

ExtremeCloud IQ Controller v10.15.01.0037 Release Notes

Enhancements, Changes, Supported Devices, and Known Issues

9039448-00 September 10, 2025

ABSTRACT

This release notes document for ExtremeCloud™ IQ Controller version 10.15.01.0037 outlines technical enhancements, supported hardware, installation guidance, and known limitations for IT professionals managing unified access networks. The release introduces these key features and enhancements: Automated Frequency Control (AFC) is now supported in Canada, SNMPv3 security and secure syslog support have been improved, and backend performance has been greatly improved when handling large datasets during administrative operations.

INTRODUCTION

The ExtremeCloud IQ Controller is a next generation orchestration application offering all the mobility services required for modern unified access deployments. The ExtremeCloud IQ Controller includes comprehensive critical network services for wireless and wired connectivity, wireless device secure onboarding, distributed and centralized data paths, role-based access control through the Application Layer (Layer 7), integrated location services, and IoT device onboarding through a single platform. Built on field-proven architectures with the latest technology, the embedded operating system supports containerization of applications, enabling future expansion of value-added applications for the unified access edge.

- The CE1000 is an application on the Universal Compute Platform 1130C, replacing the E1120 appliance with similar functionality and limits. It supports up to 250 APs/Defenders and 2,000 users standalone, or 500 APs and 4.000 users in a high-availability setup.
- The CE2000 is an application on the Universal Compute Platform 2130C, replacing the E2120 and E2122 appliances with similar functionality and limits. It supports up to 2000 APs/Defenders and 16,000 users standalone, or 4,000 APs and 32,000 users in a high-availability setup.
- The CE3000 is an application on the Universal Compute Platform 3150C, replacing the E3120 and E3125 appliances with similar functionality and limits. It supports up to 10,000 APs/Defenders and 50,000 users standalone, or 20,000 APs and 100,000 users in a high-availability setup.
- The E1120 is an appliance that meets the needs of entry to mid-level deployments, and is scalable to 250 APs/Defenders, 100 switches, and 4,000 mobility sessions in high-availability mode.
- The E2120 is an appliance that meets the needs of medium-sized, high-density and mission-critical deployments. It supports up to 4,000 APs/Defenders, 800 switches, and 32,000 mobility sessions in highavailability mode. Optionally, a redundant power supply can be ordered separately.
- The E2122 is an appliance that meets the needs of medium-sized, high-density and mission-critical deployments. It supports up to 4,000 APs/Defenders, 800 switches, and 32,000 mobility sessions in high-availability mode. Optionally, a redundant power supply can be ordered separately.
- The E3120 is an appliance that meets the needs of high-density and mission-critical deployments. It supports up to 20,000 APs/Defenders, 2,000 switches, and 100,000 mobility sessions in high-availability mode. Optionally, a redundant power supply can be ordered separately.
- The E3125 is an appliance that meets the needs of high-density and mission-critical deployments. It supports up to 20,000 APs/Defenders, 2,000 switches, and 100,000 mobility sessions in high-availability mode. Optionally, a redundant power supply can be ordered separately.
- The VE6120 is an elastic virtual appliance that supports up to 1,000 APs/Defenders, up to 400 switches, and 16,000 mobility sessions in high-availability mode, depending on the hosting hardware.
- The VE6120, VE6120H, and VE6120K offer elastic capacities to cover the full range of offerings as VMWare/MS Hyper-V/Linux KVM, ranging from VE6120/VE6120H/VE6120K-Small to VE6120/VE6120H/VE6120K-Large.
- The VE6125/VE6125K XL are virtual appliances that support up to 4,000 APs/Defenders, up to 400 switches, and 32,000 mobility sessions in high-availability mode, depending on the hosting hardware.

The ExtremeCloud IQ Controller can expand its capacity to meet any growing business needs. The hardware and virtual packages are available for purchase. The customer purchases adoption capacity as a Right-To-Use Subscription model, supporting flexible quantities (per managed device) and term (multiple-year extended term) options.

Enhancements in 10.15.01-0037	ID
General Availability: AP4020X and AP4020FX Wi-Fi 7 Access Points	XCC-5503
Extreme Networks introduces the AP4020X and AP4020FX , high-performance indoor Wi-Fi 7 access points designed for next-generation enterprise connectivity.	
Features include:	
Wi-Fi 7 Ready : Tri-band support (2.4 GHz, 5 GHz, 6 GHz) with advanced throughput and low latency.	
Quad-Radio Architecture : Three client-serving radios, and one radio reserved for future use as a dedicated sensor.	
IoT-Enabled: Dual IoT radios with Bluetooth® and iBeacon support.	
Availability:	
AP4020X: Global SKU, available worldwide.	
AP4020FX : Region-specific SKU, available in the U.S. and Canada only.	
See the AP4020 datasheet for further information.	
General Availability: AFC Support in Canada	XCC-5516
We are pleased to announce the introduction of Automated Frequency Coordination (AFC) functionality in Canada. This allows eligible Extreme Networks access points to operate in the 6 GHz standard power band, enhancing range and performance while ensuring compliance with local spectrum regulations. AFC support is available for compatible APs such as the AP5050U/D, using geo-location data to dynamically allocate safe and legal 6 GHz channels.	
Secured ICDT Tunnel Between HA Controllers	XCC-5537
This release introduces support for securing the Inter-Controller Data Tunnel (ICDT) between High Availability (HA) controller pairs using IKE/IPSec. The enhancement ensures encrypted communication over the ICDT tunnel, improving security for controller-to-controller traffic.	
RADSEC Support for RADIUS Admin Login	XCC-5538
This release introduces support for RADSEC (RADIUS over TLS) for administrator login authentication. By referencing an AAA Policy instead of traditional RADIUS server configurations, admin logins can now securely authenticate over encrypted channels.	
Key Highlights:	
Secure Admin Authentication: RADIUS admin login now supports RADSEC via AAA Policy.	
 Policy-Based Configuration: Admin login authentication is managed through AAA Policies, enabling centralized and secure configuration. 	

