

## **DAP-1650** Firmware Patch Notes

Firmware: 1.04B01 WW BETA Hardware: Ax Date: December 11, 2017

**Note:** This release is to patch the WPA2 Key Reinstallation Attack (KRACK) Security Vulnerabilities affecting this product.

## **Problems Resolved:**

A WPA2 wireless protocol vulnerability was reported to CERT//CC and public disclosed as: **VU#228519** - Wi-Fi Protected Access II (WPA2) handshake traffic can be manipulated to induce nonce and session key reuse.

The following CVE IDs have been assigned to VU#228519. These vulnerabilities in the WPA2 protocol:

- CVE-2017-13077: reinstallation of the pairwise key in the Four-way handshake
- CVE-2017-13078: reinstallation of the group key in the Four-way handshake
- CVE-2017-13079: reinstallation of the integrity group key in the Four-wayhandshake
- CVE-2017-13080: reinstallation of the group key in the Group Key handshake
- CVE-2017-13081: reinstallation of the integrity group key in the Group Keyhandshake

• CVE-2017-13082: accepting a retransmitted Fast BSS Transition Re-associationRequest and reinstalling the pairwise key while processing it

• CVE-2017-13084: reinstallation of the STK key in the PeerKey handshake

• CVE-2017-13086: reinstallation of the Tunneled Direct-Link Setup (TDLS)PeerKey (TPK) key in the TDLS handshake

• CVE-2017-13087: reinstallation of the group key (GTK) when processing aWireless Network Management (WNM) Sleep Mode Response frame

• CVE-2017-13088: reinstallation of the integrity group key (IGTK) whenprocessing a Wireless Network Management (WNM) Sleep Mode Responseframe

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