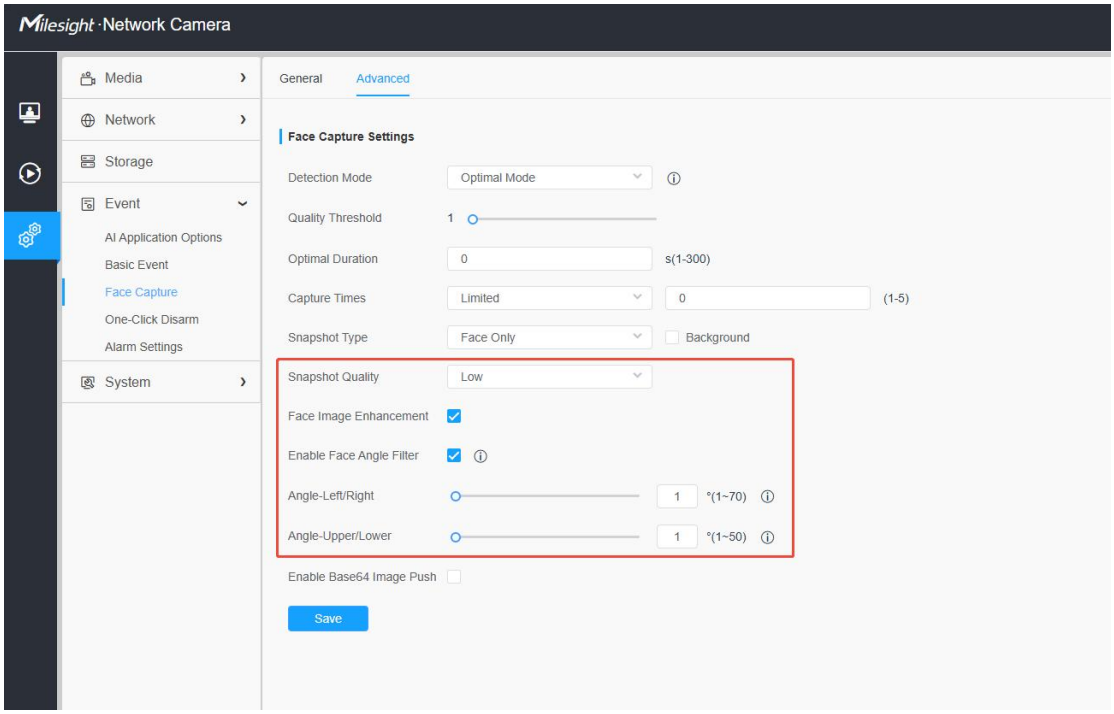
(3) Added Eco Mode for Low-Power Operation

A new Eco Mode has been added to support scenarios where power consumption is a critical concern, such as solar-powered or portable deployments. When Eco Mode is enabled, the camera automatically reduces supplement light brightness and restricts AI capabilities to VCA events only, significantly lowering overall power consumption while maintaining essential surveillance functions.



