

ExtremeCloud IQ Release Notes

23.5.3

September 2023



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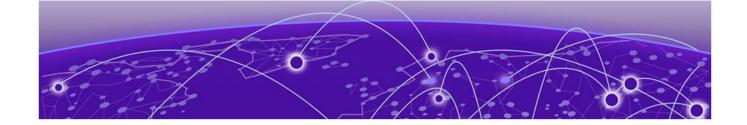


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General Release Information

Current Release: 23.5.3

September 2023

Minor Release 3: 23.5.3.4 Addressed Issues

Issue ID	Description
XIQ-22863	Addressed an issue where ExtremeCloud IQ - Site Engine did not receive license information from ExtremeCloud IQ when there were expired licenses in ExtremeCloud IQ License Management tables.
XIQ-18285	Administrators outside the organization (external admin) now have the privilege to grant additional external admin access to the VIQ to which the external admin has access.
CFD-9608 (02808324)	Addressed an issue where some APs could not be placed in the correct location on the floor map.
CFD-9391 (02777463)	Addressed an issue with Swagger API. API to assign ports to devices in the network policy is now fixed.

Minor Release 2: 23.5.2.1 New Features and Addressed Issues

Table 1: New Features and Addressed Issues

Issue ID	Description
XIQ-22956	Support for IQ Engine 10.6.3a
XIQ-22858 HOS-19697	AP305C(X) and AP410C support for Montenegro and Bosnia
CFD-9572	Fixed an issue where the USB port configuration was missing from the AP configuration screens.

Minor Release 1: 23.5.1.7 New Features and Addressed Issues

Table 2: New Features

Issue ID	Description
XIQ-20152	The Port Efficiency anomaly algorithm is improved to decrease its responsiveness to intermittent issues. In the past, a single duplex or data rate change prompted the detection of an anomaly. With this enhancement, anomalies are flagged only if the duplex or data rate change persists through two consecutive periods.
XIQ-20783	Introduced an enhanced ExtremeCloud IQ CoPilot user experience with advanced features for data filtering, searching, and summarization. These improvements empower users to efficiently access ExtremeCloud IQ CoPilot data. The new user interface will be released in two phases. ExtremeCloud IQ v23.5.1 offers the following enhancements: • The ability to toggle between the new and legacy interfaces: Users gain the ability to toggle between the legacy view and the new view. • Anomalies and Connectivity Experience Tabs: ExtremeCloud IQ CoPilot data is now organized into two distinct tabs, providing separate access to anomalies and the connectivity experience. • Global Filters: On the anomalies page, users can apply global filters based on site, severity, type, and duration. • Anomaly Trends: The Assurance Scan widget has been relocated. Select the Trends button to filter graph data by anomaly type. • Anomalies Widgets: Summarized data is presented through three widgets: Top Sites by Anomalies, Anomalies by Severity, and Top Anomalies by Type. • Anomalies Table: The Anomalies table provides a comprehensive list of anomaly data for the chosen duration, featuring search, sorting, and download functionality. In future releases, ExtremeCloud IQ will introduce the new Connectivity Experience user interface that will build on these enhancements.

ExtremeCloud IQ Public IP Address Blocks

Data Center	IP Block	Addresses and Ports
Global Data Center (GDC)	44.234.22.92/30 18.194.95.0/28 34.253.190.192/26 3.234.248.0/27	
US East (VA)	34.202.197.0/26 44.192.245.0/26 3.234.248.0/27	Firewall Address and Port Information

Data Center	IP Block	Addresses and Ports
US East 2 (VA2)	34.202.197.0/26 44.192.245.0/26 3.234.248.0/27	Firewall Address and Port Information
Ireland (IE)	34.253.190.192/26	Firewall Address and Port Information
India (IN)	13.232.67.8/29 3.6.70.64/29	Firewall Address and Port Information
Germany (FRA)	3.67.81.96/27 18.194.95.0/28	Firewall Address and Port Information
Sweden (SE)	13.48.186.224/29 13.48.4.184/29	Firewall Address and Port Information
Brazil (BR)	18.228.70.16/28	Firewall Address and Port Information
Australia (AUS)	13.210.3.192/28	Firewall Address and Port Information
Japan (JP)	18.176.203.112/29 13.231.6.232/29	Firewall Address and Port Information
Azure, US East (AVA)	52.226.89.112/28	Firewall Address and Port Information
Bahrain (BH)	15.184.70.208/28	Firewall Address and Port Information
The Netherlands (NL-GCP)	34.91.82.64/27	Firewall Address and Port Information
US-Iowa (IA-GCP)	34.67.130.64/27	Firewall Address and Port Information
Switzerland (ACH)	51.107.1.192/28	Firewall Address and Port Information
Azure, Canada Central (ACA)	20.151.64.48/28	Firewall Address and Port Information
Singapore (SG- GCP)	34.87.158.80/28	Firewall Address and Port Information
United Kingdom (UK-AGB)	51.143.233.80/28	Firewall Address and Port Information

Supported IQ Engine 10.6.3 Software

See the Release Notes for the current IQ Engine version that ExtremeCloud IQ supports.



New Features in 23.5.0.41

Device OS Support

This release adds support for the following device operating systems:

- ExtremeXOS/Switch Engine: 31.7.2 Patch Download Image Support
- ExtremeXOS/Switch Engine: 32.5 Download Image Support
- VOSS/Fabric Engine: 8.8.3 and 8.10.1 Download Image Support

New Hardware Support

There is no new hardware support in this release.

Feature ID	Feature	Description
XIQ-985	New evaluation accounts are now limited to 90 days	The previous trial period for ExtremeCloud IQ was 30 days. We extended the trial period to 90 days and removed the 10-device limit. Trials are now unlimited for 90 days.
XIQ-1058	Implemented advanced warning of impending license shortages, by GUI banner and by email	90/60/30 days prior to the term expiration for one or more licenses or grace periods, ExtremeCloud IQ notifies administrators by displaying a banner in the GUI and optionally, by email.
XIQ-1298	Implemented daily warning of impending license shortages, by GUI banner and by email	Seven days prior to the expiration of one or more licenses or grace periods, ExtremeCloud IQ begins notifying administrators daily by displaying a banner in the GUI and optionally, by email.
XIQ-4794	Implemented 30-day grace period for CoPilot licenses	When the CoPilot feature is enabled and there are not enough CoPilot licenses to cover all CoPilot-eligible devices, the 30-day grace period automatically starts. During this period, the CoPilot feature processes data for devices without a valid CoPilot license.

