



ExtremeCloud IQ Release Notes

23.7.1

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General Release Information

Current Release: 23.7.1

January 2024

Release: 23.7.1.7 New Features and Addressed Issues

Table 1: New Features in Release 23.7.1.7

Feature ID	Feature	Description
XIQ-25220	CoPilot - Reduce Noise - Wi-Fi Efficiency - Deprecate RX Retries	ExtremeCloud IQ now supports TX-based Wi-Fi Efficiency anomalies only. Our research indicates that measuring TX packet error rates on the downlink (AP to client) provides a more dependable assessment of wireless client performance than RX packet error rate measurements on the uplink (client to AP). This adjustment aims to decrease the occurrence of false positives in Wi-Fi Efficiency anomalies.
XIQ-24321	CoPilot - Wi-Fi Efficiency - 10% Minimum Threshold	The CoPilot Wi-Fi Efficiency anomaly algorithm now includes a minimum 10% Packet Error Rate (PER) requirement. The threshold will continue to be dynamic above 10%. If the location threshold is greater than 10%, the anomaly is triggered.
XIQ-23899	ExtremeCloud IQ WIPS Page - Allow both AirDefense Essentials & Legacy WIPS	ExtremeCloud IQ now supports configuring legacy WIPS and AirDefense Essentials on the same network profile. Models that support AirDefense Essentials default to that platform, all others use legacy WIPS.

Table 2: Addressed Issues in Release 23.7.1.7

Issue ID	Description
CFD-10432	Addressed the issue where ExtremeCloud IQ displayed a "java.lang.ClassCastException" error when using the main production network policy.

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	
Australia (AUS)	13.210.3.192/28	Firewall Address and Port Information
Azure, Canada Central (ACA)	20.151.64.48/28	Firewall Address and Port Information
Azure, US East (AVA)	52.226.89.112/28	Firewall Address and Port Information
Brazil (BR)	18.228.70.16/28	Firewall Address and Port Information
Germany (FRA)	3.67.81.96/27 18.194.95.0/28	Firewall Address and Port Information
India (IN)	13.232.67.8/29 3.6.70.64/29	Firewall Address and Port Information
Ireland (IE)	34.253.190.192/26	Firewall Address and Port Information
Japan (JP)	18.176.203.112/29 13.231.6.232/29	Firewall Address and Port Information
Netherlands (NL-GCP)	34.91.82.64/27	Firewall Address and Port Information
Singapore (SG-GCP)	34.87.158.80/28	Firewall Address and Port Information
Spain (ES)	18.101.49.128/27	Firewall Address and Port Information
Sweden (SE)	13.48.186.224/29 13.48.4.184/29	Firewall Address and Port Information
Switzerland (ACH)	51.107.1.192/28	Firewall Address and Port Information
United Arab Emirates (UAE)	3.28.159.128/28	Firewall Address and Port Information
United Kingdom (UK-AGB)	51.143.233.80/28	Firewall Address and Port Information
US East (VA)	34.202.197.0/26 44.192.245.0/26 3.234.248.0/27	Firewall Address and Port Information
US East 2 (VA2)	34.202.197.0/26 44.192.245.0/26 3.234.248.0/27	Firewall Address and Port Information
US-Iowa (IA-GCP)	34.67.130.64/27	Firewall Address and Port Information
US Ohio (OH)	3.145.235.64/26	Firewall Address and Port Information

Supported IQ Engine 10.6.5 Software

See the [Release Notes](#) for information on the current release of IQ Engine.



Previous Release

[New Features](#) on page 7

[Addressed Issues](#) on page 12

[Known Issues](#) on page 13

This section lists the new features, addressed issues, and known issues for the previous release.

New Features

New Features in 23.7.0.59

Device OS Support

This release adds support for the following device operating systems:

- **ExtremeXOS/Switch Engine:**
 - 31.3.100.20 Onboard, Monitor, Config, Image Drag & Drop Support
 - 31.7.2.28 Patch 1-38 Image Download Support
 - 32.5.1 Patch 1-6 Image Download Support
 - 32.6.1.5 Patch 1-2 Image Download Support
 - 32.6.1.5 Patch 1-2 Onboard, Monitor, Config, Image Drag & Drop Support
- **VOSS/Fabric Engine:**
 - 8.10.2 Onboard, Monitor, Config, Image Download / Image Drag & Drop Support
 - 9.0 Onboard, Monitor, Config, Image Download / Image Drag & Drop Support

New Hardware Support

There is no new hardware support in this release.