Enhancements in 10.15.01-0037	ID
Upgrade Handling: During upgrade, existing RADIUS login configurations are migrated to AAA Policies.	
 Management Interfaces: Full support via GUI, CLI, and OpenAPI. 	
This enhancement improves security posture by enabling encrypted RADIUS communication for administrative access.	
Enhanced Certificate Management and PKI Support	XCC-5622
Custom Certificate Chain Upload: Customers can now upload custom certificate chains for all certificates used within the system, providing greater flexibility and control over certificate management.	
Expanded PKI Key Support : The system now supports RSA keys with lengths of 2048, 3072, and 4096 bits, and Elliptic Curve (EC) keys with lengths of 256 bits or greater.	
RSA keys < 2048 bits (e.g. 1024-bit) are not supported.	
 Enforcement of minimum 3072-bit RSA key length is not required. 	
These updates ensure compliance with modern security standards while maintaining backward compatibility for supported key lengths.	
Secure Syslog Support	XCC-5936
This release introduces secure syslog connections , enabling events and logs to be securely sent to external servers using encrypted channels. This enhancement ensures protection of sensitive data in transit and supports compliance with modern security standards.	
 Logging: Logs and events are now transmitted over secure channels. 	
 Secure Protocols: Supports TLS and DTLS for log transmission. 	
 Use Case: Enables secure integration with external SIEM or log management systems. 	
Enhanced SNMPv3 Security Protocol Support	XCC-6238
This release extends SNMPv3 protocol support to align with modern security standards and compliance requirements.	
 Authentication Protocols: Adds support for SHA-224, SHA-256, SHA-384, and SHA-512. 	
 Privacy Protocols: Adds support for AES-192 and AES- 256. 	
 Password Policy: Enforces password lengths between 8 to 32 characters for new protocols. 	
 Platform Support: Available across all ExtremeCloud IQ Controller platforms. 	
 Management Interfaces: Enhancements applied across GUI, CLI, REST API, and SNMP agents. 	
These updates strengthen SNMP security and expand compatibility with secure deployment environments.	

Enhancements in 10.15.01-0037	ID
General Availability: Wi-Fi 6E and Wi-Fi 7 APs on Isle of Man	XCC-6545
The following Extreme Networks access points are now available for deployment on the Isle of Man:	
Wi-Fi 7: AP4020, AP4020X, AP5020, AP5010	
• Wi-Fi 6E: AP4000, AP3000, AP3000X	

Changes in 10.15.01-0037	ID
Resolved a UI issue where AP models 510i and 505i connected to third-party switches may incorrectly display PoE mode as "AF" instead of the actual "AT" power draw.	CFD-13211
Resolved an issue where enabling heatmaps on larger floor plans could cause the GUI to hang and fail to render maps. Timeout settings were adjusted to ensure successful heatmap generation during floor map calculations.	CFD-13471, CFD-13756
Resolved an issue where ExtremeCloud IQ Controller was unable to decrypt the shared secret configured with the RADIUS server, resulting in Disconnect/CoA re-authentication requests timing out.	CFD-13707
We've significantly improved backend performance when handling large datasets during administrative operations. Backend processing has been refactored to efficiently handle datasets up to 10x larger than before.	CFD-13783
Resolved an issue where the AP5010 was not receiving the correct country code for Colombia.	CFD-14311
To ensure consistency:	
 Only the United States (US) remains in the FCC region. 	
 The following countries have been moved to the World Regulatory (WR) domain: 	
- Colombia (CO)	
- Guam (GU)	
- Haiti (HT)	
- Puerto Rico (PR)	
 US Virgin Islands (VI) This change ensures proper regulatory behavior and country code assignment across platforms. 	
Addressed an issue where AP3912 and AP302W models may have missing eth1-3/P1-3 ports configuration option under Device Profile Networks. This issue was observed in release 10.14.01 specifically.	CFD-14479
Fixed an issue where Docker environment variable values containing equal signs (=) were incorrectly truncated after saving. The parsing logic was updated to preserve all characters in the value field, ensuring accurate configuration of complex environment variables.	CFD-14611

Extreme Networks recommends that you thoroughly review this document prior to installing or upgrading this product.

For the latest firmware versions, visit the download site at: <u>www.extremenetworks.com/support/</u>

FIRMWARE SPECIFICATION

Status	Version No.	Туре	Release Date
Current Version	V.10.15.01-0037	Feature Release	September 10, 2025