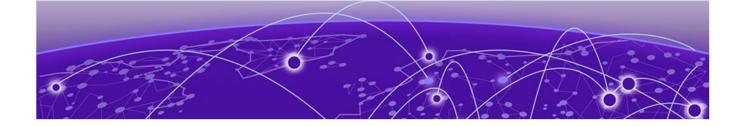
Feature ID	Feature	Description
XIQ-12782	Ability to configure device level settings such as LLDP/ CDP, MAC locking enable/ disable, ERLP enable/disable, STP mode, and IGMP snooping	LLDP/CDP, MAC locking, and ELRP are now available to configure at Manage > Device Configure > Port Configuration for Switch Engine devices. Device level configurations override template level configurations.
XIQ-12783	Port Details tab config consolidation	ExtremeCloud IQ now detects if Switch Engine and Fabric Engine devices have administrative port state configurations which are out of sync with assigned network policy configurations when network policy and configuration updates are performed. This feature requires a minimum version of Switch Engine 32.5 and Fabric Engine 8.10.1 to be installed.
XIQ-12784	Port Settings tab config consolidation	ExtremeCloud IQ now detects if Switch Engine and Fabric Engine devices have port configurations such as MTU, transmission speed or duplex, flow control, and CDP which are out of sync with assigned network policy configurations when network policy and configuration updates are performed. This feature requires a minimum version of Switch Engine 32.5 and Fabric Engine 8.10.1 to be installed.
XIQ-12785	Port STP tab config consolidation	ExtremeCloud IQ now detects if Switch Engine and Fabric Engine devices have spanning tree configurations which are out of sync with assigned network policy configurations when network policy and configuration updates are performed. This feature requires a minimum version of Switch Engine 32.5 and Fabric Engine 8.10.1 to be installed.
XIQ-12786	Port Storm Control tab config consolidation	ExtremeCloud IQ now detects if Switch Engine and Fabric Engine devices have port storm control configurations which are out of sync with assigned network policy configurations when network policy and configuration updates are performed. This feature requires a minimum version of Switch Engine 32.5 and Fabric Engine 8.10.1 to be installed.

Feature ID	Feature	Description
XIQ-12787	Port ELRP tab config consolidation	ExtremeCloud IQ now detects if Switch Engine devices have port ELRP configurations which are out of sync with assigned network policy configurations when network policy and configuration updates are performed. This feature requires a minimum version of Switch Engine 32.5 to be installed.
XIQ-12788	Port Voice tab config consolidation	ExtremeCloud IQ now detects if Switch Engine devices have port voice configurations which are out of sync with assigned network policy configurations when network policy and configuration updates are performed. This feature requires a minimum version of Switch Engine 32.5 and Fabric Engine 8.10.1 to be installed.
XIQ-12789	Port PSE tab config consolidation	ExtremeCloud IQ now detects if Switch Engine and Fabric Engine devices have port PSE configurations which are out of sync with assigned network policy configurations when network policy and configuration updates are performed. This feature requires a minimum version of Switch Engine 32.5 and Fabric Engine 8.10.1 to be installed.
XIQ-12790	Port MAC Locking tab config consolidation	ExtremeCloud IQ now detects if Switch Engine devices have port MAC locking configurations which are out of sync with assigned network policy configurations when network policy and configuration updates are performed. This feature requires a minimum version of Switch Engine 32.5 to be installed.
XIQ-12819	Device Hostname and Location config consolidation	ExtremeCloud IQ now detects if Switch Engine and Fabric Engine devices have hostname and location configurations which are out of sync with assigned network policy configurations when network policy and configuration updates are performed. This feature requires a minimum version of Switch Engine 32.5 and Fabric Engine 8.10.1 to be installed.

Feature ID	Feature	Description
XIQ-12821	VIM and partition selector for device level on Switch Engine 5520 and 5720	VIM and partition mode are now available to configure at Manage > Device Configure > Port Configuration for Switch Engine and Fabric Engine devices. Device level configurations override template level configurations.
XIQ-13051	Consolidate LLDP and CDP config at device level and port level	ExtremeCloud IQ now detects if Switch Engine devices have LLDP or CDP configurations which are out of sync with assigned network policy configurations when network policy and configuration updates are performed. This feature requires a minimum version of Switch Engine 32.5 to be installed.
XIQ-14171	Implemented an option to opt-in or to opt-out of receiving <i>Proactive license warning email messages</i>	ExtremeCloud IQ provides advance notification for impending grace period and license term expiration. Administrators can choose whether to opt-in or opt-out of receiving the email notifications.
XIQ-14344	Implemented automatic license alignments for license pool changes	When the license pool shrinks or grows, ExtremeCloud IQ automatically changes license assignments to avoid license violations and the need for manual adjustments.
XIQ-16263	Implemented two new options to manage CoPilot licenses: Activate and Revoke	Administrators can now manually control which devices use ExtremeCloud IQ CoPilot licenses.
XIQ-16538	Update the CoPilot not enough licenses banner with a link	ExtremeCloud IQ CoPilot license violation banner wording is changed and includes a link to information about eligible devices.
XIQ-17199	xAPI - Allow basic AP config when using Onboard API	Added a new xAPI for advanced onboarding, allowing a user to assign network policies and locations, and change hostnames during the onboarding process.
XIQ-17621	Sort does not work as expected	Redesigned hostname sort. New design returns accurate results when a user interface change does not match the current device configuration.
XIQ-17878 XIQ-17879	VOSS/Fabric Engine 8.8.3 and 8.10.1 Download Image Support	ExtremeCloud IQ now supports VOSS/ Fabric Engine 8.8.3 and 8.10.1 image download for all supported VSP/ Fabric Engine SKUs.

