

# FW 3.1.0 Build 5 Release Notes – Features Release

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The CHeKT Video Bridge Firmware release notes include all features and bugfixes added since FW version 3.0.1 Build 35. 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 taking 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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### BUG FIXES

1. Alarm restoral XML signals. Since FW 3.0, the Bridge has not transmitted alarm zone restorals. This bug is fixed in this firmware version release.
2. Blank Camera Password: The Bridge would not mount cameras with a blank password value.
3. Fixed offline camera Watch-Dog rest routine.

### IMPROVEMENTS

1. Alarm & Video Event Hold-Off Interval
  - a. The interval between alarm and video event creation. This value is defined in seconds with a minimum of 5s and a max of 3600s. The default value for each bridge zones is 20s. The time defined determines the number of alarm and video events generated within the interval. The default time of 20s means that only one alarm event can be created within 20 seconds. If the zone is triggered multiple times within the interval value, his setting is used to throttle or limit the number of excessive event alarms to one alarm event.
2. Improve ONVIF Event Message Restoral Logic. This is related to the bug fix for alarm restoral codes.
  - a. Not all camera brands create a restoral condition after an analytic rule is triggered.
  - b. Some brands send a restoral after each alarm in sequence like you would expect from an open-closed, open-closed traditional wired zone.
  - c. Some brands will send multiple alarm signals before sending a restoral signal as if to say, "I'm in alarm, I'm still in alarm, I'm still in alarm, I am now restored.
  - d. Some brands only send alarm messages and never send a restoral message.

- e. So, If the camera sends multiple alarms and then one restoral, the Bridge sends only one alarm and one restoral "During an Event Interval." As if to say, the zone was open the whole time and then closed.
- f. If the camera does not send a restoral, the Bridge does send a restoral XML code for these zones.
- g. This information is important for central stations to understand when a restoral signal is not received from a CHEKT Bridge zone using camera analytics.

## NEW FEATURES

1. Swinger Bypass Control: Each Bridge zone has a configurable swinger bypass value. The default value is 0, meaning the feature is disabled.
  - a. When defined with a value of greater than 0, the number of alarms is counted during an "armed period." When the number of alarms reaches the value of the Swinger Bypass counter, the zone is automatically bypassed and does not create any more events until the bypass is reset.
  - b. The swinger bypass counter is incremented by the number of alarm events, not zone triggers. So if the Alarm & Video Event Interval is set to 20s and there are 5 triggers within 20s, this is only one alarm and therefore only one count to the swinger bypass value.
  - c. The default Swinger Bypass value is – 0 (Meaning Disabled.)
  - d. When a value is set, and the counter is reached, bypassing the zone, the Bridge sends an E575 alarm code to the central station.
  - e. The swinger bypass counter is reset by system disarm. The Bridge sends an R575 signal to the central station with the bypass is restored.
  - f. Future Development: Dealers will be able to define a timer value of between 1-24 hours to reset the swinger bypass counter automatically.
2. Analytics Rules Management:
  - a. This feature will allow dealers to define which specific analytic rule topics created by a camera will create a "CHeKT Based" alarm/video event. This is a feature requested by many dealers wanting to ignore Motion topics from their cameras.