SUPPORTED CONTROLLER APPLICATIONS AND APPLIANCES, ACCESS POINTS, AND SWITCHES

Product Name	Image
Applications	
ExtremeCloud IQ Controller CE1000 application for Universal Compute Platform 1130C	XIQC-10.15.01-0037-1.dke
ExtremeCloud IQ Controller CE2000 application for Universal Compute Platform 2130C	XIQC-10.15.01-0037-1.gse
ExtremeCloud IQ Controller CE3000 application for Universal Compute Platform 3150C	XIQC-10.15.01-0037-1.bte
Appliances	
ExtremeCloud IQ Controller VE6120 VMware Min Supported Six version 5.1 or later, (tested 8.0)	XIQC-10.15.01-0037-1.dle
ExtremeCloud IQ Controller VE6120H (Windows server 2016 or later)	XIQC-10.15.01-0037-1.spe
ExtremeCloud IQ Controller VE6120K Linux KVM	XIQC-10.15.01-0037-1.dve
ExtremeCloud IQ Controller VE6125 Min Supported Six version 5.5 or later, (tested 7.0)	XIQC-10.15.01-0037-1.rse
ExtremeCloud IQ Controller VE6125K Linux KVM	XIQC-10.15.01-0037-1.mfe
ExtremeCloud IQ Controller E1120	XIQC-10.15.01-0037-1.sme
ExtremeCloud IQ Controller E2120	XIQC-10.15.01-0037-1.jse
ExtremeCloud IQ Controller E2122	XIQC-10.15.01-0037-1.wze
ExtremeCloud IQ Controller E3120	XIQC-10.15.01-0037-1.ose

Product Name	Image
ExtremeCloud IQ Controller E3125	XIQC-10.15.01-0037-1.dze
Access Points	
AP3000-WW	AP3xxx-LEAN-10.15.1.0-038R.img
AP3000X-WW	AP3xxx-LEAN-10.15.1.0-038R.img
AP302W-CAN AP302W-FCC AP302W-IL AP302W-WR	AP302W-LEAN-10.15.1.0-038R.img
AP305C-1-CAN AP305C-1-FCC AP305C-1-IL AP305C-1-WR AP305C-CAN AP305C-FCC AP305C-IL AP305C-WR AP305CX-CAN AP305CX-CAN AP305CX-FCC AP305CX-FCC AP305CX-IL AP305CX-WR	AP3xxC-LEAN-10.15.1.0-038R.img
AP310e-1-WR AP310e-CAN AP310e-FCC AP310e-IL AP310e-WR AP310i-1-WR AP310i-CAN AP310i-FCC AP310i-IL AP310i-WR	AP3xx-LEAN-10.15.1.0-038R.img
AP360e-CAN AP360e-FCC AP360e-IL AP360e-WR AP360i-CAN AP360i-FCC AP360i-IL AP360i-WR	AP3xx-LEAN-10.15.1.0-038R.img
AP3912i-FCC AP3912i-ROW	AP391x-10.51.27.0001.img
AP3915e-FCC AP3915e-ROW AP3915i-FCC AP3915i-ROW	AP391x-10.51.27.0001.img
AP3916ic-FCC AP3916ic-ROW	AP391x-10.51.27.0001.img

Product Name	Image
AP3916-camera	AP3916IC-V1-0-14-1.dlf
AP3917e-FCC AP3917e-ROW AP3917i-FCC AP3917i-ROW AP3917k-FCC AP3917k-ROW	AP391x-10.51.27.0001.img
AP3935e-FCC AP3935e-ROW AP3935i-FCC AP3935i-IL AP3935i-ROW	AP3935-10.51.27.0001.img
AP3965e-FCC AP3965e-ROW AP3965i-FCC AP3965i-ROW	AP3935-10.51.27.0001.img
AP4000-1-WW AP4000-WW	AP4000x-LEAN-10.15.1.0-038R.img
AP4020-WW	AP40xx-10.15.1.0-038R.img
AP4020FX-WW	AP40xx-10.15.1.0-038R.img
AP4020X-WW	AP40xx-10.15.1.0-038R.img
AP410C-1-CAN AP410C-1-FCC AP410C-1-IL AP410C-1-WR AP410C-CAN AP410C-FCC AP410C-IL AP410C-WR	AP4xxC- LEAN-10.15.1.0-038R.img
AP410e-CAN AP410e-FCC AP410e-IL AP410e-WR AP410i-1-FCC AP410i-1-WR AP410i-CAN AP410i-FCC AP410i-IL AP410i-WR	AP4xx-LEAN-10.15.1.0-038R.img
AP460C-CAN AP460C-FCC AP460C-IL AP460C-WR AP460S12C-CAN AP460S12C-FCC AP460S12C-IL AP460S12C-WR AP460S12C-WR AP460S6C-CAN	AP4xxC-LEAN-10.15.1.0-038R.img

Product Name	Image
AP460S6C-FCC AP460S6C-IL AP460S6C-WR	
AP460e-CAN AP460e-FCC AP460e-IL AP460e-WR AP460i-CAN AP460i-FCC AP460i-IL AP460i-WR	AP4xx-LEAN-10.15.1.0-038R.img
AP5010-WW	AP5xxx-LEAN-10.15.1.0-038R.img
AP5020-WW	AP5020-10.15.1.0-038R.img
AP5050D-WW	AP5xxx-LEAN-10.15.1.0-038R.img
AP5050U-WW	AP5xxx-LEAN-10.15.1.0-038R.img
AP505i-FCC AP505i-WR	AP5xx-LEAN-10.15.1.0-038R.img
AP510e-FCC AP510e-WR AP510i-1-FCC AP510i-1-WR AP510i-FCC AP510i-WR	AP5xx-LEAN-10.15.1.0-038R.img
AP560h-FCC AP560h-WR AP560i-FCC AP560i-WR	AP5xx-LEAN-10.15.1.0-038R.img
SA201	AP391x-10.51.27.0001.img
Switches	
210-12p-10GE2 210-24p-10GE2 210-48p-10GE2 210-12p-10GE2 POE 210-24p-10GE2 POE 210-48p-10GE2 POE	210-series_V1.02.05.0013.stk fp-connector-3.3.0.4.pyz (cloud connector)
220-12p-10GE2 220-24p-10GE2 220-48p-10GE2 220-12p-10GE2 POE 220-24p-10GE2 POE 220-48p-10GE2 POE	220-series_V1.02.05.0013.stk fp-connector-3.3.0.4.pyz (cloud connector)
X435-24P/T-4S	summitlite_arm-30.7.1.1.xos summitlite_arm-30.5.0.259-cloud_connector- 3.4.2.6.xmod

