

FIRMWARE RELEASE ANNOUNCEMENT (FRA)

Announcement ID: FRA-2026-04-IPC

Release Date: April 2026

Product Category: IPC

IPC 5.3.1

Compatible Devices

This firmware update is compatible with Provision-ISR IP cameras running firmware version **v5.2.3 or later**.



V5 Models
Hybrid
Hybrid WiFi
rainbow 3.0
Active Deterrence



V5 Models
Panoramic



LPR
I6-220LPRN-MVFX
I6-240LPRN-MVFX

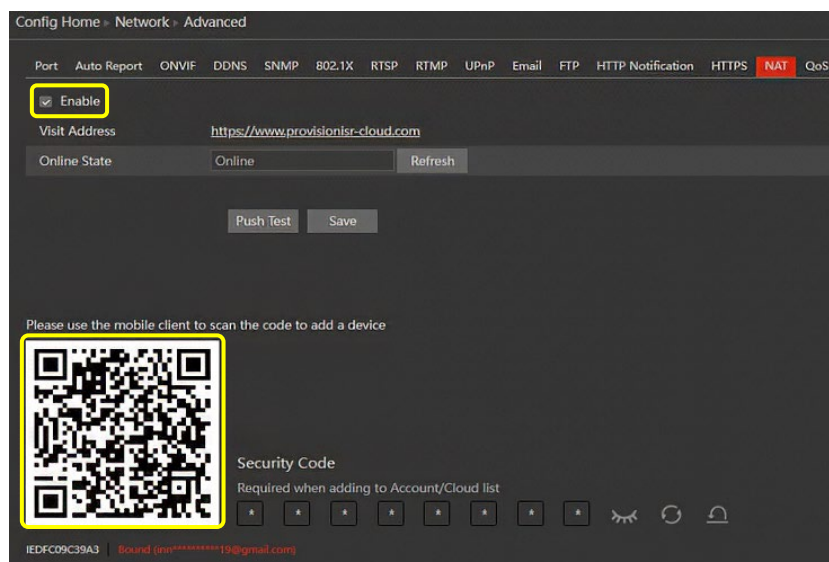
LIST OF IMPROVEMENTS:

1) NEW: CLOUD BINDING

Firmware v5.3.1 introduces Cloud Binding, allowing supported **IP cameras to be linked directly to the Provision Cam2 App** through Provision-ISR's cloud service.

Once connected, the camera gains access to a new range of **cloud-based functions and remote management capabilities** introduced in this release.

Binding is completed through the Cam2 App using the camera QR code and security code.

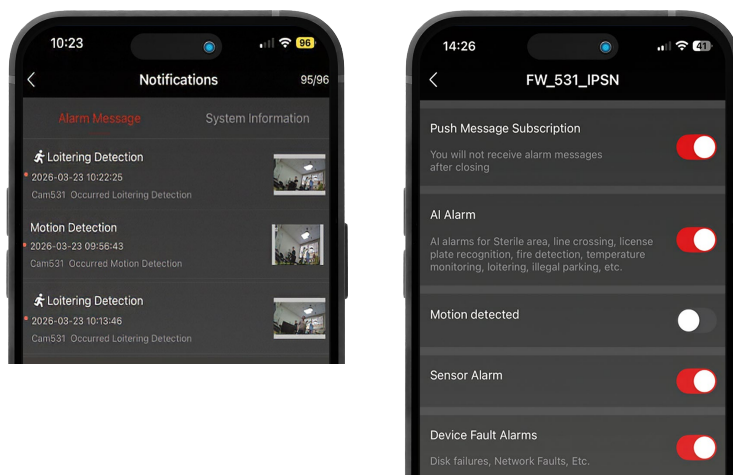


2) NEW: CLOUD PUSH NOTIFICATIONS

Once a camera is bound to the Provision Cam2 App, event notifications can be sent **directly to the user's phone in real time**.