Feature ID	Feature	Description
XIQ-1236	Switch Engine Instant Port Profiles MAC/LLDP System Capability Detect	Switch Engine now supports Instant Port Profiles MAC/LLDP system capability detection. This feature requires version 32.6.1.5-patch1-2 or newer.
XIQ-13108	Consolidate partition selector for 5x20 and 7x20 devices	When network policy and configuration updates are performed, ExtremeCloud IQ now detects whether Switch Engine and Fabric Engine devices have VIM/Partition for 5520/5720 SKU configuration that is out of sync with assigned network policy configuration. This feature requires Switch Engine 32.5 and Fabric Engine 8.10.1 or higher versions be installed.
XIQ-17617	Default View Modifications	To improve loading performance when users log in to ExtremeCloud IQ, the Default view now includes a limited set of informational columns in the Device list. See Manage > Devices .
XIQ-18320	Create New Custom View	A Custom view option is now available to add other types of informational columns to the Device list under Manage > Devices . Only one Custom view can be created per administrator account. The Custom view can be set as the default view for the landing page when users log in to ExtremeCloud IQ.
XIQ-19801	New XAPI for AirDefense Extreme AirDefense Essentials	Introduced a new XAPI that is scalable for Extreme AirDefense Essentials Polling.
XIQ-20156	PPSK Usage View	This feature adds the visibility into the PPSK usage that was lacking. Customers had no way to view what PPSK keys were allocated/used, by whom or by which device and how many keys are inactive or in use. Visibility is limited to PPSK keys that are stored in the cloud.
XIQ-20368	VOSS/Fabric Engine 8.10.2 Onboard, Monitor, Config, and Download Image Support	ExtremeCloud IQ now supports VOSS/Fabric Engine 8.10.2 image download for all supported VSP/Fabric Engine SKUs.
XIQ-20369	VOSS/Fabric Engine 9.0 Onboard, Monitor, Config, and Download Image Support	ExtremeCloud IQ now supports VOSS/Fabric Engine 9.0.0.0 image download for the following switch models: 7720, 7520, 5720, 5520, 5420 and 5320 Universal switches as well as VSP7400 and VSP4900.

Feature ID	Feature	Description
XIQ-20370	VOSS/Fabric Engine 8.10.2 Onboard, Monitor, Config Support with Image Drag & Drop	ExtremeCloud IQ now supports VOSS/ Fabric Engine 8.10.2 onboard, monitor, config with image drag & drop.
XIQ-20371	VOSS/Fabric Engine 9.0 XIQ Onboard, Monitor, Config Support with Image Drag & Drop	ExtremeCloud IQ now supports VOSS/ Fabric Engine 9.0.0.0 onboard, monitor, config with image drag & drop. Supported switch models are: 7720, 7520, 5720, 5520, 5420 and 5320 Universal Switches, as well as VSP7400 and VSP4900.
XIQ-20820	Interface Display under Network: Adding 5Gbps	5Gbps Interface now added to interface display screens.
XIQ-20879	Alert History	<p>Manage > Alerts (Beta) development is now complete. A new dashboard is introduced under Manage > Alerts, featuring Alert list filtering by Site and Acknowledged or Unacknowledged alerts.</p> <p>Note: Alerts raised within 30 days of 23r7 upgrade will persist, but SMS notifications will not persist after the upgrade. Alert policies that were configured under Alerts (Beta) will persist after the upgrade.</p>
XIQ-20880	Alert Policy Redesign	Alert Policy is redesigned to allow for Global Policy and Site Policy configuration. Policies include event- and metrics-based Alert Rules with default settings. Alert Rules can be modified, and quickly toggled on and off.
XIQ-20883	Alert Notification	Alert Notifications (Beta) under Global Settings is now deprecated, and Email Notifications will be deprecated in a future release. Alerts via Webhook and Email notifications are now provisioned under Manage > Alerts > Alert Policy > Notifications .
XIQ-20884	Email Verification	Email for alert notifications now requires verification before the subscription is allowed.
XIQ-21012	Add Inventory View	Under Manage > Devices , the View filter now includes Inventory , which displays device inventory at all sites or a specified site.