Product Name	Image
X440G2-12t-10G4 X440G2-24t-10G4 X440G2-48t-10G4 X440G2-12t-10G4 POE X440G2-24t-10G4 POE X440G2-48t-10G4 POE	summitX-30.2.1.8-patch2-5.xos summitX-30.2.1.8-cloud_connector-3.4.1.8.xmod (cloud connector)
X465_24W X465_48T X465_48P X465_48W X465_24MU X465_24MU_24W	onie-30.2.1.8-patch2-5-vpex_controlling_bridge.lst onie-30.2.1.8-cloud_connector-3.4.1.20.xmod
X620-16x	summitX-30.2.1.8-patch2-5.xos summitX-30.2.1.8-cloud_connector-3.4.1.8.xmod (cloud connector)

NETWORK MANAGEMENT SOFTWARE SUPPORT

Network Management	Version
ExtremeControl™	22.3 or higher
ExtremeAnalytics™	22.3 or higher
ExtremeCloud™ A3	4.0
ExtremeCloud™ IQ-Site Engine	22.3 or higher

Air Defense	Version
ExtremeAirDefense™	10.6.2
ExtremeGuest	Version
ExtremeGuest™	6.0.1.0-001

Note:

Platform and Access Point Configuration functions are not supported by ExtremeManagement™. ExtremeCloud™ IQ Site Engine v21.9 or greater is required.

Extreme Platform ONE - ExtremeCloud IQ Pilot Twin License Provides Backwards Compatibility

Some versions of ExtremeCloud IQ Site Engine and ExtremeCloud IQ Controller do not support Extreme Platform ONE licenses. To provide you with the necessary time to upgrade to later versions, every Extreme Platform ONE Standard subscription includes an ExtremeCloud IQ Pilot Twin license with the same start date, end date, and licensed quantity.

- The Extreme Portal shows both Extreme Platform ONE Standard and ExtremeCloud IQ Pilot Twin licenses.
- ExtremeCloud IQ (Classic) and ExtremeCloud IQ (New) do not show ExtremeCloud IQ Pilot Twin licenses.
- Extreme Platform ONE (that is, Extreme Platform ONE Networking or Extreme Platform ONE Security) does not show ExtremeCloud IQ Pilot Twin licenses.
- ExtremeCloud IQ Site Engine version 25.2 and earlier supports ExtremeCloud IQ Pilot and ExtremeCloud IQ Pilot Twin licenses.
- ExtremeCloud IQ Site Engine version 25.5 and later supports ExtremeCloud IQ Pilot licenses and Extreme Platform ONE subscriptions.
- ExtremeCloud IQ Controller versions support ExtremeCloud IQ Pilot and ExtremeCloud IQ Pilot Twin licenses.

Note:

If you purchased Extreme Platform ONE subscriptions and are running management application versions that are incompatible with Extreme Platform ONE subscriptions, you can use the provided ExtremeCloud IQ Pilot Twin licenses.

INSTALLATION INFORMATION

Application and Appliance Installations					
CE1000, CE2000, CE3000	ExtremeCloud IQ Controller CE1000, CE2000, CE3000 Deployment Guide				
E1120	Extreme Campus Controller E1120 Installation Guide				
E2120	Extreme Campus Controller E2120 Installation Guide				
E2122	Extreme Campus Controller E2122 Installation Guide				
E3120	Extreme Campus Controller E3120 Installation Guide				
E3125	Extreme Campus Controller E3125 Installation Guide				
VE6120/VE6125	Extreme Campus Controller VE6120/VE6125 Installation Guide				
VE6120H	Extreme Campus Controller VE6120H Installation Guide				
VE6120K/VE6125K	Extreme Campus Controller VE6120K/VE6125K Installation Guide				

KNOWN RESTRICTIONS AND LIMITATIONS

Known Restriction or Limitation	ID
AP4020/X/FX models are unable to save the AFC Fallback channel configuration. This issue will be addressed in a future release.	XCC-6861
After upgrading ExtremeCloud IQ Controller to a new image:	XCC-6847
 The AFC spectrum is preserved and the 6GHz Standard Power (SP) service is maintained. 	
 The geo coordinates derived by the Geo-Location Agent are not preserved, and users have 24H to restore the Geo- Location Agent coordinates for each floor by first activating the Range button, then the Derive-Location button (on the Subgraph page under the Geo Diagnostics tab). If this action is not taken within 24H, the AFC SP spectrum will expire, and SP service will be revoked. 	
This issue will be addressed in a future release.	
For indoor AFC deployments where the GPS location of anchor APs cannot be used to obtain 6 GHz spectrum from the AFC server, ExtremeCloud IQ Controller uses derived geo-location coordinates instead of the GPS coordinates.	XCC-6871
In this case, under Tools > Diagnostics > AFC Server , the affected Site indicates that derived coordinates have been sent to the AFC server by appending the keyword [Geo] to the Site name with the full daily AFC Site refresh operation.	
AP5020 – Channels 165 (20 MHz) and 106 (80 MHz) are disabled for Isle of Man due to a known issue. This issue will be resolved in a future release.	XCC-7682
Indoor AFC deployment	XCC-6603
After importing an Ekahau floor map into ExtremeCloud IQ Controller, APs that are not properly associated with existing devices appear as "?" on the map. Using the Assign to Floor option to associate these APs may cause inconsistencies. Recommended Workflow: Right-click each "?" AP and manually	
associate it with the correct device before proceeding with Indoor AFC deployment.	
Language Selection in Internal Captive Portal on iOS	XCC-6368
Issue Summary:	
When using the internal captive portal in ExtremeCloud IQ Controller with multiple language options enabled, iOS devices may encounter an error when switching languages.	
Status:	
This is a known issue under investigation. Updates will be provided in future releases as feasible.	
An issue is being investigated where the local authentication database is queried even when external RADIUS server priority is set higher. This may happen when the same username is configured both on the external RADIUS server and the local user database.	XCC-5804