Alerts such as motion detection, AI events, sensor alarms, and device faults are delivered instantly, helping users stay informed wherever they are.

Notification types **can be turned on or off individually** inside the app, allowing each user to receive only the alerts that matter most.



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3) NEW: CLOUD FIRMWARE UPDATE

Cloud Binding now enables **over-the-air firmware updates** for supported IP cameras.

When a new firmware version becomes available, users receive a notification directly in the Provision Cam2 App, **allowing the update to be downloaded and installed remotely** without manual file handling or on-site access.



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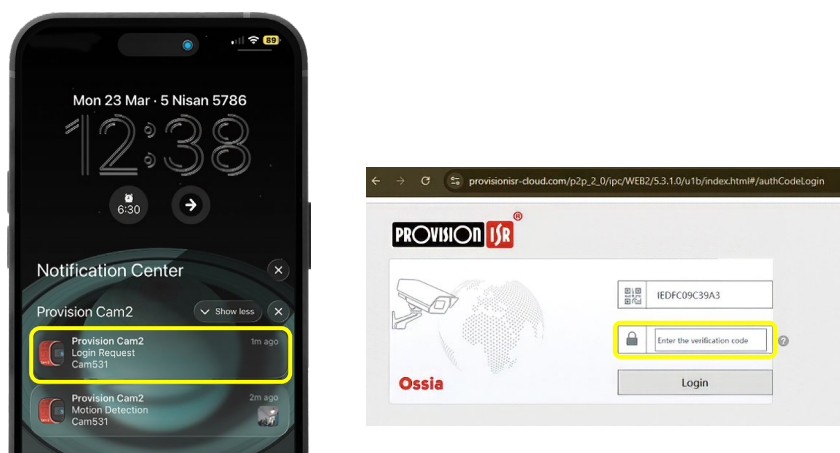
4) NEW: SECURE CLOUD ACCESS

Cloud Binding now adds an **additional layer of security to P2P camera access**.

Once a camera is linked to a Provision Cam2 App account, **any remote P2P login attempt requires an authentication code** approved by the bound user.

When access is requested, the owner **receives a real-time notification** in the Cam2 App and can **choose to approve or deny the request**. An authorization code is then generated and shared with the requesting user.

This process gives customers full visibility and control over who accesses their system, without the need to share passwords.



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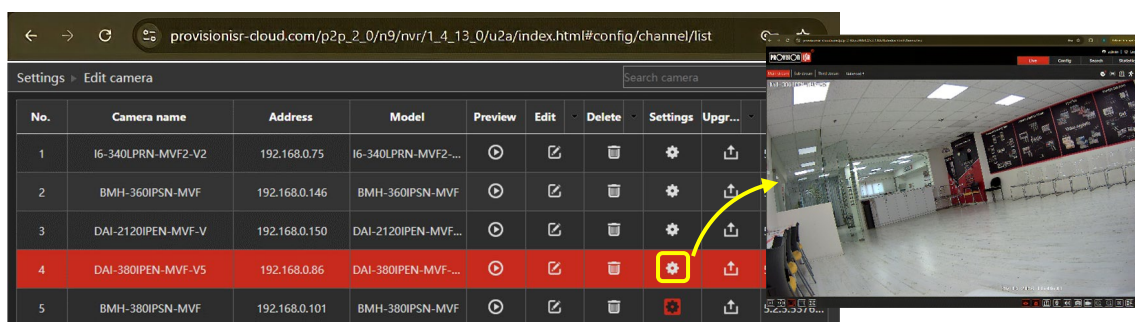
5) NEW: DIRECT CAMERA WEB ACCESS

Supported IP cameras can now be accessed **directly** from within the NVR's remote P2P web interface.

From the Edit Camera menu, users can click the Settings icon next to any connected camera to open its **full web client instantly**, without needing the camera's local IP address or P2P serial number.

For **cameras bound to a Cam2 account**, **Secure Cloud Access remains active**, and authentication approval is required before entry.