Feature ID	Feature	Description
XIQ-21015	AP3000/X Enable 6E Radio for Singapore and change Macao country code	AP3000(X): Enable 6E Radio for Singapore
XIQ-21016	AP3000/X Enable 6E Radio for South Africa	AP3000(X): Enable 6E Radio for South Africa
XIQ-21195	10G license Activate action to be removed from the dropdown	The 5320 no longer requires a 10G license. 10G is available without a license when running Switch Engine 32.6 and Fabric Engine 9.0. The activation of 10G license is removed for 5320 SKUs.
XIQ-21215	Support for IQE 10.6r5	ExtremeCloud IQ now supports IQ Engine 10.6.5.
XIQ-21376	Allow rotating the photo in Media Gallery	This new feature allows rotating an image in the Media Gallery, which can be very useful for situations where pictures were taken at undesired angles, and rotating an image helps with viewing labels and antenna positions more clearly.
XIQ-21449	AP3000/X Open 6E Radio for Thailand and change Vietnam country code	AP3000/X: Open 6E Radio for Thailand
XIQ-21450	AP4000 Open 6E Radio for Thailand and change Vietnam country code	AP4000: Open 6E Radio for Thailand
XIQ-21451	AP5010 Open 6E Radio for Thailand and change Vietnam country code	AP5010: Open 6E Radio for Thailand
XIQ-21952	Add Armenia, Azerbaijan and Uzbekistan to AP302W AP305C AP305CX AP410C AP460/S6/S12C AP510C AP510CX AP630 AP3000/X AP4000-WW AP5010 AP5050	Armenia, Azerbaijan and Uzbekistan Support for <ul style="list-style-type: none"> • AP302W • AP305C • AP305CX • AP410C • AP460/S6/S12C • AP510C • AP510CX • AP630 • AP3000/X • AP4000-WW • AP5010 • AP5050
XIQ-21953	Add Trinidad and Tobago to AP460S12C	Trinidad and Tobago now support AP460S12C
XIQ-21959	AP460C/S6/S12 for Panama	Panama now supports AP460/S6/S12C

Feature ID	Feature	Description
XIQ-21966	Add Albania for Wi-Fi 6 APs	Add Albania for Wi-Fi 6 APs: <ul style="list-style-type: none"> AP305CX AP410C AP460C/S6C/S12C AP302W AP510C AP510CX
XIQ-22287	10.6r1a for Maintenance APs: Include Security Fixes	The following APs now support IQ Engine 10.6.1a: <ul style="list-style-type: none"> AP30 AP122 AP122X AP130 AP150W AP230 AP245X AP250 AP550 AP1130
XIQ-22344	AP5010 Enable 6E Radio for Singapore and change Macao country code	AP5010: Enable 6E Radio for Singapore
XIQ-22345	AP4000 Enable 6E Radio for Singapore and change Macao country code	AP4000: Enable 6E Radio for Singapore
XIQ-22489	Do not allow the Export VIQ option for Trial VIQs	Download of the Exported VIQ is not supported for trial VIQ accounts.
XIQ-22691	CoPilot - License Violation Banner at CoPilot dashboard	Added option to dismiss CoPilot license violation banner for 7 days. The banner appears only for CoPilot
XIQ-22696	Assign a Client Alias to a Thread Client	It is now possible to assign a Client Alias to a Thread Client.
XIQ-22816	Add Fiji for AP305C, AP302W and AP460C	AP305C, AP302W, and AP460C are now supported in Fiji.
XIQ-22878	ExtremeXOS/Switch Engine 32.6.1.5 Onboard, Monitor, Config (Drag/Drop) Support	ExtremeCloud IQ now supports ExtremeXOS/Switch Engine 32.6.1.5 image via local image management option.
XIQ-22879	ExtremeXOS/Switch Engine 32.6.1.5 Download Image Support	ExtremeCloud IQ now supports ExtremeXOS/Switch Engine 32.6.1.5 image download.
XIQ-23535	VOSS/Fabric Engine support for ExtremeCloud IQ Agent 0.7.8 images, contents, and md5sums	VOSS/Fabric Engine now supports ExtremeCloud IQ Agent 0.7.8.

Feature ID	Feature	Description
XIQ-23858	ExtremeXOS/Switch Engine support for ExtremeCloud IQ Agent 0.7.52 images, contents, and md5sums	ExtremeXOS/Switch Engine now supports ExtremeCloud IQ Agent 0.7.52.
XIQ-23899	XIQ WIPS Page- Allow both AirDefense Essentials & Legacy WIPS	Dual Legacy WIPS and AirDefense Essentials can be configured on the same network profile. Models that support AirDefense Essentials will default to that platform. All others will be on legacy WIPS.
XIQ-23991	ExtremeXOS/Switch Engine 32.5.1 Patch 1-6 Download Image Support	ExtremeCloud IQ now supports ExtremeXOS/Switch Engine 32.5.1.5-patch1-6 image download.
XIQ-24396	ExtremeXOS/Switch Engine 31.7.2.28 Patch 1-38 Image Download Support	ExtremeCloud IQ now supports ExtremeXOS/Switch Engine 31.7.2-patch1-38 image download.
XIQ-24410	Remove BLE trail from XIQ maps	The Device Trail Over Time viewing option is removed from ExtremeCloud IQ Maps to prepare for future location enhancements.
XIQ-24773	ExtremeXOS/Switch Engine 31.3.100.20 Onboard, Monitor, Config (Drag/Drop) Support	ExtremeCloud IQ now supports ExtremeXOS/Switch Engine 31.3.100.20 image via local image management option.
XIQ-26413	ExtremeXOS/Switch Engine 32.6.1.5 Patch 1-2 Download Image Support	ExtremeCloud IQ now supports ExtremeXOS/Switch Engine 32.6.1.5-patch-1-2 image download.
XIQ-26427	ExtremeXOS/Switch Engine 32.6.1.5 Patch 1-2 Onboard, Monitor, Config (Drag/Drop) Support	ExtremeCloud IQ now supports ExtremeXOS/Switch Engine 32.6.1.5-patch1-2 image via local image management option.