Known Restriction or Limitation	ID
Controller functions, including internal communications and containerized applications, require the usage of reserved address space. Two subnets are reserved internally to the controller: • 172.17.0.0/24 • 172.31.0.16/28 The user interface prevents assigning IP addresses to local	XCC-3121
interfaces (physical or virtual) that conflict with these ranges. For ExtremeCloud IQ Controller (v5) systems previously onboarded	XCC-2463
into an ExtremeCloud IQ account for visibility, following an upgrade to ExtremeCloud IQ Controller (v10), you must remove and redeclare the controller to ExtremeCloud IQ. This will facilitate the re-synchronization of the controller with the ExtremeCloud IQ account.	7.00 2.00
Before installing a new ExtremeCloud IQ Controller license, you must configure Network Time Protocol (NTP) Server settings. Licensing management is dependent on accurate NTP configuration. Configure NTP via the ExtremeCloud IQ Controller initial Configuration Wizard or go to Admin > System > Network Time to configure and verify the NTP settings.	XCC-2353
For ExtremeCloud IQ Controller configured for authentication of administrators over RADIUS server, the GUI responsiveness may be slow, possibly over 30 seconds if the target server(s) are unavailable or unreachable at login time. If the outage is extensive, the system will eventually timeout to validate against local credentials when provisioned.	XCC-2350
ExtremeCloud IQ-Site Engine 22.3.10 is the minimum required revision for representation of ExtremeCloud IQ Controller 10.01.01 or later revisions. Extreme Management Center (8.5.x or later) does NOT recognize a controller running ExtremeCloud IQ Controller 10.01.01 or later.	XCC-2348
To improve stability of mesh when SmartRF is used with a mesh root AP:	XCC-1684
Use fixed channel width.	
 Set SmartRF sensitivity to "Low" to decrease the time that the AP will abandon the channel for scanning. 	
Certain wireless clients (such as Qualcomm Killer Wireless 1535 and Intel 7265D/8260/8265) have been known to not complete the 4-way handshake in order to fulfill the association process in networks that have both PMF/MFP (802.11w) and Fast-Transition (802.11r [FT]) enabled. The currently recommended workaround is to not enable PMF/MFP configuration on a service that is also using 802.11r. Such clients have been demonstrated to work correctly on services with just 802.11r (FT) enabled.	nse0003416
Allow UTF-8 characters in JSON payload for all Rest API so non-ASCII / Unicode characters are accepted in Rest API requests to comply with current Rest API standards.	ECA-321

Known Restriction or Limitation	ID
MAC-based authentication and WPA3-Compatibility (SAE or WPA2-PSK) and PMF "Required" may not work. This issue will be addressed in a future release.	ECA-1961
Important Note:	WOS-5655
802.11mc is not recommended for use on 2.4 GHz.	
 Supported AP models for 11mc on 5 GHz: AP5020, AP5010, AP3000, and AP5050. 	
 6 GHz 11mc support is currently exclusive to AP5020, with expansion to other models planned in future releases. 	
For the Access Point Test feature, when using the wireless client option for the 5GHz band, if the Access Point is operating in dual-5GHz mode, and radio 1 is set to 5GHz low (not 2.4GHz), the AP as a client will operate on the 5GHz low band. This may limit the test client's capability to connect to the infrastructure APs that operate in the 5GHz high band. Recommendation: Only exercise wireless AP Test on devices that are configured for full-band mode.	XCC-3284
AP3900 series requires a minimum firmware revision of 10.41.01 (or later) for onboarding into ExtremeCloud IQ Controller. Customers migrating from ExtremeWireless installations or onboarding new AP3900 inventory to ExtremeCloud IQ Controller must ensure APs are running at least the minimum revision prior to onboarding. Depending on the age of the inventory, this may require a manual upgrade of the unit firmware outside of the management framework.	XCC-3178
Upgrade failure will occur when using special characters (escape back slash) in topology.	ECA-466
In SmartRF mode, the AP510 power may temporarily drop to 0dBm and returns to 4dBm.	ECA-469
With on-air-busy channel conditions, it is possible for the ACS not to produce the expected results. In this instance, perform manual channel selection.	ECA-528
Widgets do not show tooltips for lower and upper values. This issue will be addressed in a future release.	ECA-567
Firmware for ExtremeWireless AP3900 series Access Points does not currently support Smart RF. No Smart RF data is displayed.	ECA-1484
With 11r enabled on an 802.1x network, a Windows 10 PC with an Intel Wi-Fi card (ax200, ax210), running driver version 22.170.0.3 cannot reconnect automatically after an MU is disconnected. The workaround is to toggle the Wi-Fi off and on from the PC.	WOS-4480
Default router/gateway should be configured with a next hop associated with one of the physical interfaces. Pointing the default route to the Admin interface will lead to issues because Access Points will not get the correct services from the data plane. We recommend setting the default route via data ports, and if necessary, configuring static routes on the Admin port for administration level access.	Info