Feature ID	Feature	Description
XIQ-17887	Fabric Engine Digital Twin images to be removed in XIQ release 23.5.0	Fabric Engine 8.7.x images are now unavailable to Digital Twin in ExtremeCloud IQ CoPilot.
XIQ-18341	Separate Switch S-CLI from UI generated delta configuration update	Supplemental CLI device update improvement for Switch Engine and Fabric Engine. If supplemental CLI is appended to delta configuration and the supplemental CLI portion fails device update, only the supplemental CLI is regenerated for subsequent device updates. This feature requires a minimum version of Switch Engine 32.5 and Fabric Engine 8.10.1 to be installed.
XIQ-18382 (02737904, 02737921, 02733002, 02740115, 02740972, 02741127, 02745668, 02747138, 02749498, 02748687, 02745370, 02760625, 02761325, CFD-8985)	Added an option to synchronize licenses from Extreme Portal on-demand	ExtremeCloud IQ now provides administrators a more convenient way to sync licenses from the Extreme Portal license pool. Previously, administrators had to unlink and link again to the Extreme Portal, or wait for the scheduled automatic synchronization.
XIQ-18429	Dominican Republic - AP5010 Regulatory Changes	For AP5010 deployments in the Dominican Republic, channels 120-128 are removed, and power is reduced on channels 36-48.
XIQ-18572	Connect level - Limit the number of devices to 10 - adding devices	Introduced a limit of 10 devices for subscription-free ExtremeCloud IQ Connect accounts.
XIQ-18574	Connect level - Limit the number of policies to 2	Introduced a limit of two network policies for subscription-free ExtremeCloud IQ Connect accounts.
XIQ-18575	Connect level - Limit the number of SSIDs to 4	Introduced a limit of four SSIDs for subscription-free ExtremeCloud IQ Connect accounts.
XIQ-18578	Connect level - Inform Connect customers over the limit of 10 devices	Introduced a banner announcing upcoming limitations to ExtremeCloud IQ Connect customers with more than 10 devices.
XIQ-19167	Added new filter values for CoPilot licenses to match the options in the CoPilot column	On the Devices page, administrators filtering by License > CoPilot can select two new values: CoPilot Grace Period and CoPilot Unlicensed.

Feature ID	Feature	Description
XIQ-19485	ExtremeXOS/Switch Engine 32.5 Download Image Support	ExtremeCloud IQ now supports ExtremeXOS/Switch Engine 32.5 image download.
XIQ-19557	Ability to enable STP at device level regardless of template setting	You can now override template settings for a specific Switch Engine and Fabric Engine device. The following settings can be configured at the device level: • STP Mode • Priority • Forwarding Delay • Max Age The device level configurations override
		the template configuration.
XIQ-19697	Connect level - Limit the number of devices to 10 - Unmanage to Manage devices	Introduced a banner to warn about device management limitations for ExtremeCloud IQ Connect accounts. If a user chooses the to manage more than 10 devices at the Connect level, a banner displays.
XIQ-19715	Add Copy function to Configuration events	It is now possible to copy text in the Description column for individual logs displayed under the Events and Configuration Events tabs on the Monitor > Events page.
XIQ-19748	VOSS ExtremeCloud IQ Agent 0.6.14	Fabric Engine now supports ExtremeCloud IQ Agent 0.6.14.
XIQ-19749	ExtremeXOS ExtremeCloud IQ Agent 0.7.34	Switch Engine now supports ExtremeCloud IQ Agent 0.7.34.
XIQ-19831	Filter sections shall be collapsed by default	On the Manage > Devices page, the filter sections within the Filter sidebar are now collapsed by default.
XIQ-20158	ExtremeXOS/Switch Engine 31.7.2 Patch 1-8 Image Download Support	ExtremeCloud IQ now supports ExtremeXOS/Switch Engine 31.7.2 Patch image download.
XIQ-21197	Digital Twin: (23R5) Add support for the ExtremeXOS 32.5.1.x image	Added new Switch Engine 32.5.1 image firmware to Digital Twin (an ExtremeCloud IQ CoPilot feature).



Addressed Issues in 23.5.0.41

Issue ID	Description	
XIQ-19637	Addressed an issue where ExtremeCloud IQ CoPilot was automatically disabled if the same license pool was shared by multiple Virtual ExtremeCloud IQ accounts.	
XIQ-19811	Addressed an issue where ExtremeCloud IQ CoPilot license status was wrong for stack devices.	
XIQ-20096	Addressed an issue where on the Manage > Devices > <switch> > Device Details > Monitor > Overview page, inconsistencies were observed between details displayed for a channelized port listed in the table versus the details displayed in the Port Info pop-up window (accessed by selecting the channelized port in the port status panel).</switch>	
XIQ-20249	Addressed an issue that was found while verifying monitoring function for the 7520 platform. After selecting port from 1/49 to 1/54 and ACTIONS Bounce Port, UP ports are NOT bounced. The error message did not indicate all of the down interfaces.	
XIQ-20399	Addressed an issue on the Configure-User Management > Private Client Groups page, where the Enable Key-Based Groups button would not toggle to Enabled.	
XIQ-20427	Addressed an issue that occurred when adding a non-admin user under Global Settings > Account Management . Once added, the user received a <i>Welcome to ExtremeCloud IQ</i> email from which they linked to the Setup Password page; if their browser window was not maximized, the page was blank.	
XIQ-20615	Corrected an issue where the Bootstrap state would hang when moving a device to another Virtual ExtremeCloud IQ instance.	
XIQ-20746	Addressed an issue where there was a need to re-onboard	
XIQ-21324	the 7x20 stack case. This requirement lead to inconsistencies in port values with respect to channelization and stack visibility in D360. This fix basically removes wrongly identified stack ports from DB table hm_device_interface (and all necessary interfaces-mapped tables). This fix allows the user to continue using the already onboarded stack even after ExtremeCloud IQ (23.5.X) and ExtremeXOS (32.5.0.146) upgrade without the need for re-onboarding. The historical data associated with these invalid stack ports, if any, are not handled in this change.	



Known Issues in 23.5.0.41

The following table lists known product issues. Issues are grouped according to ID prefix and sorted within their group with the most recently logged issue listed first (Issue IDs are in descending order).

Issue ID	Description	
XIQ-22462	Under certain conditions, if there is configuration related to IPv6 on Switch Engine when running software version 32.5.1.5, a configuration update may fail. Workaround: Upgrade to 32.5.1.5 Patch1-1 and then proceed with pushing a device configuration update.	
XIQ-21943	When an account goes into License Violation state, the user interface may not be locked until the page is refreshed or the user logs out and logs in again. There is no notification to the user, and some actions do not work in the License Violation state.	
XIQ-20194	For ExtremeCloud IQ 23.4 (and older releases), we recommend updating custom filter criteria from CoPilot Expired to CoPilot Unlicensed on the Manage > Devices page.	
XIQ-19572	Upon upgrade from ExtremeCloud IQ 23.2.x to 23.3.x, the Manage > Devices page does not retain settings from 23.2.x for the os option under the Column Picker drop-down list. To revert to the 23.2.x page view, the os option must be reselected, and the column repositioned on the page, as desired.	
XIQ-18679	Onboarding of Switch Engine instances may result in incorrect license violations reported in ExtremeCloud IQ due to Navigator license consumption when plenty of ExtremeCloud IQ CoPilot licenses are available. Devices may need to be unmanaged and remanaged to remedy the situation.	
XIQ-18544	When VGVA configurations fail due to using the same WPA3 SSID in a single network policy, move the APs associated with the WPA3 enabled SSID to a different profile.	

