IQ Engine v10.7.5 Release Notes

New Features, Fixes, and Known Issues

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Abstract

The release notes for IQ Engine version 10.7.5 detail new features, supported platforms, addressed issues, and known limitations. Key technical points include support for Real-Time Troubleshooting and Packet Capture over Inlets on 6E access points, Energy-Efficient Ethernet (EEE) on the AP5020, and Hotspot 2.0 configuration. The document also highlights the addition of AFC change notifications for channel or power requests, support for Chorus and HTTP Post for Wi-Fi 6E APs, and increased BLE tag entries for HTTP-Post batch reporting. Addressed issues include fixes for 802.1x authentication reoccurrence, PPSK user authentication failures, and various performance and connectivity problems. Known issues involve WPA3 client association problems and boot issues with non-Extreme micro-USB cables. The document provides details about the IQ Engine version 10.7.5 release, making it essential for network engineers handling large-scale wireless deployments.

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General Release Information for Release 10.7.5

Release Date

January 2025

New Hardware Supported

There is no new hardware supported for Release 10.7.5.

Hardware Platforms Supported

- AP650
- AP650X
- AP305C/CX
- AP305C-1
- AP302W
- AP510C/CX
- AP410C
- AP410C-1
- AP460C
- AP460S6C
- AP460S12C
- AP3000
- AP3000X
- AP4000
- AP4000-1
- AP5010
- AP5020
- AP5050D
- AP5050U

Management Platforms Supported

ExtremeCloud IQ 25.1.0 and later

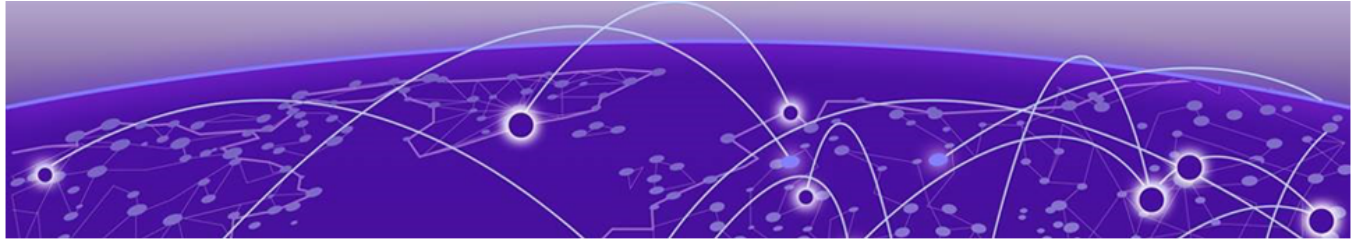Related Links

New Features in Release 10.7.5

This release of ExtremeCloud IQ Engine includes various compliance updates.

Table 1: New features in 10.7.5

Feature ID	New feature	Description
HOS-20193	Real-Time Troubleshooting (RTTS) and Packet Capture over Inlets	IQ Engine supports near Real-Time Troubleshooting and datastream on the 6E access points, including AP3000/X, AP5010, and AP5050U/D.
HOS-20268	Support 802.3az Green Ethernet for AP5020	IQ Engine supports Energy-Efficient Ethernet (EEE) or IEEE 802.3az on the AP5020. Enable EEE to permit the network port to switch between an active mode (during data transmission) and idle mode (when there is no Ethernet traffic). With this feature, physical layer transmitters consume less power when they are in a state of idleness or low data activity.
HOS-20481	Hotspot 2.0 Configuration Support for IQ Engine	IQ Engine supports Hotspot 2.0 configuration.
HOS-21081	AFC: Change of channel or power notifications	IQ Engine provides notifications for AFC change of channel or power requests, where the change disables radio, and also for the initial enabling of an AFC controlled radio.
HOS-21083	Generic Scan: Chorus and HTTP Post support for Universal HW 6E APs	IQ Engine supports Chorus and HTTP Post for all Wi-Fi 6E-capable APs.
HOS-21182	WiFi 6 and 6E AP IOT Scans: Remove duplicate entries in HTTP post as default	By default, BLE scans have unique BLE entries. IQ Engine supports a CLI option to remove duplicates that must be turned OFF if you prefer to receive multiple entries for same tag. On WiFi 6E APs this feature supports iBeacon and Generic BLE scans. On WiFi 6 APs, this feature supports iBeacon scans only.