Known Restriction or Limitation	ID
For AP deployments in remote locations where Access Points and controllers may need to be discovered and connected over firewalls, a best practice is to leverage DNS or DHCP Option 60/43 methods for zero-touch-provisioning discovery. These methods provide direct connectivity to the defined IP address. DHCP Option 78, which refers to the controller as a Service Location Protocol – Directory Agent (SLP- DA), requires the exchange of SLP protocol between the AP and the appliance at the core, necessitating that UDP 427 be allowed by any firewall in the path. For such installations, discovery over DHCP Option 78 assist is not recommended. When using SLP, for an AP to establish connection with a controller, it must first exchange SLP Directory Agent registration before IPSEC establishment with the eventual controller. That means that SLP UDP 427 must be open along the path. Further issues can occur if Network Address Translation (NAT) is involved. While this method is popular and widely deployed within a homogenous campus, it may result in inadvertent complications for remote connections. Therefore, it should not be used in favor of an alternate method (DHCP 60/43, DNS, or static override).	Info
When configuring system for NTP time assignment, ensure that the NTP server is properly configured. Incorrect time settings (like timestamps far in the future) may adversely affect system operation, such as certificate expiration that may trigger failures in device registration or system instability.	Info nse0003696
Appliances in a High-Availability pair must be of the same model and at the same exact software revision (and time synched) for configuration synchronization to propagate to the peer. During the upgrade process of a High-Availability pair, any configuration changes made while only one appliance has been upgraded (and therefore resulting in a version mismatch) will not be propagated until the peer is correspondingly upgraded to the same revision. We recommend that you NOT perform configuration changes to one of the members of a High-Availability pair while the peer has a different software revision.	Info nse0005086
For High-Availability configurations, during upgrade phases or configuration restore operations, wait until the availability link is established and synchronized before attempting to make any new configuration changes. The Availability status will only re-establish to Synched status when both appliances are running the exact same firmware revision. During upgrade periods, the Availability link will only re-establish when both the appliance status of availability link and synchronization status can be found. Go to:	Info ECA-776
 "Network Health" widget on the Dashboard, or Administration -> System -> Availability 	
Recommendation settings for setup of redundant RADIUS server authentication:	Info ECA-875
Response Window to 5s [Default: 20s]	
Revival Interval to 10s [Default: 60s]	

Known Restriction or Limitation	ID
11mc not recommended for 2.4GHz band 11mc works better with wider channels.	Info

SUPPORTED WEB BROWSERS

For ExtremeCloud IQ Controller management GUI, the following Web browsers were tested for interoperability:

Browsers	Version	os
Chrome	117.0.5938.152	Windows 10 Windows 11
Microsoft Edge	117.0.2045.60	Windows 10 Windows 11
Firefox	118.0.01	Windows 10 Windows 11

Note: Microsoft IE browser is not supported for UI management.

For Wireless Clients (Captive Portal, AAA), recommended browsers are:

Browsers	Version	os
Chrome	117.0.5938.152	Windows 10 Windows 11
Microsoft Edge	117.0.2045.60	Windows 10
Firefox	118.0.01	Windows 10 Windows 11
Safari	15.4 (17613.1.17.1.13)	iOS 16.7.1

PORT LIST

The following list of ports may need to remain open so that the Appliances and APs will function properly on a network that includes protection equipment like a firewall.

ExtremeCloud IQ Controller TCP/UDP Port Assignment Reference

Comp. Source	Comp. Dest	Protocol (TCP/UDP)	Src Port	Dest Port	Service	Remark	Open Firewall Req'd
		Ports f	or AP/A	ppliance	Communicatio	n	-
Appliance	Access Point	UDP	Any	13910	WASSP	Management and Data Tunnel between AP and Appliance	Yes
Access Point	Appliance	UDP	Any	13910	WASSP	Management and Data Tunnel between AP and Appliance	Yes
Appliance	Access Point	UDP	4500	Any	Secured WASSP	Management Tunnel between AP and Appliance	Optional
Access Point	Appliance	UDP	Any	4500	Secured WASSP	Management Tunnel between AP and Appliance	Optional
Access Point	Appliance	UDP	Any	13907	WASSP	AP Registration to Appliance	Yes
Access Point	Appliance	UDP	Any	67	DHCP Server	If Appliance is DHCP Server for AP	Optional
Access Point	Appliance	UDP	Any	68	DHCP Server	If Appliance is DHCP Server for AP	Optional
Access Point	Appliance	UDP	Any	427	SLP	AP Registration to Appliance	Optional
Appliance	Access Point	TCP/UDP	Any	69	TFTP	AP image transfer	Yes
Access Point	Appliance	TCP/UDP	Any	69	TFTP	AP image transfer	Yes
Appliance	Access Point	TCP/UDP	Any	22	SCP	AP traces	Yes
Any	Access Point	TCP	Any	2002, 2003	RCAPD	AP Real Capture (if enabled)	Optional
Any	Access Point	TCP/UDP	Any	22	SSH	Remote AP login (if enabled)	Optional
Any	Access Point	TCP/UDP	Any	445	Microsoft CIFS	LDAP support	Optional
Any	Access Point	TCP/UDP	Any	137, 138, 139	NetBIOS	LDAP support	Optional