Issue ID	Description
XIQ-18175	The question mark character is allowed in the Global Setting > Device Management Settings password text box, but it cannot be typed into the Policy > Device Credentials password text box.
	Note: Switch Engine and Fabric Engine do not support the question mark character. A separate password can be created for Switch Engine and Fabric Engine at device-level configuration.
XIQ-17024	The Cable Test action is not supported for x435 switch running the 32.3 software image due to limitations with storage space on the switch.
XIQ-16652	The AP3000x/AP3000/AP5010U Auto Provision Update is failing with country code discover timeout.
XIQ-12503	Network 360 shows Unknown Error when All Access Points Applications is selected and the user is selecting both ExtremeWireless WiNG and IQ Engine devices. Workaround : Deselect ExtremeWireless WiNG devices.
XIQ-11984	For AP3000X/AP3000 and AP5050U/AP5050D devices operating in dual mode, under Manage > Devices > Interface Settings > Modify Multiple: Interface Settings > Wireless Interfaces, the radio Operating Mode drop-down list includes a 5 GHz option which can be selected; however, this option is not supported with this configuration.
XIQ-9848	Duplicate entries in the Client Trail when a client moves away from the AP then comes back.
XIQ-9847	The Roam Time entry in the Client Trail does not always display the correct device name.
XIQ-7312	5720 Switch Engine devices were showing as connected during the reboot process.
XIQ-5700	Client Trial only showed the currently connected AP when the client roamed to a different AP from the onboarded ExtremeCloud IQ Controller.
CFD-8946 (02710778, 02748750)	License descriptions are automatically cleared when the "ACTIVATED" status is updated.
CFD-8678 (02688797)	VLAN probe category counts are not always accurate.
CFD-8677 (02688860)	VLAN probe shows the results of a successful probe while the status says it is still running.
CFD-8598 (02670900)	Cannot enable Guest Essentials via Configure > Guest Essentials Users . Workaround : From ExtremeCloud IQ, go to Essentials > Extreme Guest .
CFD-8216 (02634924)	When Air Defense Essentials is enabled, Access Points running IQ Engine 10.4.3 or earlier versions cannot receive a delta configuration push from ExtremeCloud IQ. Upgrade the access points to the latest IQ Engine supported version.

Issue ID	Description
APC-41057	Legend labels on the switch stack graph sometimes disappear when attempting to download or print the graph. Workaround:
	 Only download one graph at a time, and open the downloaded file before choosing to download again. The SVG option is the most stable format; PNG, JPG, and PDF have spacing issues on the legend section.
APC-22297	ExtremeCloud IQ displays PoE configuration controls for all ports on the Dell EMC N1108P switch, even though the N1100P only supports PoE on ports 1 - 4.
APC-21456	In rare cases, ExtremeCloud IQ does not upload some IGMP sub-commands successfully. Workaround: Use the Supplemental CLI to upload commands when necessary.
APC-20760	ExtremeCloud IQ reports any wired devices that are connected to an SR2208P switch as unidentified.
APC-20734	When a configuration upload is unsuccessful because of improper Supplemental CLI commands, hovering the mouse over the upload message does not result in a tool tip containing the problematic CLI command.
APC-20647	ExtremeCloud IQ does not successfully upload configurations that contain an external RADIUS server.
APC-20172	The option to configure SSH wrongly displays when attempting bulk edits of multiple switches or of switches and APs together. However, when the admin is performing bulk edits of multiple APs only, ExtremeCloud IQ correctly hides the SSH configuration options.
DAPC-385	ExtremeCloud IQ sometimes displays the incorrect port number in the tool tip when the admin mouses over a stack port on the Port Status page.
DAPC-382	When an administrator attaches a switch stack to HiveManager Virtual Appliance , only the primary switch is auto-detected. The administrator must subsequently onboard the remaining stack members manually.
DAPC-240D	When the primary switch is removed from a stack, the stack retains the old MAC address. As a result, the primary switch (now a standalone switch), and the original stack both have the same MAC address, which ExtremeCloud IQ cannot resolve. Workaround: Before removing the primary switch from a stack with the intention of continuing to use the primary as a standalone switch, perform the following steps: 1. Remove the stack from ExtremeCloud IQ. 2. Perform the related command line operations on the stack to remove the primary switch. 3. Add the stack and the standalone switch to ExtremeCloud IQ again.

Issue ID	Description	
DAPC-222	After an admin uploads a stack template to a switch stack, ExtremeCloud IQ displays [-No Change-] in the Stack Template drop-down list, rather than the new template name.	
DAPC-186	ExtremeCloud IQ does not display the management VLAN information in the Devices table.	
DAPC-73	When resetting multiple switches simultaneously to factory default settings, ExtremeCloud IQ erroneously reports that the reset was unsuccessful.	



Device Support Information

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Supported Browsers and Display Settings on page 36

This section lists the devices that ExtremeCloud IQ supports and includes the latest version of the software that each device supports.

Controllers

Device Model	Latest Supported Release	Comments
E1120	XIQC 10.06.02	Monitor only
E2120	XIQC 10.06.02	Monitor only
E2122	XIQC 10.06.02	Monitor Only
E3120	XIQC 10.06.02	Monitor only
VE6120	XIQC 10.06.02	Monitor only
VE6120H	XIQC 10.05.02	Monitor only
VE6120K	XIQC 10.06.02	Monitor Only
VE6125	XIQC 10.06.02	Monitor only
VE6125K	XIQC 10.06.02	Monitor Only
NX5500	Wing os 7.9.2.0	Monitor only
NX7500 Series	Wing os 7.9.2.0	Monitor only
NX9500 Series	Wing os 7.7.1.5	Monitor only
NX9600 Series	Wing os 7.9.2.0	Monitor only
RFS4000 Series	Wing os 5.9.7.1	Monitor only
RFS6000 Series	WiNG OS 5.9.1.8	Monitor only
RFS7000 Series	Wing os 5.8.6.11	Monitor only
VX9000	WiNG OS 7.9.2.0	Monitor only

Access Points

Access Point information is provided in the following sections:

- Universal Hardware on page 19
- IQ Engine (Cloud Native) on page 20
- ExtremeWireless WiNG on page 21
- Extreme Wireless on page 22

