

## HiLCOS 10.34 Release Update 6

2023-12-20 - Christoph Strauss - Wireless

### Overview on new features as of version 10.34.6201-RU6

#### WLAN Diagnostic Log additions

- Receive signal strength information about neighbor access points is additionally provided in WLAN-Diagnostics Log. The presented information on signal strength is equivalent to the WLAN-STRENGTH trace information.
- A new column "Signal Quality (%)" is added - reflecting the PHY-SIGNAL value for the respective node.

#### Country Profile Updates

- India:
  - For all BAT devices the radio transmission power in 5GHz band 1 is increased to the regulatory limits.
  - In DFS required bands, the "device channel list" prioritizes the channels, but if exhausted (due to radar) will turn to other channels in the configured bands.
- **USA:** For BAT867 devices the radio transmission power in 5GHz band 1 is increased to the
  - regulatory limits.
- **Mexico:** For all BAT devices the 5GHz band 1 is added.

#### India Time zone (UTC +5:30) Support

With HiLCOS 10.34-RU6 the India Time zone (UTC +5:30) is supported in BAT devices.

### Bugfixes and improvements in version 10.34.6201-RU6

- 11n radio: In case of a non-symmetric wireless propagation environment a BAT device operating as a WLAN client might stick to an AP as long as it is receiving with a good signal, even when the AP is no longer successfully receiving packets from the BAT device.
- With 10.34-RU6 the BAT will now force roaming to an alternative AP in case this

situation is detected.

- In HiLCOS 10.34 versions prior to RU6 - BAT867 and BAT450-11ac client devices were not buffering packets while performing background scans. As a result, increased packet loss is observed in a roaming environment. This issue is fixed in 10.34-RU6.
- The WPA3 Enterprise standard is not compatible with the Pre Authentication feature, that accelerates roaming. If it is configured (even in WPA2/3 mixed mode), this can lead to slow roamings. Possible work-arounds are:
  - In pure WPA3 or WPA2/3 mixed mode: Set "Fast roaming" for both AP and Client devices. Mixed modes like "Standard & Fast Roaming" are not supported. Make sure to either set the client, or AP, or both to "Fast Roaming" exclusively.
  - Switch to WPA2 mode with "Pre Authentication" enabled
- In HiLCOS 10.34 versions prior to RU6 the setting to use Pre-Authentication in client mode could sporadically lead to failures while roaming. This issue is fixed in 10.34-RU6.
- In HiLCOS 10.34 versions prior to RU6, the key distribution of the Opportunistic Key Caching feature was failing. This issue is fixed in 10.34-RU6.

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