Comp. Source	Comp. Dest	Protocol (TCP/UDP)	Src Port	Dest Port	Service	Remark	Open Firewall Req'd
		Po	orts for A	ppliance N	Management		
Any	Appliance	TCP/UDP	Any	22	SSH	Appliance CLI access	Yes
Any	Appliance	TCP/UDP	Any	5825	HTTPS	Appliance GUI access	Yes
Any	Appliance	TCP/UDP	Any	161	SNMP	Appliance SNMP access	Yes
Any	Appliance	TCP/UDP	Any	162	SNMP Trap	Appliance SNMP access	Yes
Any	Appliance	TCP	Any	80	НТТР	Appliance SNMP access ICP Self Registration	Yes
Any	Appliance	TCP	Any	443	HTTPS	ICP Self Registration	Yes
Any	Appliance	UDP	500	500	IKE	IKE phase 1	Yes
Any	Appliance	TCP/UDP	Any	69	TFTP	TFTP support	Yes
Any	Appliance	UDP	Any	4500	IPSec	IPSec NAT traversal	Yes
Any	Appliance	UDP	Any	13907	Discovery	Used by Discovery	Yes
Any	Appliance	UDP	Any	13910	WASSP	Used by L3 WASSP	Yes
		Ports for Ir	nter Cont	roller Mob	ility ¹ and Availa	bility	
Appliance	Appliance	UDP	Any	13911	WASSP	Mobility and Availability Tunnel	Yes
Appliance	Appliance	TCP	Any	427	SLP	SLP Directory	Yes
Appliance	Appliance	TCP	Any	20506	Langley	Remote Langley Secure	Yes
Appliance	Appliance	TCP	Any	60606	Mobility	VN MGR	Yes
Appliance	Appliance	TCP	Any	123	NTP	Availability time sync	Yes
Appliance	DHCP Server	UDP	Any	67	SLP	Asking DHCP Server for SLP DA	Yes
DHCP Server	Appliance	UDP	Any	68	SLP	RespoECA from DHCP Server for SLP DA request	Yes
Appliance	Appliance	TCP	Any	6380	REDIS	High Availability (HA) Pair Configuration Synchronization	Yes

¹ For extension of ExtremeWireless deployment via Inter Controller Mobility.

Comp. Source	Comp. Dest	Protocol (TCP/UDP)	Src Port	Dest Port	Service	Remark	Open Firewall Req'd
		C	ore Back	-End Con	nmunication		
Appliance	DNS Server	UDP	Any	53	DNS	If using DNS	Optional
Appliance	Syslog Server	UDP	Any	514	Syslog	If Appliance logs to external syslog server	Optional
Appliance	RADIUS Server	UDP	Any	1812	RADIUS Authentication and Authorization	If using RADIUS AAA	Optional
Appliance	RADIUS Server	UDP	Any	1813	RADIUS Accounting	If enabled RADIUS accounting	Optional
Appliance	RADIUS server	UDP	Any	1814	RADIUS Authentication and Authorization	If using RADIUS AAA	Optional
Appliance	RADIUS server	UDP	Any	1815	RADIUS Accounting	If enabled RADIUS Accounting	Optional
Dynamic Auth. Server (NAC)	Appliance	UDP	Any	3799	DAS	Request from DAS client to disconnect a specific client	Optional
Appliance	AeroScout Server	UDP	1144	12092	Location Based Service Proxy	Aeroscout Location- Based Service	Optional
AeroScout Server	Appliance	UDP	12092	1144	Location Based Service Proxy	Aeroscout Location- Based Service	Optional
Appliance	Extreme Cloud IQ	TCP	Any	443	NSight	Statistics Report into ExtremeCloud IQ	Yes

IETF STANDARDS MIB SUPPORT

RFC No.	Title	Groups Supported
Draft version of 802.11	IEEE802dot11-MIB	
1213	RFC1213-MIB	Most of the objects supported
1573	IF-MIB	ifTable and interface scalar supported
1907	SNMPv2-MIB	System scalars supported
1493	BRIDGE-MIB	EWC supports relevant subset of the MIB

RFC No.	Title	Groups Supported
2674	P-BRIDGE-MIB	EWC supports relevant subset of the MIB
2674	Q-BRIDGE-MIB	EWC supports relevant subset of the MIB

EXTREME NETWORKS PRIVATE ENTERPRISE MIB SUPPORT

Extreme Networks Private Enterprise MIBs are available in ASN.1 format from the Extreme Networks website at: https://extremeportal.force.com/.

Standard MIBs

Title	Description
IEEE802dot11-MIB	Standard MIB for wireless devices
RFC1213-MIB.my	Standard MIB for system information
IF-MIB	Interface MIB
SNMPv2-MIB	Standard MIB for system information
BRIDGE-MIB	VLAN configuration information that pertains to EWC
P-BRIDGE-MIB	VLAN configuration information that pertains to EWC
Q-BRIDGE-MIB	VLAN configuration information that pertains to EWC

Siemens Proprietary MIB

Title	Description
HIPATH-WIRELESS-HWC-MIB.my	Configuration and statistics related to EWC and associated objects
HIPATH-WIRELESS-PRODUCTS-MIB.my	Defines product classes
HIPATH-WIRELESS-DOT11-EXTNS-MIB.my	Extension to IEEE802dot11-MIB that complements standard MIB
HIPATH-WIRELESS-SMI.my	Root for Chantry/Siemens MIB

802.11AC AND 802.11N CLIENTS

Please refer to the latest Release Notes for ExtremeWireless™ 10.41.09 or later and/or ExtremeWireless WiNG 5.9.02 or later for the list of compatibility test devices.

