

IQ Engine 10.3r2 Release Notes

Release date: April 15, 2021

Hardware platforms supported: AP302W, AP305C, AP305CX, AP410C, AP460C, AP510C, AP510CX, AP630, AP650, AP650X

Management platforms supported: ExtremeCloud IQ 21.1.50.1 and later

New Features and Enhancements

This release introduces the following new features and enhancements:

Taiwan DFS Improvements: Taiwan DFS is now enabled on AP410C, AP460C, AP460S6C, and AP460S12C access points running IQ Engine 10.3r2.

ExtremeLocation Essentials and AirDefense Essentials Support: AP302W wallplate access points running IQ Engine 10.3r2 now support ExtremeLocation Essentials and AirDefense Essentials features.

In addition, AP510C and AP510CX access points can now support ExtremeLocation Essentials in radio share mode, and AirDefense Essentials in both dedicated sensor mode and radio share mode.

Antenna Support Enhancement: AP305CX, AP510CX, and AP650X access points running IQ Engine 10.3r2 now supports the following additional antennas:

Name	Model	2.4 GHz Gain	5 GHz Gain
Indoor Omni	AH-ACC-ANT-AX-KT ML-2452-APA2-01 ML-2452-APA2-02	5 dBi	5 dBi
Indoor 2-port Omni	ML-2452-PTA2M2-036	4 dBi	5 dBi
Indoor 4-port Omni	ML-2452-PTA4M4-036	5 dBi	6.6 dBi
Indoor and Outdoor 4-port Omni	AI-DQ04360S	5.5 dBi	6 dBi
Indoor and Outdoor 4-port Directional	ML-2452-SEC6M4-036	6.9 dBi	7.2 dBi

AP305CX, AP510CX, and AP650X access points using the antennas listed in the table are supported in the following countries:

Australia, Canada, Colombia, Costa Rica, Dominican Republic, El Salvador, EU, Guatemala, Hong Kong, India, New Zealand, Peru, Philippines, Russia, Saudi Arabia, Singapore, South Africa, United Arab Emirates, United States, and United Kingdom

AP305CX access points using the antennas listed in the table are also supported in the following countries:

Ecuador, Indonesia, Kuwait, and Malaysia

Fabric Attach Support: When an AP running IQ Engine 10.3r2 connects to a Fabric Attach switch, the AP detects that it is connected to a Fabric Attach switch and receives the management VLAN. The AP can then send connection and environment information to ExtremeCloud IQ.

Passpoint 2.0 Support: AP305C, AP305CX, AP410C, and AP460-series access points now support Passpoint 2.0.

Security Hardening: This release hardens IQ Engine against fragment cache attacks, mixed key attacks, and frame aggregation attacks. This release also includes PHP 7.4, which address vulnerabilities in previous versions.

DTLS Pass Phrase Hardening: The DTLS pass phrase is no longer accessible through the command line.

Known and Addressed Issues

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

Known Issues in IQ Engine 10.3r2

HOS-16894	AP305C access points sometimes become unresponsive or spontaneously reboots.
HOS-16878	Devices running IQ Engine 10.3r1 sometimes generate alarm messages with neighborhood background scanning disabled.
HOS-16843	Devices running IQ Engine 10.3r1 sometimes generate WIPS alarm messages for excluded channels.
HOS-16800	Multi-user (MU) MIMO not functioning properly on high-efficiency (HE) clients.
HOS-16793	AP302W wallplate access point experiences high packet loss and loss of connectivity after the admin enables private client groups (PCG).
HOS-16248	Zero-wait DFS does not function properly on AP410C and AP510C access points.
HOS-14251	Stations sometimes cannot reconnect after a DFS event.

Addressed Issues in IQ Engine 10.3r2

CFD-6092	The Eth1 port of the AP302W access point did not supply sufficient PoE power to supply some devices.
HOS-16837	The channel width on some APs did not change dynamically.
HOS-16833	Software Defined Radio (SDR) configurations sometimes did not upload successfully to the AP.

Addressed Issues in IQ Engine 10.3r1

This is the inaugural release of IQ Engine 10.3.