This feature simplifies remote maintenance, configuration, and support directly through the NVR session.



*** Requires:**
IP Connection + NAT Online

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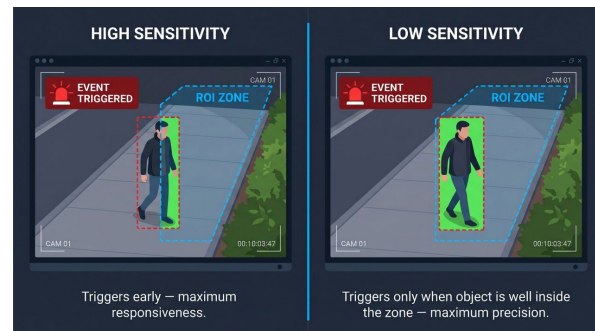
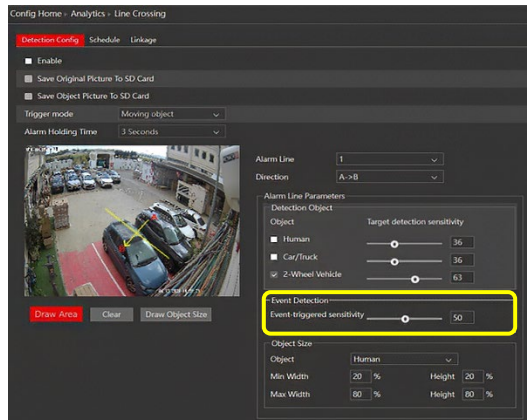
6) NEW: EVENT TRIGGER SENSITIVITY

Users now have greater control over when AI analytic rules are activated.

The setting **determines how far into the defined detection area a detected object must enter before an event is triggered.**

Higher sensitivity allows earlier activation for maximum responsiveness, while lower sensitivity requires the object to be more fully inside the zone for greater precision.

This helps **reduce false alarms near zone edges** and improves rule accuracy across analytics such as line crossing, sterile area, loitering, illegal parking, and more.



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7) NEW: TRIGGER MODE

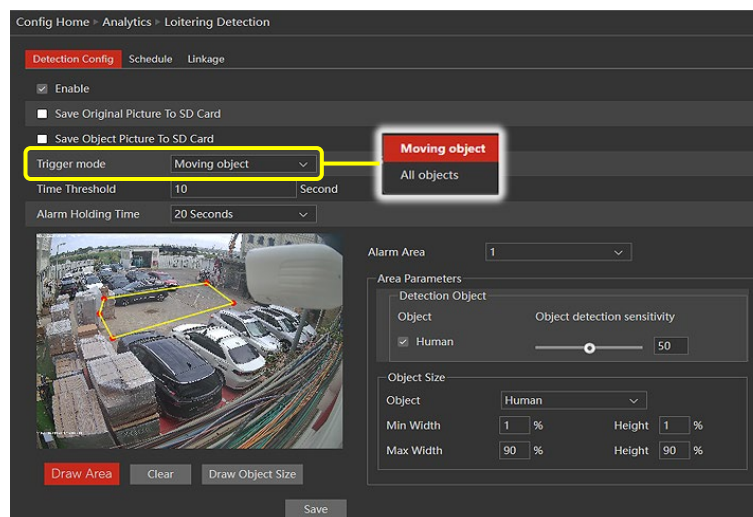
Supported analytic rules can now **respond according to real-world behavior.**

Users can choose between:

- **Moving Object** – events trigger only while the detected target is in motion
- **All Objects** – events trigger whether the target is moving or stationary

This provides greater flexibility for environments where movement is expected, while improving detection in scenarios where any presence should generate an alert.

Available within **Loitering, Sterile Area, and Line Crossing** rules.



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8) IMPROVED: AREA-BASED DETECTION CONTROL

Supported AI rules can now use up to **four independently configured detection areas within a single rule**.

