

FW 5.2.0 Build Release Notes – Improvements

Previous Version: v5.1.9.3

Date: December 1, 2025

This release for the CHekT Video Control Panel (VCP) includes all feature enhancements and bug fixes introduced since firmware version **5.1.9 Build 3**. The update focuses on improving **Profile G streaming reliability**, enhancing compatibility with difficult network conditions, and extending cloud connectivity options for the End-User App (EUA) and End-User Web App (EUW).

Notes for Dealers

In typical network conditions, the VCP firmware update process requires approximately **5–10 minutes** to complete; actual times will vary based on available download bandwidth at the installation site. If the update takes longer than expected, do not interrupt it prematurely.

To avoid firmware corruption or instability, allow the panel up to **60 minutes** to finish all download and installation steps before attempting a reboot or power cycle.

New Features

Cloud AI Object Filtering Improvements (Details Below)

- **Detection Type:** New Center Point and Edge Point Detection for AI Object Filtering
- **AI Areas:** Create up to 5 AI detection zones per camera

ProfileG Streaming Status via WebRTC

- Added support for retrieving **Profile G streaming status** over **WebRTC** from the End-User App (EUA) and End-User Web App (EUW)
 - Enables faster, direct confirmation of stream availability without requiring manual checks through ONVIF queries
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Bug Fixes

Enhanced WebRTC Connection Handling in EUA/EUW

- Added final-stage fallback logic to attempt **WebRTC TCP Relay** connections if all other streaming methods fail

- Particularly beneficial for installations using **cell modem** connections, where packet loss or MTU limitations can disrupt normal streaming

Automatic Profile G Stream Recovery

- Implemented continuous monitoring of **Profile G streaming status** in EUA/EUW
- If a stream disconnect is detected, the system will now automatically attempt reconnection—improving uptime for remote playback and review

General Improvements

- Overall system stability has been enhanced as part of the new streaming feature updates
 - Connection handling and stream monitoring processes have been optimized to reduce dropouts and improve uptime in challenging network environments
 - Minor backend adjustments to improve responsiveness and reliability across EUA/EUW platforms
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Firmware **5.2.1 Build** continues CHekT's commitment to **stream reliability** in varied network conditions, reducing downtime for dealers and end-users, and improving playback consistency on both mobile and web platforms. Integrators are strongly encouraged to keep all Video Control Panels updated to the latest firmware to maintain full functionality with cameras, cloud services, and streaming features.