

FW 5.1.4 Build 8 Release Notes – Bug Fixes & Improvements

The CHEKT Video Control Panel Firmware release notes include new features and bug fixes added since FW version 5.3.0 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

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

ADDED Support

1. ADDED: PullingMessages w/ Timeout
 - a. Feature to recreate PullPointSubscriptionURL even when the URL timesout.
 - b. Logic from Bridge Firmware 4.X and below that was not included in the initial 5.X build
2. ADDED: OnVideoData, OnAudioData logs for better debugging.
3. ADDED: Caching for GetVideoSources from cameras.
4. ADDED: Put_cache in onvif request for quicker response in app.chekt.com
 - a. This is used mainly for GetRelayOutputs, GetAudioOutputConfigurations, GetAudioOutputConfigurationOptions
5. ADDED: ADD logic to fix failure to view playback timeline from Turing EVD5FT camera
6. ADDED: Filter out duration event which is object tracking metadata
7. ADDED: known_issues.md for a goodwill reference for the other developers
8. ADDED: Support for remount API for remounting cameras.

BUG FIXES

1. FIXED: Cameras still generate alarms via ONVIF API after switching to Hikvision API
 - a. Switching between API was not applied to alarm API,
 - b. This bug was revealed when dealers switched from ONVIF to HIK API using the Reauthentication function.
2. FIXED: Disconnection of alertStream after a VMD event occurs
 - a. Hikvision camera bug on DS-2CD2347G2H-LISU/SL (V5.7.13 build 230706)
 - b. After VMD event, the camera gives --boundary-- which is indicator of closing multipart stream according to rfc2046 spec.
 - c. ADD logic to remove --boundary-- when detected. It is safe because alertStream is meant to be stay connected, never closing.

- d. DS-2CD1021-I (V5.5.84 build 191010) doesn't have this problem.
- 3. FIXED: Stop receiving events after fielddetection event occurred
 - a. Hikvision camera bug on DS-2CD2347G2H-LISU/SL (V5.7.13 build 230706)
 - b. Fielddetection topic has active and inactive event.
 - c. After inactive event, the camera gives mal-formed multipart boundary which I call empty boundary.
 - d. ADD logic to remove empty boundary when detected
 - e. e.g. --boundary\r\n--boundary\r\n
- 4. FIXED: Hikvision event_topics doesn't work on DS-2CD2347G2H-LISU/SL
 - a. Didn't work on: DS-2CD2347G2H-LISU/SL (V5.7.13 build 230706)
 - b. It worked: DS-2CD1021-I (V5.5.84 build 191010)
- 5. FIXED: Cannot use WebRTC live w/ non-80-port Hikvision cameras
- 6. FIXED: Cannot use PTZ control w/ non-80-port Hikvision cameras
- 7. FIXED: Download 1 minute playback video failed sometimes
- 8. FIXED: Stopped ONVIF Events sometimes
 - a. APPLY videodevice.RunEventsReceivingWithOnClose to run a cleanup routine after RunEventsReceiving ends
 - b. ADD logic to ignore err from videodevice.IsEventsReceivingAlive in EventsReceivingStartIfNotRunning
 - a. Error occurs on parsing JSON failure or vd itself has bug, for both cases.
- 2. FIXED: Slow changing WebRTC video from one to another (it takes about 20 seconds)
 - a. This happens only on cameras w/o audio.
 - b. This did not happen on video/audio stream.
- 3. FIXED: P2P is disconnected while playing playback video sometimes
 - a. runtime error: invalid memory address or nil pointer dereference
- 4. FIXED: Slow seeking WebRTC playback video (it takes about 20 seconds)
- 5. FIXED: 1fps RTSP stream from Axis camera (zipstream)
 - a. It happens only in AXIS P3827-PVE Panoramic Camera
 - b. Zipstream is enabled by default in RTSP stream from this Axis camera by somehow (don't know when, how, why, which logic)
 - c. The Zipstream introduces 2 seconds latency and timestamp out of order, because it utilize B-frame.
 - d. ADD videoframeskipmode=empty and videozprofile=classic to disable Zipstream
- 6. FIXED: IP speaker doesn't play audio on Quinton IP Speaker
 - a. It was working with CKB FW v4.X or below.
 - b. It was Digest auth failure issue when algorithm=MD5 is present in the request header
 - c. Since it is not a mandatory option, We removed the algorithm=MD5 when the server requests it via its response header.
- 7. FIXED: The latest device info of model, fw_ver not updated to CHekT BE after camera's FW is updated.
 - a. REPLACE VideoDeviceInformationWithCaching with VideoDeviceInformationUseCacheOnlyIfNotReponding
 - b. VideoDeviceInformationWithCaching was designed to quicken the whole camera mounting process and also it is a failsafe routine for those cameras w/ "ONVIF API stops responding symptom, but only RTSP stream responds"
- 8. FIXED: Missing stopped recording period in ONVIF Profile G for CHekT IP cameras.