Each area can be adjusted separately with its own **Detection object type, Sensitivity level, and Minimum and maximum object size**, allowing users to optimize performance across different parts of the scene.

Supported across analytics such as **Line Crossing, Sterile Area, Loitering, and Illegal Parking**.



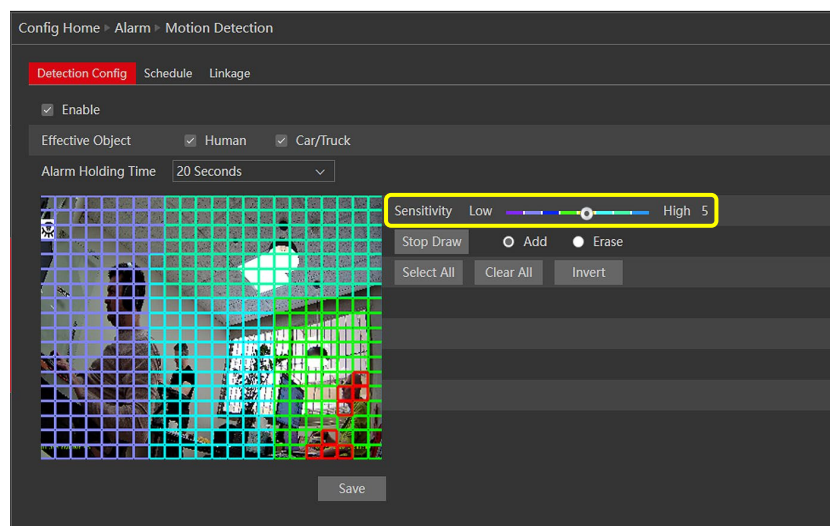
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9) NEW: PER-ZONE MOTION SENSITIVITY

Motion detection can now be tuned with **independent sensitivity levels across different zones** of the camera view.

This allows distant areas, where movement appears smaller, to use higher sensitivity, while zones closer to the lens can be set lower to reduce false alarms caused by nearby activity.

The result is **more accurate motion detection tailored to the real conditions of each installation**.

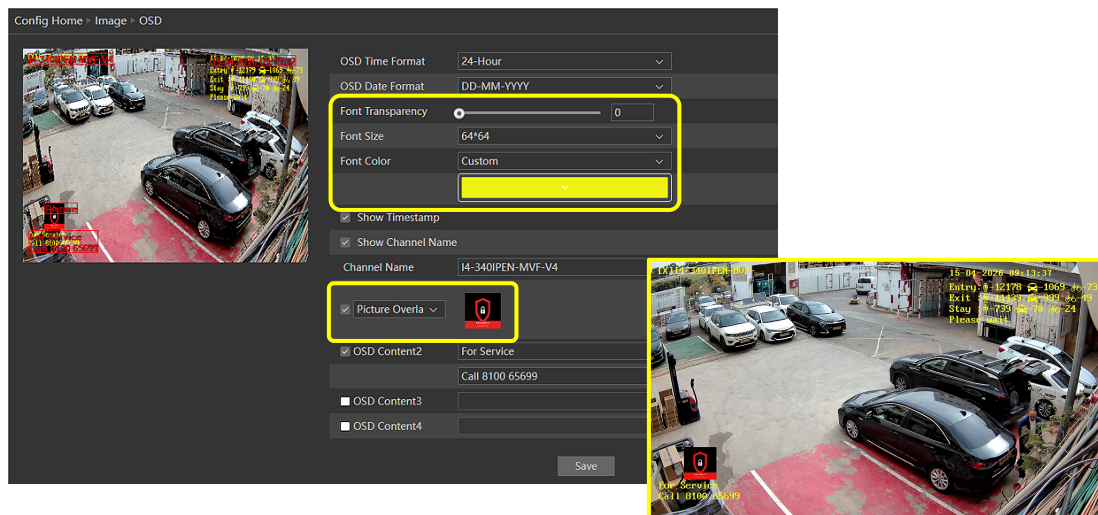


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10) NEW: OSD & PICTURE OVERLAY

A custom image can now be uploaded directly to the live camera feed, enabling logo placement for branded, professional installations.