Table 1: New features in 10.7.5 (continued)

Feature ID	New feature	Description
HOS-21196	AP5020/AP4020 IOT Scans: Option to remove duplicate entries in HTTP post	By default, BLE scans have unique BLE entries. IQ Engine supports a CLI option to remove duplicates that must be turned OFF if you prefer to receive multiple entries for same tag. On AP5020 and AP4020, this feature supports iBeacon, Eddystone and Generic BLE scans.
HOS-21205	AP5020: Increase tag entries for HTTP-Post batch reporting	Up to 300 BLE entries are reported per batch interval in HTTP Post. On AP5020, this feature supports iBeacon, Eddystone and Generic BLE scans.
HOS-21208	AP5020 - Upgrade eSDK to 7.1.2	The AP5020 supports eSDK 7.1.2.
HOS-21284	"RegreSSHion" Vulnerability in OpenSSH	CVE-2024-6387, also known as the "regreSSHion" vulnerability is patched in this release.
HOS-21355	WiFi 6/6E AP: Increase tag entries for HTTP-Post batch reporting	Up to 300 BLE entries are reported per batch interval in HTTP Post. On WiFi 6E APs this feature supports iBeacon and Generic BLE scans. And on WiFi 6 APs this feature supports iBeacon scans only.
HOS-21535	VLAN Counters support on AP5020	IQ Engine supports the `Show Interface Vlan Counters` command for AP5020.
HOS-21701	HotSpot 2.0 Configuration In IQ Engine—11ax support	To support the ExtremeCloud IQ Hotspot 2.0 feature, the 802.11ax APs (AP305C/X, AP410C, AP510C/X, AP460C/S6C/S12C) must run IQ Engine 10.7.5, or later.
HOS-21829	Fabric-Attach (Autosense) IQ Engine new Default LLDP Handling (3000/X, AP5010, AP5050)	IQ Engine 10.7.5 enables LLDP by default, for AP3000/X, AP5010, and AP5050U/D models.
HOS-21847	Add Port Description (TLV) to LLDP Neighbor (302W & 6E APs)	The `Show lldp neighbor` command includes the **Port Description** field.

Addressed Issues in Release 10.7.5

Table 2: Addressed issues in 10.7.5

Issue ID	Description
CFD-11844 (02871771)	We resolved an issue where 802.1x authentication would reoccur on Eth0.
CFD-12152 (02991956, 02994867, 02995713,02993534, 03007447, 03001635, 03053431)	We resolved an issue where PPSK user authentication failed with incorrect password logs, in 10.7r2 with 802.11r enabled.
CFD-12418 (03007758)	We resolved an issue where, under certain conditions, the DCD Daemon was not running and causing errors on the AP5010.
CFD-12492 (03004220, 03016826)	We resolved an issue where Fabric Attach configurations were being removed on reboot after `save config` in sCLI.
CFD-12675 (02668167)	We resolved an issue where the CRC firmware check was failing.
CFD-12722 (03022452)	We resolved an issue where users were not receiving credentials after registering for the Guest network through the Captive Web Portal.
CFD-12747 (02928391)	We resolved an issue where one-way audio occurred on the AP5010.
CFD-12756 (02998905, 03051701)	We resolved an issue where Wireshark could not parse gratuitous ARP from AP as an LLC frame.
CFD-12869 (03036308)	We resolved an issue where the Logging flash was full of unnecessary logs, making it difficult to troubleshoot other issues. In releases earlier than 10.7.5, SNMP queries such as snmpwalk -c hivecommunity -v 1 10.254.157.99 .1.3.6.1.4.1.26928.1.2.7.0 generated logs similar to ah_dcd: application: handle_ahUptime sec = 1333, msec = 490.
CFD-12871 (03036165)	We resolved an issue where, under certain conditions, AP5020s would become unresponsive and performance would degrade.
CFD-13093 (02928391)	We resolved an issue where Spectralink VoIP phones displayed an **Insufficient Bandwidth** message after a roam.

Table 2: Addressed issues in 10.7.5 (continued)

Issue ID	Description
HOS-21436, HOS-21437, HOS-21439, HOS-21440, HOS-21441	We resolved various issues where the enhanced packet capture filters did not work.
HOS-21840	We resolved an issue where Wireless clients disconnected from the AP5020 when packet captures were run.
HOS-21941	We resolved an issue where packet captures were unexpectedly ending at 30 seconds on the AP5020.