Addressed Issues

Release 23.7.0.66 Addressed Issues

Table 3: Addressed Issues in Release 23.7.0.66

Issue ID	Description
CFD-10432	Addressed the issue where ExtremeCloud IQ displayed a "java.lang.ClassCastException" error when using the main production network policy. This fix is included in minor release 23.7.1.

Release 23.7.0.64 Addressed Issues

Table 4: Addressed Issues for Release 23.7.0.64

Issue ID	Description
CFD-10299	Addressed the issue where ExtremeCloud IQ displayed the wrong license quantities in the entitlements table.

Addressed Issues in 23.7.0.59

Issue ID	Description
XIQ-19826	Addressed Japanese translations issues.
XIQ-19827	Users can now successfully delete ExtremeCloud IQ Site Engine. When ExtremeCloud IQ Site Engine is deleted, all associated cloud config groups are successfully removed.
XIQ-21617	Addressed several XSS (Cross Site Scripting) issues within the ExtremeCloud IQ user interface.
CFD-8677 (02688860)	Addressed issue where VLAN probe shows the results of a successful probe while the status says it is still running.
CFD-8678 (02688797)	Addressed issue where VLAN probe category counts are not always accurate.

Known Issues

Known Issues in 23.7.0.59

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-20111	It is impossible to modify elements of a Site configuration if a Country is not assigned to the Site. Each Site must have an assigned Country.
XIQ-20909	AP3000: When trying to configure 6 GHz for a country that does not support it, the config push fails. Workaround: Revert to 2.4 GHz.
XIQ-25506 02859821, 02862601, 02868575	An upgrade to VOSS/Fabric Engine 9.0 no longer requires a 10G license for 5320 SKUs. An issue exists where a 10G license still applied will not be properly displayed in the manage devices feature license column. However, the 10G license can still be revoked with the Action > Revoke > License > 4-port 10G or 8-port 10G license option.

Issue ID	Description
XIQ-24848	<p>After onboarding a stack and assigning a template, the configuration delta may display the error message: "Cannot find device stack template." Perform a configuration update. Then, subsequent configuration changes to the stack will display the configuration delta.</p> <p>The delta configuration error message for newly onboarded stacks will be resolved in a future release.</p>
XIQ-22574	<p>ExtremeCloud IQ accounts that are restricted to see devices in certain locations do not see devices that do not have a location set.</p> <p>Workaround: Prevent user roles with access to a subset of locations from having access to devices that are not placed in a location.</p>
XIQ-22462	<p>A configuration update may fail for configurations related to IPv6 on Switch Engine running software version 32.5.1.5.</p> <p>Workaround: Upgrade to 32.5.1.5 Patch1-1 and then proceed with pushing a device configuration update.</p>
XIQ-21943	<p>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.</p>
XIQ-20194	<p>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.</p>
XIQ-19572	<p>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.</p>
XIQ-18679	<p>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.</p> <p>Workaround: Set devices to unmanaged and then managed to remedy the situation.</p>
XIQ-18544	<p>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.</p>

Issue ID	Description
XIQ-18175	<p>The question mark character is supported in the Global Setting > Device Management Settings password text box, but it is not supported in the Policy > Device Credentials password text box.</p> <p>Note: Switch Engine and Fabric Engine do not support the question mark character. You can create a separate password for Switch Engine and Fabric Engine at device-level configuration.</p>
XIQ-17024	<p>The Cable Test action is not supported on the x435 switch running the 32.3 software image due to limitations with storage space on the switch.</p>
XIQ-16652	<p>The AP3000/X and AP5010U Auto Provision Update is failing with country code discover timeout.</p>
XIQ-12503	<p>Network 360 shows Unknown Error when All Access Points Applications is selected and the user is selecting both ExtremeWireless WiNG and IQ Engine devices.</p> <p>Workaround: Deselect ExtremeWireless WiNG devices.</p>
XIQ-11984	<p>For AP3000/X and AP5050U/D 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.</p>
XIQ-9848	<p>Duplicate entries in the Client Trail when a client moves away from the AP then comes back.</p>
XIQ-9847	<p>The Roam Time entry in the Client Trail does not always display the correct device name.</p>
XIQ-7312	<p>5720 Switch Engine devices show as connected during the reboot process.</p>
XIQ-5700	<p>Client Trial only showed the currently connected AP when the client roamed to a different AP from the onboarded ExtremeCloud IQ Controller.</p>
CFD-8946 (02710778, 02748750)	<p>License descriptions are automatically cleared when the "ACTIVATED" status is updated.</p>
CFD-8678 (02688797)	<p>VLAN probe category counts are not always accurate.</p>
CFD-8677 (02688860)	<p>VLAN probe shows the results of a successful probe while the status says it is still running.</p>
CFD-8598 (02670900)	<p>Cannot enable Guest Essentials via Configure > Guest Essentials Users.</p> <p>Workaround: From ExtremeCloud IQ, go to Essentials > Extreme Guest.</p>
CFD-8216 (02634924)	<p>When Air Defense Essentials is enabled, APs 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.</p>