OSD settings have also been expanded with greater **control over font style, size, color, transparency**, and automatic font scaling for optimal visibility across different displays.



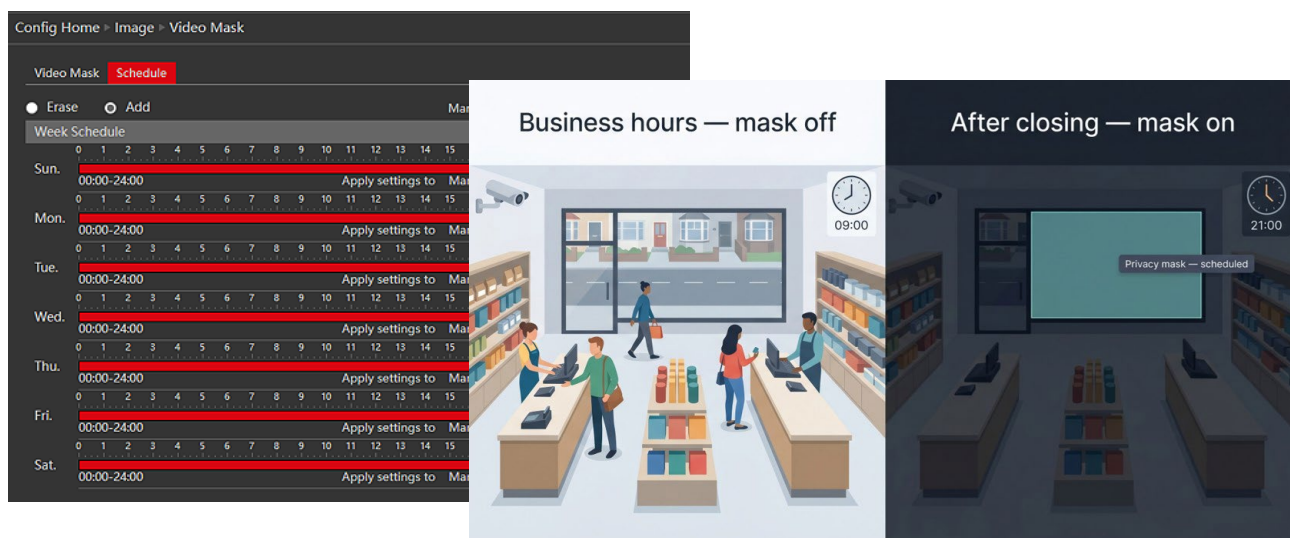
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11) IMPROVED: VIDEO MASKING

Privacy masking has been expanded with **custom color selection** and **scheduled activation**, giving users greater control over how restricted areas are concealed.

Masked zones can now **be matched more naturally to the scene**, creating a cleaner appearance than traditional black blocks, while scheduled masks can **activate or deactivate automatically during defined time periods**.

Ideal for environments where cameras must avoid recording neighboring properties, public areas, or other sensitive zones.



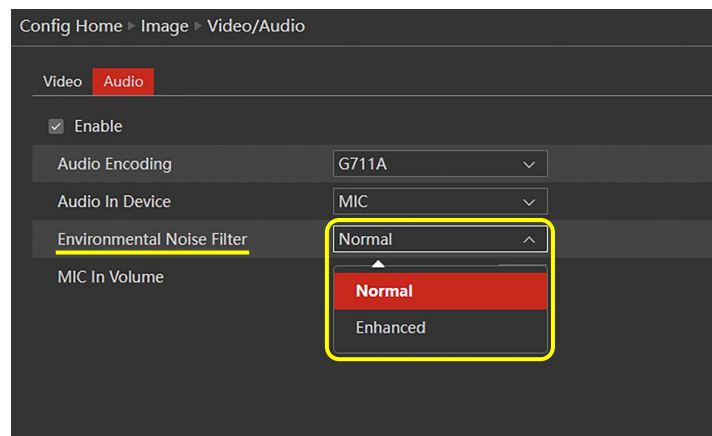
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12) IMPROVED: ENVIRONMENTAL NOISE FILTER

The built-in microphone now features an upgraded Environmental Noise Filter, improving audio clarity across various installation environments.