Universal Hardware

Device Model	Latest Supported Release	Comments
AP302W	IQ Engine 10.6.3 WiNG OS 7.9.2.0 AP 10.6.2 Platform support introduced with IQ Er 10.3.1	
AP305C	IQ Engine 10.6.3 WiNG OS 7.9.2.0 AP 10.6.2	Platform support introduced with IQ Engine 10.1.1
AP305C-1	IQ Engine 10.6.1 WiNG OS 7.9.2.0 AP 10.6.2	Platform support introduced with IQ Engine 10.4.6
AP305CX	IQ Engine 10.6.3 WiNG OS 7.9.2.0 AP 10.6.2	Platform support introduced with IQ Engine 10.1.1
AP3000	IQ Engine 10.6.2 AP 10.6.2	Platform support introduced with IQ engine 10.6.1
AP3000X	IQ Engine 10.6.3	Platform support introduced with IQ Engine 10.6.3
AP4000	IQ Engine 10.6.1 AP 10.6.2	Platform support introduced with IQ Engine 10.4.1
AP4000-1	IQ Engine 10.6.1 AP 10.6.2	Platform support introduced with IQ Engine 10.4.2
AP410C	IQ Engine 10.6.3 WiNG OS 7.9.2.0 AP 10.6.2	Platform support introduced with IQ Engine 10.1.2
AP410C-1	IQ Engine 10.6.1 WiNG OS 7.9.2.0 AP 10.6.2	Platform support introduced with IQ Engine 10.4.6
AP460C	IQ Engine 10.6.3 WiNG OS 7.9.2.0 AP 10.6.2	Platform support introduced with IQ Engine 10.1.2
AP460S6C	IQ Engine 10.6.3 WiNG OS 7.9.2.0 AP 10.6.2	Platform support introduced with IQ Engine 10.1.2

Device Model	Latest Supported Release	Comments
AP460S12C	IQ Engine 10.6.3 WiNG OS 7.9.2.0 AP 10.6.2	Platform support introduced with IQ Engine 10.1.2
AP630	IQ Engine 10.6.3	Platform support introduced with IQ Engine 10.6.3
AP650	IQ Engine 10.6.3	Platform support introduced with IQ Engine 10.6.3
AP650X	IQ Engine 10.6.3	Platform support introduced with IQ Engine 10.6.3
AP5010	IQ Engine 10.6.2 AP 10.6.2 WiNG OS 7.9.2.0	Platform support introduced with IQ Engine 10.5.1
AP5010C	IQ Engine 10.6.3	Platform support introduced with IQ Engine 10.6.3
AP5010CX	IQ Engine 10.6.3	Platform support introduced with IQ Engine 10.6.3
AP5050U	IQ Engine 10.6.3 AP 10.6.2	Platform support introduced with IQ Engine 10.5.3
AP5050D	IQ Engine 10.6.3 AP 10.6.2	Platform support introduced with IQ Engine 10.5.3

IQ Engine (Cloud Native)

Device Model	Latest Supported Release	Comments
AP630	IQ Engine 10.6.2	Platform support introduced with IQ Engine 10.0.1. End of Life Information
AP650	IQ Engine 10.6.2	Platform support introduced with IQ Engine 10.0.1. End of Life Information
AP650X	IQ Engine 10.6.2	Platform support introduced with IQ Engine 10.0.1. End of Life Information
AP1130	IQ Engine 10.5.3	Platform support introduced with IQ Engine 8.2.1. End of Life Information
AP550	IQ Engine 10.5.3	Platform support introduced with IQ Engine 7.0.3. End of Life Information
AP390	IQ Engine 6.5.16	End of Life Information
AP370	IQ Engine 6.5.16	End of Life Information

Device Model	Latest Supported Release	Comments
AP350	IQ Engine 6.5.10	End of Life Information
AP340	IQ Engine 6.5.16	End of Life Information
AP330	IQ Engine 6.5.16	End of Life Information
AP320	IQ Engine 6.5.10	End of Life Information
AP250	IQ Engine 10.6.1	Platform support introduced with IQ Engine 7.0.2.
AP245X	IQ Engine 10.5.3	Platform support introduced with IQ Engine 7.0.2. End of Life Information
AP230	IQ Engine 10.5.3	Platform support introduced with IQ Engine 8.2.1. End of Life Information
AP170	IQ Engine 6.5.16	End of Life Information
AP150W	IQ Engine 10.6.1	Platform support introduced with IQ Engine 8.1.1.
AP141	IQ Engine 6.5.16	End of Life Information
AP130	IQ Engine 10.6.1	Platform support introduced with IQ Engine 8.2.1. End of Life Information
AP122	IQ Engine 10.6.1	Platform support introduced with IQ Engine 7.0.4.
AP122X	IQ Engine 10.5.3	Platform support introduced with IQ Engine 8.2.1. End of Life Information
AP121	IQ Engine 6.5.16	End of Life Information
AP120	IQ Engine 6.5.10	End of Life Information
Atom AP30	IQ Engine 10.6.1	Platform support introduced with IQ Engine 8.3.2.
AP510C/CX	IQ Engine 10.6.2	Platform support introduced with IQ Engine 10.0.8

ExtremeWireless WiNG

Device Model	Latest Supported Release	Comments
AP560i	Wing os 7.9.2.0	Monitor only
AP560h	Wing os 7.9.2.0	Monitor only
AP505	Wing os 7.9.2.0	Monitor only
AP510i	Wing os 7.9.2.0	Monitor only
AP510i-1	Wing os 7.9.2.0	Monitor only
AP460i/e	Wing os 7.9.2.0	Monitor only
AP410i/e	Wing os 7.9.2.0	Monitor only
AP410i-1	Wing os 7.9.2.0	Monitor only
AP360i/e	Wing os 7.9.2.0	Monitor only
AP310i/e	Wing os 7.9.2.0	Monitor only
AP310i/e-1	Wing os 7.9.2.0	Monitor Only

Device Model	Latest Supported Release	Comments
AP8533	Wing os 7.7.1.8	Monitor only
AP8432	Wing os 7.7.1.8	Monitor only
AP8232	WiNG OS 5.9.1.8	Monitor only
AP8222	Wing os 5.8.6.11	Monitor only
AP8163	Wing os 5.9.7.1	Monitor only
AP8132	Wing os 5.9.1.8	Monitor only
AP8122	Wing os 5.9.1.8	Monitor only
AP7662	Wing os 7.7.1.8	Monitor only
AP7632	Wing os 7.7.1.8	Monitor only
AP7622	Wing os 5.9.7.1	Monitor only
AP7612	Wing os 7.7.1.8	Monitor only
AP7602	Wing os 5.9.7.1	Monitor only
AP7562	Wing os 7.7.1.8	Monitor only
AP7532	Wing os 7.7.1.8	Monitor only
AP7522	Wing os 7.7.1.8	Monitor only
AP7502	Wing os 5.9.7.1	Monitor only
AP7161	Wing os 5.9.1.8	Monitor only
AP7131	Wing os 5.8.6.11	Monitor only
AP6562	Wing os 5.9.1.8	Monitor only
AP6532	WiNG OS 5.9.1.8	Monitor only
AP6522	WiNG OS 5.9.1.8	Monitor only
AP6521	WiNG OS 5.9.1.8	Monitor only
AP6511	WiNG OS 5.8.6.11	Monitor only