Known Issues in Release 10.7.5

Table 3: Known issues in 10.7.5

Issue ID	Description
HOS-17683	Some WPA3 clients cannot associate to the AP4000 properly when band steering is enabled. **Workaround:** Disable band steering.
HOS-18313	AP5010, AP5050D, and AP5050U devices will not boot when some non-Extreme micro-USB cables are connected. **Note:** For all Extreme Networks access points, use the Extreme Networks certified ACC-WIFI-MICRO-USB console cable. Other MICRO-USB console cables have not been certified by Extreme Networks. **Workaround:** Use an Extreme Networks certified console cable, or plug in the cable after the AP boots.

Earlier 10.7 Releases

The following sections provide information about changes for earlier IQ Engine 10.7 releases.

Release 1: 10.7.1 New Features and Addressed Issues

New Hardware Supported

Release 10.7.1 adds support for the AP5020.

Table 4: New features in 10.7.1

Feature ID	New feature	Description
HOS-18819	AP5020: Bring up Multi BLE for Dual IoT Radio	For AP5020, we changed the iBeacon defaults. Old Defaults: • UUID: 4165726F686976654E6574776F726B73 (AerohiveNetworks) • MAJOR: 1 • MINOR: 1 New Defaults: • UUID: 00000000-0000-0000-0000-000000000000000 • MAJOR: 0 • MINOR: 0
HOS-20002	AP5020 SDR Mode Configuration Phase 1 (Mode1 & Mode3)	The AP5020 supports two radio modes with IQ Engine 10.7r1: • Mode 1 (Tri-Radio): 2.4 GHz (Radio-1), 5 GHz (Radio-2), 6 GHz (Radio-3) • Mode 2 (Dual 5 GHz w/ 6 GHz): 5 GHz (Radio-1), 5 GHz (Radio-2), 6 GHz (Radio-3)

Table 4: New features in 10.7.1 (continued)

Feature ID	New feature	Description
HOS-20184	AP5020 - 320Mhz support	We added AP5020 (WiFi 7) support for the 320 MHz channel, on the 6 GHz radio.
HOS-20191	AP5020 : 4096-QAM – 6G radio only	We added AP5020 support for 4096-QAM on the 6 GHz radio.
HOS-20501	Add Tier 1 Countries for GA release AP5020	We added support for the AP5020 (Wi-Fi7) Access Point to: USA, Canada, EU, Puerto Rico, Colombia, and United Kingdom
HOS-20503	Add all Tier 1A Countries for AP5020	We added support for the AP5020 (Wi-Fi7) Access Point to: Australia, New Zealand, Brazil, Mexico, Japan, South Korea, Singapore, South Africa, and UAE.
HOS-20589	Wi-Fi7 802.11BE features 24r4 / 10.7.1	We added Phase 1 Wi-Fi 7 (802.11be) features to IQ Engine.
HOS-20608	AP5020 SDR Phase 1: Allow only access mode on Wi-Fi interfaces	The AP5020 provides support for client Access Mode only on the Wi-Fi interfaces. Mesh, sensor-mode and client mode support are currently not supported.

Addressed Issues in Release 10.7.1

There are no new addressed issues for Release 10.7.1.

Release 2: 10.7.2 New Features and Addressed Issues

New Hardware Support

There is no new hardware supported for Release 10.7.2.

Table 5: New features in 10.7.2

Feature ID	New feature	Description
HOS-18946	AFC: GA Ready AFC Solution	AFC is now supported on IQ Engine specifically for the AP5050U & AP5050D. AFC support is a requirement for Standard Power use for outdoor 6 GHz radios. The AP must coordinate channel and power availability from an AFC SaaS database before transmitting.
	Thread router—Fix mdns advertisement when using non-default vlan	We resolved an issue with mDNS advertisement when using non-default VLAN.