Normal Mode provides balanced processing for typical indoor locations, while **Enhanced Mode** applies stronger filtering for outdoor or noisy areas affected by wind, traffic, or industrial background noise.

This allows clearer, more usable audio capture with a simple setting adjustment, with no additional hardware required.



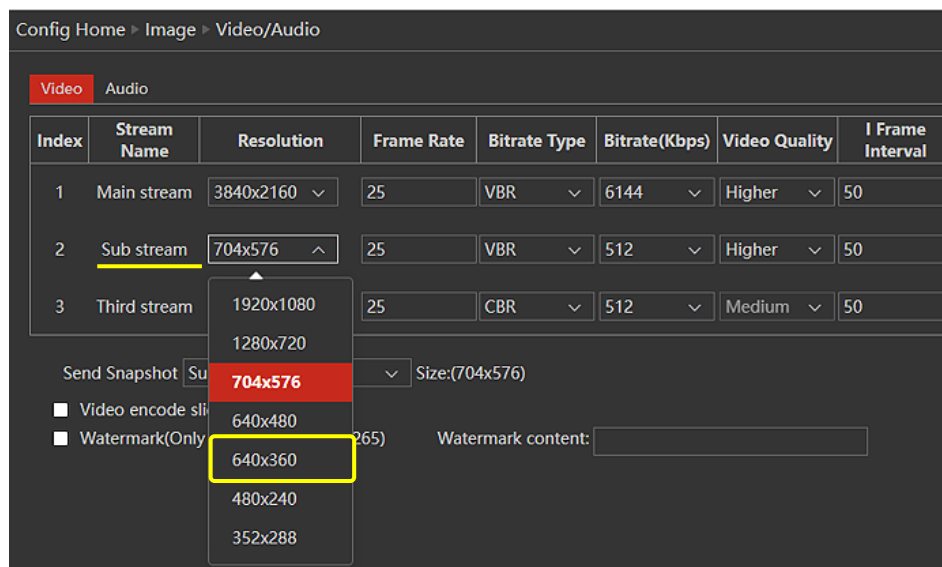
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13) IMPROVED: SUB STREAM EFFICIENCY

The sub stream now **supports 640x360**, providing a native 16:9 aspect ratio at a lower bandwidth.

While higher-resolution 16:9 formats were already available, **this new option allows widescreen viewing with reduced bandwidth** and lighter system load.

This update delivers a cleaner and more efficient solution for remote viewing, multi-camera layouts, and bandwidth-sensitive environments.



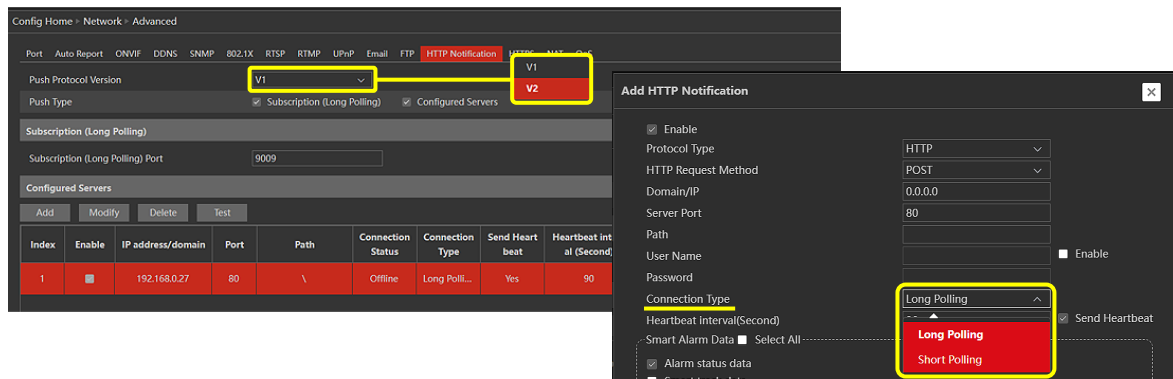
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14) IMPROVED: HTTP COMMUNICATION