Issue ID	Description
APC-41057	<p>Legend labels on the switch stack graph sometimes disappear when attempting to download or print the graph.</p> <p>Workaround:</p> <ol style="list-style-type: none"> 1. Only download one graph at a time, and open the downloaded file before choosing to download again. 2. The SVG option is the most stable format; PNG, JPG, and PDF have spacing issues on the legend section.
APC-22297	<p>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.</p>
APC-21456	<p>In rare cases, ExtremeCloud IQ does not upload some IGMP sub-commands successfully.</p> <p>Workaround: Use the Supplemental CLI to upload commands when necessary.</p>
APC-20760	<p>ExtremeCloud IQ reports any wired devices that are connected to an SR2208P switch as unidentified.</p>
APC-20734	<p>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.</p>
APC-20647	<p>ExtremeCloud IQ does not successfully upload configurations that contain an external RADIUS server.</p>
APC-20172	<p>The option to configure SSH wrongly displays when attempting bulk edits of multiple switches or of switches and APs together. However, when the administrator is performing bulk edits of multiple APs only, ExtremeCloud IQ correctly hides the SSH configuration options.</p>
DAPC-385	<p>ExtremeCloud IQ sometimes displays the incorrect port number in the tool tip when the administrator mouses over a stack port on the Port Status page.</p>
DAPC-382	<p>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.</p>
DAPC-240D	<p>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.</p> <p>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:</p> <ol style="list-style-type: none"> 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 administrator 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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- [Access Points](#) on page 19
- [Switches](#) on page 22
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- [Supported Browsers and Display Settings](#) on page 39

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 10.08.01	Monitor only
E2120	XIQC 10.08.01	Monitor only
E2122	XIQC 10.08.01	Monitor Only
E3120	XIQC 10.08.01	Monitor only
VE6120	XIQC 10.08.01	Monitor only
VE6120H	XIQC 10.05.02	Monitor only
VE6120K	XIQC 10.08.01	Monitor Only
VE6125	XIQC 10.08.01	Monitor only
VE6125K	XIQC 10.08.01	Monitor Only
NX5500	WiNG OS 7.9.3.0	Monitor only
NX7500 Series	WiNG OS 7.9.3.0	Monitor only
NX9500 Series	WiNG OS 7.7.1.5	Monitor only
NX9600 Series	WiNG OS 7.9.3.0	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 7.9.3.0	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 10.6.5 WiNG OS 7.9.3.0 AP 10.8.1	Platform support introduced with IQ Engine 10.3.1
AP305C	IQ Engine 10.6.5 WiNG OS 7.9.3.0 AP 10.8.1	Platform support introduced with IQ Engine 10.1.1
AP305C-1	IQ Engine 10.6.5 WiNG OS 7.9.3.0 AP 10.8.1	Platform support introduced with IQ Engine 10.4.6
AP305CX	IQ Engine 10.6.5 WiNG OS 7.9.3.0 AP 10.8.1	Platform support introduced with IQ Engine 10.1.1
AP3000	IQ Engine 10.6.5 AP 10.8.1	Platform support introduced with IQ engine 10.6.1
AP3000X	IQ Engine 10.6.5	Platform support introduced with IQ Engine 10.6.1
AP4000	IQ Engine 10.6.5 AP 10.8.1	Platform support introduced with IQ Engine 10.4.1
AP4000-1	IQ Engine 10.6.5 AP 10.8.1	Platform support introduced with IQ Engine 10.4.2
AP410C	IQ Engine 10.6.5 WiNG OS 7.9.3.0 AP 10.8.1	Platform support introduced with IQ Engine 10.1.2
AP410C-1	IQ Engine 10.6.5 WiNG OS 7.9.3.0 AP 10.8.1	Platform support introduced with IQ Engine 10.4.6
AP460C	IQ Engine 10.6.5 WiNG OS 7.9.3.0 AP 10.8.1	Platform support introduced with IQ Engine 10.1.2

