

# FW 5.1.8 Build 2 Release Notes – Improvements

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The CHeKT Video Control Panel Firmware release notes include new features and bug fixes added since FW version 5.1.7 Build 1. 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.

## Notes for Dealers

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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.

### New Features

- **Audio Recording Flag Support**
  - Introduced a new `IsAudioRecordingEnabled` flag logic to separately control audio recording for automation rules and event video recording.
  - Dealers can now fine-tune whether audio is included in cloud recordings, increasing privacy control and regulatory compliance flexibility.
- **ONVIF Smart Event Stream Handling**
  - The firmware now automatically selects between `PullMessages` and `PlayRTSPEventStream` based on camera compatibility, improving event handling across various ONVIF-compliant models.

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### Bug Fixes

#### General Platform Fixes

- **Improved Logging**
    - Added detailed connection status logs to assist in diagnosing online/offline transitions.
    - Enhanced diff logging for offline device configurations to highlight discrepancies.
  - **Playback and Video Export Stability**
    - Fixed Axis camera playback failures due to invalid stream URL retrieval.
    - Fixed issues with downloading playback video from Axis and OpenEye cameras.
    - Corrected the Camect `DisarmedActivityEvent` being incorrectly treated as an alarm.
    - Resolved a rare runtime error and command duplication in `PlayRTSPEventStream` logic.
    - Ensured time-sensitive components such as Daylight Saving Time (DST) work correctly on Hikvision models.
  - **SmartCodec Handling**
    - Improved support for Avigilon cameras with SmartCodec enabled by detecting dynamic frame rate behavior and adjusting synchronization logic accordingly.
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## Camera-Specific Enhancements

### Dahua (DH-IPC-HDW3849H-AS-PV-S3)

- Improved playback reliability under slow network conditions.
- Added a 1-second delay before initial RTSP PLAY requests to prevent 500 errors.
- Implemented routines to retry API handshakes when using cached RTSP URLs.

### Axis

- Resolved multiple playback and event stream bugs.
- Improved RTSP event stream stability by eliminating duplicated commands and preventing stream failures.

### i-PRO (WV-S8574L)

- Restored OE event creation by implementing a reverse search logic for source channel ID, resolving inconsistencies in camera event metadata.

### Homaxi

- Added support for RTP sequence numbers and timestamps starting at 0, ensuring smooth initial SD card playback.

### Clinton AI Box

- Resolved Intrusion Event detection failure by adding fallback logic for undefined RTSP metadata topics.

### OpenEye

- Fixed MP4 event video generation by introducing synthetic AAC config headers when missing from the camera's SDP.

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## System Behavior Adjustments

- **Relay Recovery After Reboot**
  - Improved relay state persistence—if a relay was latched before a power cycle, it now retains its state after reboot.
- **Scheduled Arming Optimization**
  - Prevented redundant SD card writes when arming state is changed by a schedule.
  - Reduced unnecessary storage of backup configuration data during scheduled arming transitions.

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This firmware continues CHEKT's commitment to platform stability, camera interoperability, and practical dealer controls. Please ensure your site cameras are compliant and up to date for optimal performance.