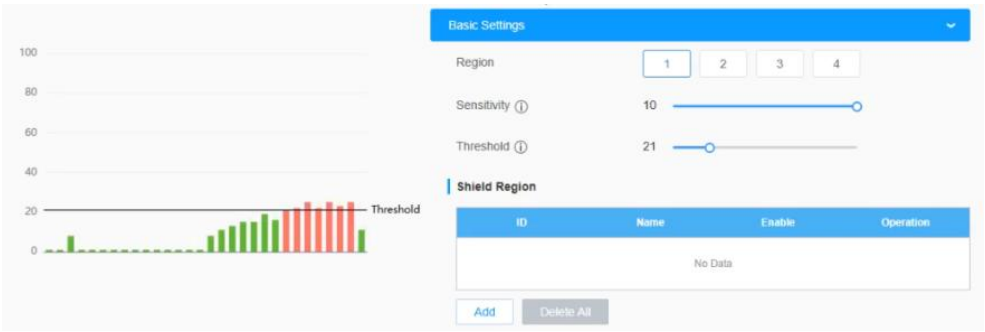
(4) Face Capture Enhancement

- Optimized face capture algorithm for higher capture rate and longer capture distance.
- Added Face Image Enhancement option to Face Capture settings. When enabled, the camera adjusts exposure parameters to prioritize face area brightness, ensuring clear and well-exposed facial images even in challenging lighting conditions.
- Added Angle Filtering support for Face Capture. When enabled, you can configure allowable horizontal and vertical deviation angles; only faces within the specified range will be captured and reported, optimizing accuracy and efficiency in scenarios such as access control, cashier counters, and passageways.
- Added support for face capture snapshots at the camera's original resolution. A new Snapshot Quality option is available under Snapshot Type.
  - Low: Captures at 2MP resolution, reducing storage and bandwidth usage.
  - High: Captures at the camera's maximum original resolution for enhanced facial detail.

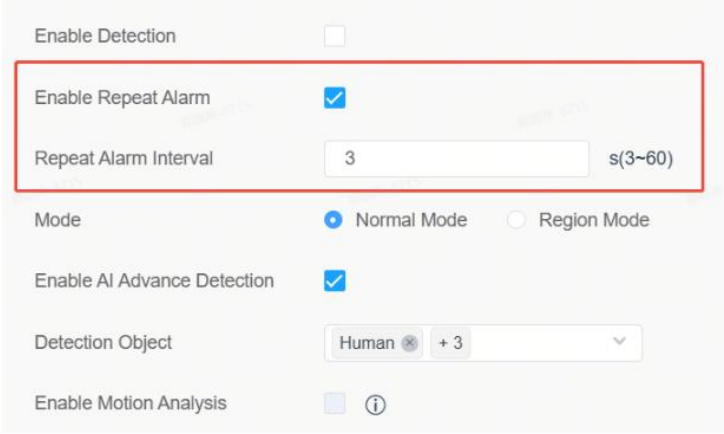


(5) Motion Detection Enhancement

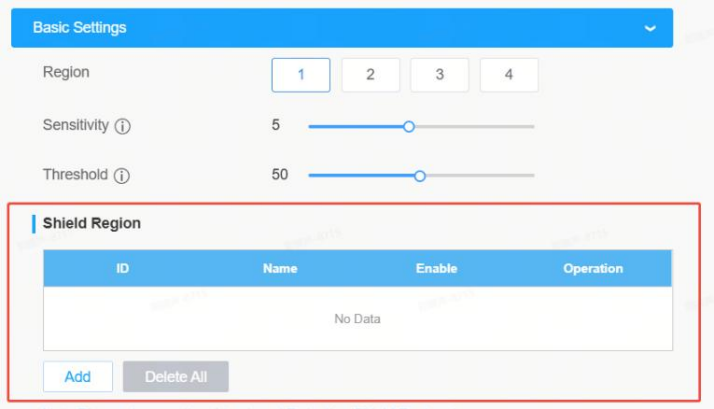
- **Supports Threshold and Threshold Curve:** The threshold determines the amount of motion area change required to trigger an alarm, while the threshold curve displays whether the detection value exceeds the preset threshold over time, helping you visualize and fine-tune the motion detection settings.



- **Supports Repeat Alarm:** The system will repeatedly trigger alarm notifications at the specified interval.

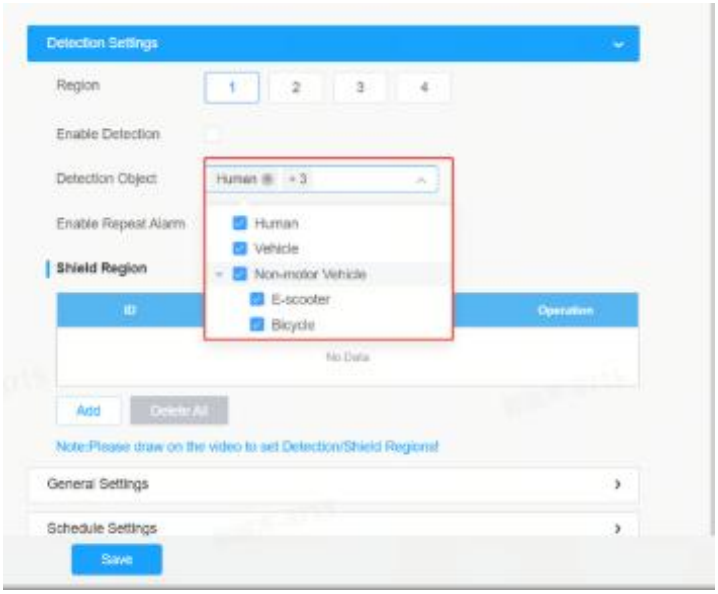


- **Supports Shield Region:** Allows users to define areas within the detection region that should be ignored.