Extreme Wireless

Device Model	Latest Supported Release	Comments
AP3965	ExtremeWireless 10.51	Monitor only
AP3935	ExtremeWireless 10.51	Monitor only
AP3917	ExtremeWireless 10.51	Monitor only
AP3916C	ExtremeWireless 10.51	Monitor only
AP3915	ExtremeWireless 10.51	Monitor only
AP3912	ExtremeWireless 10.51	Monitor only
SA201	ExtremeWireless 10.51	Monitor only

Switches

Switch information is provided in the following sections:

- Universal Hardware on page 23
- ExtremeXOS on page 28
- VOSS on page 30
- IQ Engine (Cloud Native) on page 31
- Dell EMC on page 31

For the latest release notes for Fabric Engine and Switch Engine, see the Extreme Networks Documentation Site.

Universal Hardware

Device Model	Latest Supported Release	Standalone Support	Stack Support
7520-48Y	Switch Engine 32.5 Fabric Engine 8.10	 Switch Engine: Monitor Template- and device-level configuration SSH Proxy Fabric Engine: Monitor 	Switch Engine:MonitorTemplate- and device-level configurationSSH Proxy
7520-48XT	Switch Engine 32.5 Fabric Engine 8.10	Switch Engine: Monitor Template- and device-level configuration SSH Proxy Fabric Engine: Monitor	Switch Engine: Monitor Template- and device-level configuration SSH Proxy
7720-32c	Switch Engine 32.5 Fabric Engine 8.10	Switch Engine: Monitor Template- and device-level configuration SSH Proxy Fabric Engine: Monitor	Switch Engine: • Monitor • Template- and device-level configuration • SSH Proxy
5320-16P-4XE	Switch Engine 32.5 Fabric Engine 8.10	 Monitor Template- and device-level configuration SSH Proxy 	Switch Engine: Monitor Template- and device-level configuration SSH Proxy

Device Model	Latest Supported Release	Standalone Support	Stack Support
5320-16P-4XE-DC	Switch Engine 32.5 Fabric Engine 8.10	 Monitor Template- and device-level configuration SSH Proxy 	Switch Engine: Monitor Template- and device-level configuration SSH Proxy
5320-24T-4XE	Switch Engine 32.5 Fabric Engine 8.10	MonitorTemplate- and device-level configurationSSH Proxy	MonitorTemplate- and device-level configurationSSH Proxy
5320-24PT-4XE	Switch Engine 32.5 Fabric Engine 8.10	MonitorTemplate- and device-level configurationSSH Proxy	MonitorTemplate- and device-level configurationSSH Proxy
5320-48P-4XE	Switch Engine 32.5 Fabric Engine 8.10	MonitorTemplate- and device-level configurationSSH Proxy	 Monitor Template- and device-level configuration SSH Proxy
5320-48T-4XL	Switch Engine 32.5 Fabric Engine 8.10	MonitorTemplate- and device-level configurationSSH Proxy	MonitorTemplate- and device-level configurationSSH Proxy
5420F-24T-4XE	Switch Engine 32.5 Fabric Engine 8.10	MonitorTemplate- and device-level configurationSSH Proxy	MonitorTemplate- and device-level configurationSSH Proxy
5420F-24P-4XE	Switch Engine 32.5 Fabric Engine 8.10	MonitorTemplate- and device-level configurationSSH Proxy	 Monitor Template- and device-level configuration SSH Proxy
5420F-24S-4XE	Switch Engine 32.5 Fabric Engine 8.10	MonitorTemplate- and device-level configurationSSH Proxy	MonitorTemplate- and device-level configurationSSH Proxy

Device Model	Latest Supported Release	Standalone Support	Stack Support
5420F-48T-4XE	Switch Engine 32.5 Fabric Engine 8.10	MonitorTemplate- and device-level configurationSSH Proxy	MonitorTemplate- and device-level configurationSSH Proxy
5420F-48P-4XE	Switch Engine 32.5 Fabric Engine 8.10	MonitorTemplate- and device-level configurationSSH Proxy	MonitorTemplate- and device-level configurationSSH Proxy
5420F-48P-4XL	Switch Engine 32.5 Fabric Engine 8.10	MonitorTemplate- and device-level configurationSSH Proxy	MonitorTemplate- and device-level configurationSSH Proxy
5420F-8W-16P-4X E	Switch Engine 32.5 Fabric Engine 8.10	MonitorTemplate- and device-level configurationSSH Proxy	MonitorTemplate- and device-level configurationSSH Proxy
5420F-16W-32P-4 XE	Switch Engine 32.5 Fabric Engine 8.10	MonitorTemplate- and device-level configurationSSH Proxy	MonitorTemplate- and device-level configurationSSH Proxy
5420F-16MW-32P -4XE	Switch Engine 32.5 Fabric Engine 8.10	MonitorTemplate- and device-level configurationSSH Proxy	MonitorTemplate- and device-level configurationSSH Proxy
5420M-24T-4YE	Switch Engine 32.5 Fabric Engine 8.10	MonitorTemplate- and device-level configurationSSH Proxy	MonitorTemplate- and device-level configurationSSH Proxy
5420M-24W-4YE	Switch Engine 32.5 Fabric Engine 8.10	MonitorTemplate- and device-level configurationSSH Proxy	 Monitor Template- and device-level configuration SSH Proxy

Device Model	Latest Supported Release	Standalone Support	Stack Support
5420M-48T-4YE	Switch Engine 32.5 Fabric Engine 8.10	MonitorTemplate- and device-level configurationSSH Proxy	MonitorTemplate- and device-level configurationSSH Proxy
5420M-48W-4YE	Switch Engine 32.5 Fabric Engine 8.10	MonitorTemplate- and device-level configurationSSH Proxy	MonitorTemplate- and device-level configurationSSH Proxy
5420M-16MW-32P -4YE	Switch Engine 32.5 Fabric Engine 8.10	MonitorTemplate- and device-level configurationSSH Proxy	MonitorTemplate- and device-level configurationSSH Proxy
5520-24W	Switch Engine 32.5 Fabric Engine 8.10	MonitorTemplate- and device-level configurationSSH Proxy	MonitorTemplate- and device-level configurationSSH Proxy
5520-24T	Switch Engine 32.5 Fabric Engine 8.10	MonitorTemplate- and device-level configurationSSH Proxy	MonitorTemplate- and device-level configurationSSH Proxy
5520-48W	Switch Engine 32.5 Fabric Engine 8.10	MonitorTemplate- and device-level configurationSSH Proxy	MonitorTemplate- and device-level configurationSSH Proxy
5520-48T	Switch Engine 32.5 Fabric Engine 8.10	MonitorTemplate- and device-level configurationSSH Proxy	 Monitor Template- and device-level configuration SSH Proxy
5520-12MW-36W	Switch Engine 32.5 Fabric Engine 8.10	MonitorTemplate- and device-level configurationSSH Proxy	 Monitor Template- and device-level configuration SSH Proxy