HTTP Notification settings have been expanded to provide greater flexibility for **third-party integrations** and external platform connectivity.

Users can now choose between **V1 compatibility** for existing integrations or **V2 for newer optimized API structures**.

Short Connection is now available alongside Long Polling, allowing communication methods to be matched to event-based or continuous data reporting, with configurable heartbeat monitoring for added connection stability.



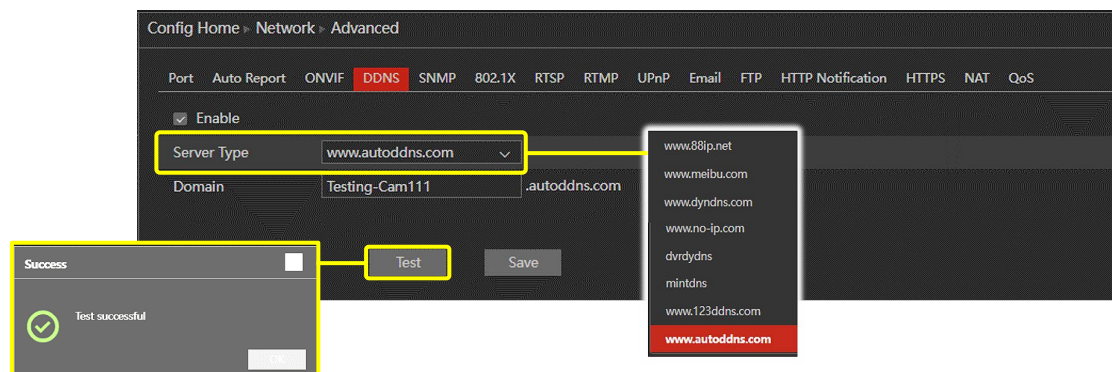
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15) NEW: DDNS CONNECTION TEST

A new DDNS Connection Test function lets users **instantly verify DDNS settings** before saving.

When using Provision-ISR's **native autoddns.com service**, the first Test action creates and registers the selected domain automatically, while subsequent tests confirm the connection remains active.

For third-party DDNS providers, users can enter their **existing account details** and use the Test function to confirm successful communication with the selected service.



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16) IMPROVED: RTSP OVER TLS (RTSPS)

The camera now supports RTSP over TLS, enabling **encrypted live video streaming between the device and connected clients**.

Unlike standard RTSP streams, TLS protects video data while in transit, helping prevent unauthorized interception across the network.

This is **especially valuable** for remote access deployments and **security-sensitive environments** where encrypted communication is increasingly expected.

The screenshot shows the 'Config Home > Network > Advanced' settings page. The 'RTSP' tab is selected. Under the 'RTSP' section, the 'Enable' checkbox is checked. Below it, there are fields for 'Port' (554) and 'Address' (rtsp://IP or domain name:port/profile1). There are also fields for 'Multicast address' and 'Main stream', 'Sub stream', 'Third stream', and 'Audio' with their respective ports and 'Automatic start' checkboxes. At the bottom, the 'RTSP over TLS' section is highlighted with a yellow box. It contains an 'Enable' checkbox (checked), a 'Port' field (322), an 'Address' field (rtsp://IP or domain name:port/profile2), and an 'Allow anonymous login (No username or password required)' checkbox (unchecked). A 'Save' button is at the bottom right.

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17) REVISION HISTORY

Version	Date	Description
1.0	April 2026	Initial release