

FW 5.0.0 Build 6 Release Notes – Major Release

The CHeKT Video Control Panel Firmware release notes include new features and bug fixes added since FW version 4.3.0 Build 5. This firmware update is designed to enhance current CHeKT Dealer and Monitoring Portal features, while others are designed to support new features and future portal development.

- [Newsletter Announcement to Dealers](#)
- [Important Information about PTZ Controls](#)

Notes for Dealers

Dealers should anticipate the firmware update process to take between 5 and 10 minutes, depending on the download bandwidth available on the site. If you notice the process is taking longer, we advise you to allow your video control panel at least one hour before attempting a power cycle or reboot.

Firmware Update Notes

NEW Features & Improvements

1. NEW: PTZ Controls from the Monitoring Portal and Mobile App
2. NEW: 720p and 8 FPS for standard streaming profile.
3. NEW: Added multi-stream selector in the monitoring portal and mobile app for higher resolution live streaming.
4. NEW: Added an AI Operator flag for dealers to enable and disable in automation rules.
5. NEW: Additional Automation Rule Actions for site Entry Timer, Exit Timer, and System Alarm conditions
6. NEW: WebRTC Streaming for live HD video and audio streaming
7. NEW: Full-duplex audio for intercom functions
8. NEW: Added Hikvision API library
9. NEW: Added controls for camera relays in the mobile app and customer browser portal
10. NEW: Added logic for disarmed activity events, allowing dealers to use CHeKT as cloud cloud-based storage solution.
11. NEW: Allow dealers to select the desired streaming configuration. The default is 720p, optional downscale to 360p.
12. NEW: Function in the dealer portal for dealers to see analytics status on the device list page
13. UPDATED: Axis API library
14. UPDATED: Updated the time sync logic for updating cameras. Separated the Time Zone and time values. The camera time zone is set based on the site's address.

BUG FIXES

1. FIXED: Set the proper streaming resolution for cameras in aisle mode.
2. FIXED: Fixed automation rules that cover time crossing over midnight.
3. FIXED: Event Time value is wrong on the Activity log.
4. FIXED: Audio broadcast message cut off when playing audio messages
5. FIXED: Issues with mounting Vitek NVRs and Cameras.

FIXES – Build 6

1. FIXED: Discovery logic on Axis camera used port 554 for authentication instead of port 80.

CHANGE Functions

1. CHANGED: Standard streaming profile from 360p and 6 FPS to 720p and 8 FPS
2. CHANGED: Emergency IP Address calculation is now from 2nd NIC on the CKB416
3. CHANGED: Improved device discovery for finding IP cameras on the local network.
4. CHANGED: Improved internal CLI streaming functions to improve video stream stability.
5. CHANGED: Zone numbering logic for cameras. Restricting camera zone numbers from 1 – 699. No duplicate numbers on the first zone number value.
6. CHANGED: Local API sends a 406 Status Code to refuse events when disarmed.
7. CHANGED: Updated all encrypted communication to TLS 1.2 & 1.3 and removed vulnerable cipher suites from TLS 1.2
8. CHANGED: Updated FFMPEG from 3.3 to version 6.1.
9. CHANGED: MQTT QOS from 0 to 2
10. CHANGED: AI Analysis timing. Now, all events are analyzed immediately. (Except for Exit Timer events, they are still ignored)
11. CHANGED: Armed Operation logic, when AI alarm filtering is enabled. Armed operations will not begin if AI event is false. Armed operation will begin if AI event is true or AI API false.
12. CHANGED: The camera mounting process is now 4 steps and completes 75% faster.
13. CHANGED: Local API for alarms will now accept events up to 120 seconds old.

CHANGE Functions – Build 2

1. CHANGED: CameraTriggered Automation Rule to work when AI Operator flag is true and AI engine is disabled.

CHANGE Functions – Build 3

1. CHANGED: Get event snapshots timeout to 20s from 5s
2. CHANGED: Get live snapshot timeout to 7s from 2s
3. CHANGED: Dahua/Hikvision devices do not respond to ONVIF request unless the request has WS-Token
4. CHANGED: GeoVision cameras have video, audio, metadata stream in its SDP description.
 - a. But when SETUP metadata stream it gives 500 (internal server error) and overall PLAY RTSP stream fails

- b. ADD a retry logic to connect RTSP stream w/o metadata when this happens
- c. The same logic applied to audio as well, but not for video.

CHANGE Functions – Build 5

1. CHANGED: Allow mounting of HTTP streams from Axis cameras
2. CHANGED: Allow mounting of Hanwha cameras that don't respond with auth type information.
3. CHANGED: Hanwha cameras w/ new FW respond w/ 400 instead of 401 when unauthorized.

ADDED Support

1. ADDED: Support for analytics topics from Axis multi-lens cameras.
2. ADDED: Support for analytics topics from Avigilon multi-lens cameras.
3. ADDED: Three new zone types
 - a. Live Video Zone – No alarm events. (Ignore all alarm conditions and only live video streaming.)
 - b. Intercom Armed – Intercom notification zone only when the system is armed
 - c. Intercom 24-hour – Intercom notification zone when the system is armed and disarmed.
4. ADDED: New Intercom zone alarm code: E420
5. ADDED: Support for disarmed activity events. (Dealer Portal function controls are not released yet.)
6. ADDED: Support for Profile G and access SD storage on cameras. (Dealer Portal function controls are not released yet.)
7. ADDED: Support for Reolink ONVIF cameras
8. ADDED: Support for USB to Ethernet adaptors connected to the CKB308 and CKB312v2 Video Control Panel.
9. ADDED: Support for RTSP Metadata analytics
10. ADDED: Support for dealer-defined time-out value on AI analysis.
11. ADDED: Support for dealers to select the camera stream they want to mount. The dealer can select any stream available via the API call.
12. ADDED: Support for new CKB416v1 ADC voltage formula.

ADDED Support – Build 3

1. ADDED: Logic to overcome situation w/o stale=true when nonce is expired (vd).
2. ADDED: Support for generating snapshots from 4K resolution video (H264)

ADDED Support – Build 6

1. ADDED: mDNS discovery logic to find Axis cameras
 - a. Now: mDNS discovery will locate Axis IP Speakers, IP cameras without ONVIF and General RTSP devices