Device Model	Latest Supported Release	Standalone Support	Stack Support
5520-48SE	Switch Engine 32.5 Fabric Engine 8.10	MonitorTemplate- and device-level configurationSSH Proxy	 Monitor Template- and device-level configuration SSH Proxy
5520-24X	Switch Engine 32.5 Fabric Engine 8.10	MonitorTemplate- and device-level configurationSSH Proxy	Switch Engine:MonitorTemplate- and device-level configurationSSH Proxy
5720-24MW	Switch Engine 32.5 Fabric Engine 8.10	 Monitor Template- and device-level configuration SSH Proxy 	Switch Engine: Monitor Template- and device-level configuration SSH Proxy
5720-48MW	Switch Engine 32.5 Fabric Engine 8.10	 Monitor Template- and device-level configuration SSH Proxy 	Switch Engine:MonitorTemplate- and device-level configurationSSH Proxy
5720-24MXW	Switch Engine 32.5 Fabric Engine 8.10	 Monitor Template- and device-level configuration SSH Proxy 	Switch Engine: Monitor Template- and device-level configuration SSH Proxy
5720-48MXW	Switch Engine 32.5 Fabric Engine 8.10	 Monitor Template- and device-level configuration SSH Proxy 	Switch Engine:MonitorTemplate- and device-level configurationSSH Proxy

ExtremeXOS

Device Model	Latest Supported Release	Standalone Support	Stack Support
X435-8P-2T-W	ExtremeXOS 32.5	MonitorTemplate- and device- level configurationSSH Proxy	N/A
X435-24T-4S	ExtremeXOS 32.5	MonitorTemplate- and device- level configurationSSH Proxy	N/A
X435-24P-4S	ExtremeXOS 32.5	MonitorTemplate- and device- level configurationSSH Proxy	N/A
X435-8T-4S	ExtremeXOS 32.5	MonitorTemplate- and device- level configurationSSH Proxy	N/A
X435-8P-4S	ExtremeXOS 32.5	MonitorTemplate- and device- level configurationSSH Proxy	N/A
X440- G2-12p-10GE4	ExtremeXOS 32.5	MonitorTemplate- and device- level configurationSSH Proxy	MonitorTemplate- and device-level configurationSSH Proxy
X440-G2-12t-10GE4	ExtremeXOS 32.5	MonitorTemplate- and device- level configurationSSH Proxy	MonitorTemplate- and device-level configurationSSH Proxy
X440- G2-24p-10GE4	ExtremeXOS 32.5	MonitorTemplate- and device- level configurationSSH Proxy	MonitorTemplate- and device-level configurationSSH Proxy
X440- G2-24t-10GE4	ExtremeXOS 32.5	MonitorTemplate- and device- level configurationSSH Proxy	MonitorTemplate- and device-level configurationSSH Proxy

Device Model	Latest Supported Release	Standalone Support	Stack Support
X440-	ExtremeXOS	MonitorTemplate- and device-	MonitorTemplate- and device-level configurationSSH Proxy
G2-48p-10GE4	32.5	level configuration SSH Proxy	
X440-	ExtremeXOS	MonitorTemplate- and device-	 Monitor Template- and device-level configuration SSH Proxy
G2-48t-10GE4	32.5	level configuration SSH Proxy	
X450-G2-24p-GE4	ExtremeXOS 32.5	MonitorTemplate- and device- level configurationSSH Proxy	Monitor
X450-	ExtremeXOS	MonitorTemplate- and device-	Monitor
G2-24p-10GE4	32.5	level configuration SSH Proxy	
X450-	ExtremeXOS	MonitorTemplate- and device-	Monitor
G2-48p-10GE4	32.5	level configuration SSH Proxy	
X460-	ExtremeXOS	MonitorTemplate- and device-	Monitor
G2-24p-10GE4	32.5	level configuration SSH Proxy	
X460-	ExtremeXOS	MonitorTemplate- and device-	Monitor
G2-48p-10GE4	32.5	level configuration SSH Proxy	
X465-24W	ExtremeXOS 32.5	MonitorTemplate- and device- level configurationSSH Proxy	Monitor
X465-48W	ExtremeXOS 32.5	MonitorTemplate- and device- level configurationSSH Proxy	Monitor

Device Model	Latest Supported Release	Standalone Support	Stack Support
X465-24MU	ExtremeXOS 32.5	MonitorTemplate- and device- level configurationSSH Proxy	Monitor
X465-48P	ExtremeXOS 32.5	MonitorTemplate- and device- level configurationSSH Proxy	Monitor
X465-24MU-24W	ExtremeXOS 32.5	MonitorTemplate- and device- level configurationSSH Proxy	Monitor

VOSS

Device Model	Latest Supported Release	Standalone Support	Stack Support
VSP7432CQ	VOSS 8.10	MonitorTemplate- and device-level configurationSSH Proxy	Not supported
VSP7400-48Y	VOSS 8.10	MonitorTemplate- and device-level configurationSSH Proxy	Not supported
VSP4900-48P	VOSS 8.10	MonitorTemplate- and device-level configurationSSH Proxy	Not supported
VSP4900-24XE	VOSS 8.10	MonitorTemplate- and device-level configurationSSH Proxy	Not supported
VSP4900-24S	VOSS 8.10	MonitorTemplate- and device-level configurationSSH Proxy	Not supported

Device Model	Latest Supported Release	Standalone Support	Stack Support
VSP4900-12MXU-12XE	VOSS 8.10	MonitorTemplate- and device-level configurationSSH Proxy	Not supported
XA1480	VOSS 8.10	MonitorTemplate- and device-level configurationSSH Proxy	Not supported
XA1440	VOSS 8.10	MonitorTemplate- and device-level configurationSSH Proxy	Not supported

IQ Engine (Cloud Native)