(6) VCA Event Enhancement

- **Expanded Detection Objects:** Now includes E-scooter and Bicycle.

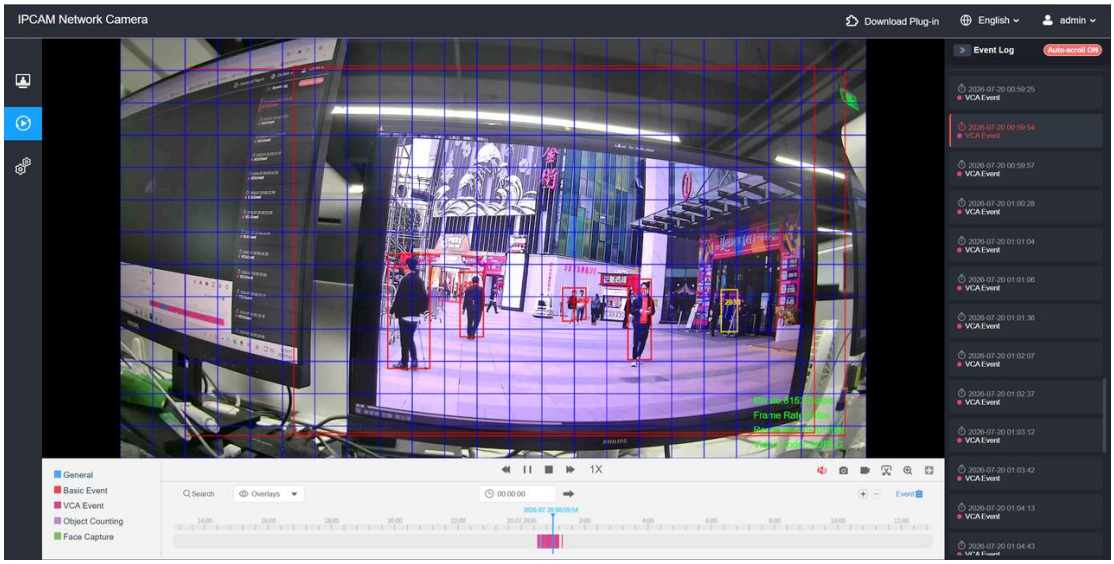


- **Supports Repeat Alarm:** The system will repeatedly trigger alarm notifications at the specified interval.
- **Supports Shield Region:** Allows users to define areas within the detection region that should be ignored.

(7) Support Local Metadata Storage

Added Metadata Storage and Playback, allowing video recordings to be stored together with associated AI metadata. Metadata can be stored to local SD card or network NAS (NFS/SMB protocols). The playback interface supports synchronized video and metadata display, with detection bounding boxes and target boxes.

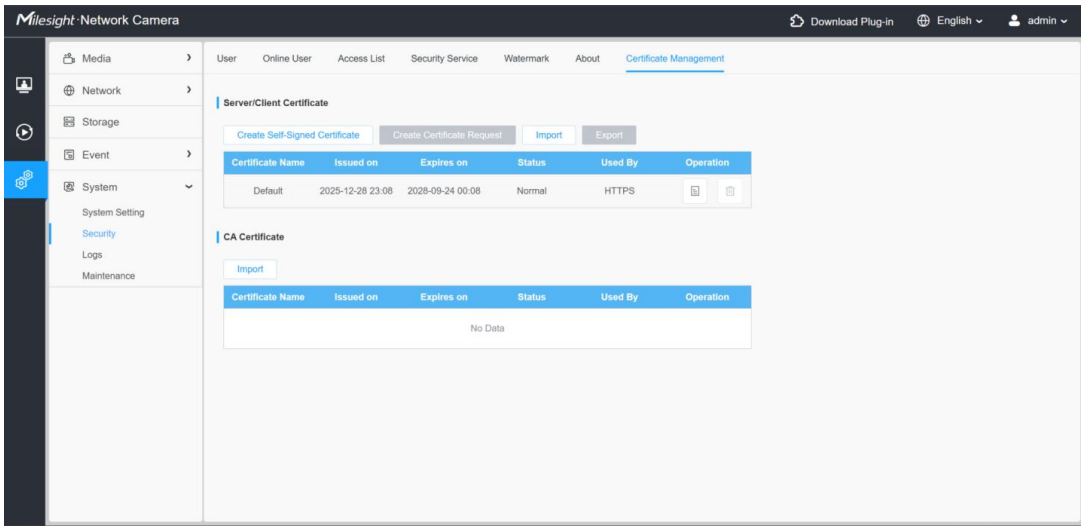
For backend platforms, it is possible to compare the metadata stored in the camera's local recordings with the metadata transmitted to third-party VMS along with the live video stream, in order to identify any potential metadata loss.



