

# FW 4.1.0 Build 4 Release Notes – Minor Release

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The CHeKT Video Bridge Firmware release notes include new features and bug fixes added since FW version 4.0.0 Build 1. This Video Bridge 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 taking longer, we advise you to allow the Bridge at least one hour before attempting a power cycle or reboot.

## Firmware Update Notes

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### NEW Features & Improvements

1. NEW: Added Support for Intelligent Snapshot Selector.
  - a. By default, the Bridge creates 4 pre-alarm trigger and 4 post-alarm trigger snapshots. In some cases, the camera analytics creating the alarm trigger is delayed in providing the alarm trigger to the Bridge, causing the 8 snapshots to miss the actual event. This has not been a problem due to our 20-second video alarm, but now, with video AI integration, the AI engine may miss if the 8 snapshots do not include images of the critical alarm incident.
  - b. When enabled, CHeKT Intelligent Snapshot Selector will use advanced image analysis to find the best 8 snapshots out of the 20-second alarm video and send these to our AI engine providers for evaluation.
2. NEW: Added Support for longer alarm video events. The length alarm video event has been a static setting up until this firmware version. The default setting is 7 seconds pre-alarm and 7 seconds post-alarm video. CHeKT Dealers can now modify the pre-alarm video from 5 to 10 seconds and 10 to 60 seconds of post-alarm video.
  - a. Settings are on the camera settings within the CHeKT Dealer Portal on the Alarm tab.
  - b. Important Note: When the length of the alarm video is increased, this will delay the video alarm upload and availability in the alarm center monitoring portal.
3. NEW: Added Motion & Lighting Score Filter
  - a. This feature is designed to assist dealers using cameras with only motion detection or unstable video analytics. This feature will use pixelation density movement and lighting change to determine if an event should be an alarm signal analyzed by AI.
4. NEW: Added Support for More IP Speaker Channels.
  - a. CKB304 – 4 IP Speakers
  - b. CKB308 – 8 IP Speakers
  - c. CKB312 – 12 IP Speakers
  - d. CKB416 – 16 IP Speakers
5. NEW: Added “Listening” audio support in the CHeKT mobile app. This requires the camera to support a microphone and audio streaming support.

## **BUG FIXES**

1. FIXED: Automated Rules for Relay Latching Conflicts.
2. FIXED: Transcoding TS Video with Audio Issues Using Too Much CPU.
3. FIXED: Audio Broadcast bug that causes audio to cut off early.
4. FIXED: Arming Operations between multiple bridges where only primary Bridge arms and sub-Bridges do not arm.
5. FIXED: An XML Alarm Signal is not sent when a 3<sup>rd</sup> party platform creates an event with Local Bridge API, and the 3<sup>rd</sup> party platform provides the video event and CHeKT Cloud AI is enabled.

## **CHANGE Functions**

1. CHANGED: TS Video Buffer from 50 seconds to 100 seconds.
2. CHANGED: Watchdog to reset ICManger if API Stops.
3. CHANGED: Improvement to internal LogLevel.
4. CHANGED: Increased the HTTP Client Timeout value for uploading video files. 5 Minutes.
5. CHANGED: Improved ONVIF Pull-Point subscription logic to refresh URL based on the termination length provided by the video device.

## **ADDED Support**

1. ADDED: Routine to close existing Pull-Point subscription URL and create a new Pull-Point subscription every hour.
2. ADDED: Routine to refresh Pull-Point subscription URL
3. ADDED: Routine for Bridges to check armed operation every 30 seconds.
4. ADDED: VideoSourceToken to ONVIF Event Stats for internal data logging and stats.