Device Model	Latest Supported Release
SR2024 End of Life	IQ Engine 6.5.12
SR2024P End of Life	IQ Engine 6.5.12
SR2124P End of Life	IQ Engine 6.5.12
SR2148P End of Life	IQ Engine 6.5.12
SR2208P	FASTPATH 8.2.0.2 v1.0.1.29 ExtremeCloud IQ Agent 1.1.31
SR2224P	FASTPATH 8.2.0.2 v1.0.1.29 ExtremeCloud IQ Agent 1.1.31
SR2324P	FASTPATH 8.2.0.2 v1.0.1.29 ExtremeCloud IQ Agent 1.1.31
SR2348P	FASTPATH 8.2.0.2 v1.0.1.29 ExtremeCloud IQ Agent 1.1.31

Dell EMC

Device Model	Latest Supported Release
N3132PX	IQAgent 1.1.29
N3024EF	IQAgent 1.1.29
N3024EP	IQAgent 1.1.29

Device Model	Latest Supported Release
N3024ET	IQAgent 1.1.29
N3048EP	IQAgent 1.1.29
N3048ET	IQAgent 1.1.29
N3024	IQAgent 1.1.29
N3024F	IQAgent 1.1.29
N3024P	IQAgent 1.1.29
N3048	IQAgent 1.1.29
N3048P	IQAgent 1.1.29
N2128PX	IQAgent 1.1.29
N2024	IQAgent 1.1.29
N2024P	IQAgent 1.1.29
N2048	IQAgent 1.1.29
N2048P	IQAgent 1.1.29
N1524	IQAgent 1.1.29
N1524P	IQAgent 1.1.29
N1548	IQAgent 1.1.29
N1548P	IQAgent 1.1.29
N1108T-ON	IQAgent 1.1.29
N1108P-ON	IQAgent 1.1.29
N1124T-ON	IQAgent 1.1.29
N1124P-ON	IQAgent 1.1.29
N1148T-ON	IQAgent 1.1.29
N1148P-ON	IQAgent 1.1.29

Routers

Device Model	Latest Supported Release	Standalone Support
BR100 End of Life	IQ Engine 6.5.12	Not supported in ExtremeCloud IQ
BR200 End of Life	IQ Engine 6.5.12	Not supported in ExtremeCloud IQ
BR200-LTE-VZ End of Life	IQ Engine 6.5.12	Not supported in ExtremeCloud IQ
BR200WP End of Life	IQ Engine 6.9.7	
XR200P	IQ Engine 6.9.7	Platform support introduced with IQ Engine 6.9.2

Device Model	Latest Supported Release	Standalone Support
XR600	IQ Engine 10.0.11	Platform support introduced with IQ Engine 9.0.1
XR600P	IQ Engine 10.0.11	Platform support introduced with IQ Engine 9.0.1
VGVA	IQ Engine 6.9.7	

ExtremeCloud IQ - Site Engine

ExtremeCloud IQ - Site Engine Version	Supported Features
22.06.12.13	 License allocation Device Statistics Port Statistics Unmanage/Manage device Device Group to CCG mapping Open Site Engine with SSO
22.06.13.09	 License allocation Device Statistics Port Statistics Unmanage/Manage device Device Group to CCG mapping Open Site Engine with SSO
22.09.10.73	 License allocation Device Statistics Port Statistics Unmanage/Manage device Device Group to CCG mapping Open Site Engine with SSO
22.09.11.14	 License allocation Device Statistics Port Statistics Unmanage/Manage device Device Group to CCG mapping Open Site Engine with SSO
22.09.12.14	 License allocation Device Statistics Port Statistics Unmanage/Manage device Device Group to CCG mapping Open Site Engine with SSO

ExtremeCloud IQ - Site Engine Version	Supported Features
22.09.13.5	 License allocation Device Statistics Port Statistics Unmanage/Manage device Device Group to CCG mapping Open Site Engine with SSO
23.02.10	 License allocation Device Statistics Port Statistics Unmanage/Manage device Device Group to CCG mapping Open Site Engine with SSO Stack members
23.02.11	 License allocation Device Statistics Port Statistics Unmanage/Manage device Device Group to CCG mapping Open Site Engine with SSO Stack members
23.04.10	 License allocation Device Statistics Port Statistics Unmanage/Manage device Device Group to CCG mapping Open Site Engine with SSO Stack members
23.04.11	 License allocation Device Statistics Port Statistics Unmanage/Manage device Device Group to CCG mapping Open Site Engine with SSO Stack members

ExtremeCloud IQ - Site Engine Version	Supported Features
23.04.12	 License allocation Device Statistics Port Statistics Unmanage/Manage device Device Group to CCG mapping Open Site Engine with SSO Stack members
23.07.10	 License allocation Device Assignment to the ExtremeCloud IQ Location Device Statistics Port Statistics Unmanage/Manage device Device Group to CCG mapping Open Site Engine with SSO Stack members NAC details update for wireless end-systems

ExtremeCloud IQ CoPilot

ExtremeCloud IQ CoPilot Feature	Minimum Firmware				
	IQ Engine	Switch Engine	Fabric Engine	Extre meXO S	VOSS
WiFi Efficiency	10.5.2*				
WiFi Capacity	10.5.2*				
PoE Stability	10.5.2*	32.1	8.6	32.1	8.6
Port Efficiency	10.5.2**	31.7	8.6	31.7	8.6
DFS Recurrence	10.5.2*				
Adverse Traffic Patterns	10.5.2*	31.7	8.6	31.7	8.6
Time to Associate (Wireless Connectivity Experience)	10.5.2*				
Time to Authenticate (Wireless Connectivity Experience)	10.5.2*				
Time to obtain IP (Wireless Connectivity Experience)	10.5.2				
Port Errors (Wired Connectivity Experience)		31.7	8.6	31.7	8.6

^{*}beta support from 10.4

^{**}beta support from 10.5.1

ExtremeCloud A3

ExtremeCloud A3 Version	Supported Features
5.0.0-12	LicensingStatus MonitoringSSOClient Details
5.0.1-4	LicensingStatus MonitoringSSOClient Details

Supported Browsers and Display Settings

Desktop and Mobile Browser Support



Note

ExtremeCloud IQ does not support 32-bit browsers.

Table 3: Desktop Browsers

Desktop Browsers	Version Supported
Chrome	v73
Edge	v79
Firefox	v67
Internet Explorer	Not supported
Opera	v60
Safari	vl3

Table 4: Mobile Browsers

Mobile Browsers	Version Supported
Android Webview	√73
Chrome for Android	√73
Edge	√79
Firefox for Android	∨67
Opera for Android	v52
Safari for iOS	v13
Samsung Internet	Not supported

Display Settings

ExtremeCloud IQ supports display resolutions of 1280 x 1024 or higher.