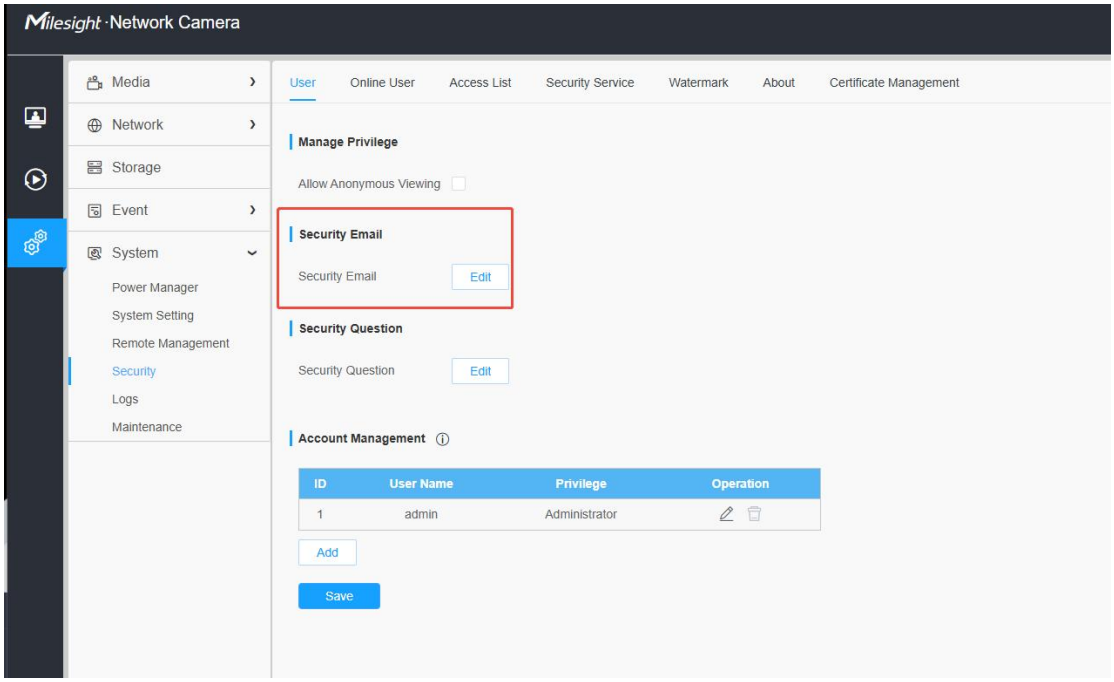
(8) Security Enhancements

- Added Certificate Management: This version introduces Certificate Management, providing a centralized interface for managing security certificates on the camera. Administrators can view, install, and maintain certificates directly through the web

interface at Settings -> System -> Certificate Management, ensuring secure communications and streamlined certificate lifecycle management.



- Added support for setting Security Email for password recovery, allowing users to reset their password via email.