Device Model	Latest Supported Release	Comments
AP460S6C	IQ Engine 10.6.5 WiNG OS 7.9.3.0 AP 10.8.1	Platform support introduced with IQ Engine 10.1.2
AP460S12C	IQ Engine 10.6.5 WiNG OS 7.9.3.0 AP 10.8.1	Platform support introduced with IQ Engine 10.1.2
AP650	IQ Engine 10.6.5	Platform support introduced with IQ Engine 10.0.1
AP5010	IQ Engine 10.6.5 AP 10.8.1 WiNG OS 7.9.3.0	Platform support introduced with IQ Engine 10.5.1
AP5050U	IQ Engine 10.6.5 AP 10.8.1	Platform support introduced with IQ Engine 10.5.3
AP5050D	IQ Engine 10.6.5 AP 10.8.1	Platform support introduced with IQ Engine 10.5.3

IQ Engine (Cloud Native)

Device Model	Latest Supported Release	Comments
AP630	IQ Engine 10.6.5	Platform support introduced with IQ Engine 10.0.1. End of Life Information
AP650	IQ Engine 10.6.5	Platform support introduced with IQ Engine 10.0.1. End of Life Information
AP650X	IQ Engine 10.6.5	Platform support introduced with IQ Engine 10.0.1. End of Life Information
AP1130	IQ Engine 10.6.1a	Platform support introduced with IQ Engine 8.2.1. End of Life Information
AP550	IQ Engine 10.6.1a	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
AP350	IQ Engine 6.5.16	End of Life Information
AP340	IQ Engine 6.5.10	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 10.6.1a	Platform support introduced with IQ Engine 7.0.2.

Device Model	Latest Supported Release	Comments
AP245X	IQ Engine 10.6.1a	Platform support introduced with IQ Engine 7.0.2. End of Life Information
AP230	IQ Engine 10.6.1a	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 10.6.1a	Platform support introduced with IQ Engine 8.1.1.
AP141	IQ Engine 6.5.16	End of Life Information
AP130	IQ Engine 10.6.1a	Platform support introduced with IQ Engine 8.2.1. End of Life Information
AP122	IQ Engine 10.6.1a	Platform support introduced with IQ Engine 7.0.4.
AP122X	IQ Engine 10.6.1a	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 10.6.1a	Platform support introduced with IQ Engine 8.3.2.
AP510C/CX	IQ Engine 10.6.5	Platform support introduced with IQ Engine 10.0.8

ExtremeWireless WiNG

Device Model	Latest Supported Release	Comments
AP560i	WiNG OS 7.9.3.0	Monitor only
AP560h	WiNG OS 7.9.3.0	Monitor only
AP505	WiNG OS 7.9.3.0	Monitor only
AP510i	WiNG OS 7.9.3.0	Monitor only
AP510i-1	WiNG OS 7.9.3.0	Monitor only
AP460i/e	WiNG OS 7.9.3.0	Monitor only
AP410i/e	WiNG OS 7.9.3.0	Monitor only
AP410i-1	WiNG OS 7.9.3.0	Monitor only
AP360i/e	WiNG OS 7.9.3.0	Monitor only
AP310i/e	WiNG OS 7.9.3.0	Monitor only
AP310i/e-1	WiNG OS 7.9.3.0	Monitor Only
AP3000	WiNG OS 7.9.3.0	Monitor Only
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

Device Model	Latest Supported Release	Comments
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 29
- [VOSS](#) on page 32

- [IQ Engine \(Cloud Native\)](#) on page 33
- [Dell EMC](#) on page 34

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
5320-16P-4XE	Switch Engine 32.6 Fabric Engine 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	Switch Engine: <ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy
5320-16P-4XE-DC	Switch Engine 32.6 Fabric Engine 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	Switch Engine: <ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy
5320-24T-8XE	Switch Engine 32.6 Fabric Engine 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy
5320-24P-8XE	Switch Engine 32.6 Fabric Engine 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy
5320-48P-8XE	Switch Engine 32.6 Fabric Engine 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy
5320-48T-8XE	Switch Engine 32.6 Fabric Engine 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy

Device Model	Latest Supported Release	Standalone Support	Stack Support
5420F-24T-4XE	Switch Engine 32.6 Fabric Engine 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy
5420F-24P-4XE	Switch Engine 32.6 Fabric Engine 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy
5420F-24S-4XE	Switch Engine 32.6 Fabric Engine 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy
5420F-48T-4XE	Switch Engine 32.6 Fabric Engine 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy
5420F-48P-4XE	Switch Engine 32.6 Fabric Engine 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy
5420F-48P-4XL	Switch Engine 32.6 Fabric Engine 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy
5420F-8W-16P-4XE	Switch Engine 32.6 Fabric Engine 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy

Device Model	Latest Supported Release	Standalone Support	Stack Support
5420F-16W-32P-4XE	Switch Engine 32.6 Fabric Engine 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy
5420F-16MW-32P-4XE	Switch Engine 32.6 Fabric Engine 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy
5420M-24T-4YE	Switch Engine 32.6 Fabric Engine 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy
5420M-24W-4YE	Switch Engine 32.6 Fabric Engine 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy
5420M-48T-4YE	Switch Engine 32.6 Fabric Engine 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy
5420M-48W-4YE	Switch Engine 32.6 Fabric Engine 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy
5420M-16MW-32P-4YE	Switch Engine 32.6 Fabric Engine 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy

Device Model	Latest Supported Release	Standalone Support	Stack Support
5520-24W	Switch Engine 32.6 Fabric Engine 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy
5520-24T	Switch Engine 32.6 Fabric Engine 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy
5520-24T-ACDC	Switch Engine 32.6 Fabric Engine 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	Switch Engine: <ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy
5520-24X-ACDC	Switch Engine 32.6 Fabric Engine 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	Switch Engine: <ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy
5520-48W	Switch Engine 32.6 Fabric Engine 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy
5520-48T	Switch Engine 32.6 Fabric Engine 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy
5520-48T-ACDC	Switch Engine 32.6 Fabric Engine 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy

Device Model	Latest Supported Release	Standalone Support	Stack Support
5520-12MW-36W	Switch Engine 32.6 Fabric Engine 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy
5520-48SE	Switch Engine 32.6 Fabric Engine 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy
5520-48SE-ACDC	Switch Engine 32.6 Fabric Engine 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy
5520-24X	Switch Engine 32.6 Fabric Engine 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	Switch Engine: <ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy
5720-24MW	Switch Engine 32.6 Fabric Engine 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	Switch Engine: <ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy
5720-48MW	Switch Engine 32.6 Fabric Engine 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	Switch Engine: <ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy
5720-24MXW	Switch Engine 32.6 Fabric Engine 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	Switch Engine: <ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy

Device Model	Latest Supported Release	Standalone Support	Stack Support
5720-48MXW	Switch Engine 32.6 Fabric Engine 9.0	<ul style="list-style-type: none"> Monitor Template- and device-level configuration SSH Proxy* Supplemental CLI* 	Switch Engine: <ul style="list-style-type: none"> Monitor Template- and device-level configuration SSH Proxy
7520-48Y	Switch Engine 32.6 Fabric Engine 9.0	Switch Engine: <ul style="list-style-type: none"> Monitor Template- and device-level configuration SSH Proxy* Supplemental CLI* Fabric Engine: Monitor	Switch Engine: <ul style="list-style-type: none"> Monitor Template- and device-level configuration SSH Proxy
7520-48YE	Switch Engine 32.6 Fabric Engine 9.0	Switch Engine: <ul style="list-style-type: none"> Monitor Template- and device-level configuration SSH Proxy* Supplemental CLI* Fabric Engine: Monitor	Switch Engine: <ul style="list-style-type: none"> Monitor Template- and device-level configuration SSH Proxy
7520-48XT	Switch Engine 32.6 Fabric Engine 9.0	Switch Engine: <ul style="list-style-type: none"> Monitor Template- and device-level configuration SSH Proxy* Supplemental CLI* Fabric Engine: Monitor	Switch Engine: <ul style="list-style-type: none"> Monitor Template- and device-level configuration SSH Proxy
7720-32c	Switch Engine 32.6 Fabric Engine 9.0	Switch Engine: <ul style="list-style-type: none"> Monitor Template- and device-level configuration SSH Proxy* Supplemental CLI* Fabric Engine: Monitor	Switch Engine: <ul style="list-style-type: none"> Monitor Template- and device-level configuration SSH Proxy



Note

* SSH Proxy and Supplemental CLI can be used for configuring additional parameters not currently available within template or device-level configurations.

ExtremeXOS

Device Model	Latest Supported Release	Standalone Support	Stack Support
X435-8P-2T-W	ExtremeXOS 32.5	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	N/A
X435-24T-4S	ExtremeXOS 32.5	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	N/A
X435-24P-4S	ExtremeXOS 32.5	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	N/A
X435-8T-4S	ExtremeXOS 32.5	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	N/A
X435-8P-4S	ExtremeXOS 32.5	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	N/A
X440-G2-12p-10GE4	ExtremeXOS 32.5	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI*
X440-G2-12t-10GE4	ExtremeXOS 32.5	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI*

Device Model	Latest Supported Release	Standalone Support	Stack Support
X440-G2-24p-10GE4	ExtremeXOS 32.5	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI*
X440-G2-24t-10GE4	ExtremeXOS 32.5	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI*
X440-G2-48p-10GE4	ExtremeXOS 32.5	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI*
X440-G2-48t-10GE4	ExtremeXOS 32.5	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI*
X450-G2-24p-GE4	ExtremeXOS 32.5	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	Monitor
X450-G2-24p-10GE4	ExtremeXOS 32.5	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	Monitor
X450-G2-48p-10GE4	ExtremeXOS 32.5	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	Monitor