Table 6: Addressed issues in 10.7.2

Issue ID	Description
CFD-9256 (02740906, 02762111, 02858831)	IQE: ASCOM iP62 randomly drops calls on roaming failures.
CFD-10640 (02903895)	The AP302W Kernel and Hardware Watchdog crashes on 10.6.5.
CFD-10962 (02926088)	Universal APs: Beacons do not show updated WMM QoS values for Contention Window Min and Max.
CFD-10995 (02901029)	The length of R0KH-ID in the Reassociation Response is incorrect, causing an R0KH-ID mismatch and some clients to drop down the connectivity accordingly.
CFD-11040 (02929452)	[IQE] Delta config push issue sometimes causes ACL to not work as the AP IP-policy (firewall).
CFD-11050 (02921799)	[IQE] AP510C 10.6.6 getting "ah_auth" crash, often causing the client to reconnect, due to 32 characters limit.
CFD-11167 (02938970)	PPSK self registration: Security vulnerability with captive portal solution.
CFD-11169 (02918590)	Improper redirect—PPSK Self registration.
CFD-11304 (02946092)	AP5010s unable to establish a CAPWAP connection until after reset.
HOS-20556	We increased the Dynamic Packet Capture file size from 50kb to 100k to address a scenario were captures were not showing up.
HOS-20803	We resolved an issue with Client Monitor 2.0 and Dynamic Packet Capture not working for WPA3-ENT protected SSIDs.
HOS-20992	We resolved an issue with the AP5020 ETH0 Wired speed showing as 10Mbps instead of 10Gbps on the D360 Wired Interface.

Release 3: 10.7.3 New Features and Addressed Issues

New Hardware Support

There is no new hardware supported for Release 10.7.3.

New features in 10.7.3

Feature ID	New feature	Description
HOS-20170	AP5020 Radio Mode Configuration Phase 2 (mode 5, 6)	The AP5020 supports two new radio modes: • Mode 5 (Dual 5 GHz w/ 2.4 GHz: 5 GHz-Low (Radio 1), 5 GHz-High (Radio 2), 2.4 GHz Radio 3 • Mode 6 (Dual 6 GHz w/ 5 GHz): 6 GHz-Low (Radio 1), 5 GHz-Full (Radio 2), 6 GHz-High (Radio 3)
HOS-20275	IQ Engine to Support WPA3+WPA2-Enterprise Transition Mode with 6GHz	We enhanced IQ Engine to support transition mode on the legacy bands (2.4 GHz and 5 GHz) while simultaneously supporting the 6 GHz band. This enhancement introduces a new Protected Management Frames (PMF) setting, **auto**. For configuration options and the corresponding security settings, see *ExtremeCloud IQ User Guide*.
HOS-20867	AP5020: Support for 802.11mc	The AP5020 now supports 802.11mc.
HOS-20688	AP5020: Support for enhanced packet capture	The AP5020 now supports enhanced packet capture.
HOS-20782	AP5020: Support for dynamic packet capture	The AP5020 now supports dynamic packet capture.
HOS-20947	AP5020: Enable iBeacon 'Cloud Reporting' Service	We enabled the Cloud Reporting element for iBeacon for this release.
HOS-20998	Enable 6 GHz Radio for Taiwan for all Wi-Fi 6E and Wi-Fi 7 APs	We enabled 6 GHz radio support for all Wi-Fi 6E and Wi-Fi 7 access points, for Taiwan.
HOS-21002	Enable 6 GHz Radio for Philippines for all Wi-Fi 6E and Wi-Fi 7 APs	We enabled 6 GHz radio support for all Wi-Fi 6E and Wi-Fi 7 access points, for Philippines.
HOS-21004	Enable 6 GHz Radio for Pakistan for all Wi-Fi 6E and Wi-Fi 7 APs	We enabled 6 GHz radio support for all Wi-Fi 6E and Wi-Fi 7 access points, for Pakistan.
HOS-21160	Add Brunei for AP410C	We added support for AP410C in Brunei.

Feature ID	New feature	Description
HOS-21176	Add El Salvador and Trinidad & Tobago for AP5010, AP4000, AP3000 and AP5050D	We added support for AP5010, AP4000, AP3000 and AP5050D in El Salvador and Trinidad.
HOS-21179	Add Algeria for AP305C-WR	We added support for AP305C-WR in Algeria.

Addressed issues in 10.7.3

Issue ID	Description
CFD-9737 (2819337, 02904872)	We resolved an issue with Macbook clients unable to connect to 802.1x SSIDs and receiving "could not be joined" errors. We increased the auth timeout for Macbooks.
CFD-11024 (02918537)	We resolved an issue with the AP5010-WW combining SSIDs in the "show acsp neighbor" list.
CFD-11961 (02973056)	We resolved an issue where redirection to an external Captive Web Portal using IP firewall redirect rules failed if the **Management Options** > **Disable WebUI without the disable CWP** setting was selected.
CFD-12216 (02994322)	We resolved an issue with the output of "show acsp neighbor" showing incorrect values for the RSSI of neighboring access points.
HOS-21270	We rolled back the LED behavior to 10.6.6 for the AP5010. The AP LED is solid white, with AT power and up. Slow-blinking white indicates that power is below AT (for example, AF).