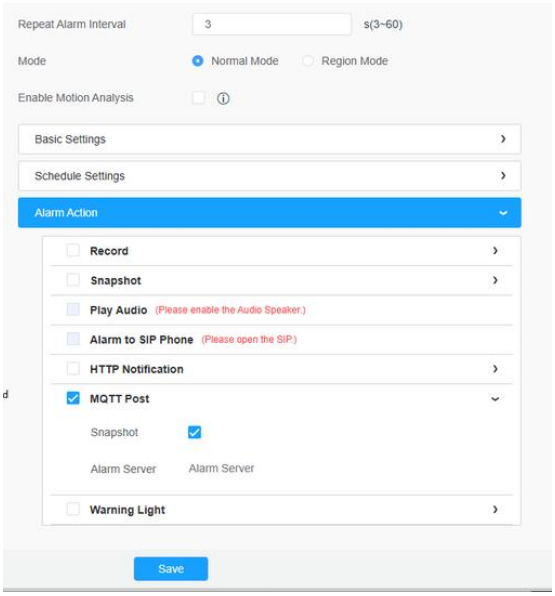


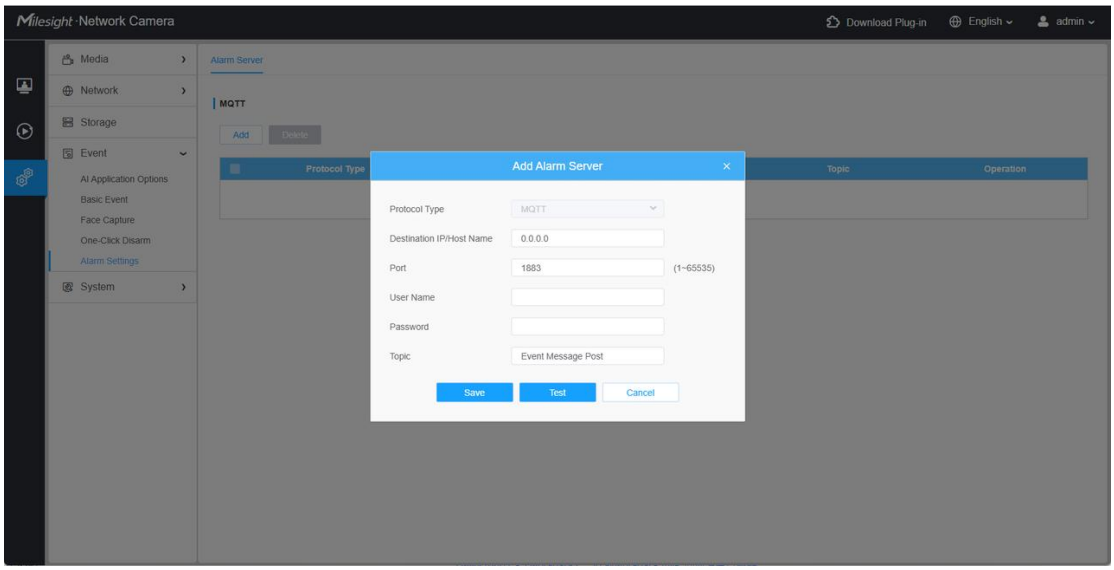
- Added support for RTSPS and SRTP.

(9) Other Improvements

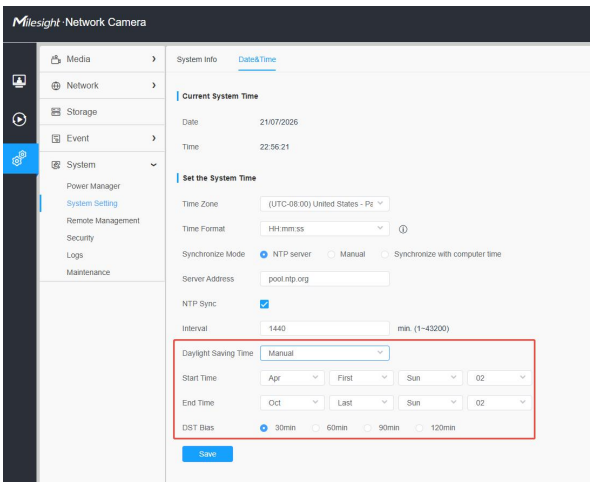
- Expands the range of third-party platform types in VMS Type option to enhance compatibility.

➢ Added support for MQTT Post in alarm actions.

