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IQ Engine 10.4r1 Release Notes

Release date: September 17, 2021

Hardware platforms supported: AP4000, AP4000U

Management platforms supported: ExtremeCloud IQ 21.3.20.1 and later

New Features and Enhancements

This release introduces the following new features and enhancements:

New Hardware Support: IQ Engine 10.4r1 supports the AP4000 and AP4000U access point.

Wi-Fi 6E Support: Wi-Fi 6E extends Wi-Fi 6 (2.4 GHz and 5 GHz) to include the new 6 GHz band. The additional band offers sufficient frequency range to allow fifty-eight 20 MHz channels, twenty-nine 40 MHz channels, fourteen 80 MHz channels, or seven 160 MHz channels in the FCC regulatory domain.

Wi-Fi 6E Channel Width: This release supports 20, 40, 80, and 160 MHz channel widths in the 6 GHz band.

Wi-Fi 6E Backward Compatibility: Devices that communicate in the Wi-Fi 6E 6 GHz band can no longer use legacy authentication to connect. Open, WEP, WPA, and WPA2 are no longer supported, so devices must use Enhanced Open (which uses OWE), WPA3 Personal, or WPA3 Enterprise authentication.

Wi-Fi 6E Out-of-band Discovery: When client devices probe Wi-Fi networks on the 2.4 GHz or 5 GHz band, they can learn about the existence of an SSID on the 6 GHz band through the Reduced Neighbor Report (RNR) information element in probe responses. When an AP responds to a probe, the probe response has an RNR information element that contains the channel numbers of the SSID on the 6GHz band. This reduces the time a client needs to discover networks.

Known and Addressed Issues

The following tables list known and addressed issues in IQ Engine 10.3.

Known Issues in IQ Engine 10.4r1

HOS-17639	The output power of 20 MHz wide 6 GHz channels sometimes changes when changing to another 6 GHz channel or when rebooting.
HOS-17620	802.11n/g traffic is sometimes disrupted when the admin disables WMM.

Addressed Issues in IQ Engine 10.4r1

This is the inaugural release of IQ Engine 10.4.