RADIUS SERVERS AND SUPPLICANTS

RADIUS Servers Used During Testing

Vendor	Model OS	Version
FreeRADIUS	1.1.6	FreeRADIUS
FreeRADIUS IAS	1.0.1	FreeRADIUS
	5.2.3790.3959	Microsoft Server 2003 IAS
SBR50	6.1.6	SBR Enterprise edition
NPS	6.0.6002.18005	Microsoft Server 2008 NPS

802.1x Supplicants Supported

Vendor	Model OS	Version
		Version 5.10.14353.0
Juniper Networks® / Funk	Odyssey client	Version 5.00.12709.0
		Version 4.60.49335.0
	Wireless Zero Configuration	Version Windows XP-4K- 891859-Beta1
Microsoft®	Wireless Network Connection Configuration	Version Microsoft Window Server 2003, Enterprise Edition R2 SP2
	Wi-Fi Protected Access 2 (WPA2)/Wireless Provisioning Services Information Element (WPS IE) update for Windows XP with Service Pack 2	Version WindowsXP- KB893357-v2-x86-ENU.exe
Intel®	Intel PRO Set/Wireless	Version 13.0.0.x (with Windows® Intel® driver version 13.0.0.x)
Microsoft® Wireless Zero	Windows 7, 8, 8.1 Pro, 10 Pro Windows Phone 8.1, Windows Mobile 10	Provided with Windows®

Appliance LAN Switch Verification

Vendor	Model OS	Version	Role
Extreme	X-460-G2	12.5.4.5	XIQC connection
Extreme	X440G2-48p-10G4	21.1.1.4	XIQC connectivity
Extreme	Summit 300-48	7.6e1.4	XIQC connection
Extreme	VSP-4850GTS- PWR	(6.0.1.1_B003) (PRIVATE) HW Base: ERS 4850	XIQC connection
Extreme	K6	08.63.02.0004	XIQC connection
Extreme	K6	08.42.03.0006	XIQC connection
Extreme	X440G2-48p- 10GE4	21.1.5.2	XIQC connection
Extreme	X440-G2-12p	21.1.1.4	XIQC connection
Extreme	X460-48p	12.5.4.5	XIQC connection
Cisco	Catalyst 3550	12.1(19)EA1c	XIQC connection

CERTIFICATION AUTHORITY

Server Vendor	Model OS	Version
Microsoft CA	Windows Server 2003 Enterprise Edition	5.2.3790.1830
Microsoft CA	Windows Server 2008 Enterprise Edition	6.0
OpenSSL	Linux	1.1.1g

RADIUS ATTRIBUTES SUPPORT

RADIUS Authentication and Authorization Attributes

Attribute	RFC Source
Called-Station-Id	RFC 2865, RFC 3580
Calling-Station-Id	RFC 2865, RFC 3580
Class	RFC 2865
EAP-Message	RFC 3579
Event-Timestamp	RFC 2869
Filter-Id	RFC 2865, RFC 3580
Framed-IPv6-Pool	RFC 3162
Framed-MTU	RFC 2865, RFC 3580

09/10/2025 P/N: 9039448-00 Rev AA Subject to Change Without Notice

Attribute	RFC Source
Framed-Pool	RFC 2869
Idle-Timeout	RFC 2865, RFC 3580
Message-Authenticator	RFC 3579
NAS-Identifier	RFC 2865, RFC 3580
NAS-IP-Address	RFC 2865, RFC 3580
NAS-IPv6-Address	RFC 3162
NAS-Port	RFC 2865, RFC 3580
NAS-Port-Id	RFC 2865, RFC 3580
NAS-Port-Type	RFC 2865, RFC 3580
Password-Retry	RFC 2869
Service-Type	RFC 2865, RFC 3580
Session-Timeout	RFC 2865
State	RFC 2865
Termination-Action	RFC 2865, RFC 3580
Tunnel Attributes	RFC 2867, RFC 2868, RFC 3580
User-Name	RFC 2865, RFC 3580
Vendor-Specific	RFC 2865

RADIUS Accounting Attributes

Attribute	RFC Source
Acct-Authentic	RFC 2866
Acct-Delay-Time	RFC 2866
Acct-Input-Octets	RFC 2866
Acct-Input-Packets	RFC 2866
Acct-Interim-Interval	RFC 2869
Acct-Output-Octets	RFC 2866
Acct-Output-Packets	RFC 2866
Acct-Session-Id	RFC 2866
Acct-Session-Time	RFC 2866
Acct-Status-Type	RFC 2866
Acct-Terminate-Cause	RFC 2866

GLOBAL SUPPORT

By Phone: +1 800-998-2408 (toll-free in U.S. and Canada)

For the toll-free support number in your country:

https://extremeportal.force.com/

By Email: support@extremenetworks.com

By Web: https://extremeportal.force.com/

For information regarding the latest software release, recent release note revisions and documentation, or if you require additional assistance, please visit the Extreme Networks Support website.

LEGAL

Legal Notice

Extreme Networks, Inc. reserves the right to make changes in specifications and other information contained in this document and its website without prior notice. The reader should in all cases consult representatives of Extreme Networks to determine whether any such changes have been made.

The hardware, firmware, software, or any specifications described or referred to in this document are subject to change without notice.

Trademarks

Extreme Networks and the Extreme Networks logo are trademarks or registered trademarks of Extreme Networks, Inc. in the United States and/or other countries. All other names (including any product names) mentioned in this document are the property of their respective owners and may be trademarks or registered trademarks of their respective companies/owners.

For additional information on Extreme Networks trademarks, please see: www.extremenetworks.com/company/legal/trademarks

© Extreme Networks. 2025. All rights reserved.