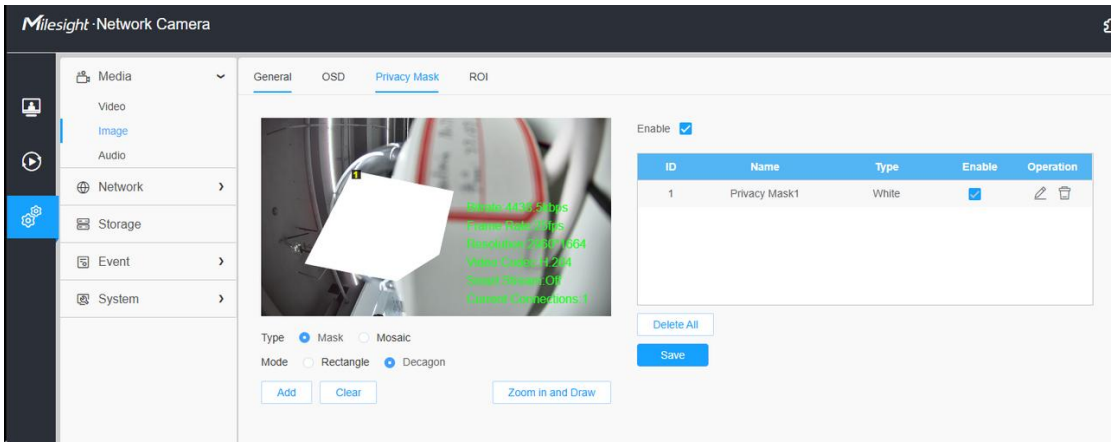




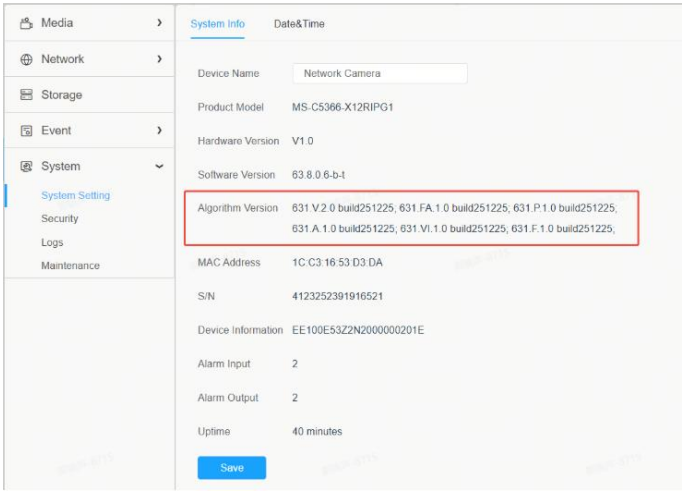
➢ Added support for manual configuration of Daylight Saving Time (DST).



- Added support for drawing polygonal masking areas in the Privacy Mask feature, providing more flexible privacy protection.



- **AI Algorithm Version Display:** The web interface now displays the current AI algorithm version information for VCA and Face Capture, facilitating version tracking and technical support.



- **Optimized P2P Retry Mechanism:** This optimization significantly reduces unnecessary network traffic and cloud server load while maintaining reliable reconnection capability.
- **Optimized DHCP Retry Mechanism:** The DHCP retry mechanism has been improved to continuously retry after DHCP failure, rather than stopping after a fixed number of attempts. When the network environment recovers, the camera will automatically obtain a DHCP address without requiring manual intervention or device reboot. This ensures more reliable network connectivity in environments with intermittent network availability.