Device Model	Latest Supported Release	Standalone Support	Stack Support
X460-G2-24p-10GE4	ExtremeXOS 32.5	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	Monitor
X460-G2-48p-10GE4	ExtremeXOS 32.5	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	Monitor
X465-24W	ExtremeXOS 32.5	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	Monitor
X465-48W	ExtremeXOS 32.5	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	Monitor
X465-24MU	ExtremeXOS 32.5	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	Monitor
X465-48P	ExtremeXOS 32.5	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	Monitor
X465-24MU-24W	ExtremeXOS 32.5	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	Monitor

**Note**

* SSH Proxy and Supplemental CLI can be used for configuring additional parameters not currently available within template or device-level configurations.

VOSS

Device Model	Latest Supported Release	Standalone Support	Stack Support
VSP7432CQ	VOSS 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	Not supported
VSP7400-48Y	VOSS 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	Not supported
VSP4900-48P	VOSS 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	Not supported
VSP4900-24XE	VOSS 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	Not supported
VSP4900-24S	VOSS 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	Not supported
VSP4900-12MXU-12XE	VOSS 9.0	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	Not supported

Device Model	Latest Supported Release	Standalone Support	Stack Support
XA1480	VOSS 8.10	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	Not supported
XA1440	VOSS 8.10	<ul style="list-style-type: none"> • Monitor • Template- and device-level configuration • SSH Proxy* • Supplemental CLI* 	Not supported

**Note**

* SSH Proxy and Supplemental CLI can be used for configuring additional parameters not currently available within template or device-level configurations.

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
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	<i>Not supported in ExtremeCloud IQ</i>
BR200 End of Life	IQ Engine 6.5.12	<i>Not supported in ExtremeCloud IQ</i>

Device Model	Latest Supported Release	Standalone Support
BR200-LTE-VZ End of Life	IQ Engine 6.5.12	<i>Not supported in ExtremeCloud IQ</i>
BR200WP End of Life	IQ Engine 6.9.7	
XR200P	IQ Engine 6.9.7	Platform support introduced with IQ Engine 6.9.2
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
22.09.12.14	<ul style="list-style-type: none"> • License allocation • Device Statistics • Port Statistics • Unmanage/Manage device • Device Group to CCG mapping • Open Site Engine with SSO
22.09.13.5	<ul style="list-style-type: none"> • License allocation • Device Statistics • Port Statistics • Unmanage/Manage device • Device Group to CCG mapping • Open Site Engine with SSO
23.02.10	<ul style="list-style-type: none"> • License allocation • Device Statistics • Port Statistics • Unmanage/Manage device • Device Group to CCG mapping • Open Site Engine with SSO • Stack members
23.02.11	<ul style="list-style-type: none"> • 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
23.04.10	<ul style="list-style-type: none"> • License allocation • Device Statistics • Port Statistics • Unmanage/Manage device • Device Group to CCG mapping • Open Site Engine with SSO • Stack members
23.04.11	<ul style="list-style-type: none"> • License allocation • Device Statistics • Port Statistics • Unmanage/Manage device • Device Group to CCG mapping • Open Site Engine with SSO • Stack members
23.04.12	<ul style="list-style-type: none"> • License allocation • Device Statistics • Port Statistics • Unmanage/Manage device • Device Group to CCG mapping • Open Site Engine with SSO • Stack members
23.07.10	<ul style="list-style-type: none"> • 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
23.07.11	<ul style="list-style-type: none"> • 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 Site Engine Version	Supported Features
23.07.12	<ul style="list-style-type: none"> • 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
23.07.13	<ul style="list-style-type: none"> • 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
23.11.10	<ul style="list-style-type: none"> • 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
23.11.11	<ul style="list-style-type: none"> • 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	Extreme XOS	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
Wireless Connectivity Experience	10.5.2	--	--	--	--
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	<ul style="list-style-type: none"> • Licensing • Status Monitoring • SSO • Client Details
5.0.1-4	<ul style="list-style-type: none"> • Licensing • Status Monitoring • SSO • Client Details

Supported Browsers and Display Settings

Desktop and Mobile Browser Support



Note

ExtremeCloud IQ does not support 32-bit browsers.

Table 5: Desktop Browsers

Desktop Browsers	Version Supported
Chrome	v116
Edge	v115
Firefox	v115
Internet Explorer	Not supported
Opera	v60
Safari	v13

Table 6: Mobile Browsers

Mobile Browsers	Version Supported
Android Webview	v73
Chrome for Android	v116
Edge	v79
Firefox for Android	v67
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.