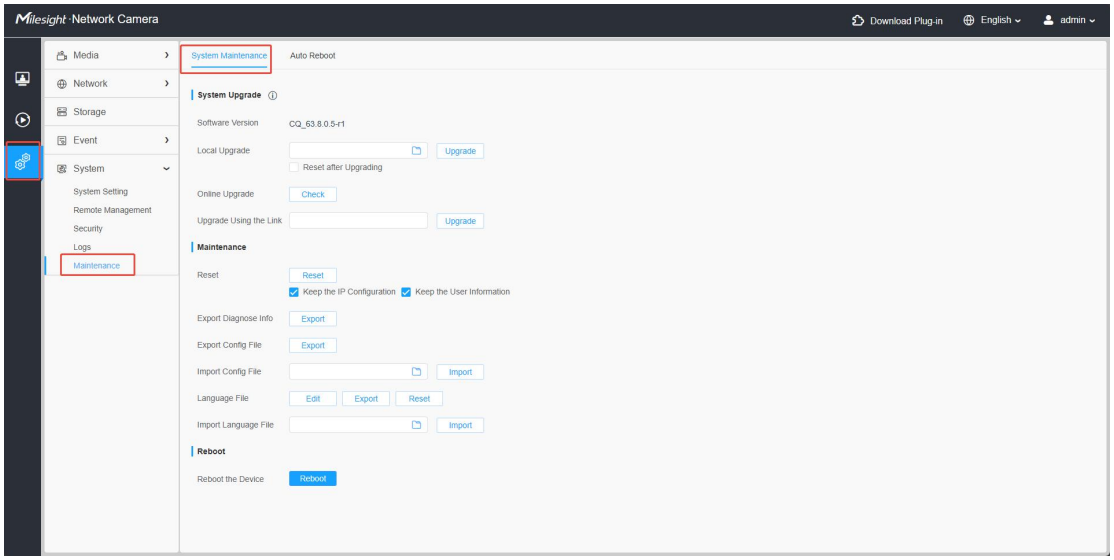
5. Bug Fixed

- Fixed known bugs.

6. Upgrade steps

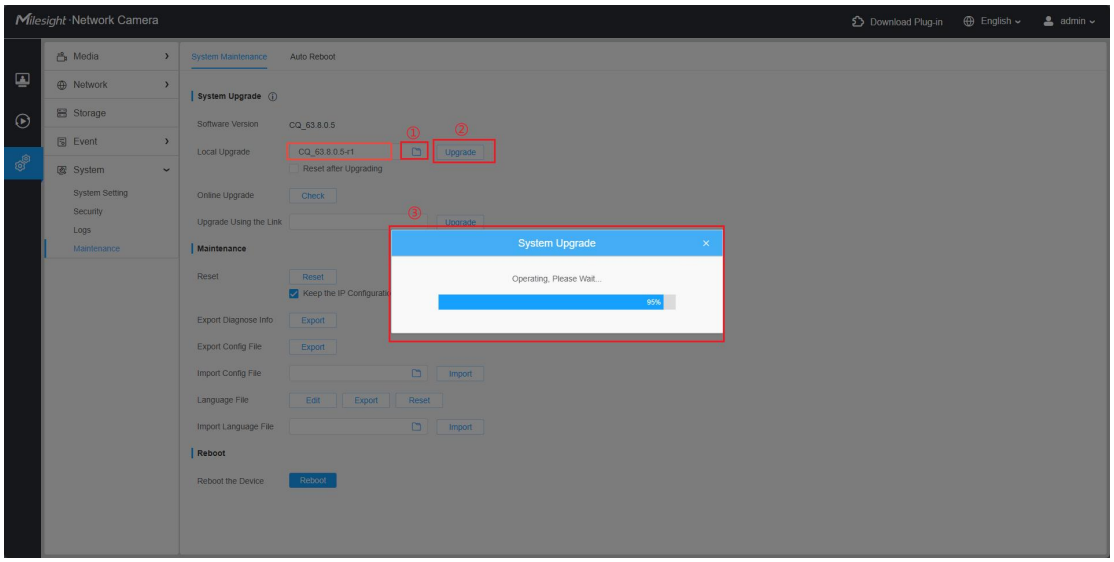
Please check each model with the right firmware version as mentioned above, then upgrade as the following steps:

Step 1: Go to the web page of Network Camera, Settings -> 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.


Milesight Network Camera
Download Plug-in
English
admin
Media
Network
Storage
Event
System
System Setting
Security
Logs
Maintenance
System Maintenance
Auto Reboot
System Upgrade
Software Version
CQ_63.8.0.5
Local Upgrade
CQ_63.8.0.5-r1
Upgrade
Reset after Upgrading
Online Upgrade
Check
Upgrade Using the Link
Maintenance
Reset
Export Diagnose Info
Export
Export Config File
Import Config File
Import
Language File
Edit
Reset
Import Language File
Reboot
Reboot the Device
Reboot
System Upgrade
Operating, Please Wait...
95%

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